APPENDIX

COMPLETE LIST

OF

MAGNETIC OBSERVATIONS

1893——1896

Reduced to

1895.0 and **SEA LEVEL**

Errata to the Appendix.

Page.	(2)	Oct. 19^{th} 7^{h} 1^{m} in δ,	for	4° 22′ 4″	read	4° 22′ 6″.
„	(3)	June 26^{th} 19^{h} $22^{m}.4$ in δ,	„	4° 27′ 37″	„	4° 29′ 37″.
„	(5)	July 18^{th} 19^{h} $48^{m}.8$ in δ,	„	4° 23′ 41″	„	4° 22′ 41″.
„	(7)	line 3 from top,	„	Tlme	„	Time.
„	(8)	July 4^{th} 19^{h} $43^{m}.4$ in Mean Temp.,	„	26.°3	„	26.°0.
„	(9)	Oct. 18^{th} 9^{h} 55^{m} in H,	„	0.28703	„	0.29703.
„	(9)	Oct. 18^{th} 14^{h} 22^{m} in H,	„	0.26746	„	0.29746.
„	(10)	Sept. 6^{th} 23^{h} 50^{m} in H,	„	0.28916	„	0.29816.
„	(10)	Sept. 7^{th} 8^{h} 13^{m} in φ_2,	„	3 46 38.8	„	13 46 38.8.
„	(10)	Sept. 6^{th} 8^{h} 13^{m} in Observer,	„	Hatori	„	Hattori.
„	(13)	Table 3,	„	East	„	South.
„	(14)	July 8^{th} 23^{h} $44^{m}.8$ in Observer,	„	Ōmore	„	Ōmori.
„	(14)	θ,	„	40.2	„	46.2.
„	(17)	θ Reduction to Sea Level,	„	0.06	„	−0.06.
„	(19)	9 Karuisawa,	„	Eest	„	East.
„	(20)	11 Ueda,	„	West	„	East.
„	(20)	Line 2 from bottom,	„	0.03	„	−0.03.
„	(22)	Line 4 from bottom,	„	29.4	„	29.07.
„	(27)	Dip in Date and Hour,	„	July	„	Oct.
„	(27)	H in Date and Hour,	„	3^{th}	„	3^{rd}.
„	(35)	Table 2,	„	δ	„	θ.
„	(36)	Aug. 22^{nd} 10^{h} $4^{m}.2$ in Observer,	„	Vakamura	„	Nakamura.
„	(37)	25 Niigata,	„	23^{th}	„	23^{rd}.
„	(38)	Dip in Date and Hour,	„	23^{nd}	„	23^{rd}.
„	(40)	Aug. 30^{th} 2^{h} 9^{m} in Observer,	„	Kimuaa	„	Kimura.
„	(41)	Dip,	„	South	„	East,
		and	„	1894	„	1893.
„	(41)	Aug. 30^{th} 10^{h} 15^{m} in Mean Temp.,	„	30.2	„	31.4.
„	(41)	Aug. 30^{th} 10^{h} 15^{m} in Temp. t_D,	„	31.4	„	30.2.
„	(41)	Declination in Date and Hour,	„	31^{th}	„	31^{st}.
„	(42)	Horizontal Intensity,	„	Teлcp.	„	Temp.,
		and	„	Rscorder	„	Recorder.
„	(42)	Sept. 1^{st} 5^{h} 51^{m} in Mean Temp.,	„	29.0	„	22.0.
„	(42)	Sept. 1^{st} 5^{h} 51^{m} in Observer,	„	Makamura	„	Nakamura.

ERRATA TO THE APPENDIX.

Page.	(43)	Sept. 3^{rd}, $18^h\ 6^m$ in φ_2,	for	15 56 61,	read	15 56 51.9.
,,	(44)	Sept. 6^{th} $13^h\ 44^m$ in Mean Temp.,	,,	25.°6	,,	26.°6.
,,	(44)	Sept. 6^{th} $13^h\ 44^m$ in Temp. t_v,	,,	25.°7	,,	27.°5.
,,	(44)	Sept, 7^{th} $23^h\ 54^m$ in Observer,	,,	Midzusma	,,	Midzusima.
,,	(45)	Declination in Sea level,	,,	0.06	,,	−0.06.
,,	(48)	Declination,	,,	1896	,,	1893.
,,	(50)	Sept. 18^{th} $11^h\ 1^m$ in Mean Temp.,	,,	26.2	,,	21.2.
,,	(52)	Horizontal Intensity,	,,	South	,,	East.
,,	(55)	Horizontal Intensity,	,,	South	,,	East.
,,	(58)		,,	Delection	,,	Declination.
,,	(59)	Declination,	,,	1895	,,	1893.
,,	(65)	July 12^{th} 17^h in Date and Hour,	,,	3.1^m	,,	31^m.
,,	(71)	60 and 61 in Sea level,	,,	0.08	,,	−0.08.
,,	(72)	Dip, in Reduction to Sea Level,	,,	0.01	,,	−0.01.
,,	(73)	Dip, in Date and Hour,	,,	Juyl	,,	July.
,,	(76)	Dip, in Sea Level,	,,	0.02	,,	−0.02.
,,	(76)	Declination in δ,	,,	4° 28′9	,,	4° 29′0.
,,	(77)	Dip, in Reduction to 1895.0,	,,	0.43	,,	−0.43.
,,	(78)	Horizontal Intensity in Date and Hour,	,,	29^{th}	,,	30^{th}.
,,	(81)	Addition to Table 3, Observations of the Seto sea party, 1896.				
,,	(83)	Dip in Reduction to 1895.0,	,,	0.99	,,	−0.99.
,,	(84)	Declination,	,,	West party, 1893	,,	Kinki party, 1896.
,,	(88)	Declination in Date and Hour,	,,	25^{nd}	,,	25^{th}.
,,	(92)	Aug. 15^{th} $8^h\ 5^m$ in Observer,	,,	Uziik	,,	Uziie.
,,	(94)	Horizontal Intensity in Date and Hour,	,,	$2:^{th}$	,,	22^{nd}.
,,	(94)	Aug. 23^{rd},	,,	$16^h\ 2^m$	,,	$16^h\ 21^m$.
,,	(95)	Dip in, θ,	,,	11′6	,,	11′1.
,,	(95)	Declination,	,,	25^{th}	,,	26^{th}.
,,	(95)	Aug. 26^{th} $16^h\ 30^m$ in δ,	,,	,,	,,	4.°.
,,	(96)	Aug. 28^{th} $13^h\ 29^m$ in Time of 1-Vibn.,	,,	56.′732	,,	5.6732.
,,	(97)	Aug. 30^{th} $15^h\ 26^m$ in Mean Temp.,	,,	27.°0C	,,	29.°0C.
,,	(98)	Declination,	,,	Daet	,,	Date.
,,	(100)	Declination in δ,	,,	4′′)	,,	49′80.
,,	(101)	July 15^{th} $22^h\ 2^m$ in M,	,,	424.23	,,	422.43.
,,	(101)	Nagahama,	,,	July $18^h\ 24^m$	,,	July $10^{th}\ 18^h\ 24^m$.
,,	(101)	Nagahama in θ,	,,	59° 7′0	,,	49° 7′0.

Page.	(102)	Declination in Date and Hour,	for	3rd	read	„ .
„	(103)	Sept. 13^{th} 15^{h} 29^{m},	„	20.8	„	30.8.
„	(103)	Horizontal Intensity in Mean,	„	0.30221	„	0.30321.
„	(104)	Dip in θ,	„	56′35	„	56′39.
„	(108)	Horizontal Intensity,	„	Wazima party, 95	„	West party, 1893.
„	(118)	Dip Aug. 18^{th},	„	47^{m}	„	4.7^{m}.
„	(119)	July 21^{st} 16^{h} $58^{m}.4$ in Observer,	„	Tanakedata	„	Tanakadate.
„	(120)	Dip,	„	22^{th}	„	22^{nd}.
„	(120)	Declination,	„	24^{nd}	„	24^{th}.
„	(122)	Horizontal Intensity in Time of 1-Vibn.,	„	5ˢ99317	„	5ˢ99931.
„	(124)	Dip in Sea level,	„	0.12	„	0.02.
„	(124)	Dip in θ,	„	57° 35′0	„	57° 34′9.
„	(124)	Horizontal Intensity in Sea level,	„	1029	„	147.
„	(124)	Horizontal Intensity in H,	„	0.26595	„	0.26586.
„	(124)	Table 4,	„	θ	„	δ.
„	(128)	Horizontal Intensity in φ_1,	„	7 33 36.2	„	7 32 36.2.
„	(131)	Horizontal Intensity,	„	West	„	North.
„	(140)	Dip in Date and Hour,	„	2^{rd}	„	2^{nd}.
„	(140)	Dip in Date and Hour,	„	3^{th}	„	3^{rd}.
„	(140)	Horizontal Intensity in Date and Hour,	„	2^{rd}	„	2^{nd}.
„	(140)	Horizontal Intensity in Date and Hour,	„	3^{th}	„	3^{rd}.
„	(153)	Declination in Date and Hour,	„	„ „ 4 41.1	„	Aug. 1^{st} 4 41.1.
„	(163)	Declination in Date and Hour,	„	4.22	„	42.2.
„	(166)	Siranuka,	„	Coffiice	„	Office.
„	(174)	Table 4 in φ_1,	„	6 39 6.6	„	6 39 6.9
„	(174)	Table 4 in Temp. t_D,	„	151	„	15.1.
„	(175)	Table 1,	„	Defleetion	„	Deflection.
„	(175)	Table 2,	„	1894	„	1895.
„	(176)	Table 4 in Mean Temp.,	„	25.°9	„	26.°9.
„	(177)	Table 2 in Observer,	„	Kotō	„	Katō.
„	(190)	Akka,	„	vegitable	„	Vegetable.
„	(191)	Table 1,	„	θ	„	δ.
„	(197)	Kesennuma Syuttyō (1) in Date and Hour,	„	12^{st}	„	31^{st}.
„	(199)	Table 3 from top in Date and Hour,	„	19^{m}	„	47^{m}.
„	(199)	Table 6 from top,	„	Honr	„	Hour.

Page.	(199)	Table 6 from top in θ,	for	51° 46′4	read	52° 34′9.
„	(205)	Table 2 in θ,	„	53° 33′8	„	53° 33′7.
„	(205)	Akita Syuttyō (Dip) in Recorder,	„	Sinzō	„	Sinzyō.
„	(207)	Declination in Date and Hour,	„	4th	„	„ .
„	(207)	Declination in Reduction to 1895.0,	„	1.47	„	−1.47.
„	(210)	Declination in δ,	„	5° 30′ 4″	„	5° 30′ 43″.
„	(212)	Declination in Date and Hour,	„	„ „ 8 1.99	„	„ „ 8 19.9.
„	(215)	Horizontal Intensity in Recorder,	„	Sinyzō	„	Sinzyō.
„	(218)	Makado Syuttyō,	„	ncedle	„	needle.
„	(221)	Table 3 from Top,	„	Easte	„	East.
„	(221)	198,	„	Fukaya	„	Hukaya.
„	(222)	Horizontal Intensity in Date and Hour,	„	8 33	„	6 33.
„	(222)	199 Sakura,	„	graund	„	ground.
„	(232)	Hukusima,	„	207.	„	209.
„	(233)	Yonezawa,	„	North	„	South.
„	(236)	Sakata,	„	613	„	213.
„	(242)	Horizontal Intensity,	„	1894	„	1895.
„	(253)	Declination in δ,	„	5 59 42	„	4 59 42.
„	(254)	Declination in δ,	„	„ 31 7	„	„ 31 37.
„	(256)	Declination in δ,	„	„ 4 18	„	„ 4 41.
„	(259)	θ,	„	49° 2′0	„	49° 2′9.
„	(260)	Horizontal Intensity,	„	Temp. t_V	„	Temp. t_D.
„	(261)	Horizontal Intensity in Temp. t_D,	„	327C	„	32°.7C.
„	(264)	Line 28 from top,	„	1865.0	„	1895.0.
„	(271)	Dip in θ,	„	46° 56.°0	„	46° 56′0.
„	(278)	Horizontal Intensity in Temp. t_D,	„	30°C	„	30.°4C.
„	(279)	Declination in δ	„	„ 34 0	„	„ 34 30.
„	(284)	Table 4 from top in Temp. t_V,	„	3°.83C	„	38.°3C.
„	(287)	θ,	„	49° 39′3	„	49° 32′3.
„	(288)	Horizontal Intensity,	„	1895	„	1896.
„	(290)	Matue Syuttyō in Mean,	„	0.28217	„	0.30468.
„	(291)	Dip in Sea level,	„	10.01	„	−0.01.
„	(294)	269,	„	Hamabata	„	Hamahata.
„	(294)	Hamahata,	„	Horur	„	Hour.
„	(302)	Horizontal Intensity,	„	dg	„	by.
„	(329)	Declination, in Recorder,	„	Hottori	„	Hattori.
„	(331)	Declination in Recorder,	„	Hattorl	„	Hattori.
„	(332)	Declination,	„	Wast	„	West.

1 a TŌKYŌ.

Play ground of Tōkyō Imperial University (東京帝國大學運動場).

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
July 4th 6h 32m	4° 30′ 33″	Nakamura	Nakamura
,, ,, 9 14	,, 24 44	,,	Kimura
,, ,, 15 35	,, 35 21	,,	Midzusima
,, ,, 18 56	,, 32 7	,,	,,
Mean.	4° 31′ 6″		

δ = 4° 31″10
Reduction to 1895.0 = 1.27
,, ,, sea level = 0.00
δ = 4° 32″4

Observations of the West Party, 1893.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
July 4th 5h 48m	4° 33′ 26″	Noda	Noda
,, ,, 6 5	,, 31 42	,,	,,
,, ,, 7 14	,, 34 44	,,	,,
,, ,, 8 15	,, 27 26	,,	,,
,, ,, 11 25	,, 35 45	Turuta	Udziie
,, ,, 14 44	,, 27 51	Iwaoka	,,
,, ,, 18 57	,, 21 45	,,	,,
Mean.	4° 30′ 42″		

δ = 4° 30″70
Reduction to 1895.0 = 1.27
,, ,, sea level = 0.00
δ = 4° 32″0

Observations of the West Party, 1893.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Oct. 10th 18h 40m	4° 24′ 30″	Iwaoka	Turuta
,, ,, 18 55	,, 23 26	,,	Noda
,, ,, 20 1	,, 24 9	,,	,,
,, ,, 20 28	,, 25 54	,,	,,
,, ,, 21 9	,, 24 50	,,	,,
,, ,, 21 31	,, 25 54	,,	,,
,, 11th 0 47	,, 22 14	,,	Iwaoka
,, ,, 1 7	,, 23 35	,,	,,
,, ,, 6 16	,, 24 17	,,	,,
,, ,, 6 42	,, 22 3	,,	,,
,, ,, 7 46	,, 20 23	,,	Turuta
,, ,, 8 15	,, 20 47	Turuta	Iwaoka
,, ,, 8 27	,, 22 30	,,	,,
,, ,, 9 55	,, 23 34	Iwaoka	Turuta
,, ,, 10 15	,, 22 7	Turuta	,,
,, ,, 10 30	,, 22 34	Iwaoka	,,
,, ,, 10 54	,, 24 7	,,	,,
,, ,, 11 46	,, 25 2	Turuta	Iwaoka
,, ,, 11 58	,, 24 50	Iwaoka	Turuta
	To be continued.		

Continued.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Oct. 11th 12h 10m	4° 25′ 11″	Iwaoka	Turuta
,, ,, 13 0	,, 25 2	Turuta	Iwaoka
,, ,, 13 17	,, 26 3	,,	,,
,, ,, 14 13	,, 25 38	,,	Turuta
,, ,, 14 28	,, 24 23	,,	Iwaoka
,, ,, 15 36	,, 24 14	Iwaoka	Turuta
,, ,, 15 50	,, 24 8	,,	,,
,, ,, 16 4	,, 23 59	,,	,,
,, ,, 16 54	,, 24 26	,,	,,
,, ,, 17 6	,, 24 26	,,	,,
,, ,, 17 53	,, 24 13	,,	,,
,, ,, 18 8	,, 24 45	,,	,,
,, ,, 19 58	,, 24 43	,,	,,
,, ,, 20 14	,, 23 48	,,	,,
,, ,, 21 1	,, 24 5	,,	,,
,, ,, 21 39	,, 24 13	,,	Iwaoka
,, ,, 22 53	,, 24 13	,,	,,
,, ,, 22 16	,, 23 23	,,	,,
,, 12th 8 15	,, 19 35	,,	,,
Mean	4° 23′ 14″		

δ = 4° 23′23

Reduction to 1895.0 = 1.04

,, ,, sea level = 0.00

δ = 4° 24′3

Observations of the West Party, 1893.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Oct. 18th 16h 23m	4° 24′ 31″	Iwaoka	Turuta
,, ,, 17 14	,, 24 22	,,	,,
,, ,, 19 40	,, 23 36	,,	,,
,, ,, 21 22	,, 23 40	,,	,,
,, ,, 22 32	,, 22 10	,,	,,
,, ,, 23 14	,, 22 13	,,	,,
,, 19th 6 20	,, 22 6	,,	Iwaoka
,, ,, 6 39	,, 22 5	,,	,,
,, ,, 7 1	,, 22 4	,,	,,
,, ,, 9 3	,, 20 48	,,	Turuta
,, ,, 10 57	,, 20 25	Turuta	,,
,, ,, 11 6	,, 23 10	Iwaoka	,,
,, ,, 11 19	,, 24 31	,,	,,
,, ,, 12 13	,, 25 48	,,	Ōmori
,, ,, 12 36	,, 26 34	,,	,,
,, ,, 14 14	,, 26 5	,,	,,
,, ,, 15 34	,, 23 57	,,	,,
,, ,, 16 36	,, 22 41	,,	Iwaoka
,, ,, 18 0	,, 23 17	Turuta	,,
,, ,, 19 44	,, 23 19	Iwaoka	Turuta
,, ,, 21 13	,, 23 31	,,	,,
,, ,, 22 48	,, 23 15	,,	,,
,, 20th 6 28	,, 21 57	,,	Iwaoka
,, ,, 7 7	,, 21 20	,,	,,
,, ,, 7 47	,, 20 11	,,	,,
,, ,, 8 35	,, 19 27	,,	,,
	To be continued		

Continued.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Oct. 20th 8h 48m	4° 20′ 10″	Iwaoka	Iwaoka
,, ,, 9 15	,, 20 13	,,	,,
,, ,, 9 35	,, 20 11	,,	,,
,, ,, 9 47	,, 19 30	,,	,,
,, ,, 10 18	,, 20 53	,,	,,
,, ,, 10 36	,, 21 24	,,	,,
,, ,, 10 51	,, 22 48	,,	,,
,, ,, 11 15	,, 23 29	,,	,,
,, ,, 11 30	,, 23 8	,,	,,
Mean	4° 22′ 48″		

	δ = 4°	22′80
Reduction to	1895.0 =	1.02
,, ,,	sea level =	0.00
	δ = 4°	23′8

Observations of the North Party, 1894.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
June 26th 8h 39.7m	4° 19′ 12″	..	..
,, ,, 11 1.8	,, 25 17	..	..
,, ,, 14 0.2	,, 27 29	..	..
,, ,, 17 11.4	,, 24 47	..	..
,, ,, 20 15.9	,, 24 44	..	..
,, 27th 5 28.3	,, 22 38	..	..
,, ,, 7 33.2	,, 20 33	..	..
,, ,, 10 16.5	,, 22 50	..	..
,, ,, 19 54.7	,, 25 3	..	..
Mean	4° 23′ 39″		

	δ = 4°	23′65
Reduction to	1895.0 =	0.44
,, ,,	sea level =	0.00
	δ = 4°	24′1

Observations of the south party, 1894.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
June 26th 10h 3.4m	4° 27′ 18″	Nakamura	Imamura
,, ,, 10 24.9	,, 28 17	Imamura	Nakamura
,, ,, 12 15.4	,, 32 36	Nakamura	Imamura
,, ,, 14 8.6	,, 32 39	Imamura	Nakamura
,, ,, 16 33.7	,, 30 52	Nakamura	Imamura
,, ,, 17 2.6	,, 30 21	,,	,,
,, ,, 19 22.4	,, 27 37	Imamura	Nakamura
,, ,, 20 12.8	,, 30 8	Nakamura	Imamura
,, ,, 21 35.4	,, 29 44	,,	Nakamura
,, 27th 5 47.9	,, 27 30	,,	,,
,, ,, 6 52.8	,, 25 35	,,	,,
,, ,, 8 2.9	,, 26 44	,,	,,
,, ,, 9 56.7	,, 28 10	Imamura	,,
,, ,, 12 13.2	,, 32 10	,,	Imamura
,, ,, 13 15.7	,, 34 41	,,	,,
,, ,, 14 34.2	,, 33 14	,,	,,
,, ,, 16 29.7	,, 31 13	Nakamura	Nakamura
,, ,, 17 17.7	,, 31 1	,,	Imamura
Mean	4° 29′ 49″		

	δ = 4°	29′81
Reduction to	1895.0 =	0.44
,, ,,	sea level =	0.00
	δ = 4°	30′2

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 12th 19h 29.6m	4° 28′ 24″	Imamura	Nakamura
,, ,, 21 27.5	,, 28 14	,,	,,
,, 13th 6 26.1	,, 26 26	Nakamnra	,,
,, ,, 8 11.7	,, 25 54	Imamura	Imamura
,, ,, 8 59.2	,, 25 4	Nakamura	Nakamura
,, ,, 10 34.5	,, 26 23	Imamura	Imamura
,, ,, 11 30.7	,, 28 25	Nakamura	Nakamuru
,, ,, 13 51.0	,, 30 6	Imamura	Imamura
,, ,, 15 53.6	,, 27 53	,,	,,
,, ,, 13 18.1	,, 31 8	..	..
,, ,, 13 46.9	,, 30 53	..	..
,, ,, 16 30.4	,, 23 24	..	..
,, ,, 13 41.3	,, 23 31	..	..
Mean	4° 27′ 48″		

	δ = 4°	27′80
Reduction to	1895.0 =	0.18
,, ,,	sea level =	0.00
	δ = 4°	28′0

Observations of the South Party, 1894.

Date and Hour. (Mean Local Time.)	δ	Observer	Recorder
Oct. 20th 8h 45.9m	4° 20′ 57″	Imamura	Imamura
,, ,, 9 4.1	,, 20 35	,,	,,
,, ,, 10 1.5	,, 21 11	..	..
,, ,, 11 15.8	,, 23 10	..	..
,, ,, 12 31.1	,, 25 45	..	..
,, ,, 13 31.8	,, 23 58	..	..
,, ,, 14 45.9	,, 26 8	..	..
,, ,, 15 57.4	,, 24 26	..	..
,, ,, 17 21.0	,, 23 20	Imamura	Imamura
,, ,, 18 24.1	,, 23 25	Nakamura	Nakamura
,, ,, 19 36.5	,, 23 31	..	..
,, ,, 20 46.7	,, 23 27	..	..
,, ,, 21 38.5	,, 22 58	..	..
,, 21st 0 45.3	,, 23 9	..	..
,, ,, 6 16.4	,, 23 59	..	..
,, ,, 7 55.4	,, 21 33	Nakamura	Nakamura
,, ,, 8 55.7	,, 19 48	Imamura	Imamura
,, ,, 10 2.8	,, 19 31	Nakamura	Nakamura
,, ,, 10 50.0	,, 21 28	..	..
,, ,, 11 35.4	,, 23 58	..	..
Mean	4° 23′ 25″		

	δ = 4°	23′41
Reduction to	1895.0 =	0.17
,, ,,	sea level =	0.00
	δ = 4°	23′6

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
June 23rd 10h 35m	4° 25′ 17″	..	..
,, ,, 14 19	,, 29 32	..	..
,, 24th 6 13	,, 18 18	Tanakadate	Katō
,, ,, 7 13	,, 17 28	Sinzyō	,,
,, ,, 14 4	,, 30 24	Tanakadate	Sinzyō
Mean	4° 22′ 31″		

	δ = 4°	22′51
Reduction to	1895.0 =	−0.41
,, ,,	sea level =	0.00
	δ = 4°	22′1

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 17th 10h 16.1m	4° 22′ 11″	Nakamura	Nakamura
,, ,, 10 52.4	,, 22 57	Tamaru	Tamaru
,, ,, 12 13.7	,, 26 22	,,	,,
,, ,, 16 3.9	,, 25 9	Imamura	Imamura
,, ,, 16 18.4	,, 24 44	,,	,,
,, ,, 17 32.4	,, 23 16	,,	,,
,, ,, 18 17.4	,, 22 58	,,	Tamaru
,, ,, 21 22.4	,, 24 14	Tamaru	,,
,, 18th 5 4.6	,, 22 2	,,	,,
,, ,, 5 55.1	,, 20 32	,,	,,
,, ,, 7 55.6	,, 20 22	,,	,,
,, ,, 9 4.8	,, 22 8	,,	,,
,, ,, 10 10.7	,, 23 44	Nakamura	Nakamura
,, ,, 11 28.1	,, 25 14	Tamaru	Tamaru
,, ,, 12 4.6	,, 26 12	,,	Imamura
,, ,, 13 25.9	,, 27 5	Imamura	,,
,, ,, 14 26.4	,, 26 29	Nakamura	Tamaru
,, ,, 15 13.4	,, 25 49	Tamaru	Imamura
,, ,, 16 12.4	,, 24 42	Imamura	,,
,, ,, 17 24.9	,, 23 47	,,	,,
,, ,, 18 25.7	,, 23 27	Nakamura	Nakamura
,, ,, 19 48.8	,, 23 41	,,	,,
Mean	4° 23′ 43″		

	δ = 4°	23′71
Reduction to	1895.0 =	−0.46
,, ,,	sea level =	0.00
	δ = 4°	23.2

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 6th 11h 16m	4° 25′ 30″	Sinzyō	Hattori
,, ,, 12 0	,, 25° 43	,,	,,
,, ,, 13 3	,, 25 9	,,	,,
,, ,, 14 1	,, 22 5	Hattori	Sinzyō
,, ,, 16 20	,, 22 18	Sinzyō	Hattori
,, ,, 18 3	,, 21 10	,,	,,
,, ,, 18 57	,, 21 58	,,	,,
,, ,, 20 31	,, 22 0	,,	,,
,, ,, 22 30	,, 21 53	,,	Sinzyō
,, ,, 23 17	,, 21 38	Hattori	,,
,, 7th 4 4	,, 20 4	Sinzyō	Hattori
,, ,, 6 20	,, 19 28	Hattori	Sinzyō
,, ,, 6 48	,, 19 1	,,	,,
,, ,, 9 2	,, 22 13	Sinzyō	Hattori
,, ,, 11 11	,, 26 55	,,	Imamura
Mean	4° 22′ 25″		

	δ = 4°	22′41
Reduction to	1895.0 =	−1.43
,, ,,	sea level =	0.00
	δ = 4°	21′0

DIP (θ)

Observations of the East Party, 1893,

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 4th 10h 56.0m	1	48° 52′4	Ōmori	Midzusima
Mean		48° 52′4		

$\theta = 48°\ 52'4$
Reduction to 1895.0 = 1.35
„ „ sea level = 0.00
$\theta = 48°\ 53'8$

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 1st 15h 39m	2	49° 1′4	Iwaoka	Uziie
„ 3rd 18 58	1	48 57.0	Noda	Turuta
„ 4th 11 4	2	49 5.8	Turuta	„
„ „ 16 12	3	„ 2.7	„	Iwaoka
Mean		49° 1′7		

$\theta = 49°\ 1'7$
Reduction to 1895.0 = 1.35
„ „ sea level = 0.00
$\theta = 49°\ 3'1$

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recoder
Oct. 11th 9h 20m	3	49° 2′8	Turuta	Turuta
„ „ 12 38	3	48 59.5	Iwaoka	„
„ „ 18 53	—	49 2.6	Turuta	Iwaoka
„ 18th 21 59	—	„ 11.5	„	„
„ 19th 10 47	—	48 59.2	„	Turuta
„ „ 17 38	—	„ 58.3	Iwaoka	„
„ „ 22 9	—	„ 59.6	Turuta	Iwaoka
Mean		49° 1′0		

$\theta = 49°\ 1'9$
Reduction to 1895.0 = 1.08
„ „ sea level = 0.00
$\theta = 49°\ 3'0$

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
June 26th 22h 33m	1	49° 1′4	Tanakadate	Tanakadate
„ 27 9 23	2	„ 4.2	„	„
		49° 2.8		

$\theta = 49°\ 2'8$
Reduction to 1895.0 = 0.46
„ „ sea level = 0.00
49° 3′3

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
June 26th 15h 39.8m	2	49° 3′9	Imamura	Imamura
„ 27th 9 14.5	1	„ 13.1	Nakamura	Nakamura
„ „ 10 27.5	1	„ 8.7	Imamura	Imamura
„ „ 17 5.2	1	„ 12 7	Nakamura	„
Mean		49° 9′6		

$\theta = 49°\ 9'6$
Reduction to 1895.0 = 0.47
„ „ sea level = 0.00
49° 10′1

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Oct. 13th 10h 40.8m	2	49° 7′5	Imamura	Imamura
„ 20th 12 11.4	2	„ 7.6	„	„
„ „ 19 11.4	2	„ 14.6	Nakamura	Nakamura
„ 21st 10 33.2	2	„ 13.5	„	„
„ 22nd 9 0.7	2	„ 10.4	Imamura	Imamura
„ „ 13 57.2	2	„ 13.0	Nakamura	Nakamura
Mean		49° 11′1		

	θ = 49°	11′1
Reduction to	1895.0 =	0.18
„ „	sea level =	0.00
	49°	11′3

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
June 23rd 15h 42m	1	49° 19′7	Sinzyō	Katō
„ „ 18 36	1	48° 55.6	Tanakadate	„
„ 24th 10 39	2	49 2.2	Katō	„
„ „ 11 57	2	48 59.7	..	„
Mean		49° 4′3		

	θ = 49°	4′3
Reduction to	1895.0 =	−0.43
„ „	sea level =	0.00
	θ = 49°	3′9

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
June 23rd	1	49° 5′3	Imamura	Tamaru

	θ = 49°	5′3
Reduction to	1895.0 =	−0.43
„ „	sea level =	0.00
	θ = 49°	4′9

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 17th 21h 45m	1	49° 2′5	Tamaru	Tamaru
„ „ 17 11	1	„ 4.5	Imamura	Imamura
„ 18th 11 1	1	„ 0.6	Nakamura	Nakamura
Mean		49° 2.5		

	θ = 49°	2′5
Reduction to	1895.0 =	−0.49
„ „	sea level =	0.00
	θ = 49°	2′0

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Nov. 6th 15h 47m	2	49° 3′0	Sano	Sano Sutō
„ 7th 9 42	2	„ 2.5	Sutō	Sutō
„ „ 16 54	2	„ 0.5	Sano	Sano
Mean		49° 2′0		

	θ = 49°	2′0
Reduction to	1895.0 =	−1.66
„ „	sea level =	0.00
	θ = 49°	0′3

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
July 3rd 9h 53.6m	0.29613	498.30	31°6C	5.4180	32°4C	7°17′17″5	16°32′57″5	30°7 C	Ōmori	Tanakadate
									Midzusima	Ōmori
„ 4th 14 17.0	0.29810	477.93	32.0	5.5183	32.6	7 1 39.4	15 44 29.4	31.5	Nakamura	Midzusima
„ „ 19 43.4	0.29654	475.55	26.3	5.5244	26.0	6 59 7.5	15 54 40.6	26.0	Midzusima	Ōmori
„ „ 23 8.4	*0.29687	479.55	24.7	5.5235	24.7	(6 1 3.8	15 58 26.9	22.8)	Nakamura	Kimura
Mean	0.29691									

H = 0.29691
Reduction to 1895.0 = 670
„ „ sea level = 38
H = 0.29698

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
July 2nd 23h 46m	0.29637	487.58	24°5C	5.5286	24°5 C	7° 4′ 0″0	16° 7′16″2	24°6 C	Iwaoka	Uziie
„ 3rd 9 55	*0.29693	482.64	32.7	5.5496	32.7	(6 56 49.0	16 2 19.0	30.9)	„	„
									Turuta	
„ „ 15 16	0.29723	481.95	34.0	5.5501	35.4	6 59 18.8	15 59 5.0	32.7	Iwaoka	Turuta
„ 4th 14 21	0.29663	470.73	33.0	5.6224	34.6	6 49 32.0	15 34 55.0	31.4	Turuta	Iwaoka
									Iwaoka	Turuta
„ „ 19 59	0.29822	472.61	25.6	5.5090	25.7	6 49 46.2	15 36 27.5	25.5	„	„
„ 5th 0 47	*0.29788	473.00	23.8	5.5761	23.8	(6 50 25.0	15 37 41.3	24.1)	„	„
Mean	0.29721									

H = 0.29721
Reduction to 1895.0 = 670
„ „ sea level = 38
H = 0.29728

Observations of the West Party, 1893

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Oct. 19th 8h 9m	0.29750	451.90	21°4C	5.7322	21°4C	6°33′ 3″5	14°57′56″0	21.3	Iwaoka	Iwaoka
„ „ 13 50	0.29743	448.86	30.5	5.7531	30.7	6 30 3.8	14 50 32.5	30.3	„	Ōmori
„ „ 16 12	0.29748	449.60	28.3	5.7493	29.3	6 31 3.1	14 53 1.9	27.4	„	„
„ „ 19 13	0.29727	451.95	21.6	5.7345	21.8	6 33 11.3	14 57 48.1	21.3	Turuta	Iwaoka
									Iwaoka	Turuta
Mean	0.29742									

H = 0.29742
Reduction to 1895.0 = 539
„ „ sea level = 38
H = 0.29748

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp t_D	Observer	Recorder
				s						
June. 26th 16h 17.0m	0.29704	457.98	30°9C	5.6515	31°0C	6°39′31″0	15°7′ 2″5	30°8 C	Tanakadate	Tanakadate
„ 27 0 34.8	*0.29731	459.25	23.8	5.6406	23.8	—	—	—	„	„
„ 28 7 42.0	0.29689	458.89	26.0	5.6449	25.5	5 4 34.0	15 9 43.8	26.5	„	„
Mean	0.29708									

H = 0.29708
Reduction to 1895.0 = 231
„ „ sea level = 38
H = 0.29711

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
June 26th 11h 53m	0.29749	442.00	33°7C	5.7974	34°1C	6°23′42″5	14°35′19″4	33°3C	Nakamura	Imamura
„ „ 18 52	0.29789	444.03	26.2	5.7796	26.6	6 25 32.5	14 40 17.5	25.9	Imamura	Nakamura
„ 27th 8 23	0.29785	443.31	25.8	5.7844	26.1	6 24 49.0	14 38 24.0	25.6	„	„
Mean	0.29774									

	H =	0.29774
Reduction to	1895.0 =	232
„ „	sea level =	38
	H =	0.29777

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Oct. 15th 17h 39m	0.29724	440.29	20°5C	5.8089	20°4C	6°22′40″0	14°32′51″9	20°6C	Katō / Imamura	Imamura / Katō
„ 18th 9 55	0.28703	440.04	21.0	5.8124	20.7	6 22 36.9	14 32 41.2	21.3	„	Nakamura
„ „ 10 44	0.29702	440.11	21.9	5.8124	21.7	6 22 40.6	14 32 46.9	22.1	Nakamura	Imamura
„ „ 11 29	0.29692	439.77	22 5	5.8155	22.4	6 22 23.1	14 31 55.0	22.7	Imamura	Nakamura
„ „ 12 6	0.29700	439.57	22.5	5.8161	22.4	6 22 13.8	14 31 45.6	22.6	Nakamura	Imamura
„ „ 14 22	0.26746	438.97	24.2	5.8189	25.7	6 21 39.4	14 30 40.6	22.8	Imamura	Nakamura
„ „ 14 51	0.29725	439.69	22.2	5.8137	22.6	6 22 10.6	14 31 41.9	21.8	Nakamura	Imamura
„ „ 16 0	0.29740	440.73	19.7	5.8048	19.8	6 22 51.2	14 33 12.5	19·6	Imamura	Nakamura
„ „ 16 53	0.29705	440.94	18.5	5.8065	18.4	6 23 20.6	14 34 8.1	18.5	Nakamura	Imamura
„ „ 19 9	0.29687	441.51	16.7	5.8047	16.8	6 24 14.4	14 36 18.1	16.7	Imamura	Nakamura
„ „ 20 3	0.29687	440.82	17.5	5.8091	17.5	6 23 43.8	14 35 21.9	17.4	Nakamura	Imamura
„ 19th 2 37	0.29712	442.60	14.0	5.7949	14.1	6 24 47.5	14 37 23.1	13.9	Imamura	Nakamura
„ „ 3 18	0.29739	442.03	14.2	5.7963	14.4	6 24 26.9	14 37 23.1	14.0	Nakamura	Imamura
„ „ 4 10	0.29728	442.02	14.2	5.7965	14.0	6 24 23.8	14 37 8.1	14.4	Imamura	Nakamura
„ „ 5 45	0.29721	442.17	14.4	5.7969	14.5	6 24 34.4	14 37 20.0	14.3	Nakamura	Imamura
„ „ 7 7	0.29721	441.96	14.6	5.7972	14.2	6 24 16.9	14 36 45.0	15.0	Imamura	Nakamura
Mean	0.29715									

	H =	0.29715
Reduction to	1895.0 =	092
„ „	sea level =	38
	H =	0.29716

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean. Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
June 23rd 10m 57.0	0.29732	435.81	23°2C	5.7881	22°8C	6°19′35″0	14°20′43″8	23°6C	..	..

	H =	0.29732
Reduction to	1895.0 =	−212
„ „	sea level =	38
	H =	0.29730

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
June 23rd 5h 1.7s	0.29779	436.53	21°1 C	5.8284s	21°0 C	6°19′5″6	14°25′13″1	21°2 C	..	..

H = 0.29779
Reduction to 1895.0 = −212
„ „ sea level = 38
H = 0.29777

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 17th 18h 55m	0.29776	434.55	23°4 C	5.8427s	23°6 C	6°17′15″0	14°20′40″6	23°3 C	Tamaru	Imamura
„ 18th 14 54	0.29787	432.88	28.0	5.8532	28.2	6 15 46.3	14 17 36.9	27.8	Imamura	„
„ „ 20 55	0.29766	433.70	25.4	5.8491	25.4	6 16 35.0	14 19 12.5	25.4	Tamaru	Nakamura
Mean	0.29776									

H = 0.29776
Reduction to 1895.0 = −243
„ „ sea level = 38
H = 0.29774

Observations of the Seto sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Nov. 6th 13h 26.4m	0.29851	405.21	18°3 C	6.0611s	19°2 C	5°53′33″8	13°20′46″2	17°5 C	Sano	Sutō
									Sutō	Sano
„ 7th 9 0.8	0.29814	408.08	9.8	6.0409	9.1	5 56 13.8	13 26 31.2	9.6	Sano	Sutō
									Sutō	Sano
„ „ 18 57.9	0.29838	407.47	9.9	6.0436	10.2	5 55 43.1	13 25 45.6	9.7	Sano	Sutō
									Sutō	Sano
Mean	0.29834									

H = 0.29834
Reduction to 1895.0 = −829
„ „ sea level = 38
H = 0.29826

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 6th 13h 43m	0.29850	416.94	35°1 C	5.9596s	35°7 C	6° 1′ 1″3	13°43′ 8″8	34.5 C	Sinzyō	Hattori
„ „ 15 25	0.29816	417.26	34.0	5.9601	34.5	6 1 32.5	13 44 8.8	33.6	Hattori	Sinzyō
„ „ 16 1	0.29836	417.59	33.8	5.9564	34.4	6 1 38.8	13 44 22.5	33.2	Sinzyō	Hattori
„ „ 13 44	0.29804	417.88	31.9	5.9544	31.6	6 2 1.3	13 45 21.3	32.3	„	„
„ „ 17 31	0.29780	418.43	30.0	5.9551	30.5	6 3 8.8	13 47 56.3	29.6	Hottori	Sinzyō
„ „ 19 14	0.29816	419.61	27.8	5.9412	27.7	6 3 28.8	13 48 41.3	28.0	„	„
„ „ 20 6	0.29819	419.88	27.5	5.9400	27.7	6 3 45.0	13 49 10.0	27.3	Sinzyō	Hattori
„ „ 23 11	0.29839	419.80	26.7	5.9385	26.9	6 3 42.5	13 49 30.0	26.6	„	„
„ „ 23 50	0.29816	420.08	26.6	5.9387	26.7	6 4 0.0	13 49 50.0	26.5	Hattori	Sinzyō
„ 7th 4 42	0.29805	419.84	26.8	5.9412	26.8	6 3 55.0	13 49 42.5	26.8	„	„
„ „ 5 54	0.29817	419.97	26.6	5.9393	26.8	6 3 57.5	13 49 50.0	26.5	Sinzyō	Hattori
„ „ 6 31	0.29806	419.87	27.2	5.9393	26.8	6 3 48.8	13 49 33.8	27.6	„	„
„ „ 7 37	0.29814	419.54	28.5	5.9429	28.6	6 3 38.8	13 49 13.8	28 4	„	„
„ „ 8 13	0.29793	418.83	30.5	5.9459	29.3	6 2 36.3	3 46 38.8	31.7	Hatori	Sinzyō
„ „ 8 20	0.29803	418.69	30.5	5.9459	29.3	6 2 30.0	13 46 38.8	31.7	„	„
Mean	0.29814									

H = 0.29814
Reduction to 1895.0 = −754
„ „ sea level = 38
H = 0.29807

1b TŌKYO.

Central Meteorological Observatory (中央氣象臺).

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
June 28th 22h 5m	4° 30′ 14″	Sinzyō	Hattori
„ „ 23 13	„ 30 50	Hattori	Sinzyō
„ 29th 1 10	„ 30 17	Sinzyō	Hattori
„ „ 3 14	„ 29 50	Hattori	Sinzyō
„ 30th 10 2	„ 25 21	Sinzyō	Hattori
„ „ 11 43	„ 29 4	„	Sinzyō
„ „ 12 59	„ 32 26	„	„
„ „ 13 48	„ 32 50	Imamura	Imamura
„ „ 15 18	„ 32 27	Sinzyō	Sinzyō
„ „ 16 42	„ 31 1	Imamura	„
„ „ 17 46	„ 30 12	Sinzyō	Imamura
„ „ 19 2	„ 28 35	Imamura	Sinzyō
„ „ 20 11	„ 28 55	„	Imamura
„ „ 21 22	„ 29 37	„	„
„ „ 23 49	„ 29 19	„	„
July 1st 4 6	„ 28 2	„	„
„ „ 6 2	„ 26 30	„	„
„ „ 7 22	„ 26 25	„	„
„ „ 8 8	„ 25 45	„	„
„ „ 9 7	„ 25 57	„	Sinzyō
„ „ 10 7	„ 26 40	„	„
Mean.	4° 28′ 52″		

$\delta = 4° 28'.87$

Reduction to 1895.0 = −1.27

„ „ sea level = 0.00

$\delta = 4° 27'.6$

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
June 30th 11h 17m	1	49° 1′.9	Sinzyō	Sinzyō
„ „ 17 38	1	„ 4.0	Imamura	„
July 1st 8 53	1	48 58.3	„	„
		49° 1′.4		

$\theta = 49° 1'.4$

Reduction to 1895.0 = −1.35

„ „ sea level = 0.00

$\theta = 49° 0'.0$

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections. φ_1	Mean Deflections. φ_2	Temp. t_D	Observer	Recorder
June 30th 14h 52m	0.29844	425.35	24°3C	5.8995 s	24°8C	6° 8′32″.5	14° 0′33″.1	23°9C	Sinzyō / Imamura	Imamura / Sinzyō
„ „ 18 39	0.29791	426.61	22.1	5.8951	22.2	6 9 47.5	14 2 48.1	22.0	„ / Sinzyō	„ / Imamura
July 1st 9 41	0.29831	423.40	31.2	5.9111	30.4	6 6 3.8	13 54 15.6	31.9	„ / Imamura	„ / Sinzyō
	0.29822									

$H = 0.29822$

Reduction to 1895.0 = −671

„ „ sea level = 25

$H = 0.29816$

2. HATIŌZI.

Hongō Kawara (本郷河原).

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)				Declination.			Observer	Recorder
July	5th	23h	21m	4°	36′	15″	Nakamura	Ōmori
,,	6th	5	42	,,	33	57	,,	,,
,,	,,	7	28	,,	32	7	,,	,,
,,	,,	8	33	,,	31	51	,,	,,
,,	,,	9	24	,,	32	24	Kimura	Midzusima
,,	,,	10	37	,,	32	16	Midzusima	Kimura
,,	,,	11	46	,,	33	19	Kimura	Midzusima
,,	,,	13	21	,,	34	28	Midzusima	Kimura
,,	,,	14	45	,,	35	9	Nakamura	Ōmori
,,	,,	16	14	,,	34	32	Ōmori	Nakamura
,,	,,	17	15	,,	33	34	,,	,,
,,	7h	0	15	,,	35	12	Midzusima	Midzusima
Mean				4°	34′	1″		

$\delta = 4°\ 34'02$

Reduction to 1895.0 = 1.33

,, ,, sea level = −0.01

$\delta = 4°\ 35'3$

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)				δ			Observer	Recorder
June	25th	17h	27.6m	4°	33′	12″	Nakamura	Imamura
,,	,,	18	4.1	,,	33	0	Tamaru	,,
,,	,,	19	25.8	,,	32	43	Imamura	,,
,,	,,	20	45.0	,,	33	8	,,	Nakamura
,,	,,	21	46.0	,,	33	16	Nakamura	Tamaru
,,	,,	22	21.5	,,	33	38	Imamura	Imamura
,,	26th	3	52.4	,,	32	18	,,	,,
,,	,,	5	26.3	,,	30	22	,,	,,
,,	,,	6	53.0	,,	28	59	,,	,,
,,	,,	7	55.2	,,	28	57	Nakamura	Nakamura
,,	,,	9	4.6	,,	29	35	Tamaru	Tamaru
,,	,,	10	57.6	,,	34	35	Nakamura	Nakamura
,,	,,	11	48.1	,,	36	15	,,	,,
,,	,,	12	49.3	,,	38	26	,,	,,
,,	,,	13	56.4	,,	38	38	Tamaru	Tamaru
,,	,,	14	58.3	,,	37	3	,,	,,
,,	,,	15	52.1	,,	37	26	Nakamura	,,
,,	,,	16	38.2	,,	33	50	,,	,,
Mean				4°	34′	3″		

$\delta = 4°\ 34'05$

Reduction to 1895.0 = −0.43

,, ,, sea level = 0.01

$\delta = 4°\ 33'6$

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)				Needle No.	Dip.		Observer	Recorder
July	6th	6h	56.6m	1	49°	1′9	Ōmori	Nakamura
,,	,,	10	11.6	1	,,	5.2	Midzusima	Kimura
,,	,,	2	16.9	1	,,	1.5	,,	,,
,,	,,	5	28.5	1	48	59.6	Nakamura	Ōmori
Mean					49°	2′1		

$\theta = 49°\ 2'1$

Reduction to 1895.0 = 1.19

,, ,, sea level = −0.01

$\theta = 49°\ 3'3$

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
June 25th 20h 23m	1	48° 59′0	Imamura	Imamura
„ 26th 7 26	—	49 6.2	„	„ Nakamura
„ „ 10 25	1	49 0.4	Tamaru	Tamaru
„ „ 16 17	1	49 2.1	Nakamura	„
Mean		49° 1′9		

$\theta = 49°\ 1'9$

Reduction to 1895.0 = −0.39

„ „ sea level = −0.01

$\theta = 49°\ 1'5$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M*)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 6th 1h 27m	*0.29729	479.91	22°7C	s 5.5174	22°8C	(7° 0′12″5	16° 5′ 0″0	22°7C)	Ōmori	Nakamura
„ „ 8 17	0.29752	479.51	23.3	5.5176	23.2	6 58 50.6	15 50 7.5	23.3	Nakamura	Ōmori
„ „ 11 23	0.29660	478.10	29.3	5.5351	29.5	6 59 50.0	15 54 2.5	29.1	Midzusima	Kimura
„ „ 15 35	0.29773	476.28	29.0	5.5349	29.2	6 56 56.3	15 47 46.3	28.7	Nakamura	„
Mean	0.29727									

$H = 0.29727$

Reduction to 1895.0 = 678

„ „ sea level = 140

$H = 0.29735$

Observations of the East Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
June 25th 18h 48m	0.29786	437.12	20°5C	s 5.8240	20°5C	6°19′26″9	14°25′54″4	20.5C	Nakamura	Tamaru
„ „ 21 24	0.29794	436.99	20.1	5.8249	20.5	6 19 27.5	14 26 4.4	19.8	Imamura	Nakamura
„ 26th 8 37	0.29786	437.19	19.8	5.8238	20.0	6 19 36.2	14 26 16.9	19.7	Tamaru	„
„ „ 15 33	0.29824	436.33	21.1	5.8260	21.4	6 18 32.5	14 24 5.0	20.8	Nakamura	Tamaru
Mean	0.29798									

$H = 0.29798$

Reduction to 1895.0 = −219

„ „ sea level = 140

$H = 0.29797$

3. SARUHASI.

North bank, 110m. down the bridge. (猿橋ノ下流一町許ノ北岸畠中)

DECINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Declination	Observer	Recorder
July 8th 11h 57m	5° 14′ 22″	Kimura	Ōmori
„ „ 12 59	„ 15 55	Ōmori	Midzusima
„ „ 14 5	„ 7 51	Kimura	Nakamura
„ „ 15 25	„ 7 44	„	„
„ „ 17 2	„ 6 17	„	„
„ „ 17 18	„ 5 51	Nakamura	Kimura
„ „ 18 25	„ 4 13	„	„
„ „ 18 47	„ 4 19	„	„
„ „ 20 52	„ 4 5	Midzusima	Ōmori
„ 9th 5 8	„ 2 25	„	„
„ „ 5 58	„ 2 22	„	Midzusima
„ „ 7 7	„ 0 30	„	„
„ „ 8 45	„ 0 21	Nakamura	Kimura
„ „ 10 12	„ 2 2	Kimura	Nakamura
Mean	5° 4′ 2″		

$\delta = 5°\ 4'03$

Reduction to 1895.0 = 1.40

„ „ sea level = −0.02

$\delta = 5°\ 5'4$

DIP (θ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	Dip.	Observer	Recorder
July 8th 15h 3.8m	1	49° 46′5	Kimura	Nakamura
„ „ 23 44.8	1	„ 46.1	Ōmore	„
„ 9th 6 36.2	1	„ 44.9	Midzusima	Midzusima
Mean		49° 45′8		

	θ =	49° 45′8
Reduction to	1895.0 =	0.45
„ „	sea level =	−0.03
	θ =	40.2

HORIZONTAL INTENSITY (H)
(* *Value deduced from Vibration only by assuming Value of M.*)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
July 8th 12h 43m	0.29195	478.65	25°6C	5.5752	25°7C	7°6′ 9″4	16° 7′12″5	25°6C	Midzusima	Ōmori
„ „ 16 36	*0.29156	478.58	24.7	5.5763	24.7	—	—	—	Kimura	Nakamura
„ „ 20 26	0.29226	479.30	22.3	5.5684	22.4	7 8 31.9	16 16 6.9	22.2	Nakamura	Kimura
„ 9th 8 27	0.29232	477.78	26.3	5.5774	26.6	7 5 27.5	16 6 32.5	26.1	„	„
Mean	0.29202									

	H =	0.29202
Reduction to	1895.0 =	924
„ „	sea level =	394
	H =	0.29215

4. KŌHU

In old castle (舊城內)

DECLINATION (δ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Declination	Observer	Recorder
July 10th 15h 59m	4° 55′ 7″	Midzusima	Kimura
„ „ 17 50	„ 52 48	„	„
„ „ 18 48	„ 52 2	Kimura	Midzusima
„ 11th 1 0	„ 51 25	Ōmori	Nakamura
„ „ 5 .6	„ 50 3	„	„
„ „ 7 14	„ 45 10	Nakamura	Ōmori
„ „ 7 33	„ 47 23	Ōmori	Nakamura
„ „ 8 57	„ 46 53	Kimura	Kimura
„ „ 9 28	„ 48 7	„	Midzusima
„ „ 10 44	„ 51 27	Midzusima	Kimura
„ „ 11 1	„ 51 57	„	„
„ „ 12 0	„ 55 19	Kimura	Midzusima
„ „ 13 18	„ 58 27	Midzusima	Kimura
„ „ 13 47	„ 58 53	„	„
„ „ 14 22	„ 58 46	Nakamura	Nakamura
„ „ 15 2	„ 57 35	„	Ōmori
„ „ 15 51	„ 56 30	Ōmori	Nakamura
„ 12th 7 16	„ 50 42	Midzusima	„
„ „ 8 50	„ 52 57	Kimura	Ōmori
„ „ 10 21	„ 55 3	Ōmori	Kimura
„ „ 11 43	„ 58 24	Kimura	Ōmori
„ „ 12 40	„ 58 47	Ōmori	Kimura
„ „ 13 50	„ 59 50	Kimura	Nakamura
„ „ 14 42	„ 59 45	Nakamura	Kimura
„ „ 15 26	„ 58 51	Midzusima	Nakamura
	To be continued		

Continued

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 12th 16h 12m	4° 58′ 12″	Nakamura	Midzusima
,, ,, 16 55	,, 57 10	Midzusima	Nakamura
,, ,, 18 9	,, 56 46	Nakamura	Midzusima
,, ,, 18 47	,, 56 40	Midzusima	Nakamura
,, ,, 21 8	,, 56 34	Kimura	Ōmori
Mean	4° 51′ 53″		

δ = 4° 51′88
Reduction to 1895.0 = 1.55
,, ,, sea level = −0.02
δ = 4° 53′4

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 10th 18h 25.3m	1	50° 11′8	Midzusima	Kimura
,, 11th 8 23.5	1	,, 12.9	Ōmori	Nakamura
,, 12th 1 26.9	1	,, 12.1	Nakamura	Midzusima
,, ,, 3 50.3	1	,, 15.6	Midzusima	Nakamura
Mean		50° 13′1		

θ = 50° 13′1
Reduction to 1895.0 = 0.30
,, ,, sea level = 0.02
θ = 50° 13′4

HORIZONTAL INTENSITY (*H*)

(* *Value deduced from Vibration only by assuming Value of M*)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
July 11th 6h 59m	0.28°60	477.39	25°9C	5.6150	25°8C	7° 9′ 30″6	16°14′23″1	26°0C	Nakamura	Ōmori
,, 12th 7 59	0.28858	475.74	28.0	5.6250	28.3	7 8 58.8	16 14 34.4	27.8	Midzusima	Nakamura
,, ,, 9 45	0.28939	473.96	31.6	5 6288	32.2	7 6 43.9	16 10 12.1	31.0	Kimura	Ōmori
,, ,, 11 24	*0.28879	473.50	35.0	5.6361	35.0	(7 11 58.8	16 15 32.5	32.9)	Ōmori	Kimura
,, ,, 12 18	*0.28912	472.59	36.4	5.6380	37.5	(7 3 10.9	16 13 15.0	35.3)	Kimura	Ōmori
,, ,, 13 34	0.28900	473.41	35.3	5.6355	35.9	7 6 16.2	16 8 21.7	34.7	Ōmori	Kimura
,, ,, 14 29	*0.28867	473.39	35.3	5.6760	37.8	(7 6 5.0	16 7 11.2	35.3)	Nakamura	,,
,, ,, 15 12	0.28901	472.65	36.7	5.6404	37.5	7 5 41.9	16 7 10.6	36.0	Midzusima	Nakamura
,, ,, 16 0	*0.28900	473.15	36.0	5.6356	36.0	(7 1 48.1	16 9 38.1	34.2)	Nakamura	Midzusima
,, ,, 16 41	0.28898	474.68	32.3	5.6274	32.6	7 7 19.4	16 10 38.1	32.0	Midzusima	Nakamura
,, ,, 17 58	*0.28866	474.81	31.3	5.6282	31.3	(7 9 11.2	16 12 11.2	30.5)	Nakamura	Midzusima
,, ,, 18 35	0.28822	475.93	30.3	5.6277	30.6	7 8 54.4	16 13 8.8	29.9	Midzusima	Nakamura
,, ,, 20 39	0.28893	475.94	27.3	5.6198	27.1	7 9 23.8	16 16 53.4	27.4	Kimura	Ōmori
,, 13th 0 23	0.28902	476.45	25.0	5.6172	25.6	7 8 21.2	16 11 48.7	24.5	Midzusima	Nakamura
,, ,, 2 49	0.28875	477.53	23.6	5.6126	23.6	7 7 1.2	16 16 12.5	23.5	Nakamura	Midzusima
Mean	0.28885									

H = 0.28885
Reduction to 1895.0 = 1103
,, ,, sea level = 330
H = 0.28899

5. UMINOKUTI.

Osidori Hot Spring (鴛鴦温泉)

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 14th 18h 36m	4° 15′ 0″	Nakamura	Kimura
„ „ 19 32	„ 14 58	„	„
„ „ 20 44	„ 15 11	„	„
Mean	4° 15′ 3″		

δ = 4°15′05

Reduction to 1895.0 = 1.67

„ „ sea level = −0.08

δ = 4°16′6

DIP (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	δ	Observer	Recorder
July 14th 17h 42.6m	1	49° 17′6	Midzusima Ōmori	Ōmori Kimura
„ „ 20 14.8	1	„ 14.3		
Mean		49° 16′0		

θ = 49° 16′0

Reduction to 1895.0 = 0.29

„ „ sea level = −0.09

θ = 49° 16′2

HORIZONTAL INTENSITY (*H*)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflection φ_1	Mean Deflection φ_2	Temp. t_D	Observer	Recorder
July 14th 18h 18m	*0.29815	475.98	23°6C	5.5324s	23°6C	(6°59′45″6	15°49′22″5	22.7C)	Nakamura	Kimura
„ „ 21 9	0.29801	476.51	22.0	5.5311	22.5	6 57 12.5	15 48 45.0	21.5	Ōmori	„
Mean	0.29808									

H = 0.29808

Reduction to 1895.0 = 1139

„ „ sea level = 1370

H = 0.29833

6. USUTA

In mulberry field, near to Jinjya (神社近傍ナル桑畑ノ中)

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 15th 20h 48m	4° 38′ 30″	Midzusima	Kimura
„ 16th 1 23	„ 38 7	„	Midzusima
„ „ 4 5	„ 37 28	„	„
„ „ 7 13	„ 34 7	„	„
„ „ 8 55	„ 32 8	Kimura	Nakamura
„ „ 10 46	„ 39 39	„	„
„ „ 11 34	„ 42 15	Nakamura	Kimura
„ „ 13 5	„ 46 28	Kimura	„
Mean	4° 38′ 56″		

δ = 4°38′93

Reduction to 1895.0 = 1.78

„ „ sea level = −0.05

δ = 4°40′7

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 15th 22h 10?2m	1	49° 49?3	Ōmori	Nakamura
„ 16th 8 24.8	1	„ 46.1	Nakamura	Kimura
Mean		49° 47?7		

	θ = 49°	47?7
Reduction to	1895.0 =	−0.15
„	„ sea level =	0.06
	θ = 49°	47?5

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M*)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 16th 3h 12m	0.29954	477.77	21?5C	5.5094 s	21?9C	6°55′10″6	15°42′31″9	21?2C	Midzusima	Midzusima
„ „ 10 28	0.29905	474.19	32.4	5.5343	32.5	6 52 29.3	15 36 25.6	32.3	Kimura	Nakamura
„ „ 11 19	*0.29912	473.60	34.2	5.5175	35.5	(6 51 54.3	15 35 11.9	34.2	Nakamura	Kimura
Mean	0.29924									

	H =	0.29924
Reduction to	1895.0 =	1168
„	„ sea level =	955
	H =	0.29945

7. KOMORO.

Sakanoue No. 3018 (坂ノ上三千〇十八番地)

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 17th 2h 54m	4° 46′ 32″	Nakamura	Nakamura
„ „ 7 37	„ 40 11	„	Kimura
„ „ 8 30	„ 40 13	„	„
„ „ 9 39	„ 42 8	Midzusima	Ōmori
„ „ 10 54	„ 46 51	Ōmori	Midzusima
„ „ 11 46	„ 48 29	Midzusima	Ōmori
„ „ 12 43	„ 51 41	Ōmori	Midzusima
„ „ 13 45	„ 52 55	Midzusima	Ōmori
„ „ 14 36	„ 52 29	Kimura	Nakamura
„ „ 15 59	„ 50 54	„	„
„ „ 16 39	„ 49 53	Nakamura	Kimura
„ „ 17 22	„ 47 38	„	„
„ „ 18 34	„ 44 41	Kimura	Nakamura
„ „ 19 31	„ 45 16	„	„
„ „ 21 4	„ 46 22	„	Kimura
„ „ 21 59	„ 45 59	Midzusima	Ōmori
„ 18th 1 5	„ 46 13	„	Nakamura
„ „ 2 59	„ 45 50	Nakamura	Midzusima
Mean	4° 46′ 0″		

	δ = 4°	46?00
Reduction to	1895.0 =	1.84
„	„ sea level =	−0.04
	δ = 4°	47?8

DIP (θ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 16th 21h 23.2m	2	50° 0′.1	Midzusima	Midzusima
,, 17th 0 13.9	1	49 44.6	Nakamura	Kimura
,, ,, 9 23.6	1	50 0	Ōmori	Ōmori
,, ,, 13 8.0	1	,, 0.5	Midzusima	,,
,, ,, 17 7.9	1	49 47.1	Nakamura	Kimura
,, ,, 18 1.8	1	,, 50.6	Kimura	Nakamura
,, ,, 18 58.0	1	50 3.9	Nakamura	Kimura
,, 18th 2 16.7	1	49 59.5	Midzusima	Nakamura
,, ,, 2 13.5	1	,, 52.7	Nakamura	Midzusima
Mean		49° 55′.4		

$\theta = 49°\ 55'.4$
Reduction to 1895.0 = −0.58
,, ,, sea level = −0.04
$\theta = 49°\ 54'.8$

HORIZONTAL INTENSITY (H)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 17th 8h 19m	0.29494	475.51	27°.2 C	5.5663 s	28°.1 C	6°59′ 6″.8	15°50′41″.2	26°.4 C	Nakamura	Kimura
,, ,, 10 30	0.29438	473.94	33.8	5.5786	34.3	6 58 18.8	15 49 29.4	33.3	Midzusima	Ōmori
,, ,, 12 26	0.29473	474.52	30.9	5.5755	32.3	6 59 2.5	15 51 15.0	29.6	,,	,,
,, ,, 15 41	0.29453	477.17	26.2	5.5582	25.8	7 0 36.9	15 53 55.0	26.7	Kimura	Nakamura
,, ,, 16 27	0.29526	475.43	28.7	5.5632	29.1	6 58 57.5	15 51 11.9	28.3	Nakamura	Kimura
Mean	0.29483									

$H = 0.29483$
Reduction to 1895.0 = 1206
,, ,, sea level = 735
$H = 0.29502$

8. MIYOTA.

Common School. (小學校)

DECLINATION (δ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 18th 10h 32m	4° 40′ 4″	Kimura	Ōmori
,, ,, 11 46	,, 41 46	Midzusima	Nakamura
,, ,, 12 13	,, 42 58	Nakamura	Midzusima
,, ,, 12 50	,, 44 0	Midzusima	Nakamura
Mean	4° 40′ 52″		

$\delta = 4°\ 40'.87$
Reduction to 1895.0 = 1.82
,, ,, sea level = −0.06
$\delta = 4°\ 42'.6$

DIP (θ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	Dip	Observer	Recorder
July 18th 9h 49.9m	1	49° 56′.2	Midzusima	Nakamura
,, ,, 12 1.3	—	,, 52.2	Nakamura	Midzusima
,, ,, 13 9.6	1	50 4.6	Ōmori	,,
Mean		49° 57′.7		

$\theta = 49°\ 57'.7$
Reduction to 1895.0 = −0.44
,, ,, sea level = −0.06
$\theta = 49°\ 57'.2$

HORIZONTAL INTENSITY (H)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 18th 11^h 26^m	0.29634	474.65	31°6 C	5.5562^s	31°5 C	6°56′28″2	15°45′25″7	31°7 C	Ōmori	Kimura
„ „ 12 39	0.29633	474.51	33.7	5.5569	33.5	6 56 5.0	15 44 10.0	33.9	Midzusima	Nakamura
Mean	0.29634									

H= 0.29634

Reduction to 1895.0= 1110

„ „ sea level= 1032

H= 0.29655

9. KARUISAWA.

DECLINATION (δ)

Observations of the Eest Party, 1893.

Date and Hour (Mean Local Time.)	Declination	Observer	Recorder
July. 18th 20^h 22^m	4° 42′ 10″	Nakamura	Kimura
„ 19th 5 45	„ 39 35	Ōmori	Ōmori
„ „ 7 11	„ 36 56	„	„
„ „ 8 56	„ 37 44	Nakamura	Nakamura
„ „ 10 0	„ 37 37	„	Midzusima
„ „ 10 41	„ 41 10	Midzusima	Nakamura
„ „ 11 44	„ 42 39	„	„
„ „ 12 30	„ 44 17	Nakamura	Midzusima
„ „ 13 17	„ 45 20	„	„
„ „ 14 40	„ 46 51	Ōmori	Ōmori
„ „ 15 24	„ 45 58	„	„
„ „ 16 28	„ 44 35	„	„
„ „ 17 24	„ 44 32	Nakamura	„
„ „ 18 56	„ 41 12	„	„
„ „ 20 11	„ 41 48	„	„
„ „ 21 42	„ 41 38	Midzusima	Midzusima
„ 20th 6 38	„ 39 30	„	„
„ „ 8 47	„ 39 5	Ōmori	Ōmori
„ „ 9 40	„ 39 43	Nakamura	„
Mean	4° 41′ 46″		

δ=4° 41′77

Reduction to 1895.0= 1.79

„ „ sea level= −0.07

δ=4° 43′5

DIP (θ)

Observations ot the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	Dip	Observer	Recorder
July 19th 6^h 45.6^m	1	49° 44′0	Ōmori	Ōmori
„ „ 9 37.8	1	„ 46.8	Nakamura	Nakamura
„ „ 11 7.8	1	„ 48.6	Midzusima	„
„ „ 14 1.5	1	„ 56.6	Ōmori	Ōmori
„ „ 15 59.6	2	50 1.6	„	„
„ „ 17 5.4	2	„ 1.9	„	„
„ „ 19 35.2	—	„ 6.9	„	Nakamura
„ 20th 7 17.2	2	49 47.3	Midzusima	Midzusima
„ „ 8 11.7	1	„ 48.2	Ōmori	Ōmori
„ „ 9 22.8	1	„ 42.2	Nakamura	„
„ „ 10 32.6	1	„ 42.3	Ōmori	„
Mean		49° 51′5		

θ=49° 51′5

Reduction to 1895.0= −0.29

„ „ sea level= −0.07

θ=49°5 1′1

HORIZONTAL INTENSITY (H)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 19th 10^h 28^m	0.29705	475.98	26°2C	5.5448^s	27°0C	6°57′ 5″6	15°47′11″9	25°4C	Midzusima	Nakamura
„ „ 13 8	0.29696	475.15	27.1	5.5480	27.3	6 56 28.1	15 45 44.4	26.9	Nakamura	Midzusima
„ „ 18 43	0.29690	476.43	22.7	5.5418	23.2	6 57 24.4	15 47 13.7	22.3	„	Omori
„ „ 21 18	0.29695	476.60	19.8	5.5400	20.2	6 58 3.8	15 49 33.1	19.4	Ōmori	Midzusima
Mean	0.29696									

H= 0.29696
Reduction to 1895.0= 1051
„ „ sea level= 1251
H= 0.29719

10. KUTUKAKE.

Pine wood by Asama road. (淺間街道道傍ノ松林)

DIP (θ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 20th 19^h 6.0^m	1	49° 28′1	Ōmori	Kimura
„ „ 20 0	1	„ 34.6	Kimura	Ōmori
Mean		49° 31′3		

θ=49° 31′3
Reduction to 1895.0= −0.43
„ „ sea level= −0.07
θ=49° 30′8

HORIZANTAL INTENSITY (H)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflection φ_1	Mean Deflection φ_2	Temp. t_D	Observer	Recorder
July 20th 21^h 54^m	0.29524	477.80	20°0C	5.5340^s	20°3C	7°0′36″3	15°54′2″5	19°7C	Nakamura	Midzusima

H= 0.29524
Reduction to 1895.0= 1124
„ „ sea level= 1277
H= 0.29548

11. UEDA.

Play ground of high common school. (高等小學校運動場)

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 22rd 19^h 17^m	4° 59′ 15″	Midzusima	Nakamura
„ „ 20 11	5 1 35	Nakamura	Midzusima
„ „ 23 11	„ 4 2	Midzusima	Nakamura
„ 24th 0 29	„ 4 37	Kimura	Midzusima
„ „ 1 32	„ 3 57	Midzusima	Nakamura
„ „ 1 44	„ 3 22	Nakamura	Midzusima
Mean.	5° 2′ 53″		

δ=5° 2′8
Reduction to 1895.0= 1.87
„ „ sea level= 0.03
δ=5° 4′7

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 23rd 16h 36.0m	1	50° 3′5	Midzusima	Nakamura
„ „ 19 42.0	1	„ 3.0	Nakamura	Midzusima
Mean		50° 3′3		

$\theta = 50° \; 3′3$

Reduction to 1895.0 = −0.72

„ „ sea level = −0.03

$\theta = 50° \; 2′5$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assming Value of M*)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_h	Observer	Recorder
July 23th 18h 46m	0.29838	473.86	28°0C	5.5291 s	29°1C	6°52′50″0	15°36′ 8″1	26°9C	Kimura	Midzusima
„ 24th 0 2	*0.29866	474.83	23.8	5.5188	23.8	(6 51 29.4	15 34 29.4	23.6)	Midzusima	Nakamura
„ „ 1 15	0.29860	474.86	23.7	5.5196	23.9	6 53 45.0	15 39 3.8	23.5	Nakamura	Midzusima
Mean	0.29855									

$H = 0.29855$

Reduction to 1895.0 = 1324

„ „ sea level = 555

$H = 0.29874$

12. KAMISUWA.

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 24th 23h 29m	4° 15′ 20″	Midzusima	Kimura
„ 25th 10 28	„ 46 3	Nakamura	„
„ „ 11 35	„ 37 20	„	„
„ „ 12 50	„ 42 21	Kimura	Nakamura
„ „ 15 5	„ 41 58	„	„
„ „ 15 9	„ 39 30	„	„
„ „ 15 22	„ 47 31	„	„
„ „ 16 28	„ 50 53	Midzusima	„
„ „ 17 54	„ 49 24	Nakamura	Midzusima
„ „ 19 41	„ 51 5	„	Nakamura
„ „ 23 20	„ 51 18	Ōmori	„
„ 26th 7 47	„ 42 55	Nakamura	Ōmori
„ „ 8 55	„ 44 36	Ōmori	Nakamura
„ „ 11 31	„ 48 3	Kimura	Kimura
„ „ 12 3	„ 48 5	„	„
„ „ 13 37	„ 49 22	Nakamura	„
„ „ 14 3	„ 50 45	„	Nakamura
„ „ 14 37	„ 48 6	„	„
Mean	4° 47′ 46″		

$\delta = 4° \; 47.77$

Reduction to 1895.0 = 1.74

„ „ sea level = −0.05

$\delta = 4° \; 49′5$

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 24th 22h 7.4m	1	49° 44′9	Nakamura	Nakamura
,, 25th 12 13.8	1	,, 49.4	,,	Kimura
,, ,, 17 8.3	1	,, 50.2	Midzusima	Nakamura
,, ,, 21 30.3	1	,, 41.4	Ōmori	,,
,, 26th 10 1.8	1	,, 36.5	Kimura	Kimura
Mean		49° 44′5		

	θ =	49° 44′5
Reduction to	1895.0 =	−0.57
,, ,,	sea level =	−0.06
	θ =	49° 43′7

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflection φ_1	Mean Deflection φ_2	Temp. t_D	Observer	Recorder
				s						
July 25th 1h 29m	*0.29892	475.40	22°0C	5.5128	22°0C	(6°51′31″2	15°34′ 2″5	19°2C)	Midzusima	Midzusima
,, ,, 11 25	0.29849	472.89	29.3	5.5332	29.8	6 52 30.0	15 36 45.6	28.9	Nakamura	Kimura
,, ,, 14 5	*0.29842	471.79	34.7	5.5390	34.7	(6 56 9.1	15 37 7.5	32.6)	Kimura	Nakamura
,, ,, 19 14	0.29807	474.22	27.4	5.5300	28.4	6 53 46.9	15 38 43.1	26.5	,,	,,
,, 26th 8 35	0.29821	474.30	25.5	5.5253	24.9	6 53 24.4	15 38 8.1	26.2	Nakamura	Ōmori
,, ,, 13 20	0.29896	472.97	31.2	5.5299	32.4	6 51 52.5	15 34 48.1	30.1	Kimura ,,	Kimura Nakamura
Mean	0.29851									

	H =	0.29851
Reduction to	1895.0 =	1238
,, ,,	sea level =	916
	H =	0.29872

13. MATUMOTO.

Middle School. (松本中學校)

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 27th 12h 32m	4° 33′ 10″	Nakamura	Kimura
,, ,, 14 26	,, 34 0	Kimura	Nakamura
,, ,, 15 38	,, 33 18	Ōmori	Ōmori
,, ,, 16 31	,, 32 1	,,	Midzusima
,, 28th 10 20	,, 27 45	Midzusima	Nakamura
,, ,, 10 35	,, 28 5	,,	,,
,, ,, 10 49	,, 28 54	Nakamura	Midzusima
,, ,, 11 3	,, 29 30	Ōmori	Nakamura
,, ,, 11 22	,, 29 15	,,	,,
,, ,, 12 55	,, 31 47	Midzusima	Midzusima
,, ,, 13 50	,, 32 9	,,	,,
,, ,, 15 9	,, 30 30	,,	,,
,, ,, 15 56	,, 29 57	,,	,,
,, ,, 17 9	,, 28 1	,,	,,
,, ,, 18 1	,, 26 42	,,	,,
,, ,, 18 52	,, 27 15	,,	,,
,, ,, 19 49	,, 28 6	,,	,,
,, ,, 20 55	,, 27 43	Ōmori	Ōmori
,, ,, 21 44	,, 27 15	,,	Kimura
Mean	4° 29′ 4″		

	δ =	4° 29′4
Reduction to	1895.0 =	1.82
,, ,,	sea level =	−0.07
	δ =	4° 30′8

Date and Hour (Mean Local Times.)				δ			Observer	Recorder
July	29th	3h	51m	4°	40′	19″	Kimura	Ōmori
,,	,,	4	21	,,	40	46	Ōmori	Kimura
,,	,,	6	13	,,	38	41	Kimura	Ōmori
,,	,,	7	37	,,	34	15	Ōmori	Kimura
,,	,,	8	7	,,	33	57	Kimura	Ōmori
,,	,,	8	31	,,	33	8	Ōmori	Kimura
,,	,,	9	48	,,	36	51	Nakamura	Midzusima
,,	,,	10	52	,,	41	4	Midzusima	Nakamura
,,	,,	11	44	,,	42	52	Nakamura	Midzusima
,,	,,	12	55	,,	47	4	Midzusima	Nakamura
,,	,,	13	1	,,	45	26	,,	,,
,,	,,	13	41	,,	45	35	Nakamura	Midzusima
,,	,,	14	21	,,	44	48	Ōmori	Ōmori
,,	,,	14	52	,,	43	49	,,	,,
,,	,,	15	21	,,	43	20	,,	,,
,,	,,	15	50	,,	42	46	,,	,,
,,	,,	17	1	,,	40	22	Midzusima	Nakamura
,,	,,	17	31	,,	39	39	Nakamura	Midzusima
,,	,,	18	12	,,	39	48	,,	,,
,,	,,	18	40	,,	39	21	Midzusima	Nakamura
,,	,,	19	33	,,	40	30	,,	,,
,,	,,	20	8	,,	40	14	Ōmori	Midzusima
,,	,,	21	30	,,	39	58	,,	Nakamura
,,	,,	22	38	,,	38	24	Nakamura	,,
,,	,,	23	45	,,	38	20	,,	,,
,,	30th	0	25	,,	38	38	,,	,,
,,	,,	1	30	,,	37	33	,,	,,
,,	,,	2	47	,,	37	42	,,	,,
,,	,,	5	59	,,	35	39	,,	,,
,,	,,	6	12	,,	35	19	,,	,,
Mean				4°	40′	0″		

		δ = 4° 40′0
Reduction to	1895.0 =	1.80
,, ,,	sea level =	−0.05
		δ = 4° 41′8

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)				Needle No.	θ		Observer	Recorder
July	28th	8h	55.5m	1	50°	3′0	Kimura	Nakamura
,,	,,	12	18.7	1	49	59.0	Midzusima	Midzusima
,,	,,	13	23.5	1	,,	59.8	,,	,,
,,	,,	14	24.8	1	50°	1.2	,,	,,
,,	,,	15	34.7	1	,,	1.0	,,	,,
,,	,,	17	20.6	1	,,	1.8	,,	,,
,,	,,	17	42.5	1	,,	1.7	,,	,,
,,	,,	19	5.5	1	,,	1.6	,,	,,
,,	,,	19	24.7	1	,,	1.8	,,	,,
Mean					50°	1′2		

		θ = 50° 1′2
Reduction to	1895.0 =	−0.72
,, ,,	sea level =	−0.06
		θ = 50° 0.4

HORIZONTAL INTENSITY. (H)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_V	Observer	Recorder
July 27th 13h 40m	*0.29578	473.24	28°4C	5.5377 s	29°6C	(6°56′ 1″5	15°44′ 9″4	28°4C)	Kimura	Nakamura
„ „ 22 4	0.29585	476.56	17.2	5.5354	17.6	6 59 31.2	15 52 45.6	16.9	Nakamura	Kimura
„ 28th 8 5	0.29574	475.82	19.6	5.5419	20.5	6 59 10.0	15 51 58.1	18.7	Kimura	Nakamura
„ 29th 5 38	0.29585	477.01	16.0	5.5323	15.9	6 59 34.4	15 52 29.4	16.0	Ōmori	Kimura
„ „ 6 56	0.29561	476.34	18.9	5.5404	19.8	6 59 35.7	15 52 38.1	18.1	Kimura	Ōmori
„ „ 9 30	0.29552	474.33	25.8	5.5550	27.9	6 58 6.9	15 49 10.6	23.8	Nakamura	Midzusima
„ „ 10 34	0.29551	473.80	26.5	5.5570	27.7	6 57 30.6	15 47 58.7	25.4	Midzusima	Nakamura
„ „ 11 29	0.29556	473.88	26.5	5.5540	26.6	6 57 6.9	15 46 56.9	26.4	Nakamura	Midzusima
„ „ 12 43	0.29603	472.64	30.3	5.5582	30.9	6 55 52.5	15 44 48.1	29.7	Midzusima	Nakamura
„ „ 13 32	0.29540	472.63	31.1	5.5630	31.8	6 55 59.4	15 43 51.9	30.5	Nakamura	Midzusima
„ „ 16 55	0.29603	471.05	34.2	5.5672	34.5	6 54 8.1	15 40 30.6	33.9	Midzusima	Nakamura
„ „ 17 57	0.29564	472.85	29.0	5.5600	29.3	6 56 5.0	15 44 34.4	28.8	Nakamura	Midzusima
„ „ 19 13	0.29584	473.92	26.7	5.5514	26.9	6 56 43.1	15 45 54.4	26.5	Midzusima	Nakamura
„ „ 21 12	0.29572	473.92	25.8	5.5526	26.2	6 57 2.5	15 46 48.1	25.5	Ōmori	Midzusima
„ „ 22 11	0.29590	474.19	24.4	5.5487	24.3	6 57 6.9	15 47 19.4	24.5	„ Nakamura	Nakamura Ōmori
	0.29573									

$H = 0.29573$

Reduction to 1895.0 = 1287

„ „ sea level = 890

$H = 0.29595$

14. ŌMATI.

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 30th 21h 51m	4° 55′ 54″	Nakamura	Kimura
„ „ 22 59	„ 56 4	Midzusima	Midzusima
„ „ 23 45	„ 55 40	„	„
„ 31st 0 43	„ 55 18	„	„
„ „ 1 52	„ 54 52	„	„
„ „ 2 30	„ 54 21	„	„
„ „ 4 14	„ 54 50	„	„
„ „ 5 0	„ 54 21	„	„
„ „ 6 9	„ 52 53	„	„
„ „ 6 50	„ 51 7	„	„
„ „ 7 38	„ 50 10	„	„
„ „ 8 24	„ 50 11	„	„
„ „ 9 0	„ 51 8	„	„
„ „ 9 26	„ 52 9	„	„
„ „ 10 13	„ 54 11	„	„
„ „ 11 56	„ 58 31	Kimura	Nakamura
„ „ 12 27	„ 59 10	Nakamura	Kimura
„ „ 13 2	5 0 4	„	Nakamura
„ „ 13 33	4 59 46	Kimura	„
„ „ 14 13	„ 59 39	Nakamura	Kimura
„ „ 15 17	„ 58 58	Kimura	Ōmori
„ „ 16 19	„ 56 45	Ōmori	Nakamura
„ „ 16 53	„ 56 28	Nakamura	Ōmori
„ „ 17 58	„ 54 38	Ōmori	Nakamura
„ „ 19 39	„ 55 39	Nakamura	Ōmori
„ „ 20 30	„ 55 25	Ōmori	Kimura
„ „ 21 49	„ 55 9	Kimura	„
Aug. 1st 0 0	„ 54 17	„	Ōmori
„ „ 0 43	„ 54 1	Ōmori	Kimura
Mean	4° 55′ 10″		

$\delta = 4°\ 56'17$

Reduction to 1895.0 = 1.91

„ „ sea level = −0.05

$\delta = 4°\ 57'0$

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 30th 21h 50.0m	1	50° 15′6	Ōmori	Nakamura
„ 31st 1 24.9	—	„ 15.8	Midzusima	Midzusima
„ „ 7 14.3	—	„ 16.8	„	„
Aug. 1st 0 23.0	1	„ 24.1	Ōmori	Ōmori
„ „ 1 42.4	1	„ 12.6	„	Kimura
				Ōmori
Mean		50° 17′0		

$\theta = 50°\ 17'0$

Reduction to 1895.0 = −0.99

„ „ sea level = −0.05

$\theta = 50°\ 16'0$

HORIZONTAL INTENSITY (H)

(*Value deduced from Vibration only by assuming Value of M*)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_0	Mean Deflection φ_1	Mean Deflection φ_2	Temp. t_D	Observer	Recorder
July 31st 11h 38m	0.29588	470.87	33°1C	5.5714 s	34°3C	6°54′55″6	15°43′ 4″4	32°5C	Kimura	Nakamura
„ „ 16 4	*0.29572	472.19	28.4	5.5627	28.4	(6 54 3.7	15 43 32.5	28.1)	Nakamura	Ōmori
„ „ 17 40	*0.29599	473.34	24.5	5.5532	24.5	(6 59 9.4	15 49 25.0	23.4)	Ōmori	Nakamura
„ „ 20 14	0.29607	473.99	22.2	5.5484	22.7	6 57 39.4	15 49 55.6	21.8	„	„
Mean	0.29591									

$H = 0.29591$

Reduction to 1895.0 = 1328

„ „ sea lavel = 897

$H = 0.29613$

15. KURUMA.

DECLINATIONS (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 2nd 2h 13m	4° 43′ 46″	Midzusima	Nakamura
„ „ 3 1	„ 43 17	„	„
„ „ 4 27	„ 44 38	Nakamura	„
Mean	4° 43′ 54″		

$\delta = 4°\ 43'90$

Reduction to 1895.0 = 2.05

„ „ sea level = −0.05

$\delta = 4°\ 45.9$

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 1st 21h 34.5m	1	50° 14′6	Kimura	Ōmori
„ 2nd 4 0.5	1	„ 19.1	Nakamura	Nakamura
Mean		50° 16′8		

$\theta = 50°\ 16'3$

Reduction to 1895.0 = −1.28

„ „ sea level = −0.04

$\theta = 50°\ 15'5$

HORIZONTAL INTENSITY (H)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 2nd 1h 59m	0.29784	475.43	20°0C	5.5364 s	19°8C	6°55′33″1	15°43′28″8	20°2C	Nakamura	Midzusima
„ „ 2 46	0.29704	475.27	20.3	5.5318	20.3	6 55 43.1	15 42 42.5	20.3	Midzusima	Nakamura
Mean	0.29744									

H = 0.29744

Reduction to 1895.0 = 1349

„ „ sea level = 780

H = 0.29765

16 ITOIGAWA.

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 8th 7h 16m	5° 4′ 54″	Iwaoka	Turuta
„ „ 7 57	„ 4 58	Turuta	Iwaoka
„ „ 9 36	„ 4 58	Iwaoka	„
„ „ 10 0	„ 4 51	„	„
„ „ 10 58	„ 6 27	„	Turuta
„ „ 11 9	„ 7 22	„	„
„ „ 12 7	„ 9 3	„	„
„ „ 12 49	„ 8 27	Turuta	Iwaoka
„ „ 12 55	„ 8 46	„	„
„ „ 13 8	„ 9 59	„	„
„ „ 14 58	„ 8 40	Iwaoka	Turuta
„ „ 15 7	„ 7 29	„	„
„ „ 16 51	„ 5 50	„	„
„ „ 17 1	„ 6 51	„	„
„ „ 18 19	„ 6 31	„	Iwaoka
„ „ 18 40	„ 5 15	„	„
„ „ 19 50	„ 4 51	„	Turuta
„ „ 20 1	„ 3 35	„	„
„ „ 20 13	„ 3 45	„	„
„ „ 20 31	„ 5 56	Turuta	Iwaoka
„ „ 20 51	„ 5 47	„	„
„ „ 21 4	„ 5 50	Iwaoka	Turuta
„ „ 22 35	„ 5 57	Turuta	„
„ 9th 0 48	„ 5 31	Iwaoka	Iwaoka
„ „ 1 5	„ 5 35	„	„
„ „ 6 31	„ 4 41	„	„
„ „ 6 45	„ 4 33	„	„
„ „ 7 0	„ 4 17	„	„
„ „ 7 36	„ 4 35	„	Turata
	5° 6′ 28″		

δ = 5° 6′47

Reduction to 1895.0 = 1.91

„ „ sea level = 0.00

δ = 5° 8′4

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 2nd 21h 39.0m	1	51° 8′4	Ōmori	Kimura
„ 3rd 10 16.0	1	6.3	„	Nakamura
Mean		51° 7′4		

θ = 51° 7′4

Reduction to 1895.0 = −1.57

„ „ sea level = 0.00

θ = 51° 5′8

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 8th 11h 40m		50° 59′5	Turuta	Turuta
„ „ 16 27		„ 58.0	„	„
„ 9th 0 1		„ 57.2	Iwaoka	Iwaoka
Mean		50° 58′2		

$\theta = 50°\ 58'2$

Reduction to 1895.0 = −1.37

„ „ sea level = 0.00

$\theta = 50°\ 56'8$

HORIZONTAL INTENSITY (H)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 3th 9h 41m	0.29183	472.90	30°3C	5.5936 s	29°4C	7° 1′ 1″2	15°55′48″1	31°3C	Ōmori	Nakamura

$H = 0.29183$

Reductions to 1895.0 = 1342

„ „ sea lavel = 000

$H = 0.29196$

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Oct. 8th 9h 10m	0.29277	452.62	21°4C	5.7715 s	20°6C	6°39′33″0	15°12′40″0	22°2	Iwaoka / Turuta	Turuta / Iwaoka
„ „ 14 33	0.29300	451.80	23.9	5.7777	24.5	6 38 48.0	15 10 48.0	23.3	„ / Iwaoka	„ / Turuta
„ „ 17 50	0.29278	453.39	18.7	5.7704	19.8	6 40 51.0	15 15 39.0	17.6	„ / Turuta	„ / Iwaoka
Mean	0.29285									

$H = 0.29285$

Reductions to 1895.0 = 1171

„ „ sea level = 000

$H = 0.29297$

17. TAKATA.

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 5th 0h 57m	5° 9′ 40″	Ōmori	Nakamura
„ „ 4 33	„ 8 25	„	Ōmori
„ „ 5 6	„ 7 28	„	Nakamura
„ „ 6 35	„ 3 33	Nakamura	Ōmori
„ „ 7 0	„ 4 6	Ōmori	„
„ „ 7 57	„ 3 42	Midzusima	Midzusima
„ „ 8 23	„ 3 50	„	„
„ „ 8 46	„ 3 53	„	„
„ „ 9 12	„ 4 2	„	„
„ „ 9 39	„ 4 30	„	„
„ „ 10 9	„ 6 15	„	„
„ „ 10 38	„ 7 24	„	„
„ „ 11 54	„ 10 33	„	„
„ „ 12 56	„ 13 54	„	„
„ „ 13 21	„ 15 13	„	„
„ „ 13 50	„ 16 8	„	„
„ „ 14 21	„ 16 13	„	„
„ „ 14 50	„ 15 42	„	„

To be continued.

Continued

Date and Hour (Mean Local Time.)				δ			Observer	Recorder
Aug.	5th	15h	20m	5°	14′	22″	Ōmori	Nakamura
,,	,,	16	25	,,	11	38	Nakamura	Ōmori
,,	,,	17	5	,,	10	30	Ōmori	Nakamura
,,	,,	17	34	,,	9	57	Nakamura	Ōmori
,,	,,	18	17	,,	9	33	Ōmori	Nakamura
,,	,,	18	50	,,	10	5	Nakamura	Ōmori
,,	,,	19	53	,,	10	11	,,	Nakamura
,,	,,	20	26	,,	10	6	,,	,,
,,	,,	20	52	,,	10	6	,,	,,
,,	,,	21	18	,,	10	30	,,	Midzusima
,,	,,	22	20	,,	10	9	Midzusima	,,
,,	,,	23	5	,,	10	24	,,	,,
,,	6th	0	3	,,	10	31	,,	,,
,,	,,	0	56	,,	9	47	,,	,,
,,	,,	1	51	,,	9	25	,,	,,
,,	,,	2	36	,,	9	30	,,	,,
,,	,,	3	45	,,	9	15	,,	,,
,,	,,	4	46	,,	8	51	,,	,,
,,	,,	5	24	,,	7	38	,,	,,
,,	,,	6	2	,,	7	33	,,	,,
,,	,,	6	20	,,	7	3	,,	,,
,,	,,	8	26	,,	3	42	Ōmori	Nakamura
,,	,,	9	21	,,	5	55	Nakamura	Ōmori
,,	,,	9	53	,,	6	21	Ōmori	Nakamura
,,	,,	10	43	,,	8	50	,,	,,
,,	,,	11	40	,,	11	24	Nakamura	Ōmori
,,	,,	12	17	,,	11	47	Ōmori	Nakamura
,,	,,	12	59	,,	12	55	Nakamura	Ōmori
,,	,,	13	31	,,	13	4	Ōmori	Nakamura
,,	,,	14	19	,,	13	56	,,	,,
,,	,,	14	47	,,	14	45	Midzusima	Midzusima
,,	,,	15	7	,,	13	3	,,	,,
,,	,,	15	33	,,	11	58	,,	,,
,,	,,	16	16	,,	12	26	,,	,,
,,	,,	16	42	,,	12	25	,,	,,
,,	,,	17	30	,,	12	13	,,	,,
,,	,,	18	10	,,	12	15	,,	Ōmori
,,	,,	18	48	,,	12	15	Nakamura	Midzusima
,,	,,	19	41	,,	13	18	Midzusima	Nakamura
Mean				5°	9′	33″		

$\delta = 5^\circ\ 9'.55$

Reduction to 1895.0 = 2.12

,, ,, sea level = 0.00

$\delta = 5^\circ\ 11'.7$

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)				Needle No.	Dip		Observer	Recorder
Aug.	4th	21h	32.4m	1	50°	55'.8	Midzusima	Ōmori
,,	5th	12	35.6	1	,,	58.5	,,	Midzusima
,,	,,	16	49.2	1	,,	55.5	Nakamura	Ōmori
,,	,,	19	18.9	1	,,	52.6	Ōmori	Nakamura
,,	6th	0	29.8	1	,,	58.0	Midzusima	Midzusima
,,	,,	10	15.2	1	,,	54.4	Ōmori	Nakamura
,,	,,	12	39.4	1	,,	52.6	Nakamura	Ōmori
,,	,,	16	0.5	1	,,	57.5	Midzusima	Midzusima
,,	,,	18	28.8	1	,,	56.3	Nakamura	,,
,,	,,	20	10.8	1	,,	59.1	Midzusima	Ōmori
Mean					50°	56'.0		

$\theta = 50^\circ\ 56'.0$

Reduction to 1895.0 = −1.27

,, ,, sea level = 0.00

$\theta = 50^\circ\ 54'.7$

HORIZONTAL INTENSITY (H)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug 5th 6h 12m	0.29392	471.52	27°1C	s 5.5828	26°8 C	6°57′35″6	15°48′39″4	27°5C	Ōmori	Nakamura
,, ,, 16 11	0.29363	470.57	32.3	5.5926	32.4	6 56 58.8	15 47 0.7	32.2	,,	,,
,, ,, 18 5	0.29348	471.18	30.5	5.5900	30.6	6 57 33.5	15 47 54.4	30.3	Nakamura	Ōmori
,, ,, 22 4	0.29375	472.43	27.0	5.5806	27.4	6 58 58.1	15 51 56.9	26.5	Midzusima	Nakamura
,, 6th 9 9	0.29339	470.09	33.4	5.5986	34.0	6 57 6.0	15 47 21.2	32.9	Ōmori	,,
,, ,, 10 27	0.29328	469.42	34.8	5.6040	35.6	6 56 51.0	15 47 1.9	34.0	Nakamura	Ōmori
,, ,, 14 6	0.29303	470.02	34.9	5.6018	35.3	6 56 55.0	15 46 5.6	34.5	Ōmori	Nakamura
Mean	0.29350									

H = 0.29350
Reduction to 1895.0 = 1248
,, ,, sea level = 000
H = 0.29362

18. SEKIYAMA.

DECLINATION (δ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 7th 8h 37m	5° 1′ 42″	Midzusima	Kimura
,, ,, 9 19	,, 0 33	,,	,,
,, ,, 11 30	,, 58 56	Nakamura	Midzusima
,, 8th 0 40	4 59 32	Ōmori	Nakamura
,, ,, 1 29	,, 58 20	Nakamura	Ōmori
,, ,, 2 20	,, 57 4	Ōmori	Nakamura
,, ,, 3 2	,, 55 35	Nakamura	Ōmori
,, ,, 4 48	,, 56 55	,,	Nakamura
Mean	4° 58′ 35″		

δ = 4° 58′5S
Reduction to 1895.0 = 2.03
,, ,, sea level = −0.05
δ = 5° 0′6

DIP (θ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 7th 16h 39.4m	1	50° 52′4	Nakamura	Nakamura
,, ,, 23 7.0	1	,, 55.6	Ōmori	,,
,, 8th 1 57.3	1	,, 54.4	Nakamura	Ōmori
Mean		50° 54′1		

θ = 50° 54′1
Reduction to 1895.0 = −1.12
,, ,, sea level = 0.03
θ = 50° 53′0

HORIZONTAL INTENSITY (H)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 7th 18h 0m	0.29309	470.32	28°8C	s 5.5986	28°7C	6°58′ 7″8	15°50′31″2	28°8C	Nakamura	Ōmori
,, ,, 20 17	0.29318	471.55	26.0	5.5914	26.6	6 58 49.2	15 51 16.3	25.5	Midzusima	Kimura
,, 8th 0 23	0.29325	471.97	23.9	5.5874	24.1	6 59 8.8	15 52 14.3	23.8	Ōmori	Nakamura
,, ,, 1 13	0.29330	471.41	25.5	5.5900	25.5	6 58 35.0	15 51 4.4	25.6	Nakamura	Ōmori
Mean	0.29320									

H = 0.29320
Reduction to 1895.0 = 1218
,, ,, sea level = 734
H = 0.29[illegible]

19. NAGANO.

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)			δ			Observer	Recorder
Aug.	8th	16h 59m	4°	56′	3″	Midzusima	Ōmori
,,	,,	18 8	,,	54	58	,,	,,
,,	,,	18 36	,,	55	12	Kimura	,,
,,	,,	20 21	,,	55	41	Ōmori	Kimura
,,	,,	21 8	,,	55	17	Nakamura	Nakamura
,,	,,	21 45	,,	55	25	,,	,,
,,	,,	22 48	,,	55	49	,,	,,
,,	,,	23 54	,,	56	18	Midzusima	Midzusima
,,	9th	0 49	,,	56	19	,,	,,
,,	,,	1 57	,,	55	57	,,	,,
,,	,,	2 54	,,	55	52	,,	,,
,,	,,	4 10	,,	55	6	,,	,,
,,	,,	5 34	,,	54	37	,,	,,
,,	,,	6 30	,,	52	12	,,	,,
,,	,,	7 9	,,	51	44	,,	,,
,,	,,	7 59	,,	50	45	,,	,,
,,	,,	8 44	,,	50	7	Ōmori	Kimura
,,	,,	10 4	,,	52	37	Kimura	Ōmori
,,	,,	10 38	,,	54	2	Ōmori	Kimura
,,	,,	11 39	,,	56	50	,,	,,
,,	,,	12 56	5	0	12	Kimura	Ōmori
,,	,,	13 22	,,	0	58	Nakamura	Nakamura
,,	,,	13 56	,,	0	57	,,	,,
,,	,,	14 28	,,	0	32	,,	,,
,,	,,	15 18	4	58	48	Ōmori	Kimura
,,	,,	15 51	,,	57	59	,,	,,
,,	,,	16 54	,,	56	31	Kimura	Ōmori
,,	,,	17 24	,,	56	7	Ōmori	Nakamura
,,	,,	18 15	,,	55	56	Nakamura	Ōmori
,,	,,	19 43	,,	55	55	,,	,,
,,	,,	20 41	,,	56	8	Midzusima	Kimura
,,	,,	21 31	,,	55	38	,,	,,
,,	,,	22 32	,,	56	8	,,	,,
,,	10th	23 43	,,	55	38	Nakamura	Ōmori
,,	,,	5 45	,,	54	48	Ōmori	Nakamura
,,	,,	6 45	,,	52	53	Nakamura	Ōmori
,,	,,	7 10	,,	52	35	,,	,,
,,	,,	8 4	,,	51	28	Ōmori	Nakamura
,,	,,	9 11	,,	53	2	Midzusima	Midzusima
,,	,,	10 15	,,	54	57	,,	Kimura
,,	,,	11 6	,,	56	47	Kimura	,,
,,	,,	12 31	,,	59	53	,,	,,
,,	,,	13 37	5°	2	22	Midzusima	Midzusima
,,	,,	14 6	,,	1	55	Kimura	Kimura
,,	,,	15 8	,,	0	32	Ōmori	Ōmori
,,	,,	16 13	4	58	22	,,	,,
Mean			4°	55′	56″		

	δ = 4°	55′93
Reduction to	1895.0 =	1.93
,, ,,	sea level =	−0.03
	δ = 4°	57′8

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 9th 15h 12.7m	1	50° 33′7	Nakamura	Nakamura
,, ,, 17 54.7	1	,, 35.4	,,	,,
,, ,, 21 7.4	1	,, 34.0	Midzusima	Kimura
,, 10th 13 11.5	1	,, 34.4	,,	,,
Mean		50° 34′4		

$\theta = 50°\ 34'4$

Reduction to 1895.0 = −0.98

,, ,, sea level = −0.02

$\theta = 50°\ 33'4$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 8th 20h 1m	0.29298	471.31	27°0 C	5.5939	27°0 C	6°58′25″6	15°50′32″5	27°0 C	Kimura	Ōmori
,, ,, 22 26	0.29313	471.55	27.0	5.5911	27.2	6 58 38.8	15 50 44.4	27.0	Nakamura	Midzusima
,, 9th 9 31	0.29287	470.35	31.7	5 6004	31.7	6 57 28.8	15 47 31.9	31.8	Kimura	Ōmori
,, ,, 11 19	0.29360	468.32	34.7	5.6068	35.2	6 55 38.8	15 44 45.7	34.2	Ōmori	Kimura
,, ,, 12 32	0.29302	468.76	35.1	5.6100	36.0	6 56 18.1	15 45 13.7	34.3	Kimura	Omori
,, ,, 16 31	0.29339	470.33	29.9	5.5969	30.4	6 57 21.2	15 47 52.5	29.4	Nakamura	,,
,, ,, 18 50	*0.29312	471.11	26.6	5.5936	26.6	....	....	..	Ōmori	Nakamura
,, ,, 20 25	0.29439	470.77	26.2	5.5900	26.3	6 57 55.0	15 50 16.9	26.1	,,	,,
,, ,, 23 23	0.29307	471.98	24.5	5.5892	24.7	6 59 5.0	15 51 32.5	24.2	Nakamura	Ōmori
,, 10th 6 31	0.29308	471.54	23.8	5.5918	24.0	6 59 0.6	15 51 50.0	23.5	Ōmori	Nakamura
,, ,, 7 41	0.29299	471.40	25.2	5.5936	25.5	6 58 49.1	15 51 16.2	25.0	Nakamura	Ōmori
,, ,, 8 43	0.29319	469.96	28.7	5.5992	28.4	6 57 16.9	15 48 4.4	29.0	Ōmori	Nakamura
,, ,, 10 43	0.29349	468.68	33.7	5.6060	34.2	6 55 55.6	15 45 0.6	33.2	Midzusima	Kimura
,, ,, 12 0	0.29315	469.05	34.7	5.6074	35.8	6 56 19.4	15 45 11.8	33.5	,,	,,
Mean	0.29325									

$H = 0.29325$

Reduction to 1895.0 = 1211

,, ,, sea level = 520

$H = 0.29342$

20. IYAMA.

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 11th 19h 20m	5° 5′ 11″	Nakamura	Ōmori
,, ,, 20 32	,, 5 18	Ōmori	Nakamura
,, ,, 21 31	,, 5 30	Midzusima	Midzusima
,, 12th 0 26	,, 5 33	,,	Kimura
,, ,, 2 56	,, 5 32	,,	,,
,, ,, 4 58	,, 6 21	,,	,,
,, ,, 6 43	,, 1 33	Kimura	,,
,, ,, 7 38	,, 0 2	Nakamura	Ōmori
,, ,, 8 28	4 59 26	Ōmori	Nakamura
,, ,, 9 41	5 2 9	Nakamura	Ōmori
,, ,, 10 45	,, 4 53	Ōmori	Nakamura
,, ,, 11 27	,, 6 11	Nakamura	Ōmori
,, ,, 12 1	,, 7 20	Ōmori	Nakamura
,, ,, 12 48	,, 9 44	Nakamura	Ōmori
,, ,, 13 41	,, 10 7	Ōmori	Nakamura
,, ,, 14 28	,, 9 28	Nakamura	,,
,, ,, 15 5	,, 8 57	,,	,,
,, ,, 16 46	,, 5 57	Ōmori	,,
Mean	5° 5′ 7″		

$\delta = 5°\ 5'7$

Reduction to 1895.0 = 2.00

,, ,, sea level = −0.03

$\delta = 5°\ 7'1$

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	Dip	Observer	Recorder
Aug. 11th 18h 42.3m	1	50° 45′5	Ōmori	Nakamura
„ „ 23 10.3	1	„ 44.3	Kimura	Kimura / Ōmori
„ 12th 10 18.9	1	„ 43.2	Ōmori	Nakamura
„ „ 11 10.9	1	„ 44.4	Nakamura	Ōmori
Mean		50° 44′3		

	θ = 50°	44′3
Reduction to	1895.0 =	−1.11
„ „	sea level =	−0.02
	θ = 50°	43′2

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 11th 20 15m	*0.29334	471.29	25°1 C	5.5904	25°1 C	6°58′ 4′′0	15°47′27′′5	24°4 C	Ōmori	Nakamura
„ „ 21 9	0.29359	471.67	24.3	5.5859	24.5	6 58 6.9	15 49 23.8	24.3	Nakamura	Ōmori
„ 12th 6 22	0.29348	472.08	21.9	5.5830	21.4	6 58 40.6	15 51 1.2	22.5	Kimura	Midzusima
„ „ 8 11	0.29331	470.73	26.6	5.5951	27.2	6 57 49.4	15 48 50.6	26.0	Nakamura	Ōmori
„ „ 9 22	0.29336	469.39	29.6	5.6038	30.7	6 56 53.1	15 47 3.1	28.5	Ōmori	Nakamura
„ „ 12 32	0.29356	468.44	35.4	5.6060	35.5	6 54 49.4	15 41 26.3	35.3	Nakamura	Ōmori
„ „ 13 23	0.29345	467.86	36.2	5.6100	36.1	6 54 24·4	15 40 33.1	36.4	Ōmori	Nakamura
„ „ 15 46	0.29378	468.65	32.4	5.6022	32.6	6 54 59.4	15 42 16.2	32.4	„	„
Mean	0.29348									

	H =	0.29348
Reduction to	1895.0 =	1182
„ „	sea level =	406
	H =	0.29364

21. TŌKAMATI.

Bleaching ground (布晒シ場)

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 13th 20h 35m	4° 55′ 59″	Kimura	Ōmori
,, 14th 0 4	,, 59 53	Midzusima	Nakamura
,, ,, 1 51	5 0 40	,,	,,
,, ,, 2 59	,, 1 59	,,	Midzusima
,, ,, 5 30	4 59 9	Nakamura	Nakamura
,, ,, 7 2	,, 56 40	,,	,,
,, ,, 8 0	,, 54 12	Midzusima	,,
,, ,, 8 53	,, 55 53	Nakamura	Ōmori
,, ,, 9 47	,, 56 27	Kimura	,,
,, ,, 10 50	5 0 45	Ōmori	Kimura
,, ,, 11 40	,, 3 4	,,	,,
,, ,, 11 52	,, 3 3	Kimura	Ōmori
,, ,, 12 41	,, 4 7	,,	,,
,, ,, 14 16	,, 4 43	,,	Kimura
,, ,, 15 19	,, 3 28	Midzusima	Midzusima
,, ,, 16 4	,, 2 24	,,	,,
,, ,, 16 42	,, 0 2	Kimura	Kimura
,, ,, 17 43	4 59 12	,,	,,
,, ,, 19 8	,, 59 28	Midzusima	Ōmori
,, ,, 19 42	,, 59 54	Ōmori	,,
,, ,, 20 52	,, 59 14	,,	Kimura
,, ,, 22 3	5 0 18	Kimura	Ōmori
,, ,, 22 24	,, 0 44	Ōmori	Kimura
,, 15th 0 18	,, 1 2	Midzusima	Ōmori
,, ,, 1 22	,, 0 26	Ōmori	Midzusima
,, ,, 2 16	4 59 58	Midzusima	Ōmori
,, ,, 2 57	,, 59 51	Ōmori	Midzusima
,, ,, 4 28	,, 58 59	,,	Ōmori
,, ,, 4 57	,, 59 18	,,	,,
Mean	5° 0′ 7″		

	$\delta = 5°$ 0′.12
Reduction to 1895.0 =	2.02
,, ,, sea level =	−0.01
	$\delta = 5°$ 2′.1

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 13th 20h 39.3m	1	50° 57′.5	Ōmori	Ōmori
,, ,, 22 28.4	—	,, 58.9	Nakamura	Nakamura
,, 14th 6 7.0	—	,, 56.8	,,	,,
,, ,, 7 33.8	1	,, 55.9	Midzusima	,,
,, ,, 14 52.3	—	,, 56.5	,,	Midzusima
,, ,, 20 19.8	1	,, 54.3	Ōmori	Ōmori
,, ,, 23 20.8	1	,, 53.2	,,	Midzusima
,, 15th 1 51.2	1	,, 56.5	Midzusima	Ōmori
Mean		50° 56′.2		

	$\theta = 50°$ 56′.2
Reduction to 1895.0 =	−0.97
,, ,, sea level =	−0.01
	$\theta = 50°$ 55′.2

HORIZONTAL INTENSITY (H)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t	Observer	Recorder
Aug. 14th 1h 38m	0.29355	471.54	22°9C	5.5860 s	22°6C	6°58′ 6″2	15°49′36″9	23°2C	Nakamura	Midzusima
,, ,, 7 45	0.29426	470.32	27.7	5.5904	27.8	6 56 30.6	15 46 6.2	27.6	Midzusima	Nakamura
,, ,, 9 33	0.29326	468.14	32.9	5.6113	33.5	6 55 25.6	15 43 14.4	32.3	Kimura	Ōmori
,, ,, 10 36	0.29308	468.14	34.7	5.6132	35.3	6 55 12.5	15 42 3.7	34.2	Ōmori	Kimura
,, ,, 12 27	0.29311	467.20	36.8	5.6189	37.5	6 54 9.4	15 39 31.9	36.1	Kimura	Ōmori
,, ,, 13 28	0.29362	467.27	36.3	5.6126	36.6	6 53 47.5	15 39 15.0	36.1	Ōmori	Kimura
,, ,, 18 19	0.29348	468.19	30.7	5.6040	31.1	6 55 28.7	15 42 54.4	30.5	Midzusima	,,
,, ,, 21 45	0.29388	470.92	24.0	5.5887	24.7	6 57 18.1	15 47 38.8	23.4	Kimura	Ōmori
,, 15th 1 3	0.29364	471.38	22.5	5.5871	22.7	6 57 46.3	15 48 31.9	22.3	Midzusima	,,
,, ,, 3 39	0.29369	471.42	22.3	5.5860	22.3	6 57 35.0	15 47 55.6	22.3	Ōmori	Midzusima
Mean	0.29356									

	$H=$	0.29356
Reduction to	1895.0 =	1035
,, ,,	sea level =	210
	$H=$	0.29368

22. NAGAOKA.

Sakagami School. (坂上學校)

DECLINATION (δ)

Observations of the East Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 26th 21h 27m	5° 12′ 27″	Nakamura	Ōmori
,, ,, 21 42	,, 12 32	,,	,,
,, ,, 23 19	,, 13 3	Ōmori	Nakamura
,, 27th 0 26	,, 12 21	Nakamura	Ōmori
,, ,, 6 5	,, 14 37	,,	Nakamura
,, ,, 6 29	,, 13 21	,,	Ōmori
,, ,, 7 25	,, 9 32	Ōmori	Nakamura
,, ,, 7 57	,, 7 55	Nakamura	Ōmori
,, ,, 8 39	,, 6 22	Kimura	Kimura
,, ,, 9 22	,, 6 42	,,	,,
,, ,, 10 6	,, 7 41	,,	,,
,, ,, 11 10	,, 11 14	,,	,,
,, ,, 11 41	,, 10 50	,,	,,
,, ,, 12 12	,, 13 35	Nakamura	Nakamura
,, ,, 12 37	,, 13 48	,,	,,
,, ,, 13 3	,, 14 14	,,	,,
,, ,, 13 20	,, 14 23	,,	,,
,, ,, 13 42	,, 14 52	,,	,,
Mean	5° 12′ 17″		

	$\delta=$	5° 12′28
Reduction to	1895.0 =	2.06
,, ,,	sea level =	0.00
	$\delta=$	5° 14′3

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 15th 20h 57.5m	1	51° 38′0	Midzusima	Ōmori
„ 16th 3 13.8	1	„ 34.6	Nakamura	Nakamura
„ „ 7 3.2	1	„ 40.1	Kimura	Kimura
„ „ 9 18.2	1	„ 43.6	Ōmori	Ōmori
„ 18th 0 28.2	1	„ 38.2	„	„
„ „ 6 7.7	1	„ 34.8	„	„
„ „ 7 13.8	1	„ 36.7	„	„
„ „ 8 50.3	—	„ 37.6	Midzusima	Nakamura
„ „ 9 33.6	1	„ 37.6	Nakamura	„
Mean		51° 37′9		

	θ = 51°	37′9
Reduction to	1895.0 =	−0.96
„	„ sea level =	0.00
	θ = 51°	36′9

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	δ	Observer	Recorder
Aug. 27th 9h 6.1m	1	51° 46′7	Kimura	Kimura
„ „ 10 41.7	1	„ 38.9	„	„
Mean		51° 42′8		

	θ = 51°	42′8
Reduction to	1895.0 =	−0.94
„	„ sea level =	0.00
	θ = 51°	41′9

HORIZONTAL INTENSITY (H)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections. φ_1	Mean Deflections. φ_2	Temp. t_D	Observer	Recorder
Aug 16th 8h 12m	0.28995	469.83	28°5C	5.6306 s	27°9C	7° 0′49″6	15°56′40″0	29°1C	Nakamura	Kimura
„ „ 22 16	0.28994	470.48	26.0	5.6287	26.4	7 1 49.4	15 57 11.9	25.7	Midzusima	Ōmori
„ 17th 20 59	0.29029	469.62	27.0	5.6296	27.0	7 1 24.4	15 57 45.6	26.9	Nakamura	„
„ „ 21 49	0.28950	470.24	27.0	5.6338	27.1	7 2 16.9	15 58 26.9	26.9	Ōmori	Nakamura
„ 18th 8 16	0.29001	469.41	27.3	5.6340	27.5	7 1 5.5	15 56 10.6	27.2	Midzusima	„
Mean	0.28994									

	H =	0.28994
Reduction to	1895.0 =	938
„	„ sea level =	040
	H =	0.29004

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflection φ_1	Mean Deflection φ_2	Temp. t_D	Observer	Recorder
Aug. 26th 23h 59m	0.29037	468.56	24°3C	5.6345 s	24°0C	7° 0′ 0″0	15°54′ 3″8	24°7C	Ōmori	Nakamura
„ 27th 7 14	0.28988	469.06	23.7	5.6367	23.6	7 0 58.8	15 55 55.0	23.8	„	„
Mean	0.29012									

	H =	0.29012
Reduction to	1895.0 =	931
„	„ sea level =	40
	H =	0.29022

23. KASIWAZAKI.

Kasiwazaki Street (柏崎町)

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug 19— 2h 24.4m	1	51° 58′2	Kimura	Kimura
„ „ 7 1.8	1	52 2.3	Nakamura	„
„ „ 8 6.0	1	51 58.5	Ōmori	Midzusima
„ „ 17 54.4	1	52 0.6	Nakamura	Kimura
„ „ 18 46.6	1	51 53.7	Kimura	„
„ „ 22 34.6	1	„ 55.6	Ōmori	Nakamura
„ 20th 0 33.7	1	„ 56.6	Nakamura	Ōmori
„ „ 3 12.2	1	„ 53.3	Ōmori	„
„ „ 7 32.2	1	52 0.0	Nakamura	„
„ „ 8 45.7	1	51 51.0	Midzusima	Kimura
„ „ 9 33.7	1	„ 52.5	„	„
„ „ 15 8.8	1	„ 53.8	Ōmori	Ōmori
„ „ 20 31.7	1	52 0.9	Kimura	Nakamura
Mean		51° 56′7		

$\theta = 51° \; 56′7$

Reduction to 1895.0 = −1.37

„ „ sea level = 0.00

$\theta = 51° \; 55′3$

HORIZONTAL INTENSITY (H).

(* *Value deduced from Vibration only by Assuming Value of M*)

Observations of the East Party, 1893.

Date and Hour (Hour Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 19th 0h 31m	0.28780	469.68	26°7C	5.6516 s	27°2C	7° 4′51″9	16° 5′ 8″1	26°2C	Kimura	Nakamura
„ „ 5 57	0.28771	469.18	25.1	5.6581	25.5	7 4 58.2	16 6 5.6	24.8	Nakamura	Kimura
„ „ 9 37	0.28844	468.25	26.6	5.6576	27.4	7 3 52.5	16 4 40.7	25.8	Midzusima	Ōmori
„ „ 16 12	0.28804	470.40	23.2	5.6466	23.3	7 5 3.8	16 5 32.5	23.3	Kimura	Nakamura
„ „ 16 50	0.28888	469.46	22.9	5.6441	22.9	7 4 7.5	16 5 11.9	22.9	Nakamura	Kimura
„ „ 23 44	0.28777	470.85	21.9	5.6474	22.3	7 5 41.2	16 6 28.8	21.5	Ōmori	Nakamura
„ 20th 6 39	0.28834	470.42	21.2	5.6438	21.4	7 4 57.5	16 5 43.8	21.1	„	„
„ „ 23 53	*0.28874	469.37	25.2	5.6461	25.2	(6 57 56.9	16 5 23.1	24.7)	Kimura	Ōmori
„ 21st 6 31	*0.28885	469.93	23.4	5.6417	23.4	(7 2 52.5	15 57 4.3	23.1)	Ōmori	Kimura
„ „ 7 20	0.28939	470.03	23.3	5.6487	23.4	7 3 42.5	16 3 56.3	23.3	Kimura	Ōmori
Mean	0.28840									

$H = 0.28840$

Reduction to 1895.0 = 11

„ „ sea level = 00

$H = 0.28851$

24. TERADOMARI.

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	Dip.	Observer	Recorder
Aug. 22nd 10h 4.2m	1	51° 34′0	Nakamura	Kimura
„ „ 11 17.2	1	„ 36.0	„	Ōmori
„ „ 11 56.3	—	„ 40.0	Ōmori	Nakamura
„ „ 12 33.9	—	„ 39.4	„	„
„ „ 13 7.1	—	„ 32.9	Kimura	Ōmori
Mean		51° 36′5		

$\theta = 51° \; 36′5$

Reduction to 1895.0 = −1.36

„ „ sea level = 0.00

$\theta = 51° \; 35′1$

HORIZONTAL INTENSITY (H)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 22th 8h 4m	0.29162	470.56	22°1C	5.6113	22°3C	7° 0′14″4	15°54′43″2	21°9C	Kimura	Omori
„ „ 8 53	0.29128	470.31	23.8	5.6163	24.0	7 0 24.4	15 54 55.7	23.5	Ōmori	Kimura
Mean	0.29145									

H= 0.29145

Reduction to 1895.0 = 1034

„ „ sea level = 000

H= 0.29155

25. NIIGATA.

Play ground of Ordinary Normal School (尋常師範學校運動場)

DECLINATION (δ)

Observations of the East Party, 1893.

Dete and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 23th 19h 5m	5° 41′ 57″	Nakamura	Nakamura
„ „ 19 23	„ 41 52	„	„
„ „ 19 50	„ 41 33	„	„
„ „ 20 34	„ 41 37	„	„
„ „ 21 1	„ 42 6	Kimura	Ōmori
„ „ 22 30	„ 42 10	„	„
„ „ 23 59	„ 42 2	Ōmori	Kimura
„ 24th 3 46	„ 43 6	„	„
„ „ 4 50	„ 41 30	Kimura	Ōmori
„ „ 5 58	„ 37 16	Ōmori	Kimura
„ „ 6 59	„ 35 32	„	„
„ „ 8 51	„ 37 5	„	„
„ „ 8 58	„ 39 9	Nakamura	Nakamura
„ „ 9 15	„ 38 21	„	„
„ „ 10 14	„ 38 29	„	„
„ „ 10 37	„ 39 30	„	„
„ „ 11 11	„ 39 17	„	Kimura
„ „ 11 38	„ 40 41	Kimura	Nakamura
„ „ 12 34	„ 39 58	Nakamura	Kimura
„ „ 13 19	„ 38 55	Kimura	Nakamura
„ „ 13 52	„ 39 31	„	Kimura
„ „ 14 24	„ 40 41	Ōmori	Ōmori
„ „ 16 3	„ 43 8	„	Nakamura
„ „ 16 56	„ 40 23	Nakamura	Ōmori
„ „ 17 49	„ 39 57	Ōmori	Nakamura
„ „ 19 3	„ 40 33	„	Ōmori
„ „ 19 55	„ 41 10	„	„
„ „ 20 8	„ 40 11	Kimura	Nakamura
„ 25th 6 11	„ 40 8	„	„
„ „ 7 7	„ 35 48	Nakamura	Kimura
„ „ 7 58	„ 33 30	Kimura	Nakamura
„ „ 8 36	„ 34 55	Nakamura	Kimura
„ „ 9 6	„ 34 51	Kimura	Nakamura
„ „ 10 10	„ 35 6	Ōmori	Ōmori
„ „ 13 39	„ 38 6	„	„
„ „ 14 19	„ 37 53	„	„
„ „ 14 58	„ 37 10	„	„
„ „ 15 52	„ 35 32	Kimura	Nakamura
„ „ 16 39	„ 34 44	„	Kimura
„ „ 18 2	„ 36 47	Nakamura	„
„ „ 18 33	„ 37 46	„	„
Mean	5° 40′ 29″		

δ = 5° 40′48

Reduction to 1895.0 = 2.27

„ „ sea level = 0.00

δ = 5° 42′8

Observations of the South Party, 1895.

Date and Hour. (Mean Local Time.)	δ	Observer	Recorder
Aug. 16th 22h 26.9m	5° 16′ 43″	Nakamura	Sutō
„ „ 22 59.4	„ 17 13	Sutō	„
„ 17th 3 4.7	„ 16 34	„	„
„ „ 3 48.8	„ 16 25	„	„
„ „ 5 7.1	„ 16 13	„	„
„ „ 5 56.7	„ 14 55	„	„
„ „ 6 59.7	„ 13 21	„	„
„ „ 7 58.0	„ 13 11	„	„
„ „ 8 32.1	„ 13 46	Imamura	Imamura
„ „ 9 55.3	„ 16 59	„	Nakamura
„ „ 10 52.9	„ 19 6	Nakamura	„
„ „ 11 39.1	„ 20 13	Imamura	Imamura
„ „ 12 22.1	„ 21 3	„	Nakamura
„ „ 13 27.3	„ 21 0	Nakamura	„
„ „ 14 24.4	„ 20 11	Imamura	Sutō
„ „ 15 19.2	„ 19 27	„	Imamura
„ „ 16 19.7	„ 18 38	Sutō	Sutō
„ „ 17 29.6	„ 17 34	„	„
„ „ 18 17.3	„ 17 16	„	Imamura
„ „ 19 17.8	„ 17 20	Nakamura	Sutō
Mean	5° 17′ 13″		

	δ = 5°	17′22
Reduction to	1895.0 =	−1.04
„ „	sea level =	0.00
	δ = 5°	16′2

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 23th 18h 19.9m	1	51° 51′4	Nakamura	Nakamura
„ „ 20 14.4	1	„ 54.7	„	„
„ 24th	1	„ 51.3	Kimura	Ōmori
„ „ 20 35.0	1	„ 52.8	Ōmori	Nakamura
„ „ 18 32.4	1	„ 53.5	„	Ōmori
„ 25th 16 20.2	1	„ 57.9	Kimura	Nakamura
„ „ 18 19.7	1	„ 48.7	„	Kimura
Mean		51° 52′9		

	θ = 51°	52′9
Reduction to	1895.0 =	−1.36
„ „	sea level =	0.00
	θ = 51°	51′5

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 17th 7h 25m	1	51° 59′4	Sutō	Sutō
„ „ 11 28	1	„ 58.6	Imamura	Imamura
„ „ 13 2	1	„ 55.8	Nakamura	Nakamura
„ „ 17 40	—	„ 58.9	Imamura	„
„ „ 20 44	1	„ 54.1	„	Sutō
Mean		51° 57′0		

	θ = 51°	57′0
Reduction to	1895.0 =	0.62
„ „	sea level =	0.00
	θ = 51°	57′6

HORIZONTAL INTENSITY (H)
(* *Value deduced from Vibration only by assuming Value of M*)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 23rd 22h 15m	0.28831	468.39	26°5C	5.6561 s	26°4C	7° 2′40″7	15°59′56″5	26°6C	Kimura	Ōmori
,, ,, 23 37	0.28853	468.53	26.2	5.6543	26.7	7 2 40.6	15 59 58.5	25.8	Ōmori	Kimura
,, 24th 6 41	0.28841	468.46	26.1	5 6552	26.3	7 2 47.9	16 0 24.6	25.9	Kimura	Ōmori
,, ,, 12 21	0.28854	466.81	30.4	5.6652	31.0	7 1 23.9	15 57 33.3	29.8	,,	Nakamura
,, ,, 13 7	0.28836	467.15	31.1	5.6654	32.0	7 1 27.1	15 56 48.7	30.2	Nakamura	Kimura
,, ,, 16 42	0.28859	469.49	23.6	5.6472	23.7	7 3 13.1	16 0 50.7	23.5	,,	Ōmori
,, ,, 17 33	0.28853	468.75	23.3	5.6518	23.2	7 3 3.8	16 1 16.9	23.3	Ōmori	Nakamura
,, 25th 6 54	0.28824	469.84	22.1	5.6476	21.9	7 3 51.0	16 2 12.5	22.4	Nakamura	Kimura
,, ,, 7 43	0.28848	468.84	22.8	5.6512	22.5	7 3 10.4	16 1 35.6	23.1	Kimura	Nakamura
Mean	0.28844									

H= 0.28844
Reduction to 1895.0= 950
,, ,, sea level= 000
H= 0.28854

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 17th 9h 38m	0.28927	429.92	32°9C	5.9586 s	32°4C	6°33′46″9	14°35′54″4	33°5C	Imamura	Nakamura
,, ,, 12 5	0.28946	429.56	32.1	5.9625	32.9	6 23 51.3	14 36 20.0	31.3	Nakamura	Iamamura
,, ,, 15 0	0.28993	429.33	31.1	6.9590	31.9	6 53 55.0	14 36 30.6	30.4	Sutō	,,
,, ,, 16 20	*0.28944	430.15°	31.2	5.9565	31.2	..	..	..	Imamura	Nakamura
,, ,, 16 39	*0.28906	430.30°	30.7	5.9593	30.7	..	..	..	Nakamura	Imamura
,, ,, 17 11	*0.28979	430.10°	29.8	5.9539	29.8	..	..	..	,,	,,
,, ,, 21 9	0.28936	431.44	26.9	5.9479	26.8	6 25 23.1	14 39 41.9	26.9	,,	Sutō
									,,	Imamura
Mean	0.28947									

H= 0.28947
Reduction to 1895.0= −437
,, ,, sea level— 000
H= 0.28943

26. KAMO.

Seikaizinzya. (西海神社)

DECLINATION (δ)
Observations of the East Party, 1893

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 28th 8h 9m	5° 26′ 23″	Kimura	Kimura
,, ,, 8 57	,, 26 0	Nakamura	Nakamura
,, ,, 9 42	,, 25 30	,,	,,
,, ,, 10 12	,, 26 19	,,	,,
,, ,, 10 39	,, 27 6	,,	,,
,, ,, 11 5	,, 27 22	,,	,,
,, ,, 11 35	,, 27 29	,,	,,
,, ,, 12 5	,, 28 36	,,	,,
,, ,, 12 30	,, 28 30	,,	,,
,, ,, 13 23	,, 30 24	,,	Ōmori
,, ,, 14 11	,, 28 47	Ōmori	Nakamura
,, ,, 14 42	,, 30 31	,,	Ōmori
,, ,, 15 52	,, 30 42	,,	,,
,, ,, 16 37	,, 29 50	,,	,,
,, ,, 17 49	,, 29 42	,,	Nakamura
,, ,, 18 31	,, 29 5	Nakamura	Kimura
Mean	5° 28′ 18″		

δ=5° 28′30
Reduction to 1895.0= 2.10
,, ,, sea level= −0.01
δ=5° 30′4

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 28th 8h 37.0m	1	52′ 3′0	Kimura	Kimura
„ „ 9 26.6	1	„ 2.6	Nakamura	Nakamura
„ „ 11 20.6	1	51 55.2	„	„
„ „ 15 15.5	1	„ 57.8	Ōmori	Ōmori
„ „ 17 14.0	1	„ 59.8	„	Kimura
„ „ 18 53.4	1	„ 55.8	Kimura	Nakamura
Mean		51° 59′0		

$\theta = 51° \ 59′0$

Reduction to 1895.0 = −0.81

„ „ sea level = 0.00

$\theta = 51° \ 58′2$

HORIZONTAL INTENSITY (H)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 28th 6h 33m	0.28986	469.25	21°5C	5.6356	21.5C	7′ 1′25′′0	15°57′11′′5	21.6C	Kimura	Ōmori
„ „ 7 19	0.28997	469.02	23.1	5.6361	23.1	7 1 8.8	15 56 44.2	23.1	Ōmori	Kimura
„ „ 13 12	0.28963	466.75	29.7	5.6549	30.3	6 59 15.7	15 51 46.3	29.1	Nakamura	Ōmori
„ „ 13 58	0.28987	466.68	29.7	5.6518	29.8	6 58 57.5	15 51 32.5	29.7	Ōmori	Nakamura
„ „ 18 23	0.28978	468.26	24.1	5.6426	24.2	7 0 39.1	15 55 28.9	24.1	Nakamura	Kimura
Mean	0.28982									

$H = 0.28982$

Reduction to 1895.0 = 891

„ „ sea level = 132

$H = 0.28992$

27. SIBATA.

Parade ground (練兵場)

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 29th 21h 21m	5° 35′ 2′′	Midzusima	Kimura
„ 23 42	„ 34 59	„	„
„ 30th. 2 9	„ 35 23	Kimuaa	Midzusima
„ „ 3 24	„ 33 59	Midzusima	Kimura
„ „ 4 30	„ 34 41	„	Midzusima
„ „ 5 17	„ 34 17	„	„
„ „ 6 43	„ 34 9	„	„
„ „ 7 25	„ 33 5	Kimura	Kimura
„ „ 8 18	„ 29 51	Nakamura	Ōmori
„ „ 9 9	„ 27 6	„	„
„ „ 10 30	„ 24 33	Ōmori	Nakamura
„ „ 11 2	„ 29 48	Nakamura	„
„ „ 11 28	„ 31 20	„	„
„ „ 11 49	„ 31 15	„	„
„ „ 12 34	„ 31 55	„	„
„ „ 13 3	„ 35 32	„	„
„ „ 13 35	„ 33 29	Ōmori	„
„ „ 14 13	„ 33 14	Nakamura	Ōmori
„ „ 14 49	„ 33 12	Ōmori	Nakamura
„ „ 15 42	„ 33 5	„	„
„ „ 16 32	„ 31 44	„	Ōmori
Mean	5° 32′ 28′′		

$\delta = 5° \ 32′47$

Reduction to 1895.0 = 2.21

„ „ sea level = 0.00

$\delta = 5° \ 34′7$

DIP (θ)
Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 30th 5h 44.6m	1	51° 45′8	Midzusima	Midzusima
„ „ 8 2.7	1	„ 39.6	Kimura	Nakamura
„ „ 14 1.2	2	„ 43.9	Ōmori	„
„ „ 14 32.2	1	„ 42 7	Nakamura	Ōmori
Mean		51° 43′0		

$\theta = 51° 43′0$
Reduction to 1895.0 = −1.07
„ „ sea level = 0.00
$\theta = 51° 41′9$

HORIZONTAL INTENSITY (H)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 30th 1h 43m	0.28955	469.07	20°6C	5.6399	23°7C	7° 2′ 4″4	15°59′ 9″4	20°5C	Kimura	Nakamura
„ „ 8 53	0.28930	466.41	28.4	5.6595	28.8	6 59 56.9	15 54 15.0	28.1	Nakamura	Ōmori
„ „ 10 15	0.28868	466.34	30.2	5.6683	32.5	7 0 26.9	15 54 27.8	31.4	Ōmori	Nakamura
„ „ 15 19	0.28880	466.62	32.1	5.6631	32.4	6 59 23.8	15 50 53.7	32.3	„	„
„ „ 16 12	0.28940	465.60	32.0	5.6623	31.8	6 58 26.3	15 50 14.4	32.2	Nakamura	Ōmori
Mean	0.28915									

$H = 0.28915$
Reduction to 1895.0 = 844
„ „ sea level = 27
$H = 0.28924$

28. EBISU.

Bank of the Lake Kamo. (加茂湖畔)

DECLINATION (δ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 31st 16h 56m	5° 43′ 38″	Kimura	Nakamura
„ „ 17 32	„ 42 48	„	Kimura
„ „ 18 34	„ 43 4	„	„
„ „ 19 35	„ 44 33	„	„
„ „ 23 3	„ 46 7	Midzusima	Nakamura
Sept. 1st 0 10	„ 42 17	Nakamura	„
„ „ 1 12	„ 44 30	„	„
„ „ 1 53	„ 43 12	„	„
„ „ 4 33	„ 45 46	„	„
„ „ 5 5	„ 44 38	„	„
„ „ 6 4	„ 42 9	Midzusima	„
„ „ 6 59	„ 42 0	Nakamura	Midzusima
„ „ 7 45	„ 40 3	Midzusima	Nakamura
„ „ 8 23	„ 39 13	Kimura	Kimura
„ „ 9 23	„ 38 38	„	„
„ „ 10 34	„ 38 29	„	Midzusima
„ „ 11 16	„ 40 37	„	„
„ „ 12 13	„ 42 55	„	Kimura
„ „ 13 6	„ 44 7	Ōmori	Nakamura
„ „ 13 48	„ 44 12	Nakamura	Ōmori
„ „ 14 36	„ 43 8	„	Nakamura
„ „ 15 31	„ 42 17	„	„
„ „ 16 27	„ 42 14	Kimura	Kimura
„ „ 17 25	„ 41 50	„	„
„ „ 18 33	„ 42 9	„	„
Mean	5° 43′ 2″		

$\delta = 5° 43′03$
Reduction to 1895.0 = 2.44
„ „ sea level = 0.00
$\delta = 5° 45′5$

DIP (θ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 31st 17h 13.2m	1	51° 51′3	Midzusima	Kimura
„ „ 19 8.6	1	„ 56.4	Kimura	„
Sept. 1st 6 34.7	1	„ 53.7	Nakamura	Midzusima
„ „ 9 4.3	1	„ 56.5	Kimura	Kimura
„ „ 10 57.3	1	„ 52.0	Midzusima	„
„ „ 12 50.2	1	„ 48.6	Ōmori	Nakamura
„ „ 16 3.6	1	„ 51.7	Nakamura	Kimura
„ „ 16 58.2	1	„ 52.0	Kimura	„
„ „ 18 10.4	1	„ 54.0	„	„
Mean		51° 52′9		

$\theta = 51° 52′9$
Reduction to 1895.0 = −1.88
„ „ sea level = 0.00
$\theta = 51° 51′0$

HORIZONTAL INTENSITY (H)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_2	Mean Deflections φ_1	Temp. t_D	Observer	Rscorder
Aug. 31st 18h 19m	0.29009	467.77	24°2C	s 5.6431	24.8C	6°59′41″0	15°53′ 1″5	24.5C	Midzusima	Kimura
„ „ 23 56	0.29012	467.96	23.3	5.6413	23.4	6 59 56.6	15 53 54.4	23.2	„	Nakamura
Sept. 1st 5 51	0.28989	468.05	29.0	5.6425	21.9	7 0 16.6	15 54 33.7	22.1	Nakamura	Midzusima
„ „ 7 32	0.29000	467.62	23.3	5.6444	23.3	6 59 51.9	15 53 48.8	23.3	Midzusima	Nakamura
„ „ 11 52	0.28966	466.18	29.2	5.6569	29.2	6 58 46.0	15 50 57.8	29.1	Kimura	Midzusima
„ „ 13 39	0.29005	466.26	29.0	5.6532	29.3	6 58 22.8	15 50 7.5	28.7	Nakamura	Ōmori
„ „ 14 22	0.29020	466.48	28.4	5.6503	28.8	6 58 23.8	15 50 11.9	28.1	Ōmori	Nakamura
Mean	0.29000									

$H = 0.29000$
Reduction to 1895.0 = 1166
„ „ sea level = 000
$H = 0.29012$

29. WASIZAKI.

DECLINATION (δ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 2nd 18h 31m	5° 42′ 41″	Ōmori	Kimura
„ „ 19 28	„ 43 20	Midzusima	Ōmori
„ „ 23 40	„ 40 57	Ōmori	„
„ 3rd 0 51	„ 40 53	„	„
„ „ 3 9	„ 42 23	„	„
„ „ 4 32	„ 42 34	„	„
„ „ 5 15	„ 42 17	„	„
„ „ 5 52	„ 40 35	„	„
„ „ 6 38	„ 38 48	„	„
„ „ 7 12	„ 37 37	„	„
„ „ 8 1	„ 36 0	„	Nakamura
„ „ 8 47	„ 36 38	Nakamura	Ōmori
„ „ 9 24	„ 36 59	„	„
„ „ 10 17	„ 38 8	„	„
„ „ 11 9	„ 40 55	„	„
„ „ 12 18	„ 43 7	„	Nakamura
„ „ 13 28	„ 42 19	Ōmori	Ōmori
Mean	5° 41′ 5″		

$\delta = 5° 41′08$
Reduction to 1895.0 = 2.51
„ „ sea level = 0.00
$\delta = 5° 43′3$

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 2rd 18h 16.4m	1	52° 8′1	Midzusima	Nakamura
„ „ 20 13.5	1	„ 12.2	Ōmori	Ōmori
„ „ 20 57.4	1	„ 11.7	„	„
„ 3rd 0 25 4	1	„ 14.6	„	„
„ „ 6 18.4	1	„ 12.2	„	„
„ „ 7 35.9	1	„ 12.5	„	„
„ „ 9 59.1	1	„ 15.3	Nakamura	Nakamura
„ „ 10 46.6	1	„ 10.4	„	„
Mean		52° 12′1		

$\theta = 52°\ 12'1$

Reduction to 1895.0 = −1.99

„ „ sea level = 0.00

$\theta = 52°\ 10'1$

HORIZONTAL INTENSITY (H)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 2nd 19h 18m	0.28791	467.25	24°7C	5.6671 s	24°7C	7° 2′23″4	15°59′23″9	24°7C	Midzusima	Ōmori
„ 3rd 7 35	0.28765	466.01	29.1	5.6776	29.2	7 1 22.8	15 56 47.1	29.0	Nakamura	„
„ „ 13 12	0.28763	465.01	33.2	5.6833	32.8	7 0 4.4	15 53 28.3	33.6	Ōmori	Nakamura
„ „ 17 29	0.28813	466.66	28.7	5.6701	29.4	7 1 19.1	15 56 27.5	28.1	Kimura	Ōmori
„ „ 18 6	0.28791	466.00	27.5	5.4485	27.7	7 1 16.6	15 56 61.	27.3	Ōmor	Kimura
Mean	0.28785									

$H = 0.28785$

Reduction to 1895.0 = 1130

„ „ sea level = 000

$H = 0.28796$

30. AIKAWA.

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 6th 11h 20m	5° 22′ 37″	Nakamura	Nakamura
„ „ 11 37	„ 23 1	„	„
„ „ 12 21	„ 22 24	„	„
„ „ 13 9	„ 22 3	Midzusima	Ōmori
„ „ 14 0	„ 22 3	„	„
„ „ 14 40	„ 22 14	„	„
„ „ 15 25	„ 21 49	„	Midzusima
„ „ 16 2	„ 21 4	„	„
„ „ 26 41	„ 20 26	„	„
„ „ 17 23	„ 20 5	„	„
„ „ 18 12	„ 19 25	„	„
„ „ 18 48	„ 20 1	Nakamura	Ōmori
„ „ 19 40	„ 21 17	„	„
„ „ 22 42	„ 20 6	Midzusima	Nakamura
„ „ 23 37	„ 20 12	„	„
„ 7th 0 39	„ 20 15	Nakamura	„
„ „ 1 40	„ 19 51	Midzusima	Midzusima
„ „ 2 37	„ 19 37	Nakamura	Nakamura
Mean	5° 20′ 7″		

$\delta = 5°\ 20'12$

Reduction to 1895.0 = 2.44

„ „ sea level = −0.01

$\delta = 5°\ 22'6$

DIP (θ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time)	Needle No.	θ	Observer	Recorder
Sept. 6th 8h 0.7m	1	52° 11′3	Midusima	Midzusima
,, ,, 12 51.6	1	,, 11.5	Nakamura	Nakamura
,, ,, 17 4.0	--	,, 11.3	Midusima	Midzusima
,, 7th 2 12.5	1	,, 11.8	,,	Nakamura
Mean		52° 11′5		

	θ = 52°	11′5
Reduction to	1895.0 =	−2.11
,, ,,	sea level =	0.00
	θ = 52°	9′4

HORIZONTAL INTENSITY (H)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time)	H	M	Mean Temp.	Time of 1-Vibn.	Tem t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Sept. 6th 13h 44m	0.28722	465.94	25°6C	5.6836	25°7C	7° 2′37″8	16° 0′17″5	25°7C	Midzusima	Ōmori
,, ,, 14 31	0.28723	466.02	26.4	5.6823	26.9	7 2 32.5	16 0 1.9	26.0	Ōmori	Midzusima
,, ,, 19 29	0.28707	467.22	21.9	5.6759	22.1	7 3 48.2	16 2 47.5	21.8	Nakamura	Ōmori
,, ,, 23 25	0.28788	468.92	19.8	5.6572	19.9	7 4 20.2	16 4 16.5	19.7	Midzusima	Nakamura
,, 7th 0 18	0.28731	467.80	19.6	5.6692	19.5	7 4 10.0	16 3 58.1	19.7	Nakamura	Midzusima
,, ,, 1 28	0.28725	468.18	18.7	5.6678	18.7	7 4 30.0	16 4 40.2	18.7	Midzusima	Nakamura
Mean	0.28734									

	H =	0.28734
Reductions to	1895.0 =	1208
,, ,,	sea level =	67
	H =	0.28747

31. OGI.

DECLINATION (δ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 7th 23h 54m	5° 7′ 3″	Midzusma	Midzusima
,, 8th 0 56	,, 6 25	,,	,,
,, ,, 1 46	,, 6 2	,,	,,
,, ,, 2 43	,, 5 39	,,	,,
,, ,, 3 31	,, 5 14	,,	,,
,, ,, 4 38	,, 4 33	,,	,,
,, ,, 8 4	,, 2 21	,,	,,
,, ,, 9 15	,, 5 26	Ōmori	Ōmori
,, ,, 9 39	,, 5 42	,,	,,
,, ,, 10 52	,, 9 10	,,	Kimura
,, ,, 11 29	,, 10 39	,,	Ōmori
,, ,, 12 21	,, 11 1	,,	,,
,, ,, 13 13	,, 12 16	,,	Nakamura
,, ,, 13 58	,, 12 13	Nakamura	Ōmori
,, ,, 14 49	,, 9 58	,,	Nakamura
,, ,, 15 32	,, 9 28	,,	,,
,, ,, 16 19	,, 7 13	,,	,,
,, ,, 17 3	,, 6 25	,,	,,
,, ,, 17 56	,, 7 40	Kimura	,,
,, ,, 18 43	,, 9 25	,,	,,
,, ,, 19 26	,, 8 51	,,	Midzusima
,, ,, 19 55	,, 8 39	Midzusima	,,
,, ,, 22 25	,, 7 56	Ōmori	Ōmori
,, 9th 0 1	,, 6 38	,,	Midzusima
,, ,, 0 49	,, 6 28	Midzusima	Ōmori
,, ,, 1 48	,, 6 41	Ōmori	,,
,, ,, 2 54	,, 6 21	,,	,,
,, ,, 4 28	,, 3 46	,,	,,
,, ,, 6 13	,, 5 12	,,	Midzusima
,, ,, 6 56	,, 3 21	Midzusima	Ōmori
,, ,, 7 30	,, 2 38	Ōmori	Midzusima
,, ,, 8 3	,, 2 32	Midzusima	Kimura
,, ,, 8 48	,, 3 33	Kimura	Nakamura
Mean	5° 7′ 16″		

	δ = 5°	7′27
Reduction to	1895.0 =	2.37
,, ,,	sea level =	0.00
	δ = 5°	9′6

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 8th 18h 22.8m	2	51° 30′2	Kimura	Nakamura
„ „ 19 15.3	2	„ 23.4	Nakamura	Kimura
„ „ 21 40.4	2	„ 32.3	„	Nakamura, Ōmori
„ „ 23 42.0	2	„ 21.8	Ōmori	Midzusima
„ 9th 0 26.9	2	„ 27.2	Midzusima	Ōmori
„ „ 1 26.4	2	„ 33.3	Ōmori	„
„ „ 5 56.2	2	„ 26.7	„	Midzusima
„ „ 6 37.5	2	„ 26.5	Midzusima	Ōmori
„ „ 7 15.1	2	„ 26.9	Ōmori	Midzusima
„ „ 7 50.2	2	„ 27.4	Midzusima	Ōmori
„ „ 9 15.9	2	„ 28.1	Kimura	Nakamura
„ „ 9 49.6	—	„ 29.6	Nakamura	Kimura
Mean		51° 27′8		

	$\theta = 51°\ 27'8$
Reduction to 1895.0 =	−1.83
„ „ sea level =	0.00
	$\theta = 51°\ 26'0$

HORIZONTAL INTENSITY (H)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 8th 10h 29m	0.29285	464.26	32°0C	s 5.6386	32°3C	6°52′43″7	15°37′18″1	31°3C	Ōmori	Kimura
„ „ 13 47	0.29253	463.87	32.5	5.6415	31.7	6 52 25.0	15 33 32.5	33.2	Nakamura	Ōmori
„ „ 14 29	0.29253	463.82	32.6	5.6428	32.3	6 52 38.1	15 37 16.5	32.9	Ōmori	Nakamura
„ „ 17 44	0.29233	465.89	26.7	5.6336	27.5	6 54 58.4	15 42 18.2	26.0	Kimura	„
„ 9th 8 38	0.29199	465.13	30.2	5.6413	30.7	6 54 21.0	15 40 25.1	29.7	Nakamura	Kimura
Mean	0.29245									

	$H =$ 0.29245
Reduction to 1895.0 =	1195
„ „ sea level =	000
	$H =$ 0.29257

32. ŌZASA.

(字鳴尻ヶ原大字南木山小字三本松)

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 12th 13h 15m	4° 14′ 24″	Midzusima	Ōmori
„ „ 13 56	„ 13 32	„	„
„ „ 14 35	„ 12 9	Nakamura	Midzusima
„ „ 15 15	„ 11 8	„	„
„ „ 15 57	„ 10 33	Ōmori	„
„ „ 16 31	„ 9 38	„	Ōmori, Nakamura
Mean	4° 8′ 40″		

	$\delta = 4°\ 8'67$
Reduction to 1895.0 =	1.70
„ „ sea level =	0.06
	$\delta = 4°\ 10'3$

DIP (θ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 12th 12h 0.8m	2	50° 55′4	Midzusima	Midzusima / Ōmori
,, ,, 12 29.9	2	,, 53.8	Ōmori	Midzusima
,, ,, 14 59.5	2	,, 52.1	Nakamura	Ōmori
,, ,, 16 16.5	2	,, 57.1	Midzusima	Nakamura
Mean		50° 54′6		

$\theta = 50°\ 54'6$
Reduction to 1895.0 = −0.52
,, ,, sea level = −0.05
$\theta = 50°\ 54'0$

HORIZONTAL INTENSITY (H)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 12th 13h 48m	0.29508	466.97	23°1 C	5.6004 s	23°7 C	6°52′ 6″9	15°35′43″0	22°5 C	Nakamura	Ōmori
,, ,, 14 25	0.29472	466.48	22.1	5.6056	22.2	6 52 12.5	15 36 11.2	22.0	Midzusima	Nakamura
,, ,, 15 48	0.29571	468.68	19.9	5.5842	20.6	6 52 51.8	15 37 21.5	19.3	Ōmori	Midzusima
Mean	0.29517									

$H = 0.29517$
Reduction to 1895.0 = 1018
,, ,, sea level = 1170
$H = 0.29539$

33. WAKASARE.

DECLINATION (δ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 12th 21h 0m	3° 46′ 23″	Midzusima	Nakamura
,, ,, 22 56	,, 45 52	Nakamura	Ōmori
,, ,, 23 46	,, 45 24	Ōmori	Nakamura
,, 13th 1 23	,, 45 34	Nakamura	Ōmori
,, ,, 3 37	,, 44 37	,,	,,
Mean	3° 45′ 47″		

$\delta = 3°\ 45'78$
Reduction to 1895.0 = 1.64
,, ,, sea level = −0.10
$\delta = 3°\ 47'3$

DIP (θ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 12th 22h 0.0m	2	50° 5′0	Ōmori	Ōmori
,, ,, 23 23.6	2	49 58.5	Nakamura	,,
,, 13th 0 16.0	2	,, 57.2	,,	,,
,, ,, 0 54.8	2	50 4.8	Ōmori	Nakamura
,, ,, 3 53.5	2	,, 0.3	Midzusima	Midzusima
,, ,, 4 9.8	2	49 57.1	,,	,,
Mean		50° 0′5		

$\theta = 50°\ 0'5$
Reduction to 1895.0 = −0.39
,, ,, sea level = −0.08
$\theta = 50°\ 0'0$

HORIZONTAL INTENSITY (H)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 13th 2h 10m	0.29827	470.24	8°3 C	5.5489 s	8°3 C	6°50′30″0	15°31′39″4	8°4 C	Nakamura	Ōmori
„ „ 3 10	0.29857	470.23	8.4	5.5461	8.4	6 50 16.2	15 31 23.1	8.5	Ōmori	Nakamura
Mean	0.29842									

$H=$ 0.29842
Reduction to 1895.0 = 982
„ „ sea level = 1806
$H=$ 0.29870

34. ASAMA.

DECLINATION (δ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 13th 12h 24m	3° 11′ 30″	Nakamura	Ōmori

$\delta=3°$ 11′50
Reduction to 1895.0 = 1.63
„ „ sea level = −0.17
$\delta=3°$ 13′0

DIP (θ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 21st 12h 22.0m	2	52° 46′7	Midzusima	Ōmori

$\theta=52°$ 46′7
Reduction to 1895.0 = −0.43
„ „ sea level = −0.17
$\theta=52°$ 46′1

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 13th 12h 7.8m	2	50° 45′8	Ōmori	Ōmori
„ „ 13 43.3	2	„ 44.0	Nakamura	Nakamura
Mean		50° 44′9		

$\theta=50°$ 44′9
Reduction to 1895.0 = −0.39
„ „ sea level = −0.17
$\theta=50°$ 44′4

HORIZONTAL INTENSITY (H)
(* *Value deduced from Vibration only by assuming Value of* M)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t	Observer	Recorder
Sept. 13th 14h 55m	*0.30156	469.72	20°2C	5.5373 s	20°2C	(6°47′53″1	15°22′29″0	17°8C)	Ōmori	Nakamura
„ „ 15 40	0.30156	470.05	18.6	5.5353	20.3	6 45 36.9	15 20 16.9	16.9	Nakamura	Ōmori
Mean	0.30156									

$H=$ 0.30156
Reduction to 1895.0 = 1002
„ „ sea level = 3199
$H=$ 0.30198

35. MATUIDA.

DECLINATION (δ)

Observations of the East Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 14th 21h 40m	4° 40′ 59″	Nakamura	Midzusima
,, ,, 22 46	,, 40 26	Midzusima	Kimura
,, 15th 0 30	,, 38 4	,,	Midzusima
,, ,, 3 ?9	,, 37 0	,,	,,
,, ,, 4 37	,, 37 3	,,	,,
,, ,, 5 39	,, 37 13	,,	,,
,, ,, 6 26	,, 36 16	,,	,,
,, ,, 7 20	,, 36 35	,,	,,
,, ,, 7 52	,, 36 38	,,	,,
,, ,, 8 26	,, 36 31	Kimura	Kimura / Nakamura
,, ,, 9 45	,, 38 35	Nakamura	Kimura
,, ,, 10 33	,, 41 15	Kimura	Nakamura
,, ,, 11 36	,, 44 37	,,	Kimura
,, ,, 12 32	,, 45 6	,,	,,
,, ,, 13 22	,, 45 4	,,	,,
,, ,, 14 13	,, 44 25	Nakamura	Nakamura
,, ,, 14 50	,, 43 40	,,	,,
,, ,, 15 31	,, 42 7	Midzusima	Midzusima
,, ,, 16 16	,, 40 39	,,	,,
,, ,, 17 7	,, 40 0	,,	,,
,, ,, 17 48	,, 39 48	,,	,,
,, ,, 19 22	,, 39 53	,,	,,
,, ,, 19 59	,, 39 53	Kimura	Nakamura
Mean.	4° 39′ 37″		

$\delta = 4°\ 39'.62$

Reduction to 1895.0 = 1.59

,, ,, sea level = −0.02

$\delta = 4°\ 41'.2$

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 15th 8h 15.5m	2	50° 1′.5	Midzusima	Midzusima
,, ,, 11 22.3	2	49 57.3	Kimura	Kimura / ,,
,, ,, 13 55.3	2	,, 56.7	,,	Nakamura
,, ,, 14 41.3	2	50 0.2	Nakamura	,,
,, ,, 16 39.8	2	,, 1.2	Midzusima	Midzusima
,, ,, 1? 16.7	2	,, 0.9	,,	,,
,, 16th 0 35.1	2	,, 1.7	Kimura	Kimura.
,, ,, 1 56.0	2	49 58.3	Nakamura	Nakamura.
Mean		49° 59′.7		

$\theta = 49°\ 59'.7$

Reduction to 1895.0 = −0.39

,, ,, sea level = 0.02

$\theta = 49°\ 59'.3$

HORIZONTAL INTENSITY (H)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1 Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp.	Observer	Recorder
Sept. 14th 22h 30m	0.29661	466.37	21°.9C	5.6041 s	22°.3C	6°49′31″.5	15°29′38″.4	21°.6C	Midzusima	Kimura
,, 15th 9 34	0.29607	465.69	21.8	5.6129	21.8	6 49 31.4	15 29 49.6	21.8	Nakamura	,,
,, ,, 10 20	0.29599	464.84	24.5	5.6176	23.9	6 48 46.5	15 28 18.5	25.1	Kimura	Nakamura
,, ,, 15 22	0.29601	464.86	24.5	5.6189	24.7	6 48 43.8	15 27 45.9	24.4	Midzusima	,,
,, ,, 20 51	0.29598	465.84	21.0	5.6133	21.2	6 49 48.1	15 30 20.6	20.8	Kimura	,,
Mean	0.29613									

$H = 0.29613$

Reduction to 1895.0 = 1020

,, ,, sea level = 335

$H = 0.29627$

36. TAKASAKI.

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)				δ			Observer	Recorder
Sept.	16th	15h	53m	4°	54′	7″	Midzusima	Nakamura
,,	,,	16	52	,,	53	20	Nakamura	,,
,,	,,	17	32	,,	53	15	,,	,,
,,	,,	18	24	,,	53	8	,,	Kimura
,,	,,	19	24	,,	52	41	Kimura	Nakamura
,,	,,	20	16	,,	53	14	Nakamura	Kimura
,,	,,	21	3	,,	53	12	Midzusima	Midzusima
,,	,,	22	12	,,	53	3	,,	,,
,,	,,	23	27	,,	53	35	,,	,,
,,	17th	0	40	,,	52	12	,,	,,
,,	,,	1	47	,,	51	47	,,	,,
,,	,,	2	31	,,	51	28	,,	,,
,,	,,	3	39	,,	51	7	,,	,,
,,	,,	4	37	,,	50	27	,,	,,
,,	,,	5	36	,,	50	2	,,	,,
,,	,,	6	18	,,	49	57	,,	,,
,,	,,	7	15	,,	48	52	,,	,,
,,	,,	8	11	,,	50	0	Kimura	Nakamura
,,	,,	8	57	,,	51	18	Nakamura	,,
,,	,,	9	32	,,	52	56	,,	,,
,,	,,	10	22	,,	53	28	,,	,,
,,	,,	11	12	,,	55	23	,,	,,
,,	,,	11	40	,,	56	22	,,	,,
,,	,,	12	38	,,	56	34	Kimura	Kimura
,,	,,	13	22	,,	56	54	Nakamura	,,
,,	,,	14	14	,,	56	42	Kimura	,,
,,	,,	15	21	,,	54	56	,,	,,
,,	,,	16	14	,,	54	5	Midzusima	Midzusima
,,	,,	16	58	,,	53	38	,,	,,
,,	,,	18	10	,,	52	27	,,	,,
,,	,,	19	8	,,	52	34	,,	,,
,,	,,	20	16	,,	52	29	Kimura	Nakamura
,,	,,	21	32	,,	52	25	Nakamura	Kimura
,,	,,	22	22	,,	52	33	,,	Nakamura
,,	,,	23	12	,,	49	48	,,	,,
,,	18th	0	18	,,	52	14	,,	,,
,,	,,	1	17	,,	50	28	,,	,,
,,	,,	2	16	,,	50	13	,,	,,
,,	,,	5	13	,,	50	36	,,	,,
,,	,,	6	9	,,	50	30	Kimura	Kimura
,,	,,	7	15	,,	51	3	,,	,,
,,	,,	8	20	,,	50	23	,,	,,
,,	,,	9	13	,,	50	53	Midzusima	Midzusima
,,	,,	10	13	,,	53	10	,,	,,
,,	,,	11	15	,,	55	43	,,	,,
,,	,,	12	5	,,	54	42	,,	,,
,,	,,	12	50	,,	55	28	,,	,,
,,	,,	13	30	,,	55	41	Kimura	Kimura
,,	,,	14	37	,,	54	25	,,	,,
,,	,,	15	55	,,	54	7	,,	,,
,,	,,	19	24	,,	52	35	Nakamura	Nakamura
,,	,,	20	2	,,	53	35	,,	,,
Mean				4′	52′	34″		

	δ = 4°	52″57
Reduction to	1895.0 =	1.48
,,	,, sea level =	−0.01
	δ = 4°	54″0

DIP (θ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 16th 16h 27.9m	2	50° 9′1	Nakamura	Kimura / Nakamura
„ „ 17 3.6	2	„ 10.8	„	Nakamura
„ 17th 1 28.5	2	„ 7.5	Midzusima	Midzusima
„ „ 5 3.0	2	„ 7.4	„	„
„ „ 7 45.1	2	„ 7.4	„	„
„ „ 10 3.5	2	„ 5.7	Nakamura	Nakamura
„ „ 10 52.3	2	„ 8.7	„	„
„ „ 12 18.2	—	„ 6.7	„	„
„ „ 13 54.4	2	„ 5.2	Kimura	Kimura
„ „ 14 38.8	2	„ 5.7	„	„
„ „ 15 3.3	—	„ 5.2	„	„
„ 18th 13 54.7	2	„ 10.2	„	„
„ „ 14 18.5	2	„ 3.9	„	„
„ „ 15 24.5	—	„ 10.7	„	„
„ „ 18 9.2	2	„ 3.8	Nakamura	Nakamura
„ „ 18 40.7	2	„ 9.4	„	„
Mean		50° 7′3		

$\theta = 50° 7'3$
Reduction to 1895.0 = 0.00
„ „ sea level = −0.01
$\theta = 50° 7'3$

HORIZONTAL INTENSITY (H)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 16th 19h 8m	0.29605	465.44	23°0 C	5.6153 s	23°3 C	6°49′14″0	15°28′51″9	22°7 C	Kimura	Nakamura
„ „ 20 5	0.29579	465.67	22.0	5.6161	22.4	6 49 39.3	15 29 35.0	21.7	Nakamura	Kimura
„ 17th 3 24	0.29577	466.77	20.6	5.6103	21.1	6 49 47.5	15 30 18.5	20.0	Midzusima	Midzusima
„ „ 8 45	0.29590	467.15	19.2	5.6083	19.4	6 50 50.4	15 32 19.1	19.0	Kimura	Nakamura
„ „ 13 12	0.29591	465.88	21.3	5.6131	21.3	6 49 39.0	15 29 41.0	21.4	Nakamura	Kimura
„ „ 16 52	0.29642	466.35	20.0	5.6083	20.2	6 49 40.3	15 30 3.4	19.7	Midzusima	Midzusima
„ 18th 11 1	0.29576	465.91	26.2	5.6153	21.7	6 50 21.3	15 31 46.9	20.8	„	„
Mean	0.29594									

$H = 0.29594$
Reduction to 1895.0 = 826
„ „ sea level = 123
$H = 0.29604$

37. NUMATA.

(天王社内)

DECLINATION (δ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 19th 22h 43m	4° 34′ 27″	Nakamura	Nakamura
„ „ 23 8	„ 34 7	„	„
„ „ 23 58	„ 33 9	„	„
„ 20th 1 16	„ 32 39	„	„
„ „ 2 13	„ 31 46	„	„
„ „ 3 34	„ 30 58	„	„
„ „ 5 10	„ 30 21	„	„
„ „ 6 20	„ 30 32	„	„
„ „ 7 9	„ 30 10	„	„
„ „ 8 9	„ 29 33	Kimura	„
„ „ 9 32	„ 30 20	„	Kimura
„ „ 10 38	„ 32 41	„	„
„ „ 11 26	„ 34 8	Midzusima	Midzusima
„ „ 12 15	„ 35 7	„	„
„ „ 12 58	„ 34 47	„	„
„ „ 13 40	„ 34 9	„	Kimura
„ „ 14 40	„ 33 8	Kimura	„
„ „ 15 47	„ 31 1	Nakamura	„
„ „ 16 33	„ 30 9	Kimura	Nakamura
„ „ 17 48	„ 28 26	Nakamura	„
Mean	4° 31′ 59″		

$\delta = 4° 31'98$
Reduction to 1895.0 = 1.62
„ „ sea level = −0.03
$\delta = 4° 33'3$

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)			δ			Observer	Recorder
June.	29th	21h 22.0m	4°	49′	6″	Nakamura	Tamaru
,,	,,	22 22.2	,,	49	10	,,	Imamura
,,	,,	23 22.6	,,	48	9	,,	Nakamura
,,	30th	2 46.6	,,	46	43	,,	,,
,,	,,	4 58.7	,,	47	5	,,	,,
,,	,,	6 6.8	,,	46	35	,,	,,
,,	,,	6 54.4	,,	46	32	,,	,,
,,	,,	7 57.2	,,	45	10	Tamaru	Imamura
,,	,,	9 21.4	,,	47	29	,,	,,
,,	,,	10 21.8	,,	48	58	Imamura	Tamaru
,,	,,	11 28.4	,,	54	0	,,	Imamura
,,	,,	11 42.1	,,	54	26	,,	,,
,,	,,	12 0.3	,,	51	53	,,	,,
,,	,,	12 10.3	,,	52	3	,,	,,
,,	,,	13 8.4	,,	52	21	Nakamura	Nakamura
,,	,,	14 13.3	,,	52	34	Tamaru	Imamura
,,	,,	15 10.5	,,	53	3	Imamura	,,
,,	,,	15 28.1	,,	52	24	,,	Tamaru
,,	,,	15 52.1	,,	51	39	Tamaru	,,
,,	,,	16 56.7	,,	50	41	,,	Imamura
,,	,,	17 46.1	,,	50	59	Imamura	,,
,,	,,	18 49.7	,,	50	42	Nakamura	Nakamura
,,	,,	20 18.9	,,	49	14	Tamaru	Imamura
July.	1st	0 49.7	,,	47	53	Imamura	,,
Mean			4°	49′	4″		

$\delta = 4^\circ\ 49'.07$

Reduction to 1895.0 = −0.62

,, ,, sea level = −0.03

$\delta = 4^\circ\ 48'.4$

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)			Needle No.	θ		Observer	Recorder
Sept.	19th	21h 52.6m	2	50°	21′.9	Midzusima	Midzusima
,,	20th	5 57.6	2	,,	25.2	Nakamura	Nakamura
,,	,,	6 51.0	2	,,	24.4	,,	,,
,,	,,	13 21.2	2	,,	25.8	Midzusima	Midzusima, Kimura
,,	,,	14 19.5	2	,,	26.8	Kimura	Kimura
,,	,,	17 5.4	2	,,	22.2	,,	Nakamura
,,	,,	17 32.4	2	,,	26.7	Nakamura	Kimura
Mean				50°	24′.7		

$\theta = 50^\circ\ 24'.7$

Reduction to 1895.0 = −0.25

,, ,, sea level = −0.03

$\theta = 50^\circ\ 24'.4$

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)			Needle No.	θ		Observer	Recorder
June.	30th	5h 38m	1	50°	12′.7	Nakamura	Nakamura
,,	,,	9 59	1	,,	13.7	Imamura	Tamaru
,,	,,	13 47	1	,,	13.9	Nakamura	Nakamura, Imamura
July.	1st	1 39	1	,,	16.2	Imamura	,,
Mean				50°	14′.1		

$\theta = 50^\circ\ 14'.1$

Reduction to 1895.0 = 0.10

,, ,, sea level = −0.03

$\theta = 50^\circ\ 14'.2$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M*)

Observations of the South Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t	Observer	Recorder
				s						
Sept. 20th 1h 1m	0.29399	465.43	23°2C	5.6314	21°8C	6°51′44″1	15°31′56″5	24°8C	Nakamura	Nakamura
,, ,, 11 16	0.29385	466.20	20.9	5.6308	20.9	6 52 33.9	15 35 58.4	20.9	Midzusima	Kimura
,, ,, 15 34	*0.29387	465.50	20.8	5.6287	20.8	(6 53 49.0	15 37 53.6	20.0)	Nakamura	,,
Mean	0.29390									

H = 0.29390

Reduction to 1895.0 = 834

,, ,, sea level = 546

H = 0.29404

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
June 29th 22h 56m	0.29480	436.27	21°1C	5.8604	21°3C	6°22′44″4	14 33′33″8	20°8C	Imamura	Nakamura
,, 30th 8 59	0.29463	436.89	19.4	5.8573	19.4	6 23 13.8	14 31 21.3	19.4	Tamaru	Imamura
,, ,, 12 53	0.29475	435.12	22.8	5.8681	22.8	6 21 47.5	14 31 34.4	22.8	Imamura	Nakamura
,, ,, 16 25	0.29482	436.32	20.6	5.8591	20.5	6 22 30.6	14 32 48.8	20.6	,,	Tamaru
,, ,, 19 34	0.29500	436.62	19.1	5.8559	19.2	6 23 3.8	14 34 45.0	18.9	Tamaru	Nakamura
Mean	0.29480									

H = 0.29480

Reduction to 1895.0 = −320

,, ,, sea level = 546

H = 0.29482

38. KUMAGAI.

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 21st 18h 40m	4° 19′ 26″	Nakamura	Kimura
,, ,, 20 7	,, 18 20	Kimura	Nakamura
,, ,, 20 54	,, 18 53	Nakamura	Kimura
,, ,, 23 37	,, 16 16	Midzusima	Midzusima
,, 22nd 0 31	,, 16 38	,,	,,
,, ,, 1 26	,, 16 32	,,	,,
,, ,, 2 56	,, 16 1	,,	,,
,, ,, 4 18	,, 15 15	,,	,,
,, ,, 5 50	,, 14 0	,,	,,
,, ,, 6 55	,, 13 35	,,	,,
,, ,, 7 41	,, 13 0	,,	,,
,, ,, 8 29	,, 13 32	,,	,,
,, ,, 9 42	,, 15 41	Kimura	Nakamura
,, ,, 10 21	,, 17 43	Nakamura	Kimura
,, ,, 11 19	,, 20 38	,,	Nakamura
,, ,, 12 8	,, 22 0	,,	,,
,, ,, 12 49	,, 24 8	,,	,,
,, ,, 13 44	,, 25 37	,,	,,
,, ,, 14 52	,, 24 1	Kimura	Kimura
,, ,, 15 49	,, 22 28	,,	,,
,, ,, 16 44	,, 21 18	Midzusima	Midzusima
,, ,, 17 23	,, 21 0	,,	,,
,, ,, 18 13	,, 20 33	,,	Kimura, Nakamura
,, ,, 18 54	,, 21 10	Kimura	,,
,, ,, 20 12	,, 19 18	Nakamura	Kimura
,, ,, 21 31	,, 19 23	Midzusima, Kimura	Nakamura
Mean	4° 18′ 7″		

δ = 4° 18′12

Reduction to 1895.0 = 1.37

,, ,, sea level = 0.60

δ = 4° 19′5

DIP (θ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	Dip	Observer	Recorder
Sept. 22nd 8h 8.6m	2	49° 57′9	Midzusima	Midzusima
,, ,, 10 54.2	2	50 0.0	Kimura	Kimura, Nakamura
,, ,, 11 49.1	2	,, 0.8	Nakamura	,,
,, ,, 12 33.3	2	49 57.6	,,	,,
,, ,, 15 27.2	—	,, 55.6	Kimura	Kimura
,, ,, 17 44.1	2	,, 57.8	Midzusima	Midzusima
,, ,, 19 29.4	2	50 2.2	Nakamura	Kimura
,, ,, 21 17.4	2	49 53.2	Kimura	Nakamura
Mean		49° 58′1		

$\theta = 49°\ 58'1$
Reduction to 1895.0 = 0.26
,, ,, sea level = 0.00
$\theta = 49°\ 58'4$

HORIZONTAL INTENSITY (H)
(* *Value deduced from Vibration only by Assuming Value of M*)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 21st 19h 47m	*0.29573	466.46	22°1C	s 5.6112	22°1C	(6°48′45″6	15°29′ 4″5	22°4C)	Kimura	Nakamura
,, ,, 20 38	0.29564	466.46	22.3	5.6123	22.3	6 50 39.0	15 32 8.1	22.3	Nakamura	Kimura
,, 22nd 9 26	0.29520	466.48	21.0	5 6166	21.2	6 50 43.2	15 31 24.0	20.8	Kimura	Nakamura
,, ,, 10 13	0.29563	465.46	22.0	5.6181	22.0	6 50 1.0	15 31 9.8	22.0	Nakamura	Kimura
,, ,, 13 33	*0.29551	464.83	25.6	5.6236	25.6	(6 53 38.1	15 35 32.5	25.5)	,,	Nakamura
,, ,, 14 32	*0.29530	464.64	26.2	5.6289	26.2	(6 47 5.1	15 34 41.6	25.7)	Kimura	,,
,, ,, 16 25	*0.29555	465.29	24.0	5.6202	24.0	(6 50 25.6	15 30 4.2	23.6)	Midzusima	Kimura
,, ,, 18 44	0.29524	466.29	22.2	5.6171	22.3	6 49 56.4	15 28 47.0	22.2	,,	Nakamura
,, ,, 20 53	0.29576	465.52	21.7	5.6167	21.8	6 49 27.5	15 29 7.2	21.7	Nakamura	Midzusima
Mean	0.29551									

$H = 0.29551$
Reduction to 1895.0 = 754
,, ,, sea level = 38
$H = 0.29559$

39. ODAWARA.

Common School. (小學校)

DECLINATION (δ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 26th 12h 18m	4° 37′ 56″	Midzusima	Kimura, Midzusima
,, ,, 13 51	,, 39 53	,,	,,
,, ,, 14 34	,, 38 15	,,	,,
,, ,, 15 20	,, 36 42	,,	,,
,, ,, 16 28	,, 34 57	,,	,,
,, ,, 17 15	,, 34 51	,,	,,
,, ,, 18 12	,, 34 44	,,	,,
,, ,, 19 18	,, 34 7	,,	,,
,, ,, 20 9	,, 34 38	Kimura	Nakamura
,, ,, 21 17	,, 32 21	Nakamura	Kimura
,, ,, 22 34	,, 31 52	,,	Nakamura
,, 27th 1 8	,, 31 51	Kimura	Kimura
,, ,, 2 22	,, 32 49	,,	,,
,, ,, 3 36	,, 28 52	Nakamura	Nakamura
,, ,, 4 17	,, 29 55	,,	,,
,, ,, 5 19	,, 31 32	,,	,,
,, ,, 5 43	,, 31 19	,,	,,
,, ,, 6 27	,, 30 58	,,	,,
,, ,, 7 56	,, 30 34	Kimura	,,
,, ,, 9 3	,, 33 52	Midzusima	Midzusima
,, ,, 9 47	,, 35 48	,,	,,
,, ,, 10 44	,, 35 55	,,	,,
,, ,, 11 39	,, 37 40	,,	,,
,, ,, 12 23	,, 39 7	,,	,,
,, ,, 13 28	,, 38 45	Kimura	Nakamura
,, ,, 15 4	,, 35 52	Nakamura	,,
,, ,, 15 38	,, 35 32	,,	,,
,, ,, 16 28	,, 33 0	,,	,,

To be Continued.

Continued

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 27th 17h 53m	4° 34′ 14″	Nakamura	Kimura
,, ,, 18 18	,, 34 54	,,	,,
,, ,, 19 6	,, 33 22	Kimura	Nakamura
,, ,, 19 54	,, 32 57	Midzusima	Midzusima
,, ,, 20 50	,, 32 12	,,	,,
,, ,, 21 43	,, 32 27	,,	,,
,, ,, 22 33	,, 32 49	,,	,,
,, ,, 23 29	,, 32 16	,,	,,
,, 28th 2 57	,, 30 24	,,	,,
,, ,, 3 45	,, 31 33	,,	,,
,, ,, 5 20	,, 31 44	,,	,,
,, ,, 6 40	,, 30 39	,,	,,
Mean	4° 33′ 35″		

	δ = 4°	33′58
Reduction to	1895.0 =	1.00
,, ,,	sea level =	0.00
	δ = 4°	34′6

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 26th 14h 56.0m	2	49° 4′8	Midzusima	Midzusima
,, ,, 23 35.8	2	,, 9.6	Kimura	Kimura
,, 27th 1 42.1	—	,, 8.0	,,	,,
,, ,, 2 23.6	2	,, 11.4	,,	,,
,, ,, 4 54.0	2	,, 7.0	Nakamura	Nakamura
,, ,, 8 38.4	2	,, 8.8	Midzusima	Midzusima
,, ,, 11 58.9	2	,, 7.6	,,	,,
,, ,, 15 59.4	2	,, 7.9	Nakamura	Nakamura
Mean		49° 8′1		

	θ = 49°	8′1
Reduction to	1895.0 =	1.01
,, ,,	sea level =	0.00
	θ = 49°	9′1

HORIZONTAL INTENSITY (*H*)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Sept. 26th 16h 17m	0.30268	463.31	26°9C	5.5665	27°4C	6°38′33″0	15° 4′28″1	26°4C	Midzusima	Midzusima
,, ,, 17 56	0.30221	464.36	24.7	5.5636	24.8	6 39 47.1	15 6 56.0	24.5	,,	,,
,, 27th 7 30	0.30208	465.52	20.9	5.5581	21.2	6 40 59.6	15 9 35.4	20.6	Nakamura	Kimura
,, ,, 14 6	0.30168	464.18	24.2	5.5697	24.4	6 40 25.0	15 8 28.7	24.0	Kimura	Nakamura
,, ,, 17 10	0.30169	464.39	23.1	5.5680	23.2	6 40 38.7	15 9 8.1	23.1	Nakamura	Kimura
,, 28th 7 25	0.30229	463.38	27.5	5.5676	27.1	6 38 49.6	15 5 5.3	27.9	Midzusima	Midzusima
Mean	0.30210									

	H =	0.30210
Reduction to	1895.0 =	720
,, ,,	sea level =	000
	H =	0.30217

40. ATAMI.

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 2nd 13h 49m	4° 30′ 28″	Kimura	Kimura
,, ,, 14 39	,, 28 59	,,	,,
,, ,, 15 53	,, 26 4	,,	,,
,, ,, 16 46	,, 25 18	,,	,,
,, ,, 17 19	,, 25 11	Nakamura	,,
,, ,, 18 6	,, 23 53	,,	,,
,, ,, 19 7	,, 24 30	Kimura	Nakamura
,, ,, 20 26	,, 23 21	Midzusima	Midzusima / Kimura
,, ,, 23 7	,, 25 34	,,	Midzusima
,, 3rd 0 6	,, 24 51	,,	,,
,, ,, 1 8	,, 23 57	,,	,,
,, ,, 2 13	,, 23 37	,,	,,
,, ,, 3 23	,, 24 1	,,	,,
,, ,, 4 28	,, 24 29	,,	,,
,, ,, 5 40	,, 23 55	,,	,,
,, ,, 6 48	,, 26 44	,,	,,
,, ,, 7 31	,, 25 32	,,	,,
,, ,, 8 33	,, 27 3	Nakamura	Kimura
,, ,, 9 29	,, 28 10	Kimura	Nakamura
,, ,, 10 9	,, 28 39	Nakamura	,,
,, ,, 11 3	,, 28 49	,,	,,
,, ,, 11 41	,, 30 2	,,	,,
,, ,, 12 15	,, 30 25	,,	,,
,, ,, 12 55	,, 29 29	,,	,,
,, ,, 13 42	,, 28 32	Kimura	Kimura
,, ,, 14 30	,, 28 23	Nakamura	,,
,, ,, 15 41	,, 27 17	,,	Midzusima
,, ,, 16 27	,, 26 6	Midzusima	Kimura
Mean	4° 25′ 46″		

$\delta = 4°\ 25'.77$

Reduction to 1895.0 = 0.95

,, ,, sea level = 0.00

$\delta = 4°\ 26'.7$

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Oct. 2nd 15h 4.0m	2	48° 54.6	Kimura	Kimura
,, ,, 15 33.3	2	,, 58.1	,,	,,
,, ,, 16 30.7	2	,, 55.1	,,	,,
,, 3rd 10 44.7	2	,, 56.0	Nakamura	Nakamura
,, ,, 11 23.0	2	,, 58.2	,,	,,
,, ,, 12 34.8	2	,, 56.4	,,	,,
,, ,, 14 12.8	2	,, 58.5	Kimura	Nakamura
,, ,, 15 26.1	2	,, 57.4	,,	Midzusima
,, ,, 15 55.3	—	,, 55.5	Midzusima	Kimura
,, ,, 16 13.8	2	,, 59.6	,,	,,
Mean		48° 56.9		

$\theta = 48°\ 56'.9$

Reduction to 1895.0 = 1.00

,, ,, sea level = 0.01

$\theta = 48°\ 57'.9$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_0	Observer	Recorder
Oct. 2nd 11h 10m	0.29384	463.75	26.7C	5.6459	26.6C	6°50′23″.4	15°31′12″.5	26.8C	Midzusima	Nakamura / Kimura
,, ,, 18 57	0.29354	464.44	23.4	5.6447	23.8	6 51 53.0	15 35 1.0	23.1	Nakamura	Kimura
,, ,, 21 8	0.29371	464.57	22.8	5.6428	23.2	6 51 46.4	15 34 48.4	22.5	Kimura	Nakamura
,, 3rd 3 6	0.29376	464.62	21.7	5.6412	21.7	6 51 59.9	15 35 51.4	21.8	Midzusima	Midzusima
,, ,, 9 11	0.29292	464.87	21.3	5.6455	21.0	6 52 52.2	15 37 8.5	21.7	Kimura	Nakamura
,, ,, 9 57	0.29325	465.13	22.5	5.6429	22.1	6 52 27.7	15 36 5.0	23.0	Nakamura	Kimura
,, ,, 15 2	0.29318	464.79	20.7	5.6455	20.6	6 52 56.6	15 37 59.4	20.9	Kimura	Nakamura
Mean	0.29346									

$H = 0.29346$

Reduction to 1895.0 = .725

,, ,, sea level = .000

$H = 0.29353$

41. SIMODA.

DECLINATION (δ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 7th 11h 26m	3° 48′ 21″	Kimura	Nakamura
,, ,, 12 9	,, 49 25	Midzusima	,,
,, ,, 12 54	,, 49 10	Nakamura	Midzusima
,, ,, 14 12	,, 47 53	Kimura	Kimura
,, ,, 15 17	,, 45 22	,,	,,
,, ,, 16 9	,, 45 8	Midzusima	,,
,, ,, 17 0	,, 44 59	Kimura	,,
,, ,, 17 41	,, 43 54	Midzusima	Midzusima
,, ,, 18 8	,, 42 16	,,	,,
,, ,, 23 0	,, 39 14	Nakamura	Nakamura
,, ,, 23 51	,, 39 4	,,	,,
,, 8th 0 52	,, 38 40	,,	,,
,, ,, 2 32	,, 38 7	,,	,,
,, ,, 3 54	,, 38 58	,,	,,
,, ,, 5 5	,, 37 42	,,	,,
,, ,, 5 49	,, 37 39	,,	,,
,, ,, 6 39	,, 37 30	Nakamura	Nakamura
,, ,, 7 55	,, 38 24	,,	,,
,, ,, 8 47	,, 42 16	Midzusima	Midzusima
,, ,, 9 47	,, 42 8	,,	,,
,, ,, 10 50	,, 44 15	Kimura	Kimura
,, ,, 11 39	,, 45 52	Midzusima	,,
,, ,, 12 30	,, 46 59	,,	,,
,, ,, 13 39	,, 47 6	Nakamura	Nakamura
,, ,, 14 34	,, 45 36	,,	,,
,, ,, 15 7	,, 44 51	Midzusima	,,
Mean	3° 41′ 33″		

$\delta = 3°\ 41'55$
Reduction to 1895.0 = 0.79
,, ,, sea level = 0.00
$\delta = 3°\ 42'3$

DIP (θ)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Oct. 7th 11h 11.1m	1	47° 54′6	Midzusima	Nakamura
,, ,, 13 47.2	1	,, 49.4	Kimura	Kimura
,, ,, 14 56.3	1	,, 52.8	,,	,,
,, ,, 18 0.5	1	,, 53.8	Midzusima	Midzusima
,, 8th 0 20.3	1	,, 52.8	Nakamura	Nakamura
,, ,, 6 21.2	1	,, 48.3	,,	,,
,, ,, 7 33.5	1	,, 52.8	,,	,,
,, ,, 11 54.1	1	,, 52.3	Midzusima	Kimura
,, ,, 12 14.7	1	,, 52.0	,,	,,
Mean		47° 52′1		

$\theta = 47°\ 52'1$
Reduction to 1895.0 = 1.23
,, ,, sea level = 0.00
$\theta = 47°\ 53'3$

HORIZONTAL INTENSITY (H)
Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections. φ_1	Mean Deflections. φ_2	Temp. t_D	Observer	Recorder
Oct. 7th 12h 1m	0.30185	464.70	22°0C	5.5638	22°1C	6°40′39″6	15° 9′ 5″0	21°9C	Nakamura	Midzusima
,, ,, 12 44	0.30170	464.51	22.2	5.5664	22.2	6 40 33.5	15 8 40.2	22.3	Midzusima	Nakamura
,, ,, 16 46	0.30182	464.30	21.7	5.5673	22.3	6 40 40.0	15 9 19.5	21.3	Kimura	Midzusima
,, 8th 9 29	0.30176	465.40	19.2	5.5611	19.4	6 41 21.5	15 10 26.3	19.0	Midzusima	,,
,, ,, 10 33	0.30183	464.68	23.0	5.5640	23.0	6 40 25.6	15 8 14.0	23.1	Kimura	,,
Mean	0.30179									

$H = 0.30179$
Reduction to 1895.0 = 742
,, ,, sea level = 000
$H = 0.30186$

42. MATUZAKI.

DECLINATION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)				δ			Observer	Recorder
Oct.	11th	9h	50m	4°	24′	1″	Midzusima	Midzusima
,,	,,	10	43	,,	25	35	Kimur	,,
,,	,,	11	19	,,	26	34	Midzusima	Kimura
,,	,,	11	52	,,	26	40	,,	Midzusima
,,	,,	12	34	,,	26	47	Kimura	Kimura
,,	,,	13	25	,,	26	51	,,	,,
,,	,,	14	24	,,	26	1	,,	,,
,,	,,	15	27	,,	24	49	,,	,,
,,	,,	16	26	,,	24	51	Midzusima	,,
,,	,,	17	11	,,	24	2	,,	Midzusima
,,	,,	18	1	,,	22	50	,,	,,
,,	,,	19	14	,,	22	46	,,	Kimura
,,	,,	21	28	,,	22	53	Kimura	,,
,,	,,	22	24	,,	21	39	Midzusima	Midzusima
,,	,,	23	37	,,	21	14	,,	,,
,,	12th	0	53	,,	20	1	,,	,,
,,	,,	1	40	,,	24	3	,,	,,
,,	,,	2	38	,,	21	15	,,	,,
,,	,,	7	15	,,	17	12	Kimura	Kimura
,,	,,	8	20	,,	19	4	Midzusima	,,
,,	,,	9	17	,,	20	56	Kimura	,,
,,	,,	10	18	,,	20	20	,,	,,
,,	,,	10	59	,,	22	0	,,	,,
,,	,,	11	33	,,	21	42	,,	,,
,,	,,	12	0	,,	25	2	Midzusima	,,
Mean				4°	22′	14″		

δ = 4° 22′.23
Reduction to 1895.0 = 0.83
,, ,, sea level = 0.00
δ = 4° 23′.1

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)				Needle No.	θ		Observer	Recorder
Oct.	11th	13h	54.5m	—	48°	12′.8	Kimura	Kimura
,,	,,	14	50.5	—	,,	11.4	,,	,,
,,	,,	15	28.1	2	,,	10.2	,,	Midzusima
,,	,,	16	48.7	2	,,	10.2	Midzusima	,,
,,	,,	17	28.5	—	,,	12.4	,,	,,
,,	12th	8	58.1	—	,,	9.9	Kimura	Kimura
,,	,,	9	51.1	—	,,	9.4	,,	,,
Mean					51°	19′.0		

θ = 48° 10′.9
Reduction to 1895.0 = 1.10
,, ,, sea level = 0.00
θ = 48° 12′.0

HORIZONTAL INTENSITY (*H*)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)				*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
							s						
Oct.	11th	10h	31m	0.30145	463.36	25°.5 C	5.5768	26.0 C	6°40′ 6″.8	15° 7′52″.5	25°.0 C	Kimura	Midzusima
,,	,,	11	11	0.30140	463.61	25.8	5.5767	27.0	6 40 27.8	15 8 31.5	24.7	Midzusima	Kimura
,,	,,	15	19	0.30113	462.95	25.4	5.5829	26.1	6 40 10.0	15 7 53.0	24.8	Kimura	Midzusima
,,	12th	2	24	0.30152	466.19	16.8	5.5585	16.9	6 42 23.7	15 12 56.6	16.8	M dzusima	,,
,,	,,	8	11	0.30153	464.93	21.7	5.5661	21.8	6 41 6.2	15 9 50.7	21.7	,,	Kimura
Mean				0.30141									

H = 0.30141
Reduction to 1895.0 = 760
,, ,, sea level = 000
H = 0.30149

43. HUDISAWA.

DELECTION (δ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Times.)	δ	Observer	Recorder
Oct. 17th 17h 58m	4° 32′ 24″	Midzusima	Kimura
„ „ 18 48	„ 30 57	Kimura	„
„ „ 20 10	„ 30 54	„	„
„ „ 21 11	„ 31 34	Midzusima	Midzusima
„ „ 21 35	„ 31 55	„	„
„ „ 22 25	„ 30 43	„	„
„ „ 23 19	„ 30 41	„	„
„ „ 23 55	„ 30 32	„	„
„ 18th 0 53	„ 31 40	„	„
„ „ 2 0	„ 33 13	„	„
„ „ 2 44	„ 32 14	„	„
„ „ 3 56	„ 32 17	„	„
„ „ 5 25	„ 30 52	„	„
„ „ 6 16	„ 30 38	„	Kimura
„ „ 7 18	„ 30 42	Kimura	Midzusima
„ „ 7 48	„ 30 40	„	Kimura
„ „ 9 0	„ 30 4	„	„
„ „ 9 55	„ 33 4	„	„
„ „ 10 54	„ 35 22	„	„
„ „ 11 57	„ 37 51	Midzusima	„
„ „ 12 42	„ 37 42	„	„
„ „ 13 35	„ 38 55	„	Midzusima
„ „ 14 19	„ 38 43	„	„
„ „ 15 9	„ 35 56	„	„
„ „ 15 50	„ 34 36	„	„
„ „ 16 45	„ 35 4	„	„
„ „ 17 59	„ 34 0	„	„
„ „ 18 27	„ 33 40	Kimura	Kimura
„ „ 19 31	„ 33 26	„	„
Mean	4° 32′ 54″		

	δ = 4°	32′90
Reduction to	1895.0 =	0.96
„ „	sea level =	0.00
	δ = 4°	33′9

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Oct. 17th 22h 53.8m	2	49° 2′1	Midzusima	Midzusima
„ 18th 10 35.2	—	„ 0.5	Kimura	Kimura
„ „ 11 39.5	2	„ 1.7	„ Midzusima	„ Midzusima
„ „ 13 10.5	2	„ 1.9	„	„
„ „ 14 41.0	2	„ 1.2	„	„
Mean		49° 1′5		

	θ = 49°	1′5
Reduction to	1895.0 =	1.09
„ „	sea level =	0.00
	θ = 49°	2′6

HORIZONTAL INTENSITY (H)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflection φ_1	Mean Deflection φ_2	Temp. t_D	Observer	Recorder
				s						
Oct. 18th 3h 39m	0.29645	464.60	19°8C	5.6157	19°9C	6°48′12″6	15°26′54″4	19°8C	Midzusima	Midzusima
„ „ 7 7	0.29632	465.43	19.2	5.6123	19.5	6 48 51.6	15 27 56.9	19.0	Kimura	„
„ „ 8 48	0.29589	464.44	22.0	5.6220	22.0	6 48 19.9	15 26 29.5	22.0	„	Kimura
„ „ 12 35	0.29613	462.63	26.2	5.6312	26.5	6 46 37.7	15 22 59.0	26.0	Midzusima	„
„ „ 16 34	0.29608	463.51	23.3	5.6267	23.8	6 47 31.9	15 24 57.3	22.9	„	Midzusima
Mean	0.29617									

	H=	0.29617
Reduction to	1895.0=	603
„ „	sea lavel=	000
	H=	0.2962

44. ŌTU.

DECLINATION (δ)

Observations of the East Party, 1895.

Date and Hour. (Mean Local Time.)	δ	Observer	Recorder
Oct. 22nd 8h 16m	4° 12′ 55″	Midzusima	Kimura
„ „ 9 0	„ 14 27	„	„
„ „ 9 37	„ 15 7	Kimura	Midzusima
„ „ 10 25	„ 16 59	Midzusima	Kimura
„ „ 11 24	„ 19 55	Kimura	Midzusima
„ „ 12 15	„ 21 36	Midzusima	Kimura
„ „ 13 2	„ 22 48	Kimura	„
„ „ 14 17	„ 22 30	„	„
„ „ 15 9	„ 21 21	Midzusima	„
„ „ 16 11	„ 19 31	Kimura	„
„ „ 17 13	„ 17 58	„	„
„ „ 18 12	„ 17 13	Midzusima	„
„ „ 19 16	„ 15 42	„	„
„ „ 20 9	„ 17 23	Kimura	Midzusima
„ „ 21 26	„ 15 53	Midzusima	Kimura
„ „ 22 21	„ 16 1	„	„
„ „ 23 25	„ 15 58	Kimura	„
„ 23rd 0 42	„ 15 17	„	„
„ „ 2 44	„ 15 35	„	„
„ „ 5 7	„ 15 25	„	„
„ „ 6 11	„ 15 28	Midzusima	„
„ „ 7 15	„ 13 29	„	Midzusima
„ „ 8 12	„ 11 56	„	„
„ „ 9 6	„ 12 8	„	„
„ „ 9 55	„ 14 20	„	„
„ „ 10 54	„ 18 5	„	„
„ „ 11 53	„ 21 37	„	„
„ „ 12 42	„ 23 6	„	„
„ „ 13 32	„ 22 1	Kimura	„
„ „ 14 25	„ 20 27	Midzusima	Kimura
„ „ 15 23	„ 19 20	„	Midzusima
„ „ 16 18	„ 17 53	„	Kimura
„ „ 17 14	„ 16 18	„	„
Mean	4° 16′ 37″		

	δ=4°	16′62
Reduction to	1895.0=	0.88
„ „	sea level=	0.00
	δ=4°	17′5

DIP (θ)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	Dip	Observer	Recorder
Oct. 22nd 10h 44.1m	2	48° 37′8	Kimura	Midzusima
„ „ 11 9.9	2	„ 38.3	„	„
„ „ 11 42.5	2	„ 30.3	Midzusima	Kimura
„ „ 12 4.4	—	„ 33.4	„	„
„ „ 13 54.9	—	„ 33.6	Kimura	„
„ „ 16 34.6	—	„ 34.4	„	„
„ „ 17 14.8	—	„ 33.5	„	„
„ „ 18 0.4	—	„ 32.8	Midzusima	„
„ 23rd 14 15.8	—	„ 39.5	„	„
„ „ 16 31.2	—	„ 34.7	„	„
„ „ 16 57.0	—	„ 36.9	Kimura	Midzusima
Mean		48′ 35′0		

	θ = 48°	35′0
Reduction to	1895.0 =	1.31
„ „	sea level =	0.00
	θ = 48°	36′3

HORIZONTAL INTENSITY (H)

Observations of the East Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Oct. 22nd 8h 51m	0.29819	464.66	19°5C	5.6001	20°2C	6°45′49″6	15°21′ 2″8	18°8C	Midzusima	Kimura
„ „ 9 25	0.29796	464.20	20.6	5.6049	21.3	6 45 37.3	15 20 28.9	20.0	Kimura	Midzusima
„ „ 19 58	0.29825	464.99	17.0	5.5968	17.4	6 46 4.3	15 21 43.0	16.7	„	„
„ 23rd 6 1	0.29819	465.61	15.4	5.5928	15.4	6 46 29.5	15 22 30.5	15.4	Midzusima	Kimura
„ „ 13 58	0.29875	463.91	21.3	5.5985	21.9	6 44 22.6	15 17 47.1	20.8	„	„
Mean	0.29827									

	H =	0.29827
Reduction to	1895.0 =	520
„ „	sea level =	000
	H =	0.29832

45. MIDONO.

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 25th 16h 30m	4° 24′ 41″	Tanakadate	Tanakadate
,, ,, 17 6	,, 25 10	,,	,,
,, ,, 18 12	,, 26 15	,,	,,
,, ,, 18 32	,, 24 3	,,	,,
,, ,, 19 11	,, 22 29	,,	,,
,, ,, 20 19	,, 24 53	,,	,,
,, ,, 21 13	,, 24 9	,,	,,
,, 26th 1 48	,, 21 48	,,	,,
,, ,, 4 10	,, 22 20	,,	,,
,, ,, 7 29	,, 23 13	,,	,,
,, ,, 8 23	,, 23 59	,,	,,
,, ,, 8 59	,, 23 33	,,	,,
,, ,, 9 37	,, 23 36	,,	,,
,, ,, 10 14	,, 24 38	,,	,,
,, ,, 11 4	,, 26 31	,,	,,
,, ,, 11 32	,, 27 25	,,	,,
,, ,, 12 15	,, 27 55	,,	,,
,, ,, 13 6	,, 27 48	,,	,,
,, ,, 14 8	,, 26 16	,,	,,
,, ,, 15 9	,, 25 24	,,	,,
,, ,, 16 6	,, 24 46	,,	,,
Mean	4° 24′ 1″		

$\delta = 4°\ 24'.02$

Reduction to 1895.0 = 1.16

,, ,, sea level = −0.03

$\delta = 4°\ 25'.2$

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 5th 20h 34m	3	49° 48′.1	Iwaoka	Tanakadate
,, 6th 6 9	3	,, 50.8	,,	Uziie
Mean		49° 49′.5		

$\theta = 49°\ 49'.5$

Reduction to 1895.0 = 0.67

,, ,, sea level = −0.07

$\theta = 49°\ 50'.1$

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour Mean Local Time.	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
July 5th 19h 15m	0.29178	474.15	21.7C	5.6496	22.0C	6°59′45″.0	15°58′37″.5	21.4C	Iwaoka	Tanakadate
,, 6 8 8	0.29177	472.90	21.9	5.6568	22.2	6 59 0.0	15 57 32.5	21.6	,,	Turuta
,, ,, 14 14	0.29252	472.25	24.6	5.6548	25.8	6 57 43.8	15 55 1.2	23.4	Uziie	Iwaoka
Mean	0.29202									

$H = 0.29202$

Reduction to 1895.0 = 870

,, ,, sea level = 693

$= 0.29218$

46. YOSIDA.

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 24th 9h 21m	3° 24′ 53″	Tanakadate	Tanakadate
„ „ 9 53	„ 25 14	„	„
„ „ 10 39	„ 27 3	„	„
„ „ 11 51	„ 30 36	„	„
„ „ 12 43	„ 30 23	„	„
„ „ 13 17	„ 30 44	„	„
„ „ 14 22	„ 30 16	„	„
„ „ 15 18	„ 29 14	„	„
„ „ 16 15	„ 28 31	„	„
„ „ 17 15	„ 28 53	„	„
„ „ 18 8	„ 29 6	„	„
„ „ 19 30	„ 29 15	„	„
„ „ 22 32	„ 28 28	„	„
„ 25th 4 0	„ 26 59	„	„
„ „ 4 56	„ 27 28	„	„
„ „ 6 45	„ 29 8	„	„
„ „ 7 30	„ 28 6	„	„
„ „ 8 8	„ 23 13	„	„
„ „ 8 32	„ 26 49	„	„
„ „ 8 56	„ 26 56	„	„
Mean	3° 28′ 38″		

$\delta = 3°\ 28'.63$
Reduction to 1895.0 = 1.30
„ „ sea level = −0.05
$\delta = 3°\ 29'.9$

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 7th 18h 44m	3	49° 11′.2	Iwaoka	Iwaoka
„ „ 15 53	3	„ 14.5	Tanakadate	„
„ „ 23 42	3	„ 15.6	Turuta	„
Mean		49° 13′.8		

$\theta = 49°\ 13'.8$
Reduction to 1895.0 = 0.40
„ „ sea level = −0.08
$\theta = 49°\ 14'.1$

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 7th 11h 8m	0.29642	470.85	25°.1C	5.6259 s	26°.2C	6°51′17″.5	15°40′27″.5	24°.0C	Uziie	Turuta
„ „ 14 36	0.29701	473.69	22.7	5.6011	23.0	6 52 25.0	15 42 28.8	22.4	Turuta	Uziie
„ „ 22 19	0.29692	474.83	19.7	5.5970	20.1	6 53 47.5	15 45 50.	19.3	Iwaoka	Tanakadate
									Uziie	Turuta
									Turuta	Iwaoka
Mean	0.29678									

$H = 0.29678$
Reduction to 1895.0 = 905
„ „ sea level = 1067
$H = 0.29698$

47. UMAGAESI.

Suzugahara, foot of Mt. Huzi (富士山麓字鈴ヶ原 (吉田口))

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 22nd 21h 34m	4° 43′ 43″	Tanakadate	Tanakadate
,, ,, 22 40	,, 43 38	,,	,,
,, 23rd 0 30	,, 43 46	,,	,,
,, ,, 6 16	,, 42 41	,,	,,
,, ,, 7 11	,, 41 11	,,	,,
,, ,, 7 47	,, 39 46	,,	,,
,, ,, 8 42	,, 39 17	,,	,,
,, ,, 9 18	,, 38 53	,,	,,
,, ,, 10 4	,, 39 57	,,	,,
,, ,, 11 0	,, 42 7	,,	,,
,, ,, 12 28	,, 45 5	,,	,,
,, ,, 13 8	,, 45 58	,,	,,
,, ,, 13 37	,, 45 55	,,	,,
,, ,, 14 25	,, 45 7	,,	,,
,, ,, 14 29	,, 44 40	,,	,,
,, ,, 16 51	,, 44 0	,,	,,
,, ,, 17 44	,, 44 3	,,	,,
,, ,, 18 43	,, 43 57	,,	,,
,, ,, 19 35	,, 44 4	,,	,,
Mean	4° 43′ 0″		

$\delta = 4°\ 43'.0$

Reduction to 1895.0 = 1.11

,, ,, sea level = −0.06

$\delta = 4°\ 44'.1$

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.		Observer	Recorder
July. 8th 20h 17m	3	50° 22′.7	Uziie	Turuta
,, 9th 8 59	3	,, 26.7	Turuta	Uziie
,, ,, 16 59	3	,, 22.7	Iwaoka	Tanakadate
,, ,, 19 6	3	,, 29.1	Tanakadate	Uziie
,, 10th 9 11	3	,, 23.0	,,	,,
Mean		50° 24′.8		

$\theta = 50°\ 24'.8$

Reduction to 1895.0 = 0.59

,, ,, sea level = −0.10

$\theta = 50°\ 25'.3$

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 8th 23h 4m	0.28749	476.03	14°.5C	5.6800 s	14°.9C	7° 7′10″.0	16°15′18″.7	14°.2C	Iwaoka, Tanakadate	Tanakadate, Iwaoka
,, 9th 10 32	0.28821	471.47	23.8	5.6987	25.1	7 3 50.0	16 9 7.5	22.5	Iwaoka	Tanakadate
,, ,, 14 29	0.28866	471.24	26.5	5.7025	27.9	7 2 32.5	16 6 5.0	25.2	Turuta, ,,	Iwaoka, Tanakadate
Mean	0.28812									

$H = 0.28812$

Reduction to 1895.0 = 1008

,, ,, sea level = 1270

$H = 0.28835$

DIP (θ)
Observations of the West Party, 1893.

(吉田口四合目　小屋前)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 10th 15h 13m	3	51° 13′3	Turuta	Iwaoka

(吉田口五合五勺目字穴ムロ　岩石ノ上)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 10th 18h 25m	3	45° 37′3	Iwaoka	Turuta

(吉田口六合五勺目字鎌岩　石室ノ上方)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 11th 9h 29m	3	50° 28′9	Tanakadate	Uziie

(吉田口八合目)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 11th 14h 5m	3	60° 52′1	Uziie	Turuta

48. HUZI.

East side of Syakadake (釋迦ケ嶽ノ東)

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 11th 19h 28m	—	59° 24′6	Iwaoka	Uziie
„ 12th 11 50	—	„ 12.5	Turuta	„
Mean		59 18′3		

$\theta = 59°\ 18'6$
Reduction to 1895.0 = 0.59
„ „ sea level = −0.41
$\theta = 59°\ 18'8$

HORIZONTAL INTENSITY (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 12th 8h 1m	0.26142	477.32	9°1 C	s 5.9538	10°5 C	7°53′36″2	18° 6′ 21″0	7°7 C	Iwaoka	Tanakadate
„ „ 14 8	0.26174	477.19	12.4	5.9487	13.0	7 52 12.5	18 2 29.0	11.9	„	Turuta
Mean	0.26158									

$H = 0.26158$
Reduction to 1895.0 = 1032
„ „ sea level = 4700
$H = 0.26215$

22 Centimeters above ground (地上二十二糎)

HORIZONTAL INTENSITY (H)
(* *Value deduced from Vibration only by assuming Value of M*)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 12th 9h 26m	*0.25574	477.62	10°9 C	s 6.0143	10°9C	..	..	..	Turuta	Uziie

120 Centimeters above ground (地上百二十糎)

HORIZONTAL INTENSITY (H)
(* *Value deduced from Vibration only by assuming Value of M*)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean. Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 12th 9h 55m	*0.26114	477.14	12°2C	s 5.9544	12°2C	..	..	..	Turuta	Uziie

49. HUZI.

Sainokawara near Kinmeisui (金明水近傍ナル賽ノ河原)

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 12th 17h 3.1m	3	52° 41′.7	Iwaoka	Uziie

$\theta = 52°\ 41'.7$

Reduction to 1895.0 = 0.59

" " sea level = −0.40

$\theta = 52°\ 41'.9$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M*)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	TeHp. t_D	Observer	Recorder
July. 12th 19h 16m	*0.29247	478.50	8°.8C	5.6188 s	8°.8C	..	..	..	Iwaoka	Uziie
" " 19 50	*0.29297	478.40	8.9	5.6151	8.9	..	..	..	Uziie / Iwaoka	Iwaoka / Turuta
Mean	0.29272									

$H = 0.29272$

Reduction to 1895.0 = 1032

" " sea level = 4536

$H = 0.29328$

120 Centimeters above ground (地上百二十糎)

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M*)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 13th 6h 20m	*0.29265	478.68	7°.5C	5.6160 s	7°.5C	..	..	..	Iwaoka	Tanakadate

22 Centimeters above ground (地上二十二糎)

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M*)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 13th 6h 40m	0.29101	478.53	8°.4C	5.6324 s	8°.4C	..	..	..	Iwaoka	Tanakadate

50. HUZI.

Sainokawara near Ginmeisui (銀明水近傍ナル賽ノ河原)

DIP (θ)

Observations of the West Party, 1893,

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 13th 9h 3m	3	59° 14′.3	Uziie	Turuta
Mean				

$\theta = 59°\ 14'.3$

Reduction to 1895.0 = 0.59

" " sea lavel = −0.41

$\theta = 59°\ 14'.5$

HORIZONTAL INTENSITY (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 13th 10h 10m	0.24590	476.99	14°9 C	6s.1373	15°0 C	8°21′50″0	19°11′50″0	14°9 C	Iwaoka	Turuta

H = 0.24590
Reduction to 1895.0 = 1030
„ „ sea level = 4687
H = 0.24647

51. HUZI.

Bottom of Crater (人穴ノ奥)

DIP. (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 13th 12h 2m	3	47° 42′2	Iwaoka	Tanakadate

θ = 47° 42′2
Reduction to 1895.0 = 0.59
„ „ sea level = −0.39
θ = 47° 42′4

HORIZONTAL INTENSITY (H)
(* *Value deduced from Vibration only by assuming Value of* (M))
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 13th 12h 48m	*0.31257	476.66	13°5 C	5s.4298	13°5 C	..	..	..	Turuta	Tanakadate
„ „ „ 59	*0.31099	476.73	13.3	5.4428	13.3	..	..	..	Iwaoka	„
„ „ 13 8	*0.31143	476.36	14.3	5.4410	14.3	..	..	..	„	„
Mean	0.31166									

H = 0.31166
Reduction to 1895.0 = 1030
„ „ sea level = 4485
H = 0.31221

52. MURAYAMA.

Aza Arasinotaira (字嵐ノ平)

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 19th 12h 46m	3° 7′ 49″	Tanakadate	Tanakadate
„ „ 14 20	„ 7 27	„	„
„ „ 14 47	„ 6 56	„	„
„ „ 15 42	„ 5 20	„	„
„ „ 16 47	„ 4 55	„	„
„ „ 18 5	„ 5 12	„	„
„ „ 18 59	„ 5 8	„	„
„ „ 21 16	„ 5 14	„	„
„ „ 22 39	„ 4 59	„	„
„ 20th 5 57	„ 4 17	„	„
„ „ 7 50	„ 2 7	„	„
„ „ 8 42	„ 1 13	„	„
„ „ 9 33	„ 1 9	„	„
„ „ 10 23	„ 2 9	„	„
„ „ 11 40	„ 4 50	„	„
„ „ 1 1	„ 6 49	„	„
Mean	3° 4′ 28″		

δ = 3° 4′47
Reduction to 1895.0 = 1.03
„ „ sea level = −0.03
δ = 3° 5′5

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 15th 9h 37m	海	48° 58′.9	Uziie	Uziie
„ „ 15 23	3	„ 48.9	Iwaoka	Turuta
„ „ 17 8	3	„ 57.5	Turuta	Iwaoka
Mean		48° 55′.1		

$\theta = 48° 55'.1$

Reduction to 1895.0 = 0.73

„ „ sea level = −0.03

$\theta = 48° 55'.8$

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 15th 3 10m	0.30571	471.06	24°.4C	s 5.5386	24°.3C	6°37′16″.3	15° 5′38″.2	24°.5C	Turuta	Iwaoka
„ „ 8 30	0.30624	469.57	24.3	5.5430	24.6	6 37 26.3	15 9 13.7	24.1	Uziie	Tanakadate
„ „ 14 40	0.30563	469.89	25.5	5.5468	25.7	6 37 19.0	15 7 9.3	25.4	Iwaoka	Turuta
„ „ 21 21	0.30558	471.69	22.5	5.5361	22.5	6 38 41.3	15 9 53.8	22.6	Turuta	Iwaoka
Mean	0.30579								Uziie	„

$H = 0.30579$

Reduction to 1895.0 = 990

„ „ sea level = 630

$H = 0.30595$

53. HIROMIBARA.

Kamiidemura Koaza Warabidaira (上井出村小字蕨平)

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct 20th 23h 24m	3° 16′ 43″	Tanakadate	Tanakadate
„ „ 23 31	„ 17 3	„	„
„ 21st 0 21	„ 17 3	„	„
„ „ 5 51	„ 16 29	„	„
„ „ 7 27	„ 15 17	„	„
„ „ 8 22	„ 13 24	„	„
„ „ 9 7	„ 12 56	„	„
„ „ 9 58	„ 12 37	„	„
„ „ 10 30	„ 13 3	„	„
„ „ 11 12	„ 14 44	„	„
„ „ 12 14	„ 17 41	„	„
„ „ 13 19	„ 18 19	„	„
„ „ 14 6	„ 18 26	„	„
„ „ 14 17	„ 18 26	„	„
„ „ 15 22	„ 17 48	„	„
„ „ 16 18	„ 17 19	„	„
„ „ 18 5	„ 17 7	„	„
„ „ 18 57	„ 17 28	„	„
„ „ 21 14	„ 17 19	„	„
„ „ 23 10	„ 16 48	„	„
Mean	3° 17′ 35″		

$\delta = 3° 16'.58$

Reduction to 1895.0 = 1.08

„ „ sea level = −0.05

$\delta = 3° 17'.6$

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 16th 15h 41m	3	49° 14′7	Tanakadate	Tanakadate
,, 17th 7 10	3	,, 16.7	Uziie	Turuta
,, ,, 20 48	3	,, 12.8	Tanakadate	Uziie
Mean		49° 14′7		

	θ = 49°	14′7
Reduction to	1895.0 =	0.58
,, ,,	sea level =	−0.08
	θ = 49°	15′2

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 16th 17h 34m	0.29784	469.20	28°3C	5.6268 s	30°3C	6°47′45″6	15°31′40″0	26°3C	Iwaoka	Tanakadate
,, ,, 22 1	0.29734	470.86	24.1	5.6175	24.1	6 49 12.5	15 34 41.3	24.1	Turuta	Uziie
,, 17th 8 39	0.29725	468.46	29.0	5.6321	28.6	6 46 56.3	15 29 20.0	29.4	,,	Iwaoka
Mean	0.29748									

	H =	0.29748
Reduction to	1895.0 =	1052
,, ,,	sea level =	920
	H =	0.29768

54. HIROMIBARA.

Down Uzuragawa about 500 meters west (下鶉小屋)

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 17th 17h 14m	3	48° 49′9	Turuta	Uziie

	θ = 48°	49′9
Reduction to	1895.0 =	0.58
,, ,,	sea level =	−0.08
	θ = 48°	50′4

HORIZONTAB INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M*)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 17th 12h 6m	*0.29681	468.79	29°7C	5.6191 s	29°7C	..	..	..	Uziie	Turuta

	H =	0.29681
Reduction to	1895.0 =	1052
,, ,,	sea level =	870
	H =	0.29700

55. HIROMIBARA.

Up Uzuragoya about 800 meters east (上鶉小屋)

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 17th 18h 26m	3	49° 39′4	Iwaoka	Tanakadate

	θ =	49° 39′4
Reduction to	1895.0 =	0.58
„ „	sea level =	−0.09
	θ =	49° 39′9

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of* M)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 17th 14h 45m	0.29888	468.55	31°1C	s 5.6177	31°5C	6°45′35″	15°27′11″3	30°9C	Tanakadate	Tanakadate
„ „ 19 1	*0.29946	471.09	22.8	5.5801	22.8	..	..	..	Iwaoka	„
Mean	0.29917									

	H =	0.29917
Reduction to	1895.0 =	1052
„ „	sea level =	983
	H =	0.29937

56. MITUIKE.

First Cave Hitoanamura (人穴村第一洞)

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 18th 13h 50m	3	40° 4′1	Turuta Uziie	Tanakadate

	θ =	40° 4′1
Reduction to	1895.0 =	0.44
„ „	sea level =	−0.09
	θ =	40° 4′5

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of* M)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 18th 12h 17m	*0.33965	472.33	19°2C	s 5.2322	19°2C	..	..	..	Iwaoka	Tanakadate
„ „ 12 37	*0.34013	472.43	18.9	5.2279	18.9	..	..	..	„	„
Mean	0.33989									

	H =	0.33989
Reduction to	1895.0 =	1064
„ „	sea level =	1033
	H =	0.34010

57. MITUIKE CAVE.

Second Cave Hitoanamura (人穴村第二洞)

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 18th 16h 22m	3	48° 17′7	Tanakadate Iwaoka	Turuta

$\theta = 48° \ 17'7$

Reduction to 1895.0 = 0.44

„ „ sea level = −0.09

$\theta = 48° \ 18'.1$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M*)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 18th 15h 20m	*0.29839	473.05	17°4C	5.5777 s	17°4C	..	..	..	Iwaoka	Tanakadate

$H = 0.29839$

Reduction to 1895.0 = 1064

„ „ sea level = 1033

$H = 0.29860$

58. FRONT OF MITUIKE CAVE.

Hitoanamura (人 穴 村)

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 18th 20h 13m	3	47° 39′4	Turuta	Iwaoka

$\theta = 47° \ 39'4$

Reduction to 1895.0 = 0.44

„ „ sea level = −0.09

$\theta = 47° \ 39'8$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M*)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 18th 18h 50m	*0.29088	471.31	22°2C	5.6601 s	22°3C	..	..	..	Iwaoka	Turuta

$H = 0.29088$

Reduction to 1895.0 = 1064

„ „ sea level = 1033

$H = 0.29109$

59. FRONT OF HITOANA.

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 19th 9h 22m	3	46° 20′4	Turuta	Uziie

$\theta = 46° \ 20'4$

Reduction to 1895.0 = 0.44

„ „ sea level = −0.08

$\theta = 46° \ 20'8$

HORIZONTAL INTENSITY (H).

(* *Value deduced from Vibration only by assuming Value of M*)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_1	Temp. t_D	Observer	Recorder
July 19th 8h 7m	*0.29484	470.83	23°6C	5.6314 s	23°6C	..	..	..	Uziie	Tanakadate
,, ,, ,, 18	*0.29250	470.76	23.8	5.6478	23·8	..	..	..	Tanakadate	Turuta
Mean	0.29367									

H = 0.29367

Reductions to 1895.0 = 1656

,, ,, sea level = 877

= 0.29386

60 ITIMAIIWA IN HITOANA

(人穴内一枚岩)

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 19th 12h 0m	3	46° 38·3	Tanakadate, Turuta	Uziie.

θ = 46° 38·3

Reduction to 1895.0 = 0.44

,, ,, sea level = 0.08

θ = 46° 38·7

HORIZONTAL INTENSITY (H).

(* *Value deduced from Vibration only by assuming Value of M*)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 19th 10h 58m	*0.26107	474.23	13°3C	5.95567 s	13°6C	..	..	..	Turuta	Tanakadate

H = 0.26107

Reduction to 1895.0 = 1056

,, ,, sea level = 877

H = 0.26126

61 FRONT OF HITOANA

DIP (θ)

Observations of the West Party, 1893.

Date and Hour Mean Local Time.	Needle No.	θ	Observer	Recorder
July 19th 15h 25m	3	42° 14.5	Uziie, Turuta	Tanakadate

θ = 42° 14·5

Reduction to 1895.0 = 0.44

,, ,, sea level = 0.08

θ = 42° 14·9

HORIZONTAL INTENSITY. (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 19th 14h 12m	*0.31584	474.41	13°1C	5.4133 s	13°1C	..	..	..	Tanakadate	Turuta
,, ,, 14 22	*0.31564	474.69	12.3	5.4133	12.3	..	..	..	Turuta	Tanakadate
Mean	0.31574									

H = 0.31574

Reduction to 1895.0 = 1056

,, ,, sea level = 877

H = 0.31593

62. ŌMIYA

Nisihatikōzimura Sanbonmatu (西八小路村三本松)

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 18th 5h 30m	4° 19′ 34″	Tanakadate	Tanakadate
,, ,, 7 7	,, 20 25	,,	,,
,, ,, 8 11	,, 19 16	,,	,,
,, ,, 8 53	,, 18 50	,,	,,
,, ,, 9 49	,, 18 56	,,	,,
,, ,, 10 30	,, 19 57	,,	,,
,, ,, 11 30	,, 21 49	,,	,,
,, ,, 12 39	,, 22 46	,,	,,
,, ,, 13 28	,, 23 30	,,	,,
,, ,, 14 34	,, 23 32	,,	,,
,, ,, 15 41	,, 21 28	,,	,,
,, ,, 16 47	,, 22 2	,,	,,
,, ,, 18 0	,, 21 22	,,	,,
,, ,, 18 59	,, 21 26	,,	,,
,, ,, 20 21	,, 21 57	,,	,,
,, 19th 0 10	,, 20 55	,,	,,
,, ,, 6 43	,, 20 52	,,	,,
,, ,, 7 40	,, 21 53	,,	,,
Mean	4° 21′ 32″		

	δ = 4°	21′.53
Reduction to	1895.0 =	1.06
,, ,,	sea level =	−0.01
	δ = 4°	22′.6

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 20th 10h 33m	3	48° 33′.6	Turuta	Uziie
,, ,, 14 42	3	,, 28.4	Iwaoka	Tanakadate
,, ,, 19 54	3	,, 40.8	Uziie	Turuta
,, ,, 23 48	3	,, 34.7	Tanakadate	Uziie
Mean		48° 34′.4		

	θ = 48°	34′.4
Reduction to	1895.0 =	0.73
,, ,,	sea level =	0.01
	θ = 48°	35.1

HORIZONTAL INTENSITY (*H*)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 20th 8h 48m	0.30234	467.19	31°.3C	5.5924 s	31°.0C	6°39′28″.8	15°12′45″.0	31°.7C	Turuta / Uziie	Uziie / Turuta
,, ,, 13 33	0.30331	468.93	30.2	5.5747	30.9	6 39 58.8	15 13 55.0	29.5	Iwaoka	Tanakadate
,, ,, 22 3	0.30223	469.56	25.5	5.5796	25.5	6 41 30.6	15 16 58.8	25.4	Tanakadate / Turuta	Turuta / Tanakadate
Mean	0.30263									

63. NUMAZU.

DECLINATION. (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 26th 20h 45m	4° 25′ 31″	Tanakadato	Tanakadate
,, ,, 21 34	,, 25 24	,,	,,
,, ,, 22 30	,, 23 47	,,	,,
,, 27th 0 16	,, 24 39	,,	,,
,, ,, 2 8	,, 24 24	,,	,,
,, ,, 4 43	,, 23 48	,,	,,
,, ,, 5 55	,, 23 36	,,	,,
,, ,, 7 22	,, 25 28	,,	,,
,, ,, 7 49	,, 24 11	,,	,,
,, ,, 8 30	,, 23 41	,,	,,
,, ,, 9 11	,, 23 57	,,	,,
,, ,, 10 15	,, 25 1	,,	,,
,, ,, 11 9	,, 25 59	,,	,,
,, ,, 12 9	,, 26 22	,,	,,
,, ,, 12 56	,, 25 8	,,	,,
,, ,, 14 1	,, 24 7	,,	,,
,, ,, 15 21	,, 23 8	,,	,,
,, ,, 16 17	,, 23 53	,,	,,
,, ,, 16 54	,, 24 28	,,	,,
,, ,, 18 14	,, 25 14	,,	,,
,, ,, 18 33	,, 25 25	,,	,,
Mean	4° 24′ 37″		

	δ = 4° 24′.62
Reduction to 1895.0 =	0.96
,, ,, sea level =	0.00
	δ = 4° 25′.6

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Juyl. 21st 17h 13m	3	48° 19′.2	Turuta	Iwaoka
,, ,, 19 5	3	,, 21.6	Uziie	Uziie
,, 22nd 7 41	3	,, 25.4	Noda	Iwaoka
Mean		48° 22′.1		

	θ = 48° 22′.1
Reduction to 1895.0 =	0.87
,, ,, sea level =	0.00
	θ = 48° 23′.0

HORIZONTAL INTENSITY (*H*)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 21st 16h 11m	0.30054	468.07	30°.6 C	5.6058 s	31°.5 C	6° 42′ 6″.3	15° 17′ 31″.1	29.8 C	Turuta	Iwaoka
,, ,, 21 56	0.30184	467.93	24.8	5.5927	24.9	6 42 8.8	15 21 3.8	24.8	,,	Tanakadate
,, ,, 9 13	0.30059	467.96	32.0	5.6045	31.9	6 41 48.8	15 17 8.8	32.1	Tanakadate	Iwaoka
Mean	0.30099									,,

	H = 0.30099
Reduction to 1895.0 =	.943
,, ,, sea level =	.000
	H = 0.30108

64. SIMIZU.

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 16th 10h 49m	4° 9′ 9″	Tanakadate	Tanakadate
„ „ 11 40	„ 10 4	„	„
„ „ 12 26	„ 11 45	„	„
„ „ 13 22	„ 12 19	„	„
„ „ 14 6	„ 12 26	„	„
„ „ 15 16	„ 11 49	„	„
„ „ 16 27	„ 10 59	„	„
„ „ 17 43	„ 11 0	„	„
„ „ 18 31	„ 10 44	„	„
„ „ 19 49	„ 10 14	„	„
„ „ 22 48	„ 9 46	„	„
„ 17h 1 24	„ 9 5	„	„
„ „ 6 7	„ 9 55	„	„
„ „ 6 47	„ 9 30	„	„
„ „ 7 42	„ 8 37	„	„
„ „ 8 39	„ 8 4	„	„
„ „ 9 39	„ 6 55	„	„
„ „ 10 8	„ 7 9	„	„
„ „ 10 48	„ 8 47	„	„
„ „ 11 39	„ 12 11	„	„
„ „ 12 34	„ 13 22	„	„
„ „ 13 39	„ 13 37	„	„
„ „ 14 32	„ 12 57	„	„
Mean	4° 10′ 28″		

	δ = 4°	10′47
Reduction to	1895.0 =	0.96
„ „	sea level =	0.00
	δ = 4°	11′4

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 22nd 20h 15m	3	48° 34′7	Iwaoka	Uziie
„ 23rd 8 12	3	„ 30.0	Noda	Tanakadate
„ „ 13 16	3	„ 33.6	Iwaoka	Uziie
„ „ 16 17	3	„ 31.4	Noda	Turuta
Mean		48° 32′4		

	θ = 48°	32′4
Reduction to	1895.0 =	0.72
„ „	sea level =	0.00
	θ = 48°	33′1

HORIZONTAL INTENSITY (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 22nd 22h 22m	0.30161	470.59	27°2 C	s 5.5802	27°5C	6°43′ 8″8	15°20′30″0	26°9 C	Iwaoka / Uziie	Uziie / Iwaoka
„ 23 9 19	0.30086	466.81	32.0	5.6094	32.2	6 41 13.8	15 16 48.8	31.8	„	Noda
„ „ 14 57	0.30073	466.21	32.6	5.6151	33.6	6 40 48.8	15 15 30.0	31.9	Turuta	„
„ „ 22 5	0.30249	470.11	27.0	5.5743	27.2	6 42 16.3	15 19 42.5	26.8	Uziie	Turuta
Mean	0.30142									

	H =	0.30142
Reduction to	1895.0 =	1054
„ „	sea level =	000
	H =	0.30153

65. NISINOTO.

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 13th 9h 20m	4° 19′ 46″	Tanakadate	Tanakadate
,, ,, 9 57	,, 19 35	,,	,,
,, ,, 10 52	,, 21 50	,,	,,
,, ,, 11 38	,, 24 26	,,	,,
,, ,, 12 22	,, 25 5	,,	,,
,, ,, 13 5	,, 25 11	,,	,,
,, ,, 14 5	,, 25 13	,,	,,
,, ,, 15 36	,, 25 1	,,	,,
,, ,, 16 16	,, 23 39	,,	,,
,, ,, 17 14	,, 23 2	,,	,,
,, ,, 18 19	,, 23 53	,,	,,
,, ,, 19 17	,, 22 45	,,	,,
,, ,, 20 17	,, 22 30	,,	,,
,, ,, 21 22	,, 22 2	,,	,,
,, 14th 0 28	,, 22 23	,,	,,
,, ,, 3 37	,, 22 28	,,	,,
,, ,, 6 25	,, 23 20	,,	,,
,, ,, 6 53	,, 22 37	,,	,,
,, ,, 7 35	,, 21 18	,,	,,
,, ,, 8 13	,, 20 55	,,	,,
Mean	4° 22′ 53″		

$\delta = 4°\ 22'.88$

Reduction to 1895.0 = 1.12

,, ,, sea level = −0.01

$\delta = 4°\ 24'.0$

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 26th 9h 55m	3	48° 45.0	Uziie	Tanakadate
,, ,, 15 19	3	,, 35.9	Turuta	Uziie
,, ,, 22 3	3	,, 39.6	Tanakadate	Turuta
Mean		48° 40′.2		

$\theta = 48°\ 40'.2$

Reduction to 1895.0 = 0.00

,, ,, sea level = −0.02

$\theta = 48°\ 40'.2$

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 26th 13h 37m	0.30052	465.49	31°.2 C	s 5.6221	32°.2	6°41′18″.8	15°17′51″.3	30°.1 C	Uziie	Noda
,, ,, 20 26	0.30002	469.01	24.3	5.6036	24.6	6 44 5.0	15 22 58.8	24.1	Turuta	Tanakadate
Mean	0.30027									

$H = 0.30027$

Reduction to 1895.0 = 1293

,, ,, sea level = 176

$H = 0.30042$

DIP (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 27th 6h 8m	3	48° 38′4	Uziie	Noda
,, ,, 8 0	3	,, 34.2	Iwaoka	Turuta
Mean		48° 36′3		

$\theta = 48° \ 36'30$
Reduction to 1895.0 = 0.00
,, ,, sea level = 0.02
$\theta = 48° \ 36'3$

HORIZONTAL INTENSITY (H)
(* *Value deduced from Vibration only by Assuming Value of M.*)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 27th 7h 24m	*0.30041	469.01	24°4C	5.5832 s	24°4C	..	..	..	Uziie	Turuta

$H = 0.30041$
Reduction to 1895.0 = 1290
,, ,, sea level = 176
$H = 0.30056$

66. OKAZAKI.

No 10 Ōaza Hane Aza Okuyama (大字羽根字奥山十番地)

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 3rd 22h 53m	4° 32′ 30″	Tanakadate	Tanakadate
,, 4th 2 27	,, 33 29	,,	,,
,, ,, 5 49	,, 33 31	,,	,,
,, ,, 7 6	,, 32 44	,,	,,
,, ,, 7 54	,, 32 40	,,	,,
,, ,, 8 45	,, 32 49	,,	,,
,, ,, 9 44	,, 32 8	,,	,,
,, ,, 10 35	,, 32 49	,,	,,
,, ,, 11 33	,, 33 29	,,	,,
,, ,, 13 15	,, 35 5	,,	,,
,, ,, 13 47	,, 35 15	,,	,,
,, ,, 14 33	,, 35 9	,,	,,
,, ,, 15 37	,, 34 49	,,	,,
,, ,, 16 48	,, 33 44	,,	,,
,, ,, 17 44	,, 33 38	,,	,,
,, ,, 19 3	,, 33 36	,,	,,
Mean	4° 33′ 28″		

$\delta = 4° \ 33'47$
Reduction to 1895.0 = 1.12
,, ,, sea level = 0.00
$\delta = 4° \ 34'5$

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 15th 7h 50m	4° 27′ 30″	Tanakadate	Tanakadate
,, ,, 8 22	,, 26 47	,,	,,
,, ,, 8 55	,, 26 14	,,	,,
,, 9 21	,, 26 5	,,	,,
,, ,, 9 53	,, 26 45	,,	,,
,, ,, 10 44	,, 27 35	,,	,,
,, ,, 11 19	,, 28 20	,,	,,
Mean	4° 27′ 53″		

$\delta = 4° \ 27'88$
Reduction to 1895.0 = 1.09
,, ,, sea level = −0.00
$\delta = 4° \ 28'9$

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 28th 13h 22m	3	48° 35′0	Uziie	Noda
„ „ 20 7	3	„ 32.7	„	„
„ 29th 7 45	3	„ 32.0	Turuta	„
Mean		48° 33′2		

$\theta = 48°\ 33'2$
Reduction to 1895.0 = 0.43
„ „ sea level = −0.01
$\theta = 48°\ 32'8$

HORIZONTAL INTENSITY (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 28th 14h 46m	0.30108	464.49	35°1C	s 5.62178	35°9C	6°39′ 3″8	15°11′31″3	34°2C	Iwaoka / Tanakadate	Tanakadate / Turuta
„ „ 22 22	0.30111	469.15	22.0	5.5899	22.0	6 42 58.8	15 20 43.8	22.0	Uziie / Tanakadate	Uziie
„ 29th 9 32	0.30064	466.11	30.6	5.6114	30.6	6 40 31.3	15 14 36.3	30.6	Turuta	Noda
Mean	0.30094									

$H = 0.30094$
Reduction to 1895.0 = 1518
„ „ sea level = 63
$H = 0.30110$

67. KŌWA.

Goryōti. (山ノ上御料地)

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 27th 16h 57m	4° 34′ 40″	Tanakadate	Tanakadate
„ „ 17 25	„ 34 40	„	„
„ „ 18 46	„ 35 3	„	„
„ „ 19 24	„ 34 40	„	„
„ „ 20 53	„ 34 33	„	„
„ „ 22 9	„ 34 41	„	„
„ 28th 0 37	„ 34 21	„	„
„ „ 6 1	„ 31 33	„	„
„ „ 7 9	„ 31 22	„	„
„ „ 8 35	„ 32 15	„	„
„ „ 8 53	„ 35 4	„	„
„ „ 10 52	„ 35 22	„	„
„ „ 11 37	„ 33 4	„	„
„ „ 12 32	„ 36 56	„	„
„ „ 13 26	„ 37 31	„	„
„ „ 14 8	„ 36 53	„	„
„ „ 15 15	„ 36 27	„	„
„ „ 16 5	„ 33 27	„	„
„ „ 17 25	„ 31 42	„	„
„ „ 17 56	„ 32 11	„	„
„ „ 19 45	„ 31 6	„	„
„ „ 20 11	„ 31 56	„	„
„ 29th 1 30	„ 30 40	„	„
„ „ 5 50	„ 29 25	„	„
„ „ 7 45	„ 28 50	„	„
Mean	4° 34′ 22″		

$\delta = 4°\ 34'37$
Reduction to 1895.0 = 1.07
„ „ sea level = 0.00
$\delta = 4°\ 35.4$

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 29th 21h 54m	3	48° 27′5	Turuta	Uziie
„ 30th 10 0	3	„ 25.9	Uziie	Tanakadate
„ „ 14 36	3	„ 20.1	Iwaoka	Turuta
„ „ 21 11	—	„ 22.0	„	„
Mean		48° 23′9		

$\theta = 48° 23′9$
Reduction to 1895.0 = −0.43
„ „ sea level = 0.00
$\theta = 48° 23′5$

HORIZONTAL INTENSITY (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 29th 0h 14m	0.30252	468.42	24°4C	5.5812 s	24°6C	6°40′28″8	15°14′55″0	24°3C	Turuta / Uziie	Uziie / Turuta
„ 30th 8 51	0.30212	466.04	30.8	5.6020	30.9	6 38 46.3	15 10 56.3	30.7	„	Tanakadate
„ „ 13 23	0.30232	464.77	32.9	5.6096	33.8	6 37 41.3	15 8 33.1	32.1	Iwaoka	Turuta
„ „ 15 37	0.30308	464.71	31.9	5.6024	32.8	6 37 9.4	15 8 10.0	31.0	Turuta	Iwaoka
„ „ 20 29	0.30192	467.67	26.2	5.5944	26.6	6 40 21.3	15 14 12.5	25.8	„ / Tanakadate	Tanakadate / Turuta
Mean	0.30239									

$H = 0.30239$
Reduction to 1895.0 = 1582
„ „ sea level = 0000
$H = 0.30255$

68. NARUMI.

Aza Ikenoue embankment (字池ノ上堤防)

DECLINATION (δ)
Observation of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 2nd 14h 45m	4° 40′ 31″	Tanakadate	Tanakadate
„ „ 15 48	„ 38 51	„	„
„ „ 17 6	„ 38 18	„	„
„ „ 18 12	„ 38 44	„	„
„ „ 19 49	„ 38 5	„	„
„ 3rd 1 31	„ 36 12	„	„
„ „ 6 8	„ 38 58	„	„
„ „ 6 32	„ 40 16	„	„
„ „ 7 2	„ 38 33	„	„
„ „ 7 32	„ 37 40	„	„
„ 2nd 8 6	„ 38 53	„	„
„ „ 8 44	„ 39 5	„	„
„ „ 9 47	„ 37 46	„	„
„ „ 10 44	„ 39 7	„	„
„ „ 11 37	„ 40 35	„	„
„ „ 12 36	„ 40 58	„	„
„ „ 13 33	„ 40 44	„	„
„ „ 14 19	„ 40 0	„	„
„ „ 14 36	„ 40 31	„	„
„ „ 14 47	„ 40 36	„	„
Mean	4° 38′ 32″		

$\delta = 4° 38′53$
Reduction to 1895.0 = 1.16
„ „ sea level = 0.00
$\delta = 4° 39′7$

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 31st 15h 35m	3	48° 45′9	Tanakadate	Uziie
,, ,, 21 43m	—	,, 47.6	Iwaoka	Iwaoka
Aug. 1st 9 28	3	,, 45.3	,,	Tanakadate
Mean		48° 46′3		

$\theta = 48° 46′3$
Reduction to 1895.0 = −0.71
,, ,, sea level = 0.00
$\theta = 48° 45′6$

HORIZONTAL INTENSITY (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 31st 13h 52m	0.30063	464.53	37°5C	5.6254	37°8C	6°37′56″3	15° 6′43″3	37°1C	Uziie	Tanakadate
,, ,, 19 57	0.30163	465.78	27.7	5.6082	28.0	6 39 48.8	15 14 8.8	27.5	Iwaoka	Turuta
Aug. 1st 8 12	0.30124	465.38	31.0	5.6134	30.9	6 39 18.1	15 12 10.6	31.1	Tanakadate	Iwaoka
Mean	0.30117									

$H = 0.30117$
Reduction to 1895.0 = 1608
,, ,, sea level = 000
$H = 0.30133$

69. Nagoya.

In tent near Magnetic Observatory in Meteorological Observatory

(測候所内磁力觀測所傍ノ天幕内)

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 16th 10h 21m	4° 40′ 35″	Tanakadate	Tanakadate
,, ,, 11 14	,, 41 37	,,	,,
,, ,, 11 31	,, 42 44	,,	,,
,, ,, 12 25	,, 43 42	,,	,,
,, ,, 13 13	,, 43 11	,,	,,
,, ,, 14 22	,, 42 39	,,	,,
,, ,, 15 42	,, 42 23	,,	,,
,, ,, 16 19	,, 42 31	,,	,,
,, ,, 17 10	,, 41 34	,,	,,
,, ,, 18 11	,, 41 24	,,	,,
,, ,, 19 18	,, 41 34	,,	,,
,, ,, 20 57	,, 41 48	,,	,,
,, ,, 22 10	,, 41 50	,,	,,
,, 17th 2 58	,, 40 19	,,	,,
,, ,, 5 35	,, 39 26	,,	,,
,, ,, 7 29	,, 39 20	,,	,,
,, ,, 7 50	,, 38 50	,,	,,
,, ,, 9 2	,, 40 35	,,	,,
,, ,, 10 20	,, 42 25	,,	,,
,, ,, 11 29	,, 44 39	,,	,,
,, ,, 20 50	,, 55 10	,,	,,
,, ,, 22 49	,, 55 13	,,	,,
Mean	4° 41′ 15″		

$\delta = 4° 41′25$
Reduction to 1895.0 = 1.27
,, ,, sea level = 0.00
$\delta = 4° 42′5$

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 6th 10h 40m	4° 41′ 18″	Tanakadate	Sano
,, ,, 11 59	,, 44 58	,,	,,
,, ,, 12 29	,, 46 23	,,	,,
,, ,, 13 9	,, 46 47	,,	,,
,, ,, 14 47	,, 45 52	,,	,,
,, ,, 16 39	,, 43 27	,,	Tanakadate
,, ,, 18 17	,, 43 46	,,	Sano
,, ,, 19 40	,, 43 56	,,	,,
,, ,, 22 25	,, 43 55	,,	,,
,, 7th 0 31	,, 43 42	Sano	,,
,, ,, 4 37	,, 43 2	,,	,,
,, ,, 6 7	,, 43 7	,,	,,
,, ,, 7 19	,, 42 13	Tanakadate	,,
,, ,, 8 9	,, 41 0	,,	,,
,, ,, 10 31	,, 41 3	,,	Tanakadate
,, ,, 11 43	,, 47 21	,,	,,
,, ,, 13 37	,, 47 50	,,	,,
,, ,, 15 43	,, 45 40	,,	Sano
,, ,, 17 32	,, 43 42	,,	,,
Mean	4° 43′ 43″		

δ = 4° 43′.72
Reduction to 1895.0 = −1.73
,, ,, sea level = 0.00
δ = 4° 42′.0

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 1st 16h 23m	3	48° 46′.8	Turuta	Iwaoka
,, ,, 21 55	3	,, 46.0	Uziie	Uziie
,, 2nd 9 46	3	,, 48.3	Iwaoka	,,
Mean		48° 47′.0		

θ = 48° 47′.0
Reduction to 1895.0 = −0.85
,, ,, sea level = 0.00
θ = 48° 46′.1

(In observatory)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 2nd 14h 50m	3	48° 52′.6	Turuta	Uziie
,, ,, 22 7	—	,, 54.6	,,	Turuta
Mean		48° 53′.6		

θ = 48° 53′.6
Reduction to 1895.0 = −0.85
,, ,, sea level = 0.00
θ = 48° 52′.7

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Oct. 6th 16h 39m	2	48° 42′.6	Tanakadate	Tanakadate
,, ,, 22 0	2	,, 40.7	Sano	Sano
,, ,, 23 33	2	,, 42.5	Tanakadate	Tanakadate
Mean		48° 41′.9		

θ = 48° 41′.9
Reduction to 1895.0 = 1.06
,, ,, sea level = 0.00
θ = 48° 43′.0

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 1st 15h 3m	0.30182	463.71	33°4C	5.6220	35°2C	6°37′51″3	15° 9′10″0	31°3C	Iwaoka	Turuta
„ „ 20 3	0.30157	466.58	25.7	5.6034	25.8	6 40 11.3	15 14 22.5	25.6	Uziie	Tanakadate
„ 2nd 8 6	0.30106	465.63	29.1	5.6144	29.2	6 39 38.8	15 12 33.8	28.9	Iwaoka	Uziie
Mean	0.30148									

H = 0.30148
Reduction to 1895.0 = 1604.
„ „ sea level = 000
H = 0.30164

Observatory.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 2nd 20h 30m	0.30108	464.38	30°3C	5.6218	30°4C	6°38′27″5	15° 9′43″7	30°1C	Tanakadate	Turuta
„ 3rd 8 45	0.30106	464.45	28.2	5.6210	28.1	6 38 45.0	15 10 45.0	28.3	Uziie „	Tanakadate Turuta
Mean	0.30107									

H = 0.30107
Reduction to 1895.0 = 1598
„ „ sea level = 000
H = 0.30123

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Oct. 6th 14h 15m	0.30312	402.84	27°7C	6.0321	28°2C	5°46′15″6	13° 4′39″4	27°3C	Sano Tanakadate	Tanakadate Sano
„ „ 19 8	0.30284	402.84	20.9	6.0163	21.2	5 48 21.2	13 8 52.5	20.7	Sano Tanakadate	Tanakadate Sano
„ 7th 8 56	0.30278	404.58	23.2	6.0208	23.0	5 47 53.8	13 7 51.2	23.4	Sano Tanakadate	Tanakadate Sano
Mean	0.30291									

H = 0.30291
Reduction to 1895.0 = −1995
„ „ sea level = 000
H = 0.30271

Neighbourhood of the above station (名古屋出張)

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 17th 10h 14m	3	48° 48′3	Turuta	Uziie

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 17th 11h 30m	0.30011	460.91	31°0C	5.6504	30°6C	6°35′55″0	15° 2′50″0	31°4C	Uziie Turuta	Turuta Uziie

70. MAEGASU.

Aza Nakayama near the branching point of Ikedagawa

(字中山池田川ノ分岐點近傍)

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 18th 4h 7m	4° 37′ 52″	Tanakadate	Tanakadate
,, ,, 7 18	,, 38 5	,,	,,
,, ,, 8 20	,, 37 37	,,	,,
,, ,, 9 14	,, 37 53	,,	,,
,, ,, 10 17	,, 40 9	,,	,,
,, ,, 11 26	,, 41 53	,,	,,
,, ,, 12 40	,, 42 19	,,	,,
,, ,, 13 33	,, 42 33	,,	,,
,, ,, 14 42	,, 41 42	,,	,,
,, ,, 15 54	,, 41 13	,,	,,
,, ,, 17 10	,, 40 32	,,	,,
,, ,, 18 39	,, 38 59	,,	,,
,, ,, 19 50	,, 40 50	,,	,,
,, ,, 20 39	,, 40 47	,,	,,
,, ,, 21 11	,, 37 22	,,	,,
,, ,, 22 1	,, 38 22	,,	,,
Mean	4° 39′ 21″		

	δ = 4° 39′.35
Reduction to 1895.0 =	1.26
,, ,, sea level =	0.00
	δ = 4° 40′.6

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 3rd 17h 40m	3	43° 50′.2	Uziie	Iwaoka
,, ,, 23 35	3	,, 50.0	Turuta	Turuta
,, 4th 9 15	3	,, 48.1	Uziie	Tanakadate
Mean		48° 49′.4		

	θ = 48° 49′.4
Reduction to 1895.0 =	−0.85
,, ,, sea level =	0.00
	θ = 48° 48′.5

HORIZONTAL INTENSITY (*H*)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 3rd 21h 30m	0.30131	465.41	27°.2C	s 5.6131	27°.2C	6°38′31″.2	15° 8′58″.8	27°.2C	Turuta, Iwaoka	Iwaoka, Turuta
,, 4th 7 51	0.30179	465.59	25.3	5.6073	25.3	6 38 51.3	15 11 3.8	25.3	Uziie, Tanakadate	Tanakadate, Uziie
,, ,, 13 44	0.30162	463.76	31.9	5.6211	32.2	6 37 2.5	15 6 21.2	31.5	Iwaoka	Turuta
Mean	0.30157									

	H = 0.30157
Reduction to 1895.0 =	1624
,, ,, sea level =	000
	H = 0.30173

71. YOKKAITI.

Idamura Ōaza Noda (井田村大字野田字上ノ縄四百四二十番)

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 19th 16h 9m	4° 37′ 1″	Tanakadate	Tanakadate
,, ,, 17 17	,, 36 14	,,	,,
,, ,, 18 24	,, 36 11	,,	,,
,, ,, 20 9	,, 36 4	,,	,,
,, 20th 5 26	,, 33 39	,,	,,
,, ,, 6 57	,, 33 23	,,	,,
,, ,, 8 43	,, 32 21	,,	,,
,, ,, 10 16	,, 35 6	,,	,,
,, ,, 11 9	,, 36 55	,,	,,
,, ,, 12 29	,, 38 32	,,	,,
,, ,, 13 18	,, 38 25	,,	,,
,, ,, 14 33	,, 38 0	,,	,,
,, ,, 15 38	,, 36 37	,,	,,
Mean	4° 35′ 23″		

$\delta = 4°\ 35'.38$

Reduction to 1895.0 = 1.27

,, ,, sea level = 0.00

$\delta = 4°\ 36'.7$

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 5th 9h 51m	3	48° 37′.8	Iwaoka	Turuta
,, ,, 15 4	3	,, 40.5	Uziie	Iwaoka
,, ,, 19 10	3	,, 40.8	Iwaoka	Uziie
Mean		48° 39′.7		

$\theta = 48°\ 39'.7$

Reduction to 1895.0 = 0.99

,, ,, sea level = 0.00

$\theta = 48°\ 38'.7$

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 5th 8h 26m	0.30159	463.83	29°.9 C	5.6204	30°.1 C	6°37′22″.5	15° 7′16″.2	29°.8 C	Turuta	Iwaoka
,, ,, 13 27	0.30208	462.42	33.4	5.6250	33.8	6 35 36.3	15 3 18.8	33.1	Uziie	,,
,, ,, 21 3	0.30201	464.41	27.7	5.6130	27.9	6 37 35.0	15 9 6.3	27.4	Iwaoka / Uziie	Uziie / Tanakadate
Mean	0.30189									

$H = 0.30189$

Reduction to 1895.0 = 1664

,, ,, sea level = 000

$H = 0.30206$

72. KAMEYAMA.

Idamura (井田村大字和字荻野官林)

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)				δ			Observer	Recorder
Sept.	21st	4h	15m	4°	32′	45″	Tanakadate	Tanakadate
,,	,,	6	49	,,	32	27	,,	,,
,,	,,	8	2	,,	33	17	,,	,,
,,	,,	9	49	,,	34	1	,,	,,
,,	,,	12	10	,,	36	44	,,	,,
,,	,,	13	24	,,	36	4	,,	,,
,,	,,	15	57	,,	34	39	,,	,,
,,	,,	17	48	,,	33	40	,,	,,
,,	,,	19	7	,,	34	3	,,	,,
,,	,,	20	30	,,	33	10	,,	,,
,,	,,	21	20	,,	34	4	,,	,,
,,	,,	23	45	,,	34	15	,,	,,
,,	22nd	5	51	,,	33	9	,,	,,
,,	,,	7	22	,,	32	9	,,	,,
,,	,,	8	5	,,	31	38	,,	,,
Mean				4°	34′	10″		

	δ = 4°	34′17
Reduction to	1895.0 =	1.18
,, ,,	sea level =	−0.01
	δ = 4°	35′3

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)				δ			Observer	Recorder
Sept.	5th	9h	51m	4°	34′	10″	Nakamura	Tomoda
,,	,,	10	32	,,	36	20	Tomoda	Nakamura
,,	,,	11	31	,,	36	55	Nakamura	,,
,,	,,	12	30	,,	33	37	Tomoda	Tomoda
,,	,,	13	37	,,	36	40	Nakamura	,,
,,	,,	14	40	,,	35	10	Tomoda	Nakamura
,,	,,	15	41	,,	33	9	Nakamura	Tomoda
,,	,,	16	6	,,	32	34	Tomoda	Nakamura
,,	,,	17	3	,,	32	25	,,	,,
,,	,,	18	12	,,	31	51	,,	Tomoda
,,	,,	19	11	,,	32	15	Nakamura	Nakamura
,,	,,	20	5	,,	32	34	,,	,,
,,	,,	21	34	,,	32	52	Tomoda	Tomoda
,,	6th	0	3	,,	32	19	,,	,,
,,	,,	2	20	,,	31	47	,,	,,
,,	,,	3	30	,,	31	2	,,	,,
,,	,,	4	43	,,	30	11	,,	,,
,,	,,	5	52	,,	30	32	,,	,,
,,	,,	6	55	,,	30	36	,,	,,
,,	,,	7	36	,,	30	48	Nakamura	Nakamura
,,	,,	8	22	,,	31	5	,,	,,
,,	,,	9	47	,,	34	23	Tomoda	Tomoda
,,	,,	10	40	,,	36	15	,,	,,
Mean				4°	33′	1″		

	δ = 4°	33′02
Reduction to	1895.0 =	−1.54
,, ,,	sea level =	−0.01
	δ = 4°	31′4

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 6th 11h 10m	3	48° 34′2	Iwaoka	Uziie
,, ,, 15 13	3	,, 34.4	Uziie	Tanakadate
,, ,, 22 19	3	,, 35.1	Turuta	,,
Mean		50° 34′6		

$\theta = 48°\ 34'3$

Reduction to 1895.0 = −0.98

,, ,, sea level = −0.01

$\theta = 48°\ 33'5$

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 5th 11h 9m	3	48° 33′0	Nakamura	Nakamura
,, ,, 16 17	3	,, 31.1	Tomoda	,,
,, ,, 19 41	3	,, 31.9	Nakamura	,,
July. 6th 6 25	3	,, 31.3	Tomoda	Tomoda
Mean		48° 31′8		

$\theta = 48°\ 31'8$

Reduction to 1895.0 = 1.18

,, ,, sea level = −0.01

$\theta = 48°\ 33'0$

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Rscorder
				s						
Aug. 6th 9h 48m	0.30140	463.63	33°5C	5.6221	33.0C	6°36′ 4″4	15° 2′31″9	34°0C	Turuta / Iwaoka	Iwaoka / Turuta
,, ,, 14 20	0.30212	461.74	33.7	5.6200	34.3	6 35 10.0	15 2 33.7	33.1	Uziie	Tanakadate
,, ,, 19 46	0.30276	463.71	27.2	5.6105	27.7	6 36 21.0	15 5 40.0	26.8	,, / Turuta	,, / ,,
,, 7th 8 54	0.30161	462.53	33.5	5.6278	33.5	6 35 0.0	15 3 53.3	33.5	,,	Uziie
Mean	0.30197									

$H = 0.30197$

Reduction to 1895.0 = 1715

,, ,, sea level = 113

$H = 0.30215$

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Sept. 5th 13h 13m	0.30198	419.49	28°1C	5.8560	28°6C	5°59′34″4	13 34′15″6	27°6C	Tomoda	Nakamura
,, ,, 17 43	0.30199	419.70	26.1	5.8540	26.3	5 59 53.8	13 35 9.4	25.9	,,	,,
,, ,, 21 6	0.30208	419.52	26.3	5.8544	26.6	5 59 44.4	13 35 4.4	26.0	,,	,,
,, 6th 9 23	0.30198	419.12	29.4	5.8577	29.4	5 59 15.0	13 33 46.2	29.4	,,	,,
Mean	0.30201									

$H = 0.30201$

Reduction to 1895.0 = −2048

,, ,, sea level = 113

$H = 0.30182$

73. TU.

Meteorological Observatory (測候所)

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time)				δ			Observer	Recorder
Sept.	22nd	12h	17m	4°	28′	47″	Tanakadate	Tanakadate
,,	,,	13	1	,,	29	39	,,	,,
,,	,,	14	5	,,	29	28	,,	,,
,,	,,	15	12	,,	28	26	,,	,,
,,	,,	16	49	,,	27	24	,,	,,
,,	,,	17	54	,,	27	54	,,	,,
,,	,,	20	18	,,	27	41	,,	,,
,,	23rd	3	50	,,	26	26	,,	,,
,,	,,	6	57	,,	26	6	,,	,,
,,	,,	7	35	,,	25	21	,,	,,
,,	,,	8	32	,,	24	48	,,	,,
,,	,,	9	23	,,	26	26	,,	,,
,,	,,	9	57	,,	27	4	,,	,,
,,	,,	10	59	,,	28	26	,,	,,
,,	,,	11	33	,,	28	44	,,	,,
,,	,,	12	17	,,	29	2	,,	,,
Mean				4°	23′	3″9		

	δ = 4°	27′23
Reduction to	1895.0 =	1.10
,, ,,	sea level =	0.00
	δ = 4°	28′3

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)				Needle No.	θ		Observer	Recorder
Aug.	7th	18h	31m	3	48°	48′7	Iwaoka	Uziie
,,	8th	9	40	3	,,	29.9	Turuta	Iwaoka
,,	,,	10	49	3	,,	29.5	Iwaoka	Turuta
,,	,,	13	37	3	,,	32.7	,,	,,
Mean					48°	35′2		

	θ = 48°	35′2
Reduction to	1895.0 =	−0.70
,, ,,	sea level =	0.00
	θ = 48°	34′5

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)				H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug.	7th	20h	7m	0.30175	463.40	28°2C	s 5.6212	28°4C	6°37′ 7″5	15° 7′11″2	28°1C	Iwaoka	Uziie
,,	8th	8	0	0.30211	463.85	26.9	5.6144	26.8	6 36 55.0	15 6 38.8	27.1	Turuta	Iwaoka
,,	,,	8	13	0.30195	463.99	27.3	5.6144	26.8	6 36 59.0	15 6 31.3	27.8	Iwaoka	Turuta
,,	,,	12	53	0.30173	461.93	33.7	5.6313	34.2	6 35 25.0	15 2 29.0	33.3	Turuta / Iwaoka	Iwaoka / Turuta
Mean				0.30188									

	H =	0.30188
Reduction to	1895.0 =	1680
,, ,,	sea level =	000
	H =	0.30205

74. KAMIYASIRO.

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 23rd 18h 45m	4° 28′ 16″	Tanakadate	Tanakadate
,, ,, 19 39	,, 28 11	,,	,,
,, ,, 21 28	,, 28 14	,,	,,
,, 24th 2 24	,, 27 22	,,	,,
,, ,, 3 23	,, 27 25	,,	,,
,, ,, 6 44	,, 26 5	,,	,,
,, ,, 7 30	,, 25 20	,,	,,
,, ,, 8 8	,, 24 41	,,	,,
,, ,, 8 41	,, 24 57	,,	,,
,, ,, 9 46	,, 26 11	,,	,,
,, ,, 10 36	,, 27 24	,,	,,
,, ,, 11 26	,, 28 55	,,	,,
,, ,, 12 49	,, 30 30	,,	,,
,, ,, 13 19	,, 31 14	,,	,,
,, ,, 15 44	,, 29 2	,,	,,
,, ,, 16 50	,, 28 25	,,	,,
,, ,, 17 19	,, 28 25	,,	,,
,, ,, 18 0	,, 28 37	,,	,,
,, ,, 18 26	,, 28 38	,,	,,
Mean	4° 27′ 42″		

$\delta = 4°\ 27'.70$

Reduction to 1895.0 = 0.98

,, ,, sea level = 0.00

$\delta = 4°\ 28'.7$

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 8th 22h 20m	3	48° 10′.1	Iwaoka	Iwaoka
,, 9th 8 56	3	,, 9.7	Turuta	Turuta
,, ,, 15 21	3	,, 8.5	Tanakadate	Uziie
Mean		48° 9′.4		

$\theta = 48°\ 9'.4$

Reduction to 1895.0 = −0.42

,, ,, sea level = 0.00

$\theta = 48°\ 9'.0$

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 9th 7h 55m	0.30331	463.24	27°.4C	5.6075	27°.5C	6°35′10″.0	15° 3′ 1″.3	27°.4C	Uziie	Turuta
,, ,, 8 20	0.30313	463.43	27.4	5.6073	27.1	6 35 8.8	15 2 27.5	27.6	Turuta	Iwaoka
,, ,, 11 55	0.30310	430.97	36.0	5.6235	36.0	6 32 32.5	14 55 40.0	36.1	Iwaoka	,,
,, ,, 13 51	0.30353	459.68	37.4	5.6282	37.8	6 31 33.7	14 54 23.7	37.0	Uziie	Tanakadate
Mean	0.30329									

$H = 0.30329$

Reduction to 1895.0 = 1610

,, ,, sea level = 000

$H = 0.30345$

75. TOBA.

Aza Umanotani Utikosi No. 155 (字馬ノ谷打越百五十五番地)

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour. (Mean Local Time.)				δ			Observer	Recorder
Sept.	25nd	15h	40m	4°	31′	0″	Tanakadate	Tanakadate
,,	,,	16	37	,,	30	9	,,	,,
,,	,,	17	45	,,	29	50	,,	,,
,,	,,	21	43	,,	24	20	,,	,,
,,	,,	22	24	,,	25	30	,,	,,
,,	,,	23	24	,,	25	4	,,	,,
,,	26th	3	57	,,	24	16	,,	,,
,,	,,	7	14	,,	21	40	,,	,,
,,	,,	7	45	,,	20	51	,,	,,
,,	,,	8	11	,,	20	13	,,	,,
,,	,,	8	46	,,	20	48	,,	,,
,,	,,	9	12	,,	21	50	,,	,,
,,	,,	10	8	,,	23	56	,,	,,
,,	,,	11	13	,,	27	25	,,	,,
,,	,,	11	42	,,	28	25	,,	,,
,,	,,	12	13	,,	30	3	,,	,,
,,	,,	12	37	,,	30	33	,,	,,
,,	,,	13	12	,,	31	1	,,	,,
,,	,,	13	32	,,	31	11	,,	,,
,,	,,	13	50	,,	31	11	,,	,,
,,	,,	14	5	,,	30	38	,,	,,
,,	,,	14	33	,,	29	8	,,	,,
,,	,,	15	9	,,	28	0	,,	,,
,,	,,	16	19	,,	26	47	,,	,,
,,	,,	17	24	,,	26	14	,,	,,
,,	,,	18	31	,,	27	6	,,	,,
,,	,,	18	57	,,	26	26	,,	,,
,,	,,	19	20	,,	26	36	,,	,,
,,	,,	19	44	,,	26	26	,,	,,
,,	,,	20	17	,,	25	45	,,	,,
,,	,,	20	46	,,	24	55	,,	,,
,,	,,	21	12	,,	25	11	,,	,,
,,	,,	23	7	,,	26	21	,,	,,
Mean				4°	25′	53″		

	δ = 4°	25′88
Reduction to	1895.0 =	0.94
,, ,,	sea level =	0.00
	δ = 4°	26′8

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)				Needle No.	θ		Observer	Recorder
Aug.	9th	22h	47m	3	47°	59′0	Uziie	Iwaoka
,,	10th	10	3	3	,,	57.1	Iwaoka	Uziie
,,	,,	14	38	3	,,	56.6	Tanakadate	Tanakadate
,,	,,	16	8	—	,,	57.4	,,	,,
Mean					47°	57′5		

	θ = 47°	57′5
Reduction to	1895.0 =	−0.28
,, ,,	sea level =	−0.01
	θ = 47°	57′2

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 10th 8h 23m	0.30372	462.75	31°8C	5.6069 s	31.5 C	6°33′ 7″5	14°56′41″3	32.2 C	Iwaoka	Uziie
„ „ 12 56	0.30407	461.69	32.5	5.6112	33.1	6 32 21.2	14 55 36.2	31.9	Uziie / Tanakadate	Tanakadate / Iwaoka
„ „ 20 20	0.30412	463.06	26.8	5.6060	26.4	6 33 35.0	14 58 53.7	27.2	Iwaoka / „	Uziie / Tanakadate
Mean	0.30397									

H = 0.30397

Reduction to 1895.0 = 1562

„ „ sea lavel = 63

H = 0.30413

76. KATIKAWA.

No. 2023, Katikawamura near Subara Zinsya.

(須原神社近傍勝川村字南東山二千二十三番)

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 6th 15h 8m	4° 42′ 4″	Tanakadate	Tanakadate
„ „ 16 11	„ 43 10	„	„
„ „ 16 47	„ 42 40	„	„
„ „ 17 15	„ 42 40	„	„
„ „ 18 7	„ 43 33	„	„
„ „ 19 36	„ 43 20	„	„
„ „ 21 32	„ 40 10	„	„
„ „ 21 38	„ 38 39	„	„
„ 7th 3 41	„ 42 2	„	„
„ „ 6 53	„ 42 34	„	„
„ „ 7 23	„ 41 51	„	„
„ „ 8 15	„ 40 49	„	„
„ „ 9 3	„ 42 2	„	„
„ „ 10 12	„ 43 52	„	„
„ „ 11 25	„ 47 5	„	„
„ „ 12 12	„ 47 59	„	„
„ „ 12 55	„ 47 13	„	„
„ „ 13 55	„ 46 44	„	„
„ „ 14 46	„ 45 0	„	„
„ „ 15 13	„ 44 25	„	„
Mean	4° 43′ 14″		

δ = 4° 43′23

Reduction to 1895.0 = 1.25

„ „ sea level = 0.00

δ = 4° 44′5

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 12th 19h 54m	3	48° 53′1	Tanakadate	Uziie
„ 13th 9 54	3	„ 52.8	Iwaoka	Iwaoka
„ „ 14 50	3	„ 57.7	Uziie	„
Mean		48° 54′5		

θ = 48° 54′5

Reduction to 1895.0 = −0.83

„ „ sea level = 0.00

θ = 48° 53′7

HORIZONTAL INTENSITY (*H*)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 12th 18h 21m	0.30087	462.55	29°0C	5.6344	29°0C	6°37′17″5	15° 7′15″0	28°9C	Iwaoka	Iwaoka
„ „ 22 4	0.30141	462.66	26.6	5.6288	26.8	6 37 20.0	15 8 15.0	25.5	Uziie	Tanakadate
„ 13th 8 6	0.30006	462.20	31.3	5.6417	30.0	6 36 56.3	15 5 18.8	32.7	„ Turuta	Iwaoka Uziie
Mean	0.30078									

$H = 0.30078$

Reduction to 1895.0 = 1599

„ „ sea level = 000

$= 0.30094$

77. KIYOSU.

Aza Baba Gozyōgawa embankment (字馬場五條川東岸堤防上)

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 30th 8h 0m	4° 35′ 55″	Tanakadate	Tanakadate
„ „ 8 32	„ 36 17	„	„
„ „ 9 27	„ 37 24	„	„
„ „ 10 35	„ 40 44	„	„
„ „ 11 17	„ 41 33	„	„
„ „ 11 52	„ 41 59	„	„
„ „ 12 0	„ 41 53	„	„
„ „ 13 7	„ 42 13	„	„
„ „ 14 10	„ 41 26	„	„
„ „ 15 34	„ 39 5	„	„
„ „ 17 25	„ 40 55	„	„
„ „ 18 17	„ 41 15	„	„
„ „ 18 51	„ 42 39	„	„
„ „ 20 5	„ 41 2	„	„
„ „ 21 21	„ 39 59	„	„
„ „ 22 6	„ 38 8	„	„
Oct. 1st 0 9	„ 36 55	„	„
„ „ 9 13	„ 35 35	„	„
„ „ 9 47	„ 38 56	„	„
„ „ 10 33	„ 40 49	„	„
„ „ 11 32	„ 43 53	„	„
„ „ 12 29	„ 44 50	„	„
„ „ 13 44	„ 45 9	„	„
„ „ 14 27	„ 44 42	„	„
„ „ 15 28	„ 42 43	„	„
„ „ 16 53	„ 41 7	„	„
„ „ 17 35	„ 41 14	„	„
„ „ 18 16	„ 41 25	„	„
„ „ 19 18	„ 41 21	„	„
„ „ 20 20	„ 41 1	„	„
„ „ 22 21	„ 40 54	„	„
„ 2nd 3 45	„ 39 54	„	„
„ „ 7 6	„ 37 31	„	„
„ „ 7 48	„ 36 30	„	„
„ „ 8 11	„ 35 8	„	„
„ „ 8 40	„ 32 0	„	„
„ „ 8 57	„ 33 15	„	„
„ „ 9 20	„ 33 23	„	„
„ „ 9 41	„ 34 26	„	„
„ „ 10 1	„ 35 40	„	„
Mean	4° 39′ 38″		

$\delta = 4°\ 39′63$

Reduction to 1895.0 = 1.29

„ „ sea level = 0.09

$\delta = 4°\ 40′9$

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 13th 23h 50m	3	48° 56′0	Iwaoka	Tanakadate
,, 14th 9 18	3	49 0.2	Turuta	Uziie
,, ,, 14 16	—	48 53.0	Tanakadate	Tanakadate
Mean		48° 56′4		

$\theta = 48°\ 56'4$
Reduction to 1895.0 = −0.97
,, ,, sea level = 0.06
$\vartheta = 48°\ 55'4$

HORIZONTAL INTENSITY (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 13th 21h 16m	0.30095	462.26	28.1C	s 5.6364	28.7C	6°37′25″0	15°7′58″8	27.4C	Iwaoka / Tanakadate	Tanakadate / Iwaoka
,, 14th 7 36	0.30055	462.52	28.9	5.6369	28.6	6 37 23.7	15 7 11.3	29.3	Uziie	Tanakadate
,, ,, 12 34	0.30055	460.00	35.1	5.6527	35.0	6 35 8.8	15 1 58.8	35.2	Iwaoka	Turuta
Mean	0.30068									

$H = 0.30068$
Reduction to 1895.0 = 1634
,, ,, sea level = 000
$H = 0.30084$

78. GIHU.

Play ground at Tyūgaku (中學校運動場)

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	θ	Observer	Recorder
Sept. 6th 10h 55m	4° 44′ 4″	Iwaoka	Uziie
,, ,, 11 21	,, 45 51	,,	Turuta
,, ,, 12 11	,, 45 55	,,	Tanakadata
,, ,, 12 48	,, 45 19	,,	Iwaoka
,, ,, 13 20	,, 45 35	,,	Uziie
,, ,, 14 4	,, 45 25	Uziie	,,
,, ,, 14 46	,, 44 0	,,	,,
,, ,, 15 15	,, 45 33	,,	Turuta
,, ,, 15 53	,, 44 9	Turuta	,,
,, ,, 16 24	,, 43 58	,,	Tanakadate
,, ,, 17 14	,, 43 11	Tanakadate	,,
,, ,, 17 31	,, 43 30	,,	,,
,, ,, 18 17	,, 43 28	,,	,,
,, ,, 19 7	,, 44 8	Iwaoka	Iwaoka
,, ,, 19 50	,, 43 59	Turuta	Turuta
,, ,, 20 38	,, 42 35	,,	Iwaoka
,, ,, 22 45	,, 43 34	,,	,,
,, ,, 23 39	,, 43 50	,,	,,
,, 7th 5 26	,, 41 40	,,	,,
,, ,, 6 9	,, 40 34	,,	Turuta
,, ,, 6 46	,, 39 54	,,	,,
,, ,, 7 23	,, 39 52	Iwaoka	Tanakadate
,, ,, 8 11	,, 40 29	,,	,,
,, ,, 9 10	,, 42 2	,,	,,
Mean	4° 43′ 18″		

$\delta = 4°\ 43'30$
Reduction to 1895.0 = 1.45
,, ,, sea level = −0.01
$\delta = 4°\ 44'7$

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 15th 9h 41m	3	49° 9′5	Turuta	Turuta
,, ,, 14 29	3	,, 10.3	Iwaoka	Uziie
,, ,, 20 49	3	,, 6.0	Turuta	Turuta
,, 16th 21 30	3	,, 10.1	Uziie	Uziie
Mean		49° 9′0		

$\theta = 49° 9'0$
Reduction to 1895.0 = −1.24
,, ,, sea level = −0.02
$\theta = 49° 7'7$

HORIZONTAL INTENSITY.
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 15th 8h 5m	0.30067	461.64	29°5C	5.6430 s	28°7C	6°36′59″0	15° 6′36″2	30°3C	Uziik / Turuta	Iwaoka / ,,
,, ,, 13 48	0.30058	459.24	36.4	5.6588	37.1	6 34 51.3	15 1 38.1	35.8	,, / Iwaoka	Tanakadate / Uziie
,, 16th 6 19	0.30034	462.60	26.2	5.6394	26.0	6 37 54.0	15 8 15.0	26.4	Turuta	Tanakadate
,, ,, 7 20	0.30028	461.65	28 7	5.6448	28.3	6 37 5.0	15 6 35.0	29.0	,,	,,
,, ,, 8 18	0.30028	460.72	32.4	5.6504	32.0	6 36 0.0	15 3 46.0	32.9	,,	,,
,, ,, 9 29	0.30075	458.69	35.6	5.6586	35.2	6 34 22.5	15 1 16.0	35 9	,,	,,
,, ,, 10 22	0.30036	458.57	37.1	5.6631	36.7	6 34 7.5	14 59 45.0	37.5	,,	,,
,, ,, 11 19	0.30011	458.52	38.4	5.6666	38.4	6 34 12.5	14 59 26.0	38.3	,,	,,
,, ,, 12 33	0.30027	457.31	40.2	5.6736	40.8	6 33 25.0	14 58 11.0	39.7	,,	,,
,, ,, 13 38	0.30064	457.22	38.6	5.6718	39.8	6 33 35.0	14 59 22.5	37.4	,,	,,
,, ,, 14 56	0.30024	458.35	36.4	5.6679	37.2	6 34 35.0	15 0 57.5	35.5	,,	,,
,, ,, 16 25	0.30050	458.56	35.0	5.6638	35.8	6 34 44.0	15 1 46.3	34.1	,,	,,
,, ,, 17 38	0.30074	459.59	32.1	5.6559	33.3	6 35 39.0	15 4 11.0	30.9	,,	,,
,, ,, 18 47	0.30067	460.86	28.8	5.6475	29.2	6 36 32.5	15 6 0.0	28.4	,,	,,
,, 17th 0 15	0.30037	461.61	27.5	5.6450	27.7	6 37 1.3	15 6 18.8	27.4	,,	,,
Mean	0.30045									

H = 0.30045
Reduction to 1895.0 = 1681
,, ,, sea level = 192
H = 0.30064

79. NAKATUGAWA.

Park of Aza Uegane (字上金公園)

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 8th 17h 8m	4° 43′ 26″	Tanakadate	Tanakadate
,, ,, 17 47	,, 44 0	,,	,,
,, ,, 18 30	,, 44 1	,,	,,
,, ,, 19 9	,, 43 35	,,	,,
,, ,, 20 23	,, 42 50	,,	,,
,, ,, 21 45	,, 43 23	,,	,,
,, 9th 1 34	,, 41 50	,,	,,
,, ,, 5 15	,, 41 25	,,	,,
,, ,, 7 15	,, 41 50	,,	,,
,, ,, 7 52	,, 41 6	,,	,,
,, ,, 8 33	,, 39 46	,,	,,
,, ,, 9 11	,, 39 5	,,	,,
,, ,, 9 45	,, 39 26	,,	,,
,, ,, 10 30	,, 40 29	,,	,,
,, ,, 11 28	,, 42 51	,,	,,
,, ,, 12 23	,, 44 25	,,	,,
,, ,, 14 36	,, 42 45	,,	,,
,, ,, 15 4	,, 42 19	,,	,,
,, ,, 15 58	,, 42 14	,,	,,
,, ,, 16 24	,, 42 8	,,	,,
,, ,, 16 57	,, 42 15	,,	,,
,, ,, 17 37	,, 41 49	,,	,,
Mean	4° 42′ 8″		

$\delta = 4° 42'13$
Reduction to 1895.0 = 1.32
,, ,, sea level = −0.02
$\delta = 4° 43'4$

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 19th 10h 12m	3	49° 11′3	Iwaoka	Tanakadate
„ „ 14 48	—	„ 9.2	..	..
„ „ 21 32	3	„ 3.5	Uziie	Uziie / Iwaoka
Mean		49° 8′0		

$\theta = 49° 8'0$

Reduction to 1895.0 = −0.41

„ „ sea level = −0.03

$\theta = 49° 7'6$

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 19th 8h 35m	0.29834	461.67	25°0C	5.65355	25°1C	6′40″ 2″5	15′13′40″0	24°9C	Uziie / Iwaoka	Tanakadate / „
„ „ 13 30	0.29938	460.23	27.8	5.66410	28.6	6 37 58.8	15 9 36.3	27.1	Iwaoka / Tanakadate	Uziie / Iwaoka
„ „ 19 11	0.29887	462.08	22.6	5.65590	22.6	6 39 57.5	15 13 46.3	22.7	Iwaoka / Tanakadate	Tanakadate / Iwaoka
Mean	0.29886									

$H = 0.29886$

Reduction to 1895.0 = 1322

„ „ sea level = 331

$H = 0.29903$

80. IIDA.

Aza Imamiya (字今宮切開地)

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 22nd 7h 44m	4° 28′ 32″	Tanakadate	Iwaoka
„ „ 9 7	„ 30 20	Iwaoka	Uziie
„ „ 10 27	„ 33 0	Tanakadate	„
„ „ 11 7	„ 34 16	Iwaoka	Tanakadate
„ „ 11 45	„ 35 4	Uziie	„
„ „ 13 38	„ 36 1	Tanakadate	Uziie
„ „ 15 11	„ 33 39	„	Iwaoka
„ „ 16 19	„ 33 0	Uziie	„
„ „ 17 8	„ 32 36	Iwaoka	Uziie
„ „ 17 45	„ 31 20	„	„
„ „ 19 40	„ 32 20	„	Tanakadate
„ „ 21 15	„ 34 35	„	„
„ „ 22 24	„ 32 34	„	„
„ „ 23 26	„ 32 0	„	„
Mean	4° 32′ 6″		

$\delta = 4° 32'10$

Reduction to 1895.0 = 1.44

„ „ sea level = −0.03

$\delta = 4° 33'5$

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 11th 8h 21m	4° 35′ 1″	Tanakadate	Tanakadate
,, ,, 9 16	,, 34 54	,,	,,
,, ,, 10 23	,, 36 51	,,	,,
,, ,, 11 32	,, 38 25	,,	,,
,, ,, 12 21	,, 38 38	,,	,,
,, ,, 13 29	,, 35 15	,,	,,
,, ,, 13 38	,, 35 0	,,	,,
,, ,, 14 19	,, 34 38	,,	,,
,, ,, 15 27	,, 33 56	,,	,,
,, ,, 16 20	,, 33 50	,,	,,
,, ,, 17 36	,, 33 41	,,	,,
,, ,, 19 4	,, 33 24	,,	,,
,, ,, 22 53	,, 33 0	,,	,,
,, 12th 0 22	,, 32 31	,,	,,
,, ,, 2 21	,, 31 39	,,	,,
,, ,, 5 46	,, 31 20	,,	,,
Mean	4° 33′ 37″		

δ = 4° 33′62
Reduction to 1895.0 = 1.30
,, ,, sea level = 0.03
δ = 4° 34′9

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 22nd 10h 3m	3	49° 7′7	Iwaoka	Uziie
,, ,, 14 49	--	,, 5.0	Tanakadate	Iwaoka
,, ,, 19 9	3	,, 6.6	Uziie	Tanakadate
Mean		49° 6.4		

θ = 49° 6′4
Reduction to 1895.0 = −0.26
,, ,, sea level = −0.05
δ = 49° 6′1

HORIZONTAL INTENSITY (*H*)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 22th 8h 39m	0.29805	461.50	24°1C	s 5.66767	24.5C	6°40′27″5	15°14′45″0	23°8C	Iwaoka	Uziie
,, ,, 13 8	0.29871	461.45	24.6	5.6621	25.1	6 39 33.7	15 12 40.0	24.1	Uziie	Tanakadate
,, ,, 20 14	0.29849	461.88	23.2	5.6608	23.4	6 40 8.8	15 14 0.0	23.1	,, Tanakadate	Iwaoka ,,
Mean	0.29842									

H = 0.29842
Reduction to 1895.0 = 1164
,, ,, sea level = 673
H = 0.29860

81. MATUŌ.

Aza Tyagarayama, Sisizuka (字茶柄山獅子塚)

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 23rd 10h 42m	4° 40′ 48″	Tanakadate	Uziie
,, ,, 12 38	,, 43 58	Uziie	Iwaoka
,, ,, 13 53	,, 41 15	,,	,,
,, ,, 15 28	,, 40 17	,,	,,
,, ,, 16 2	,, 37 10	Iwaoka	Uziie
,, ,, 18 3	,, 34 9	,,	,,
,, ,, 20 13	,, 34 34	,,	,,
,, ,, 21 25	,, 43 3	,,	,,
,, 24th 6 45	,, 38 48	,,	,,
Mean	4° 36′ 15″		

δ = 4° 36′25
Reduction to 1895.0 = 1.44
,, ,, sea level = −0.03
δ = 4° 37′7

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 23rd 11h 59m	3	49° 10′6	Iwaoka	Uziie
„ „ 17 29	3	„ 11.5	Uziie	Iwaoka
Mean		49° 11′1		

$\theta = 49° 11'3$
Reduction to 1895.0 = −0.27
„ „ sea level = −0.05
$\theta = 49° 10'8$

HORIZONTAL INTENSITY (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Rec rder
Aug. 23rd 14h 50m	0.29822	458.80	31°2C	s 5.68320	31°5C	6°37′40″6	15° 8′15″0	30°9C	Iwaoka	Uziie
„ „ 19 31	0.29821	460.94	24.3	5.66944	24.6	6 39 52.5	15 13 18.8	24.1	Uziie	Tanakadate
Mean	0.29822									

$H = 0.29822$
Reduction to 1895.0 = 1197
„ „ sea level = 673
$H = 0.29841$

82. HUKUSIMA.

No. 1846, Hukusimamura (福島村千八百四十六番地)

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 25th 2h 3m	4° 56′ 55″	Iwaoka	Iwaoka
„ „ 6 36	„ 52 50	Tanakadate	Uziie
„ „ 8 15	„ 51 59	Uziie	Tanakadate
„ „ 9 36	„ 53 54	Tanakadate	Uziie
„ „ 10 20	„ 56 1	Uziie	Tanakadate
„ „ 11 36	„ 59 52	Tanakadate	Uziie
„ „ 12 6	5° 0 58	„	Iwaoka
„ „ 13 38	„ 0 53	„	„
„ „ 15 21	„ 0 8	Iwaoka	Tanakadate
„ „ 16 30	„ 58 29	„	Uziie
„ „ 17 25	„ 57 0	Uziie	Iwaoka
„ „ 19 28	„ 54 25	„	„
„ „ 22 30	„ 54 19	Iwaoka	Uziie
Mean	4° 56′ 1″		

$\delta = 4° 56'02$
Reduction to 1895.0 = 1.57
„ „ sea level = −0.06
$\delta = 4° 57'5$

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 26th 9h 9m	3	50° 25′4	Tanakadate	Uziie
„ „ 14 46	3	„ 20.3	Iwaoka	Tanakadate
„ „ 21 25	3	„ 23.5	Uziie	Iwaoka
Mean		50° 23′1		

$\theta = 50° 23'1$
Reduction to 1895.0 = −0.68
„ „ sea level = −0.07
$\theta = 50° 22'3$

HORIZONTAL INTENSITY (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections. φ_1	Mean Deflections. φ_2	Temp. t_D	Observer	Recorder
Aug. 23th 7h 44m	0.29565	462.51	20°2C	5.68218	19°5C	6°44′11″3	15°23′ 8″8	20°9C	Uziie / Tanakadate	Tanakadate / Uziie
„ „ 13 13	0.29612	458.06	32.0	5.70754	32.3	6 40 1.3	15 14 0.0	31.7	Iwaoka / Tanakadate	Tanakadate / Iwaoka
„ „ 18 46	0.29595	462.15	20.7	5.6822	20.3	6 43 45.0	15 22 23.8	21.0	Uziie / Iwaoka	„ / Uziie
Mean	0.29591									

H = 0.29591
Reduction to 1895.0 = 1276
„ „ sea level = 998
H = 0.29614

83. NOMUGI.

Aza Simonohara (字下ノ原)

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 28th 8h 58m	4′ 52′ 45″	Tanakadate	Uziie
„ „ 10 14	„ 55 10	„	„
„ „ 11 56	„ 59 13	„	„
„ „ 12 40	„ 58 58	Uziie	Tanakadate
„ „ 13 57	„ 59 55	Iwaoka	„
„ „ 15 50	„ 58 3	„	Iwaoka
„ „ 17 1	„ 55 52	„	„
„ „ 17 42	„ 55 23	Iwaoka	„
„ „ 19 48	„ 54 50	„	„
„ „ 22 53	„ 54 33	„	„
Mean	4′ 55′ 2″		

δ = 4° 5503
Reduction to 1895.0 = 1.68
„ „ sea level = −0.08
δ = 4° 5606

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 28th 11h 32m	3	49° 38′6	Iwaoka	Tanakadate
„ „ 15 17	—	„ 38.4	„	Iwaoka
„ „ 22 2	—	„ 38.8	„	„
Mean		49° 38′6		

θ = 49° 38′6
Reduction to 1895.0 = −0.95
„ „ sea level = −0.10
θ = 49° 37′5

HORIZONTAL INTENSITY (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 28th 9h 50m	0.29894	460.31	26°7C	5.6655	26°4C	6°37′43″8	15°7′ 57″5	25°9C	Uziie / Tanakadate	Tanakadate / Uziie
„ „ 13 29m	0.29935	458.82	29.9	56.732	30.8	6 36 3.0	15 5 40.0	28.9	„ / Iwaoka	„ / „
„ „ 19 9	0.29913	462.25	19.4	5.6519	19.3	6 39 42.5	15 13 3.8	19 4	„	Tanakadate
Mean	0.29914									

H = 0 29914
Reduction to 1895.0 = 1327
„ „ sea level = 1496
H = 0.29942

84. TAKAYAMA.

Ōnatamura (大名田村大字江名子字守屋ク洞官林) (97)

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 30th 9h 1m	4° 47′ 4″	Iwaoka	Iwaoka
,, ,, 10 22	,, 49 18	Turuta	Tanakadate
,, ,, 11 34	,, 52 15	Iwaoka	Turuta
,, ,, 12 24	,, 52 59	Turuta	Uziie
,, ,, 13 44	,, 53 35	Uziie	Turuta
,, ,, 14 30	,, 53 25	Turuta	Uziie
,, ,, 15 52	,, 52 17	Uziie	Turuta
,, ,, 17 8	,, 50 31	Turuta	,,
,, ,, 19 43	,, 50 50	Tanakadate	,,
,, ,, 21 21	,, 50 29	,,	,,
,, ,, 22 23	,, 49 30	,,	,,
,, ,, 23 24	,, 49 47	,,	,,
,, 31st 5 6	,, 48 10	Iwaoka	Uziie
,, ,, 7 35	,, 45 45	Uziie	Iwaoka
,, ,, 9 14	,, 48 43	Iwaoka	Uziie
,, ,, 17 48	,, 49 53	Uziie	Iwaoka
,, ,, 22 6	,, 50 11	Iwaoka	Uziie
Mean	4° 50′ 7″		

$\delta = 4°\ 50'12$

Reduction to 1895.0 = 1.74

,, ,, sea level = −0.04

$\delta = 4°\ 51'8$

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 30th 10h 1m	3	49° 49′5	Iwaoka	Tanakadate
,, ,, 13 22	3	,, 44.4	Turuta	Uziie
,, ,, 18 21	3	,, 48.4	Uziie	Turuta
Mean		49° 47′5		

$\theta = 49°\ 47'5$

Reduction to 1895.0 = −1.21

,, ,, sea level = −0.05

$\theta = 49°\ 46'2$

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_v	Observer	Recorder
				s						
Aug. 30th 15h 26m	0.29858	458 31	27°0C	5.6832	29°7C	6°37′12″5	15° 7′36″3	28°4C	Turuta	Uziie
,, 31st 6 5	0.29794	461.46	19.7	5.6681	19.7	6 40 36.3	15 15 7.5	19.7	Uziie / Iwaoka	Iwaoka / Uziie
,, ,, 7 9	0.29809	461.12	21.0	5.6681	21.0	6 39 57.5	15 13 40.6	21.0	,,	,,
,, ,, 9 48	0.29791	457.31	32.6	5.6947	32.5	6 36 43.1	15 6 6.3	32.7	,,	,,
,, ,, 10 57	0.29751	457.73	31.7	5.6957	33.0	6 37 35.0	15 7 59.4	30.4	,,	,,
,, ,, 12 22	0.29811	456.12	36.2	5.7012	36.7	6 35 22.5	15 2 47.5	35.8	,,	,,
,, ,, 13 47	0.29810	456.71	33.5	5.6976	33.9	6 36 9.4	15 4 55.6	33.1	,,	,,
,, ,, 14 56	0.29800	457.00	31.8	5.6976	32.7	6 36 47.5	15 6 27.5	30.9	,,	,,
,, ,, 16 7	0.29782	458.91	25.5	5.6882	27.0	6 39 2.5	15 11 47.5	24.0	,,	,,
,, ,, 17 16	0.29736	461.84	21.1	5.67143	21.0	6 40 6.3	15 11 23.1	21.2	,,	,,
,, ,, 18 29	0.29812	461.12	20.8	5.66924	21.2	6 40 11.3	15 14 15.0	20.5	,,	,,
,, ,, 21 32	0.29812	461.33	19.5	5.6673	19.7	6 40 31.3	15 15 20.0	19.4	,,	,,
Mean	0.29797									

$H = 0.29797$

Reduction to 1895.0 = 1437

,, ,, sea level = 722

$H = 0.29819$

85. Gero.

Ōaza Morigumi (大字森組)

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 2nd 0h 39m	4° 46′ 0″	Tanakadate	Turuta
,, ,, 7 5	,, 40 51	Iwaoka	,,
,, ,, 9 1	,, 40 54	Uziie	Iwaoka
,, ,, 10 39	,, 45 16	Tanakadate	,,
,, ,, 11 29	,, 47 9	,,	Uziie
,, ,, 12 23	,, 49 5	,,	,,
,, ,, 13 54	,, 49 34	Uziie	Iwaoka
,, ,, 15 20	,, 47 59	Iwaoka	Uziie
,, ,, 16 24	,, 47 0	,,	Turuta
,, ,, 17 28	,, 46 4	,,	,,
,, ,, 18 25	,, 46 13	Turuta	,,
,, ,, 19 55	,, 46 0	Uziie	,,
,, ,, 20 39	,, 45 57	Tanakadate	,,
Mean	4° 45′ 28″		

$\delta = 4°\ 45'.47$

Reduction to 1895.0 = 1.61

,, ,, sea level = −0.04

$\delta = 4°\ 47'.0$

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 1st 23h 11m	3	49° 29′.0	Iwaoka	Uziie
,, 2nd 10 8	—	,, 31.1	Uziie	Iwaoka
,, ,, 14 50	3	,, 34.0	Turuta	Uziie
Mean		49° 31′.4		

$\theta = 49°\ 31'.4$

Reduction to 1895.0 = −0.93

,, ,, sea level = −0.05

$\theta = 49°\ 30'.4$

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 2nd 8h 32m	0.29877	460.57	21°.7 C	s 5.6653	21°.4 C	° ′ ″ 6 38 44.4	° ′ ″ 15 11 1.9	21°.9 C	Iwaoka	Uziie
,, ,, 13 19	0.29863	456.68	33.3	5.6033	33.9	6 35 22.5	15 2 55.0	32.6	Uziie / Turuta	Tanakadate / ,,
,, ,, 19 24	0.29904	453.75	24.1	5.7060	24.3	6 32 21.3	14 55 53.8	24.0	,,	,,
Mean	0.29881									

$H = 0.29881$

Reduction to 1895.0 = 1426

,, ,, sea level = 742

$H = 0.29903$

86. HATIMAN.

Hatimanmati Ōaza Simatani Aza Imamati (八幡町大字島谷字今町)

DECLINATION (δ)

Observations of the West Party, 1893.

Daet and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 4th 7h 30m	4° 45′ .0″	Iwaoka	Turuta
,, ,, 9 26	,, 46 56	Tanakadate	,,
,, ,, 10 58	,, 49 49	,,	,,
,, ,, 11 45	,, 50 59	,,	,,
,, ,, 12 25	,, 51 36	,,	,,
,, ,, 14 7	,, 52 16	Uziie	Iwaoka
,, ,, 15 41	,, 50 45	,,	,,
,, ,, 17 5	,, 49 15	Iwaoka	Uziie
,, ,, 19 25	,, 48 52	,,	,,
,, ,, 21 3	,, 48 52	Turuta	,,
,, ,, 22 6	,, 48 56	Iwaoka	Turuta
Mean	4° 48′ 8″		

$\delta = 4°\ 48'.13$

Reduction to 1895.0 = 1.59

,, ,, sea level = −0.01

$\delta = 4°\ 49'.7$

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder.
Sept. 4th 10h 36m	3	49° 23′3	Tanakadate	Turuta
,, ,, 15 13	3	,, 24.4	Iwaoka	Uziie
,, ,, 18 12	3	,, 23.2	Uziie	,,
Mean		49° 23′3		

$\theta = 49°\ 23'.6$
Reduction to 1895.0 = −1.20
,, ,, sea level = −0.02
$\theta = 49°\ 22'.4$

HORIZONTAL INTENSITY (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 4th 8h 51m	0.29982	453.60	25°.1C	5.6993 s	25°.1C	6°30′56″.2	14°52′20″.0	25°.1C	Turuta	Tanakadate
,, ,, 13 30	0.29998	452.09	27.3	5.7057	26.5	6 29 33.8	14 49 45.0	28.2	Tanakadate	Turuta
,, ,, 20 22	0.29989	454.52	21.5	5.6923	21.4	6 31 51.3	14 54 42.5	21.6	Iwaoka / Turuta	Uziie / ,,
Mean	0.29990									

$H = 0.29990$
Reduction to 1895.0 = 1512
,, ,, sea level = 269
$H = 0.30008$

87. NAGAMINE.

Nagaminemura Aza Umanose (長嶺村字馬ノ瀬)

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	θ	Observer	Recorder
Sept. 7th 21h 48m	4° 57′ 29″	Tanakadate	Iwaoka
,, 8th 2 26	,, 55 42	Uziie	Uziie
,, ,, 4 46	,, 54 20	,,	,,
,, ,, 5 54	,, 53 15	,,	,,
,, ,, 8 48	,, 52 19	Tanakadate	Turuta
,, ,, 10 25	,, 55 55	,,	,,
,, ,, 11 29	,, 56 26	,,	,,
,, ,, 12 11	,, 57 28	Iwaoka	,,
,, ,, 13 42	,, 58 54	,,	Iwaoka
,, ,, 15 26	,, 55 34	Uziie	,,
,, ,, 16 21	,, 53 7	,,	Tanakadate
,, ,, 16 49	,, 52 25	Tanakadate	Uziie
,, ,, 18 20	,, 55 16	,,	,,
,, ,, 20 13	,, 54 20	,,	,,
,, ,, 20 56	,, 53 43	,,	Tanakadate
Mean	4° 54′ 34″		

$\delta = 4°\ 54'.57$
Reduction to 1895.0 = 1.58
,, ,, sea level = −0.03
$\delta = 4°\ 56'.1$

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 8th 0h 39m	3	49° 33′.0	Uziie	Uziie
,, ,, 10 2	3	,, 27.4	Turuta	Tanakadate
,, ,, 14 51	3	,, 30.1	Iwaoka	Iwaoka
,, ,, 17 55	3	,, 27.9	Tanakadate	Uziie
Mean		49° 29′.6		

$\theta = 49°\ 29'.6$
Reduction to 1895.0 = −1.45
,, ,, sea level = −0.04
$\theta = 49°\ 28'.1$

HORIZONTAL INTENSITY (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 8th 7h 51m	0.29933	453.89	22°5C	5.7017 s	22°4C	6°32′10″0	14°55′35″0	22°6C	Uziie / Iwaoka	Iwaoka / Uziie
,, ,, 13 21	0.29947	451.71	28.7	5.7153	29.2	6 30 2.5	14 50 40.6	28.3	,,	Tanakadate
,, ,, 19 36	0.29907	453.47	23.2	5.7075	23.5	6 32 13.8	14 55 47.5	23.0	Iwaoka	Uziie
Mean	0.29929									

H = 0.29929
Reduction to 1895.0 = 1632
,, ,, sea level = 474
H = 0.29950

88. NAGAHAMA.

Ruin of Old Castle (舊城趾)

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 9th 18h 8m	4° 44′ 2″	Tanakadate	Turuta
,, ,, 19 55	,, 45 0	Uziie	Iwaoka
,, ,, 22 5	,, 45 48	,,	Turuta
,, 10th 3 4	,, 45 53	Turuta	,,
,, ,, 6 20	,, 44 17	Tanakadate	Tanakadate
,, ,, 7 7	,, 44 21	,,	Turuta
,, ,, 8 45	,, 45 19	,,	Uziie
,, ,, 8 52	,, 45 29	,,	,,
,, ,, 10 50	,, 48 6	Uziie	,,
,, ,, 11 49	,, 49 23	,,	,,
,, ,, 12 34	,, 50 30	,,	Tanakadate
,, ,, 13 54	,, 55 5	,,	,,
,, ,, 14 11	,, 48 50	Tanakadate	Uziie
,, ,, 16 27	,, 44 39	Turuta	,,
,, ,, 17 54	,, 45 5	Tanakadate	Turuta
,, ,, 18 33	,, 45 35	,,	,,
Mean	4° 46′ 8″		

δ = 4° 46′13
Reduction to 1895.0 = 1.43
,, ,, sea level = 0.00
δ = 4° 47′5

DECLINATION. (δ)
Observations of the Kinki Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July. 15th 22h 33m	4° 49′ 7″	Tomoda	Tomoda
,, 16th 4 28	,, 48 15	,,	,,
,, ,, 5 37	,, 47 44	,,	,,
,, ,, 7 10	,, 46 8	,,	,,
,, ,, 7 52	,, 46 7	Katō	,,
,, ,, 9 11	,, 46 10	,,	Katō
,, ,, 10 19	,, 47 46	,,	,,
,, ,, 11 25	,, 49 59	,,	,,
,, ,, 12 28	,, 52 42	Tomoda	Tomoda
,, ,, 13 26	,, 54 16	Katō	Katō
,, ,, 13 47	,, 54 29	,,	,,
,, ,, 15 2	,, 54 47	Tomoda	,,
,, ,, 16 8	,, 53 19	Katō	Tomoda
,, ,, 18 49	,, 50 50	Tomoda	,,
,, ,, 19 58	,, 49 30	,,	,,
Mean	4° 49′ 48″		

δ = 4° 49′0
Reduction to 1895.0 = −1.68
,, ,, sea level = 0.00
δ = 4° 48′1

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 9th 21h 31m	3	49° 12′6	Iwaoka	Uziie
,, 10th 10 16	3	,, 11.5	Uziie	,,
,, ,, 15 41	3	,, 3.7	Tanakadate	,,
,, ,, 17 20	3	,, 5.3	,,	Turuta
Mean		49° 8′3		

$\theta = 49° \; 8'3$
Reduction to 1895.0 = −1.44
,, ,, sea level = −0.01
$\theta = 49° \; 6'8$

DIP (θ)
Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 16th 6h 38m	3	49° 5′3	Tomoda	Tomoda
,, ,, 19 56	3	,, 6.7	Katō	Katō
,, ,, 16 43	3	,, 8.7	Tomoda	,,
Mean		49° 7′0		

$\theta = 49° \; 7'0$
Reduction to 1895.0 = 1.69
,, ,, sea level = −0.01
$\theta = 49° \; 8'7$

HORIZONTAL INTENSITY (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 9th 19h 16m	0.30059	452.67	25°8C	s 5.6967	25°2C	6°29′ 5″0	14°48′11″3	26°3C	Turuta, Tanakadate	Tanakadate, Turuta
,, 10th 8 21	0.30090	451.57	29.4	5.7007	28.8	6 27 45.0	14 45 16.3	30.0	Uziie	Tanakadate
,, ,, 13 32	0.30118	449.88	33.7	5.7128	35.2	6 26 20.0	14 41 51.3	32.3	,, Tanakadate	,, Uziie
Mean	0.30089									

$H = 0.30089$
Reduction to 1895.0 = 1683
,, ,, sea level = 64
$H = 0.30106$

HORIZONTAL INTENSITY (H)
Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 15th 22h 2m	*0.30129	424.23	23°5C	s 5.8096	23°4C	(6° 4′46″2	13°46′45″1	23°6C)	Tomoda, Katō	Katō, Tomoda
,, 16 8 46	0.30111	422.26	29.5	5.8439	29.0	6 3 5.0	13 42 51.9	30.0	Tomoda	Katō
,, ,, 14 37	0.30108	421.93	31.0	5.8495	32.1	6 3 0.0	13 42 25.6	29.9	,, Katō	,, Tomoda
Mean	0.30116									

$H = 0.30116$
Reduction to 1895.0 = −1954
,, ,, sea level = 64
$H = 0.30097$

Nagahama (長濱ヽ出張)

At station, observed in 1887.

DIP (θ)
Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 18h 24m	3	59° 7′0	Katō	,,

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M*)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
	*0.30064	423.14	27°4 C	5.8431 s	27°5 C	..	..	..	Katō	Katō

89. TURUGA.

Matubaramura Ōaza Matusima (松原村大字松島第百八號字野畑第五番畑)

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 11th 2h 20m	4° 45′ 21″	Iwaoka	Iwaoka
„ „ 5 50	„ 43 23	Tanakadate	Tanakadate
„ „ 6 0	„ 42 3	„	„
„ „ 6 31	„ 42 29	„	Turuta
„ „ 9 18	„ 46 46	Uziie	„
„ „ 11 9	„ 51 29	Turuta	Uziie
„ „ 11 36	„ 52 28	Uziie	Turuta
„ „ 12 11	„ 53 30	„	„
„ „ 13 55	„ 52 22	Iwaoka	„
„ 3rd 15 32	„ 48 8	„	Iwaoka
„ „ 16 33	„ 47 5	„	„
„ „ 17 9	„ 46 48	„	„
„ „ 19 9	„ 47 22	Turuta	Turuta
„ „ 21 4	„ 47 25	Iwaoka	„
Mean	4° 47′ 3″		

$\delta = 4°\ 47'05$

Reduction to 1895.0 = 1.57

„ „ sea level = 0.00

$\delta = 4°\ 48'6$

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 11th 10h 34m	3	49° 27′2	Uziie	Turuta
„ „ 14 57	—	„ 26.4	Iwaoka	Iwaoka
„ „ 20 33	3	„ 26.9	Turuta	Turuta
Mean		49° 26′8		

$\theta = 49°\ 26'8$

Reduction to 1895.0 = −1.83

„ „ sea level = 0.00

$\theta = 49°\ 25'0$

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 11th 8h 33m	0.30097	451.40	30°2 C	5.7000 s	28°9 C	6°27′ 7″5	14 43′30″0	31°4 C	Uziie	Turuta
„ „ 13 14	0.30168	449.21	34.9	5.7105	35.2	6 25 12.5	14 39 35.0	34.5	Turuta „	Uziie „
„ „ 18 27	0.30128	451.87	27.7	5.6986	28.9	6 28 8.8	14 46 20.6	26.5	Iwaoka „	Turuta Iwaoka
Mean	0.30131									

$H = 0.30131$

Reduction to 1895.0 = 1765

„ „ sea level = 000

$H = 0.30149$

90. TAKEHU.

Aza Yokodoi embankment. (武生町字横土居堤防)

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 12th 17h 10m	4° 50′ 17″	Iwaoka	Uziie
,, ,, 18 37	,, 50 59	,,	Turuta
,, ,, 20 30	,, 51 20	Uziie	,,
,, 13th 3 29	,, 50 30	Iwaoka	Iwaoka
,, ,, 6 26	,, 48 11	,,	,,
,, ,, 7 11	,, 47 32	Uziie	Turuta
,, ,, 8 36	,, 47 0	Turuta	Uziie
,, ,, 10 45	,, 52 11	Uziie	,,
,, ,, 11 10	,, 53 25	,,	,,
,, ,, 12 17	,, 55 52	,,	Iwaoka
,, ,, 14 3	,, 55 37	,,	,,
,, ,, 15 2	,, 53 8	,,	,,
Mean	4° 51′ 13″		

$\delta = 4°\ 51'.27$

Reduction to 1895.0 = 1.63

,, ,, sea level = 0.00

$\delta = 4°\ 52'.9$

DIP (θ)

Observations of the Wast Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 12th 19h 56m	3	49° 27′.4	Turuta	Uziie
,, 13th 10 2	3	,, 31.0	Uziie	,,
,, ,, 15 29	3	,, 20.8	Iwaoka	,,
Mean		49° 29′.7		

$\theta = 49°\ 29'.7$

Reduction to 1895.0 = −1.82

,, ,, sea level = 0.00

$\theta = 49°\ 27'.9$

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 12th 18h 9m	0.30311	453.97	22°.0C	5.6661 s	22°.2C	6°27′22″.5	14°44′ 5″.0	21°.7C	Iwaoka	Turuta
,, 13th 8 3	0.30306	455.25	18.4	5.6566	17.8	6 28 10.0	14 45 53.0	19.0	Uziie	,,
,, ,, 13 29	0.30345	451.25	29.1	5.6799	29.1	6 24 18.8	14 37 10.6	29.1	,, Iwaoka	Iwaoka / Uziie
Mean	0.30221									

$H = 0.30321$

Reduction to 1895.0 = 1722

,, ,, sea level = 52

$H = 0.30339$

91. ONO.

Ōnomati 151. Aza Nisidōyasiki No 1. (大野町百五十一字西堂屋敷一番)

DECLINATION (δ)

Observations of the West Party, 1893

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 14th 16h 38m	4° 49 40″	Uziie	Turuta
,, ,, 17 21	,, 47 37	Iwaoka	,,
,, ,, 19 6	,, 50 16	Uziie	,,
,, ,, 21 17	,, 49 40	,,	,,
,, ,, 22 26	,, 49 42	Turuta	,,
,, 15th 3 26	,, 47 13	,,	,,
,, ,, 5 31	,, 47 15	,,	,,
,, ,, 7 2	,, 45 43	,,	,,
,, ,, 7 26	,, 45 44	Iwaoka	,,
,, ,, 8 49	,, 45 20	Uziie	Iwaoka
,, ,, 9 1	,, 45 30	,,	,,

To be continued

(Continued)

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 15th 11h 7m	4° 51′ 15″	Iwaoka	Uziie
,, ,, 11 50	,, 53 24	,,	,,
,, ,, 12 14	,, 53 35	,,	,,
,, ,, 12 42	,, 53 38	,,	,,
,, ,, 14 33	,, 53 3	,,	,,
,, ,, 16 56	,, 48 50	,,	Turuta
Mean	4° 49′ 12″		

δ = 4° 49′20
Reduction to 1895.0 = 1.68
,, ,, sea level = −0.02
δ = 4° 50′9

DIP. (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept 14th 18h 38m	3	49° 56′3	Iwaoka	Turuta
,, 15th 10 31	—	,, 58.7	Uziie	Iwaoka
,, ,, 15 58	3	,, 59.3	Turuta	Turuta
Mean		49° 58′1		

θ = 49° 58′1
Reduction to 1895.0 = −1.69
,, ,, sea level = −0.02
θ = 49° 56′35

HORIZONTAL INTENSITY (*H*)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib^{n}	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 14th 20h 21m	0.29866	453.37	22°7 C	s 5.7119	22°8 C	6°32′32″5	14°56′20″0	22°5C	Uziie / Turuta	Turuta / Uziie
,, 15th 8 20	0.29863	454.05	21.4	5.7071	21.3	6 33 2.5	14 57 25.0	21.6	Iwaoka / Uziie	Turuta / Iwaoka
,, ,, 13 57	0.29900	451.88	25.6	5.7630	24.7	6 30 47.5	14 52 44.4	23.6	,, / Iwaoka	,, / Uziie
Mean	0.29876									

H = 0.29876
Reduction to 1895.0 = 1620
,, ,, sea level = 258
H = 0.29895

92. SIOYA.

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 16th 16h 58m	5° 2′ 18″	Iwaoka	Uziie
,, ,, 17 36	,, 1 47	,,	,,
,, ,, 20 2	,, 2 1	Turuta	Iwaoka
,, ,, 22 32	,, 1 53	Iwaoka	Uziie
,, 17th 0 35	,, 1 20	Uziie	,,
,, ,, 1 55	,, 1 11	Iwaoka	Iwaoka
,, ,, 5 8	4 59 24	,,	,,
,, ,, 7 32	,, 59 47	,,	,,
,, ,, 9 28	5 1 25	Uziie	Turuta
,, ,, 10 6	,, 1 46	Turuta	Uziie
,, ,, 10 23	,, 2 27	Iwaoka	Turuta
,, ,, 12 4	,, 5 27	Uziie	Uziie
,, ,, 12 40	,, 5 35	Turuta	Iwaoka
,, ,, 13 53	,, 4 56	Iwaoka	Turuta
,, ,, 14 25	,, 4 48	Turuta	Iwaoka
,, ,, 16 16	,, 2 36	,,	,,
Mean	5° 1′ 46″		

δ = 5° 1′77
Reduction to 1895.0 = 1.81
,, ,, sea level = 0.00
δ = 5° 3′6

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 17th 0h 6m	3	50° 18′1	Uziie	Turuta / Uziie
„ „ 11 30	3	„ 19.9	Turuta	Turuta / Uziie
„ „ 15 47	3	„ 19.8	Iwaoka	Iwaoka
Mean		50° 19′3		

$\theta = 50°\ 19'3$
Reduction to 1895.0 = −2.06
„ „ sea level = 0.00
$\theta = 50°\ 17'2$

HORIZONTAL INTENSITY (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 16th 19h 10m	0.29687	453.69	22°0C	5.7268 s	22°1C	6°35′ 7″5	15° 2′10″6	21°9C	Turuta / Iwaoka	Iwaoka / Turuta
„ 17th 9 0	0.29651	452.89	24.3	5.7346	24.0	6 34 37.5	15 0 50.0	24.5	Uziie / Turuta	„ / Uziie
„ „ 13 22	0.29724	452.28	24.3	5.7326	24.7	6 33 45.0	14 59 33.1	23.9	Iwaoka / Turuta	Turuta / Iwaoka
Mean	0.29687									

$H = 0.29687$
Reduction to 1895.0 = 1703
„ „ sea level = 000
$H = 0.29704$

93. KANAZAWA.

Parade ground (陸軍練兵場)

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 18th 16h 49m	5° 2′ 49″	Uziie	Turuta
„ „ 17 8	„ 2 57	Iwaoka	„
„ „ 18 53	„ 1 40	Uziie	„
„ „ 20 4	„ 3 7	„	Iwaoka
„ „ 23 33	„ 2 4	„	Uziie
„ 19th 0 51	„ 1 30	„	„
„ „ 5 43	„ 1 7	„	„
„ „ 6 41	„ 0 45	„	„
„ „ 8 45	4° 59 42	Turuta	Iwaoka
„ „ 10 14	5° 0 59	„	„
„ „ 11 38	„ 4 53	„	„
„ „ 12 14	„ 6 15	Iwaoka	Turuta
„ „ 12 40	„ 5 58	Turuta	Iwaoka
„ „ 13 59	„ 5 33	Iwaoka	Turuta
„ „ 15 39	„ 3 55	Uziie	Uziie
Mean	5° 2′ 24″		

$\delta = 5°\ 2'4$
Reduction to 1895.0 = 1.83
„ „ sea level = 0.00
$\delta = 5°\ 4'3$

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 18th 18h 22m	3	50° 43′4	Turuta	Iwaoka
„ 19th 9 44	3	„ 49.0	Iwaoka	Turuta
„ „ 10 54	3	„ 47.9	Turuta	„
„ „ 15 9	3	„ 46.9	Uziie	Uziie
Mean		50° 47′7		

$\theta = 50°\ 47'7$
Reduction to 1895.0 = −1.94
„ „ sea level = 0.00
$\theta = 50°\ 45'8$

HORIZONTAL INTENSITY (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 18th 19h 49m	0.29612	453.18	22°3C	5.7380 s	22°7C	6°35′57″5	15° 4′26″2	21°9C	Iwaoka	Turuta
									Uziie	„
„ 19th 7 51	0.29619	452.47	24.8	5.7398	24.3	6 34 46.9	15 1 35.0	25.2	„	„
									Iwaoka	„
„ „ 13 28	0.29572	450.89	31.0	5.7560	31.5	6 32 50.6	14 54 51.9	30.5	Turuta	Iwaoka
									Iwaoka	Turuta
Mean	0.29601									

H = 0.29601
Reduction to 1895.0 = 1594
„ „ sea level = 060
H = 0.29617

94. NANAO.

Aza Dezaki (字 出 崎)

DECLINATION (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 20th 23h 46m	5° 8′ 16″	Iwaoka	Turuta
„ 21st 2 27	„ 8 23	Turuta	„
„ „ 6 1	„ 8 3	„	„
„ „ 7 43	„ 7 59	„	„
„ „ 8 25	„ 7 35	„	„
„ „ 9 36	„ 8 45	„	„
„ „ 11 14	„ 11 37	Uziie	Uziie
„ „ 11 37	„ 9 44	Iwaoka	„
„ „ 12 11	„ 10 4	„	„
„ „ 13 2	„ 11 37	„	Turuta
„ „ 14 11	„ 10 16	Turuta	Iwaoka
„ „ 15 38	„ 9 22	Iwaoka	Turuta
„ „ 15 52	„ 9 34	„	„
„ „ 16 20	„ 9 18	„	„
„ „ 16 32	„ 8 46	„	„
„ „ 18 16	„ 8 24	„	„
„ „ 18 30	„ 8 52	„	„
„ „ 18 59	„ 8 42	„	„
„ „ 19 12	„ 8 20	„	„
„ „ 21 8	„ 7 37	„	„
„ „ 21 19	„ 8 27	„	„
„ 22nd 10 59	„ 8 12	„	„
„ „ 12 4	„ 9 35	„	„
„ „ 12 54	„ 10 41	„	„
„ „ 14 29	„ 11 29	„	„
„ „ 14 53	„ 10 10	„	„
„ „ 15 24	„ 10 19	„	„
„ „ 16 59	„ 9 5	„	„
Mean	5° 9′ 0″		

δ = 5° 9′00
Reduction to 1895.0 = 2.09
„ „ sea level = 0.00
δ = 5° 11′1

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 21st 10h 43m	3	51° 11′9	Uziie	Uziie
„ „ 15 13m	3	„ 10.0	Iwaoka	Turuta
„ „ 20 32	—	„ 11.6	Turuta	Iwaoka
Mean		51° 11′2		

θ = 51° 11′2
Reduction to 1895.0 = −2.18
„ „ sea level = 0.00
θ = 51° 9′0

HORIZONTAL INTENSITY. (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 21st 9h 3m	0.29509	452.27	24°6C	5.7537	25°0C	6°36′28″8	15°5′41″9	24°3C	Uziie	Turuta
„ „ 13 45	0.29516	451.00	29.6	5.7625	30.4	6 35 8.8	15 2 21.9	28.8	Turuta	Iwaoka
„ „ 18 31	0.29515	452.85	23.2	5.7498	23.5	6 36 53.8	15 6 35.0	22.8	Iwaoka	Turuta
									Turuta	Iwaoka
Mean	0.29513									

H = 0.29513
Reduction to 1895.0 = 1498
„ „ sea level = 000
H = 0.29528

95. WAZIMA.

Kawaimati Rokuaza (河井町六字)

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 24th 1h 45m	5° 12′ 41″	Iwaoka	Iwaoka
„ „ 1 54	„ 12 37	„	„
„ „ 6 37	„ 11 51	„	„
„ „ 7 37	„ 11 5	Turuta	„
„ „ 8 3	„ 10 27	„	„
„ „ 9 27	„ 11 1	Iwaoka	Turuta
„ „ 11 25	„ 13 29	Turuta	„
„ „ 12 32	„ 15 20	„	„
„ „ 13 17	„ 15 40	„	„
„ „ 14 42	„ 15 30	Iwaoka	„
„ „ 17 44	„ 13 17	„	Iwaoka
„ „ 18 35	„ 13 20	„	„
„ „ 20 45	„ 13 23	„	Turuta
„ „ 23 35	„ 13 0	Turuta	„
„ 25th 9 15	„ 9 31	„	„
„ „ 10 25	„ 11 5	„	„
„ „ 12 22	„ 13 50	„	„
„ „ 13 33	„ 15 10	Iwaoka	Iwaoka
„ „ 13 46	„ 14 39	„	„
„ „ 14 30	„ 15 3	„	Turuta
„ „ 14 46	„ 15 24	„	„
„ „ 15 32	„ 15 5	Turuta	Iwaoka
„ „ 15 53	„ 14 10	„	„
„ „ 16 42	„ 13 40	„	Turuta
„ „ 17 6	„ 13 58	„	„
„ „ 18 47	„ 12 59	Iwaoka	Iwaoka
„ „ 19 10	„ 13 8	„	Turuta
„ „ 20 50	„ 13 2	„	„
„ „ 21 5	„ 13 10	„	„
Mean	5° 13′ 7″		

δ = 5° 13′12
Reduction to 1895.0 = 2.23
„ „ sea level = 0.00
δ = 5° 15′4

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 24th 10h 41m	3	51° 33′7	Turuta	Turuta
„ „ 17 3	—	„ 34.3	Iwaoka	Iwaoka
„ „ 22 38	3	„ 35.8	Turuta	Turuta
Mean		51° 34′3		

θ = 51° 34.6
Reduction to 1895.0 = −2.41
„ „ sea level = 0.00
θ = 51° 32′2

HORIZONTAL INTENSITY (H)
Observations of the Wazima Party, 95.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 24th 8h 56m	0.29173	453.10	23°5C	5.7811 s	23°3C	6°41′30″0	15°17′ 0″0	23°7C	Iwaoka / Turuta	Turuta / Iwaoka
„ „ 14 9	0.29198	452.05	25.0	5.7850	24.9	6 40 18.8	15 14 29.4	25.2	„ / Iwaoka	„ / Turuta
„ „ 20 10	0.29198	452.17	24.5	5.7848	24.7	6 40 40.0	15 15 35.0	24.3	„ / Turuta	„ / Iwaoka
Mean	0.29190									

H = 0.29190
Reduction to 1895.0 = 1526
„ „ sea level = 000
H = 0.29205

96. TOYAMA.

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 28th 9h 3m	5° 2′ 53″	Turuta	Iwaoka
„ „ 10 57	„ 7 5	Iwaoka	Turuta
„ „ 12 14	„ 8 45	Turuta	„
„ „ 12 51	„ 9 20	Iwaoka	„
„ „ 14 43	„ 8 45	„	„
„ „ 14 59	„ 7 44	„	„
„ „ 16 53	„ 4 41	„	„
„ „ 17 12	„ 5 43	„	„
„ „ 18 13	„ 6 11	„	„
„ „ 18 29	„ 5 15	„	„
„ „ 20 35	„ 4 8	Turuta	Iwaoka
„ „ 20 52	„ 5 9	„	„
„ „ 23 15	„ 4 57	„	Turuta
„ 29th 6 0	„ 3 1	„	„
„ „ 6 57	„ 1 54	Iwaoka	„
„ „ 8 37	„ 0 57	„	„
„ „ 9 20	„ 1 41	„	„
„ „ 10 54	„ 5 53	„	„
„ „ 11 18	„ 6 46	„	„
„ „ 12 9	„ 8 31	„	„
„ „ 12 45	„ 8 25	Turuta	„
„ „ 13 54	„ 7 41	Iwaoka	„
„ „ 14 22	„ 7 23	„	„
„ „ 16 22	„ 4 33	„	„
„ „ 17 19	„ 4 45	„	„
„ „ 18 57	„ 5 18	„	„
„ „ 21 37	„ 5 3	„	„
Mean	5° 4′ 36″		

δ = 5° 4′30
Reduction to 1895.0 = 1.85
„ „ sea level = 0.00
δ = 5° 6′5

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 28th 10h 22m	3	50° 54′5	Turuta	Turuta / „
„ „ 16 25	2	„ 53.1	Iwaoka	Iwaoka
„ „ 22 30	3	„ 47.7	Turuta	Turuta
„ 29th 10 24	3	„ 49.1	„	„
„ „ 15 37	3	„ 46.4	„	„
„ „ 20 58	3	„ 47.0	Iwaoka	„
Mean		50° 49′6		

θ = 50° 49′6
Reduction to 1895.0 = −1.64
„ „ sea level = 0.00
θ = 50° 48′0

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t	Observer	Recorder
Sept. 28th 14h 17m	0.29311	450.34	29°2C	s 5.7880	30°5C	6°37′42″5	15° 8′37″5	27°8C	Iwaoka Turuta	Turuta Iwaoka
„ „ 20 3	0.29315	452.92	22.1	5.7691	22.7	6 39 45.0	15 13 12.5	21.5	„ Iwaoka	„ Turuta
„ 29th 8 1	0.29314	452.67	23.1	5.7690	22.2	6 39 7.5	15 11 46.9	23.9	„ Turuta	„ Iwaoka
„ „ 13 24	0.29351	450.81	28.3	5.7788	28.8	6 37 16.9	15 7 30.6	27.8	Iwaoka Turuta	Turuta Iwaoka
„ „ 18 27	0.29325	452.68	21.6	5.7682	22.1	6 39 31.2	15 12 52.5	21.1	Iwaoka Turuta	Turuta Iwaoka
Mean	0.29323									

H= 0.29323

Reduction to 1895.0 = 1384

„ „ sea level = 13

H= 0.29337

97. MOZUMI.

DECLINATION (δ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 1st 16h 57m	4° 56′ 10″	Iwaoka	Turuta
„ „ 17 39	„ 56 23	„	„
„ „ 19 19	„ 56 20	„	„
„ „ 20 0	„ 56 6	„	„
„ „ 23 25	„ 54 48	„	Iwaoka
„ 2nd 5 40	„ 53 31	„	„
„ „ 6 15	„ 53 39	„	„
„ „ 8 22	„ 49 42	Turuta	„
„ „ 8 35	„ 49 30	Iwaoka	Turuta
„ „ 9 13	„ 48 27	Turuta	Iwaoka
„ „ 10 47	„ 54 29	„	„
„ „ 11 35	„ 57 34	Iwaoka	Turuta
„ „ 12 27	„ 59 25	„	Iwaoka
„ „ 12 46	„ 58 18	„	„
„ „ 13 11	„ 58 4	„	Turuta
„ „ 13 21	„ 58 36	„	„
„ „ 15 5	„ 58 0	Turuta	„
„ „ 15 20	„ 56 0	Iwaoka	„
„ „ 16 54	„ 53 55	„	Iwaoka
„ „ 17 5	„ 55 0	„	„
„ „ 19 24	„ 55 56	„	„
„ „ 19 43	„ 55 27	„	„
„ „ 20 40	„ 54 56	„	„
„ „ 20 51	„ 54 44	„	„
„ 3rd 6 33	„ 56 41	„	„
„ „ 6 53	„ 53 48	„	„
„ „ 7 20	„ 51 58	„	„
„ „ 7 42	„ 54 1	„	„
Mean	4° 54′ 51″		

δ = 4° 54′85

Reduction to 1895.0 = 1.79

„ „ sea level = −0.03

δ = 4° 36′6

DIP (θ)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Oct. 1st 22h 17m	3	50° 2′3	Turuta	Turuta
„ 2nd 10 23	3	„ 0.7	Iwaoka	„
„ „ 16 24	—	„ 4.2	Turuta	Iwaoka
Mean		50° 2′4		

θ = 50° 2′4

Reduction to 1895.0 = −1.50

„ „ sea level = −0.03

θ = 50° 0′9

HORIZONTAL INTENSITY (H)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Oct. 1st 18h 37m	0.29752	452.44	23.0 C	5.7289	23.1 C	6°33′13″.1	14°57′55″.0	22.9 C	Iwaoka	Turuta
									Turuta	Iwaoka
„ 2nd 7 42	0.29787	453.32	19.7	5.7190	19.6	6 33 48.1	14 59 43.1	19.9	„	„
									Iwaoka	Turuta
„ „ 13 50	0.29775	453.45	19.6	5.7207	20.0	6 34 8.8	15 0 18.1	19.1	„	„
									Turuta	Iwaoka
„ „ 18 49	0.29766	454.22	18.3	5.7153	18.6	6 34 36.2	15 1 2.5	17.9	„	„
									Iwaoka	Turuta
Mean	0.29770									

H = 0.29770
Reduction to 1895.0 = 1362
„ „ sea level = 520
H = 0.29789

98. MIKKAITI.

Mikura cemetery (三日市町大字三日市村字御藏共有墓地)

DECLINATION (δ)
Observations of the West Party, 1893.

Date and Hour. (Mean Local Time.)	δ	Observer	Recorder
Oct. 5th 10h 45m	5° 5′ 20″	Turuta	Iwaoka
„ „ 11 0	„ 5 7	Iwaoka	Turuta
„ „ 11 24	„ 5 43	„	„
„ „ 11 35	„ 7 0	„	„
„ „ 12 4	„ 8 2	Turuta	„
„ „ 12 56	„ 8 50	Iwaoka	Iwaoka
„ „ 13 21	„ 9 40	„	Turuta
„ „ 14 46	„ 10 35	„	„
„ „ 15 4	„ 10 16	„	„
„ „ 16 35	„ 9 22	Turuta	„
„ „ 16 48	„ 9 7	Iwaoka	„
„ „ 17 35	„ 8 33	Turuta	Iwaoka
„ „ 17 52	„ 7 0	Iwaoka	Turuta
„ „ 18 7	„ 7 11	„	„
„ „ 18 20	„ 9 18	„	„
„ „ 19 56	„ 8 7	„	„
„ „ 21 33	„ 7 13	„	„
„ 6th 0 8	„ 6 58	Turuta	„
„ „ 5 44	„ 7 40	„	„
„ „ 6 2	„ 7 24	„	„
„ „ 6 45	„ 7 46	„	„
„ „ 7 11	„ 8 18	„	„
„ „ 8 32	„ 5 52	Iwaoka	Iwaoka
„ „ 9 4	„ 6 17	„	Turuta
„ „ 11 0	„ 9 7	Turuta	Iwaoka
„ „ 12 2	„ 10 42	Iwaoka	Turuta
„ „ 13 35	„ 10 48	„	Iwaoka
„ „ 14 14	„ 10 8	„	„
„ „ 15 28	„ 8 54	„	Turuta
„ „ 16 9	„ 8 51	„	„
„ „ 16 38	„ 9 53	„	„
„ „ 17 6	„ 9 32	Turuta	Iwaoka
„ „ 17 17	„ 8 26	Iwaoka	Turuta
Mean	4° 8′ 5″		

δ = 5° 8′08
Reduction to 1895.0 = 1.93
„ „ sea level = 0.00
δ = 5° 10′0

DIP (θ)
Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Oct. 5th 22h 59m	—	50° 36′4	Iwaoka	Iwaoka
„ 6th 10 22	3	„ 43.1	Turuta	Turuta
„ „ 11 36	3	„ 42.2	Iwaoka	„
„ „ 15 35	—	„ 44 5	Turuta	„
Mean		50° 41′6		

θ = 50° 41′6
Reduction to 1895.0 = −1.61
„ „ sea level = 0.00
θ = 50°

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1893.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Oct. 5th 14h 21m	0.29470	454.02	17°7C	5.7463	18°3C	6°38′35″0	15°10′17″5	17°2C	Iwaoka / Turuta	Turuta / Iwaoka
„ „ 19 19	0.29450	455.22	14.8	5.7399	14.8	6 39 40.6	15 12 54.4	14.7	„ / Iwaoka	„ / Turuta
„ 6th 8 3	0.29477	454.42	16.1	5.7409	15.5	6 38 39.4	15 10 36.9	16.7	„ / Turuta	„ / Iwaoka
„ „ 13 3	0.29493	452.84	21.1	5.7520	21.7	6 37 20.6	15 7 41.2	20.6	„ / Iwaoka	„ / Turuta
Mean	0.29472									

H =	0.29472
Reduction to 1895.0 =	1302
„ „ sea level =	000
H =	0.29485

99. ABUTA.

Coast, back side of Abuta office (虻田村戸長役場裏海岸)

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July. 1st 18h 33.0m	6° 10′ 4″	Tanakadate	Midzusima
„ „ 20 27.1	„ 9 16	„	„
„ 2nd 1 0.0	„ 8 59	„	Tanakadate
„ „ 4 3.2	„ 8 14	„	„
„ „ 5 43.3	„ 6 23	Midzusima	Midzusima
„ „ 7 16.8	„ 4 13	„	Tanakadate
„ „ 8 17.8	„ 5 0	Tanakadate	Midzusima
„ „ 9 54.0	„ 9 33	„	„
„ „ 10 57.5	„ 10 59	Midzusima	Tanakadate
„ „ 12 24.1	„ 14 56	„	Midzusima
„ „ 13 30.0	„ 15 41	„	„
„ „ 14 20.0	„ 14 24	Tanakadate	„
„ „ 15 17.7	„ 13 18	Midzusima	Tanakadate
„ „ 16 11.7	„ 12 46	Tanakadate	Midzusima
„ „ 17 39.1	„ 10 46	„	„
„ „ 18 35.0	„ 10 20	„	„
Mean	6° 9′ 35″		

δ =	6° 9′58
Reduction to 1895.0 =	1.52
„ „ sea level =	0.00
δ =	6° 11′1

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 1st 18h 8.3m	—	56° 43′3	Midzusima	Tanakadate
„ 2nd 9 19.0	2	„ 46.5	Tanakadate	Midzusima
„ „ 15 44.0	2	„ 45.2	Midzusima	Tanakadate
Mean		56° 46′0		

θ =	56° 46′0
Reduction to 1895.0 =	−1.41
„ „ sea level =	0.00
θ =	56° 44′5

HORIZONTAL INTENSITY (H)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 1st 19h 52m	0.26676	458.16	26°1C	5.9624 s	26°1C	7°25′36″2	16°54′25″0	26°2C	Midzusi a / Tanakadate	Tanakadate / Midzusima
„ 2nd 7 26	0.26744	459.46	23.4	5.9457	23.2	7 25 52.5	16 55 16.2	23.5	„ / Midzusima	„ / Tanakadate
„ „ 9 54	0.26693	457.36	28.8	5.9655	28.6	7 24 18.8	16 51 15.0	28.9	Tanakadate	Midzusima
„ „ 12 51	0.26664	457.73	28.5	5.9683	29.2	7 25 26.3	16 53 51.3	27.9	Midzusima	Tanakadate
„ „ 16 51	0.26650	458.53	24.3	5.9648	25.1	7 26 34.0	16 56 24.0	23.6	Tanakadate / Midzusima	Midzusima / Tanakadate
Mean	0.26685									

H= 0.26685
Reduction to 1895.0= 2.38
„ „ sea level= 0.00
H= 0.26687

100. OSYAMANBE.

Osyamanbe Syōgaku (長萬部小學校)

DECLINATION (δ)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July. 6th 14h 19.2m	5° 55′ 3″	Tanakadate	Midzusima
„ „ 15 59.5	„ 54 0	Midzusima	Tanakadate
„ „ 17 44.2	„ 48 53	Tanakadate	Midzusima
„ 18 39.6	„ 49 2	Midzusima	Tanakadate
„ „ 19 59.0	„ 49 23	Tanakadate	Midzusima
„ „ 20 48.1	„ 49 5	Midzusima	Tanakadate
„ „ 23 41.4	„ 50 18	„	„
„ 7th 4 52.0	„ 46 52	„	„
Mean	5° 50′ 2″		

δ=5° 50″03
Reduction to 1895.0= 1.54
„ „ sea level= 0.00
δ=5° 51″6

DIP (θ)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 4th 11h 16.7m	2	56° 19′9	Tanakadate	Midzusima
„ „ 17 58.9	—	„ 19.0	Midzusima	Tanakadate
„ 6th 15 2.6	2	„ 19.4	„	Midzusima
„ 7th 10 24.0	2	„ 18.0	Tanakadate	Tanakadate
Mean		56° 19′1		

θ=56° 19′1
Reduction to 1895.0= −1.47
„ „ sea level= 0.00
θ=56° 17″6

HORIZONTAL INTENSITY (H)
(* *Value deduced from Vibration only by assuming Value of M*)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 4th 9h 43m	0.27260	460.54	19°1C	5.8888 s	19°0C	7°19′ 9″4	16°38′58″8	19°2C	Midzusima / Tanakadate	Tanakadate / Midzusima
„ „ 13 34	0.27227	460.63	21.6	5.8852	21.4	7 18 6.3	16 35 37.5	21.7	„ / Midzusima	„ / Tanakadate
„ „ 17 9	0.27258	459.43	23.6	5.8908	23.8	7 17 10.0	16 34 22.5	23.3	„ / Tanakadate	„ / Midzusima
„ 6th 17 25	*0.27275	460.10	21.3	5.9116	21.7	(7 17 39.4	16 36 46.3	21.3)	Midzusima / Tanakadate	Tanakadate / Midzusima
„ „ 20 42	0.27240	460.48	17.2	5.8855	17.5	7 18 51.3	16 38 41.3	17.0	„ / Midzusima	„ / Tanakadate
„ 7th 9 16	0.27241	460.45	18.7	5.8848	18.7	7 18 26.3	16 37 23.8	18.7	„ / Tanakadate	„ / Midzusima
Mean	0.27240									

H=0.27240
Reduction to 1895.0= 2.75
„ „ sea level= 0.00
H=0.27243

101. SUTTU.

Suttu office (壽都村戶長役場)

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July. 8th 0h 47.7m	5° 55′ 27″	Tanakadate	Midzusima
,, ,, 9 21.6	,, 55 10	,,	Tanakadate
,, ,, 11 5.0	,, 56 56	,,	,,
,, ,, 13 20.1	6 5 30	,,	,,
,, ,, 16 33.2	,, 2 40	Midzusima	,,
,, ,, 18 2.1	,, 1 24	Tanakadate	Midzusima
,, ,, 19 1.3	,, 1 26	,,	,,
,, ,, 21 23.7	,, 2 7	,,	,,
,, 9th 3 28.3	,, 0 26	,,	,,
,, ,, 6 15.8	5 58 52	,,	Tanakadate
,, ,, 7 23.2	,, 57 21	,,	,,
,, ,, 8 41.1	,, 57 46	Midzusima	,,
,, ,, 10 8.5	,, 56 0	,,	Midzusima
,, ,, 11 50.7	6 2 34	,,	,,
		,,	,,
Mean	6° 0′ 41″		

$\delta = 6°\ 0'.68$

Reduction to 1895.0 = 1.60

,, ,, sea level = 0.00

$\delta = 6°\ 2'.3$

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 8th 7h 59.7m	2	56° 44′.2	Midzusima	Midzusima
,, ,, 17 35.0	—	,, 44.3	Tanakadate	,,
,, 9th 14 42.6	2	,, 43.1	Midzusima	Tanakadate
Mean		56° 44′.9		

$\theta = 56°\ 44'.9$

Reduction to 1895.0 = −1.65

,, ,, sea level = 0.00

$\theta = 56°\ 43'.2$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 8th 12h 40m	0.27003	460.70	17°.7C	5.9090 s	17°.6C	7°22′32″.5	16°46′51″.3	17°.8C	Tanakadate	Tanakadate
,, ,, 18 38	0.26989	462.47	15.4	5.8900	15.5	7 23 0.0	16 47 41.3	15.4	Midzusima, Tanakadate	,, Midzusima
,, 9th 8 17	0.26972	460.42	17.5	5.9144	17.4	7 22 48.8	16 47 33.8	17.6	,, Midzusima	,, Tanakadate
Mean	0.26988									

$H = 0.26988$

Reduction to 1895.0 = 3.01

,, ,, sea level = 0.00

$H = 0.26991$

102. IWANAI.

Prefecture (郡 役 所)

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July. 11th 11h 5.7m	6° 25′ 8″	Tanakadate	Midzusima
,, ,, 11 24.2	,, 26 13	,,	,,
,, ,, 12 24.9	,, 26 57	,,	,,
,, ,, 13 45.1	,, 28 32	,,	,,
,, ,, 14 55.3	,, 27 33	Midzusima	Tanakadate
,, ,, 16 16.3	,, 26 6	Tanakadate	Midzusima
,, ,, 18 29.2	,, 23 38	,,	Tanakadate
,, ,, 19 26.0	,, 24 5	,,	Midzusima
,, ,, 20 51.5	,, 24 14	Midzusima	Tanakadate
,, ,, 22 13.7	,, 24 50	,,	Midzusima
,, ,, 23 33.8	,, 25 13	,,	,,
,, 12th 4 44.9	,, 21 30	,,	,,
,, ,, 5 49.6	,, 21 11	,,	,,
,, ,, 8 36.0	,, 21 20	Tanakadate	Tanakadate
,, ,, 9 13.2	,, 21 11	,,	,,
,, ,, 10 56.9	,, 24 0	,,	,,
Mean	6° 23′ 50″		

$\delta = 6°\ 23'.83$

Reduction to 1895.0 = 1.56

,, ,, sea level = 0.00

$\delta = 6°\ 25'.4$

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Juyl. 11th 12h 2.0m	2	56° 58′.0	Midzusima	Tanakadate
,, ,, 18 40.0	2	,, 49.0	Tanakadate	,,
,, ,, 23 11.1	—	,, 53.7	Midzusima	Midzusima
,, 12th 6 48.4	2	,, 54.6	Tanakadate	Tanakadate
Mean		56° 53′.8		

$\theta = 56°\ 53'.8$

Reduction to 1895.0 = −1.53

,, ,, sea level = 0.00

$\theta = 56°\ 52'.3$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 11th 13h 22m	0.26796	459.10	23°.3 C	5.9440 s	23°.8 C	7°24′34″.4	16°51′43″.8	22°.9 C	Midzusima / Tanakadate	Tanakadate / Midzusima
,, ,, 20 28	0.26807	460.07	20.1	5.9359	20.4	7 25 12.5	16 53 0.0	19.8	,, / Midzusima	,, / Tanakadate
,, 12th 10 22	0.26757	458.47	24.6	5.9521	24.9	7 24 18.8	16 50 49.0	24.2	Tanakadate	,,
Mean	0.26787									

$H = 0.26787$

Reduction to 1895.0 = 2.55

,, ,, sea level = 0.00

$H = 0.26790$

103. YOBETU.

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July. 13th 14h 31.7m	6° 4′ 13″	Tanakadate	Midzusima
„ „ 16 2.8	„ 3 22	„	„
„ „ 17 10.8	5 59 7	Midzusima	Tanakadate
„ „ 17 20.6	„ 59 0	„	„
„ „ 18 20.4	„ 58 31	Tanakadate	Midzusima
„ „ 19 5.3	„ 59 44	„	Tanakadate
„ „ 20 7.1	„ 59 52	„	„
„ „ 22 14.6	„ 59 56	„	„
„ 14th 1 49.8	„ 59 3	„	„
„ „ 2 43.0	„ 57 54	„	„
„ „ 6 24.0	„ 54 55	„	„
„ „ 8 0.0	„ 54 39	Midzusima	Midzusima
„ „ 8 47.2	„ 54 46	„	„
„ „ 9 58.9	„ 57 16	„	„
„ „ 10 52.6	„ 58 23	„	„
„ „ 11 42.5	„ 59 25	„	„
„ „ 12 47.6	6 2 56	Tanakadate	Tanakadate
„ „ 13 54.1	„ 4 26	Midzusima	„
„ „ 15 2.8	„ 6 10	Tanakadate	Midzusima
Mean	5° 58′ 45″		

$\delta = 5°\ 58'.75$

Reduction to — 1895.0 = 1.62

„ „ sea level = −0.01

$\delta = 6°\ 0'.4$

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time)	Needle No.	θ	Observer	Recorder
July. 13th 15h 19.0m	2	57° 0′.8	Midzusima	Tanakadate
„ 14th 9 39.5	—	„ 0.0	„	Midzusima
„ „ 13 31.2	2	56 57.7	Tanakadate	„
Mean		56° 59′.5		

$\theta = 56°\ 59'.5$

Reduction to 1895.0 = −1.69

„ „ sea level = 0.01

$\theta = 56°\ 57'.8$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 13th 17h 3m	0.27040	457.70	23°.5 C	s 5.9263	24°.2 C	7°19′32″.5	16°40′30″.0	22°.9 C	Tanakadate / Midzusima	Midzusima / Tanakadate
„ 14th 7 34	0.27034	459.67	20.6	5.9121	20.5	7 20 53.8	16 42 57.5	20.8	„ / Tanakadate	„ / Midzusima
„ „ 14 47	0.27011	457.73	23.7	5.9281	23.8	7 19 34.0	16 40 5.0	23.7	„	„
Mean	0.27028									

$H = 0.27028$

Reduction to 1895.0 = 2.81

„ „ sea level = 1.47

$H = 0.27032$

104. HUNAMA.

(船澗市中)

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time)				δ			Observer	Recorder
July.	15th	18h	10.7m	4°	49′	24″	Tanakadate	Midzusima
,,	,,	19	43.3	,,	49	32	Midzusima	Tanakadate
,,	,,	21	7.7	,,	49	58	Tanakadate	Midzusima
,,	,,	22	41.3	,,	49	51	Midzusima	,,
,,	,,	0	40.8	,,	48	48	,,	,,
,,	,,	3	21.0	,,	45	56	,,	,,
,,	,,	4	49.3	,,	45	38	,,	,,
,,	,,	5	59.4	,,	43	28	,,	,,
,,	,,	7	12.3	,,	42	23	,,	,,
,,	,,	9	43.4	,,	44	8	Tanakadate	Tanakadate
,,	,,	10	44.4	,,	46	22	,,	,,
,,	,,	12	43.2	,,	50	28	,,	,,
,,	,,	13	47.2	,,	50	33	,,	,,
,,	,,	15	22.2	,,	49	18	,,	,,
,,	,,	16	24.6	,,	48	14	,,	,,
,,	,,	17	31.4	,,	47	21	,,	,,
,,	,,	18	26.0	,,	46	54	,,	,,
Mean				4°	47′	26″		

	δ = 4°	47′43
Reduction to 1895.0 =		1.57
,, ,, sea level =		0.00
	δ = 4°	49′0

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)				Needle No.	θ		Observer	Recorder
July.	15th	19h	11.4m	2	57°	32′3	Tanakadate	Midzusima
,,	16th	5	41.2	2	,,	36.0	Midzusima	,,
,,	,,	14	53.4	—	,,	32.1	Tanakadate	Tanakadate
Mean					57°	33′3		

	θ = 57°	33′3
Reduction to 1895.0 =		−1.57
,, ,, sea level =		0.00
	θ = 57°	32′0

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)				H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July.	15th	20h	44m	0.26584	458.69	23°6C	s 5.9583	23°7C	7″2559″0	16°55′ 7″5	23°6C	Tanakadate / Midzusima	Midzusima / Tanakadate
,,	16th	8	13	0.26653	457.41	27.5	5.9683	26.8	7 24 57.5	16 52 53.8	28.2	,,	Midzusima
,,	,,	11	29	0.26664	456.33	29.4	5.9764	29.6	7 24 40.0	16 51 40.0	29.2	Tanakadate	Tanakadate
,,	,,	10	33	0.26722	460.50	18.2	5.9418	18.2	..	..	..	,,	Midzusima
Mean				0.26681									

	H =	0.26681
Reduction to 1895.0 =		2.48
,, ,, sea level =		0.00
	H =	0.26683

105. OTARU.

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July. 18th 11h 43.8m	6° 11′ 32″	Midzusima	Midzusima
,, ,, 12 1.0	,, 12 42	,,	,,
,, ,, 12 21.6	,, 12 30	,,	,,
,, ,, 13 22.5	,, 15 1	,,	,,
,, ,, 15 8.7	,, 14 5	,,	Tanakadate
,, ,, 16 35.6	,, 14 35	Tanakadate	Midzusima
,, ,, 17 4.3	,, 12 30	,,	,,
,, ,, 19 4.6	,, 9 5	,,	Tanakadate
,, ,, 19 43.5	,, 8 6	,,	Midzusima
,, ,, 20 35.1	,, 9 7	,,	,,
,, ,, 21 30.2	,, 11 18	,,	,,
,, ,, 23 47.1	,, 10 33	Midzusima	,,
,, 19th 2 2.8	,, 11 38	,,	,,
,, ,, 3 5.8	,, 10 58	,,	,,
,, ,, 5 12.6	,, 8 52	,,	,,
,, ,, 6 24.1	,, 8 12	,,	,,
,, ,, 7 44.9	,, 7 55	Tanakadate	Tanakadate
,, ,, 8 10.2	,, 7 21	,,	,,
,, ,, 9 48.8	,, 13 10	,,	Midzusima
,, ,, 10 14.6	,, 14 7	,,	,,
,, ,, 10 28.5	,, 16 22	,,	,,
,, ,, 11 7.2	,, 17 56	Midzusima	,,
,, ,, 11 58.3	,, 19 22	,,	,,
,, ,, 13 0.3	,, 20 43	,,	,,
,, ,, 13 44.0	,, 20 27	,,	,,
Mean	6° 12′ 32″		

$\delta = 6°\ 12'.53$

Reduction to 1895.0 = 1.46

,, ,, sea level = 0.00

$\delta = 6°\ 14'.0$

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 18th 10h 9.1m	2	57° 11′.7	Midzusima	Midzusima
,, ,, 18 12.7	—	,, 11.4	Tanakadate	Tanakadate
,, 19th 12 36.0	2	,, 11.9	Midzusima	Midzusima
Mean		57° 11′.7		

$\theta = 57°\ 11'.7$

Reduction to 1895.0 = −1.37

,, ,, sea level = 0.00

$\theta = 57°\ 10'.3$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 18th 14h 26m	*0.26770	459.1	22.5 C	5.9456 s	22.5 C	—	—	—	Tanakadate	Tanakadate
									,,	Midzusima
,, ,, 14 51	0.26760	459.04	22.6	5.9464	22.8	7°24′26″.2	165°0′42″.5	22.4 C	Midzusima	Tanakadate
,, 19th 5 52	0.26741	460.56	18.2	5.9389	18.1	7 26 16.3	16 54 46.3	18.4	,,	Midzusima
Mean	0.26760									

$H = 0.26760$

Reduction to 1895.0 = 192

,, ,, sea level = 000

$H = 0.26762$

106. OTARU-MYŌKENZAN.

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 15th 15h 44.9m	6° 21′ 48″	Tanakadate	Tanakadate
,, ,, 17 56.1	,, 17 45	,,	,,
,, ,, 20 13.5	,, 15 37	,,	,,
,, ,, 21 58.7	,, 15 17	,,	,,
,, 16th 4 43.5	,, 13 23	,,	,,
,, ,, 8 1.3	,, 11 32	,,	,,
,, ,, 8 32.5	,, 12 55	,,	,,
,, ,, 10 58.3	,, 20 55	,,	,,
,, ,, 11 35.6	,, 21 20	,,	,,
,, ,, 12 8.4	,, 21 42	,,	,,
,, ,, 14 26.1	,, 21 41	,,	,,
,, ,, 15 33.3	,, 19 51	,,	,,
,, ,, 16 46.9	,, 17 1	,,	,,
,, ,, 19 7.4	,, 15 41	,,	,,
,, ,, 20 22.1	,, 14 7	,,	,,
,, ,, 21 32.7	,, 15 8	,,	,,
,, 17th 0 4.7	,, 16 3	,,	,,
,, ,, 4 2.9	,, 14 56	,,	,,
,, ,, 7 20.7	,, 12 35	,,	,,
,, ,, 8 55.9	,, 15 18	,,	,,
,, ,, 10 0.7	,, 17 58	,,	,,
,, ,, 11 33.1	,, 21 7	,,	,,
,, ,, 12 47.8	,, 22 3	,,	,,
,, ,, 13 31.5	,, 21 33	,,	,,
,, ,, 15 7.9	,, 19 57	,,	,,
,, ,, 16 37.7	,, 17 22	,,	,,
,, ,, 18 26.3	,, 16 16	,,	,,
,, ,, 19 53.7	,, 16 28	,,	,,
,, 18th 0 39.8	,, 15 57	,,	,,
,, ,, 4 27.0	,, 15 3	,,	,,
,, ,, 7 46.9	,, 11 36	,,	,,
,, ,, 9 4.7	,, 13 10	,,	,,
,, ,, 10 31.9	,, 15 53	,,	,,
,, ,, 11 41.5	,, 18 5	,,	,,
,, ,, 13 58.3	,, 20 25	,,	,,
Mean	6° 16′ 29″		

δ = 6° 16′48

Reduction to 1895.0 = 1.19

,, ,, sea level = −0.01

δ = 6° 17′7

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 16th 10h 19.7m		57° 3′7	..	..
,, ,, 18 10.5		,, 0.8	..	..
,, 17th 14 25.5		56 59.2	..	..
,, 18th 7 4 7		57 2.2	..	..
Mean		57° 1′5		

θ = 57° 1′5

Reduction to 1895.0 = −1.13

,, ,, sea level = 0.01

θ = 57° 0′4

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 16th 14h 53m	0.26914	455.92	24°0 C	5.9511 s	24°2 C	7°19′24″0	16°39′37″5	23°9 C	Tanakadate	Tanakadate
,, 17th 17 53	0.26925	455.43	25.3	5.9510	26.0	7 19 0.0	16 38 55.0	24.7	,,	,,
,, 18th 8 26	0.26919	455.90	21.7	5.9525	25.8	7 19 35.0	16 40 4.0	23.7	,,	,,
Mean	0.26919									

H = 0.26919

Reduction to 1895.0 = 156

,, ,, sea level = 058

H = 0.26921

107. SAPPORO.

Sapporo Nōen (札幌農園)

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July. 20^{h} 6^{h} 5.4^{m}	6° 0′ 44″	Tanakadate	Tanakadate
,, ,, 7 5.5	,, 1 50	,,	,,
,, ,, 8 6.0	,, 2 12	,,	,,
,, ,, 8 53.5	,, 2 48	,,	,,
,, ,, 9 57.6	,, 5 1	,,	Midzusima
,, ,, 11 2.8	,, 8 11	Midzusima	,,
,, ,, 11 55.6	,, 9 16	,,	,,
,, ,, 13 0.0	,, 8 35	,,	,,
,, ,, 13 45.0	,, 10 0	Tanakadate	Tanakadate
,, ,, 14 34.7	,, 10 1	,,	,,
,, ,, 15 45.9	,, 7 28	Midzusima	,,
,, ,, 17 10.9	,, 7 35	,,	,,
,, ,, 18 29.6	,, 7 47	,,	,,
,, ,, 20 15.8	,, 10 21	Tanakadate	Midzusima
,, ,, 20 58.9	,, 8 58	Midzusima	,,
,, ,, 23 18.9	,, 20 4	,,	,,
,, 21st 0 52.2	,, 14 19	,,	,,
,, ,, 1 47.4	,, 9 49	,,	,,
,, ,, 3 4.2	,, 2 47	,,	,,
,, ,, 3 43.7	,, 6 51	,,	,,
,, ,, 4 55.8	,, 2 44	,,	,,
,, ,, 6 10.2	,, 7 30	,,	,,
,, ,, 7 12.0	,, 7 11	,,	,,
,, ,, 7 48.1	,, 12 46	,,	,,
,, ,, 9 32.0	,, 13 7	Tanakadate	Tanakadate
,, ,, 10 11.6	,, 11 42	,,	,,
,, ,, 11 45.8	,, 11 56	,,	,,
,, ,, 12 27.0	,, 13 15	,,	,,
,, ,, 13 28.7	,, 14 27	,,	,,
,, ,, 14 13.4	,, 13 1	Midzusima	,,
,, ,, 15 4.2	,, 10 8	,,	,,
,, ,, 16 58.4	,, 9 56	Tanakadata	Midzusima
,, ,, 17 32.7	,, 6 52	,,	,,
,, ,, 18 41.6	,, 5 52	Midzusima	Tanakadate
,, ,, 19 26.4	,, 2 46	Tanakadate	,,
,, ,, 20 43.7	,, 5 43	,,	,,
,, ,, 23 16.0	,, 8 20	,,	,,
,, 22nd 1 39.4	,, 8 14	,,	,,
,, ,, 3 52.1	,, 4 59	,,	,,
,, ,, 6 35.7	,, 4 29	,,	,,
,, ,, 8 33.6	,, 5 45	,,	Midzusima
,, ,, 9 44.1	,, 6 9	,,	,,
Mean	6° 9′ 15″		

$\delta = 6°$ 9′25

Reduction to 1895.0 = 1.39

,, ,, sea level = 0.00

$\delta = 6°$ 10′6

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 20^{h} 11^{h} 42.6^{m}	—	57° 7′7	Midzusima	Midzusima
,, 21st 6 54.8	—	,, 11.8	,,	,,
,, ,, 11 18.1	—	,, 10.8	Tanakadate	Tanakadate
,, ,, 18 0.8	2	,, 11.9	Midzusima	,,
,, 22nd 9 21.4	2	,, 8.2	Tanakadate	Midzusima
Mean		57° 10′1		

$\theta = 57°$ 10′1

Reduction to 1895.0 = −1.26

,, ,, sea level = 0.00

$\theta = 57°$ 8′8

HORIZONTAL INTENSITY (H)
(* *Value deduced from Vibration only by assuming Value of M.*)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 21st 15 45m	0.26489	455.02	33°1C	6.0073 s	34°3C	7°25′40″0	16°54′11″0	32°0C	Tanakadate / Midzusima	Midzusima / Tanakadate
„ „ 21 30	*0.26462	458.40	24.2	5.9848	24.2	(7 27 24.0	16 59 32.5	23.5)	Midzusima / Tanakadate	Tanakadate / Midzusima
„ 22nd 8 9	0.26532	453.54	28.7	5.9893	28.6	7 26 8.8	16 55 22.5	28.7		
Mean	0.26494									

H = 0.26494
Reduction to 1895.0 = 156
„ „ sea level = 000
H = 0.26496

札 幌 出 張 (蓋 測 候 所 跡)

DIP (θ)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 23th 14h 50.6m		57° 13′0	Tanakadate	Midzusima
„ „ 16 50.0		„ 10.4	Midzusima	Tanakadate
Mean		57° 11′7		

HORIZONTAL INTENSITY (H)
(* *Value deduced from Vibration only by assuming Value of M.*)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 22nd 15h 42m	*0.23446	457.00	28°2C	5.9960 s	28°2C	—	—	—	Tanakadate	Midzusima
„ „ 15 53	*0.26503	457.00	28.1	5.9889	28.1	—	—	—	„	„
„ „ 16 23	*0.23465	457.20	27.5	5.9925	27.5	—	—	—	„	„
Mean	0.26173									

108. IWAMIZAWA.

Bank of River Ikusyunbetu (幾 春 別 河 畔)

DECLINATION (δ)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July. 23rd 16h 28.3m	5° 31′ 41″	Tanakadate	Midzusima
„ „ 17 19.7	„ 29 15	„	„
„ „ 18 32.9	„ 27 5	Midzusima	Tanakadate
„ „ 18 53.5	„ 25 22	„	„
„ „ 21 10.4	„ 25 36	„	Midzusima
„ „ 23 27.9	„ 26 17	„	„
„ 24nd 1 22.1	„ 26 11	„	„
„ „ 2 57.6	„ 23 40	„	„
„ „ 5 19.1	„ 25 1	„	„
„ „ 7 31.6	„ 22 52	„	„
„ „ 8 45.1	„ 23 21	Tanakadate	Tanakadate
„ „ 10 47.4	„ 23 55	„	„
„ „ 11 46.7	„ 29 37	„	„
„ „ 12 41.9	„ 32 6	„	„
„ „ 14 8.1	„ 33 39	„	Midzusima
„ „ 15 9.7	„ 32 1	Midzusima	„
„ „ 16 6.9	„ 31 39	„	„
„ „ 17 8.6	„ 28 2	Tanakadate	„
„ „ 17 40.0	„ 29 16	„	„
„ „ 18 46.9	„ 29 55	Midzusima	„
„ „ 19 52.7	„ 28 2	„	„
„ 25th 4 43.1	„ 25 12	„	„
„ „ 6 1.5	„ 23 26	„	„
„ „ 7 21.0	„ 23 32	Tanakadate	„
„ „ 8 9.2	„ 24 46	Midzusima	„
Mean	5° 26′ 0″		

δ = 5° 26′00
Reduction to 1895.0 = 1.32
„ „ sea level = 0.00
δ = 5° 27′3

DIP (θ)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 23rd 19h 26.5m	—	57° 18′1	Tanakadate	Midzusima
„ 24th 8 8.8	—	„ 14.0	Midzusima	Tanakadate
„ „ 14 54.3	—	„ 14.3	„	Midzusima
„ „ 18 21.8	2	„ 17.6	Tanakadate	„
„ „ 19 12.2	—	„ 16.9	Midzusima	„
„ 25th 8 0.0	2	„ 14.8	Tanakadate	Tanakadate
Mean		57° 15′9		

$\theta = 57°\ 15'9$
Reduction to 1895.0 = −1.15
„ „ sea level = 0.00
$\theta = 57°\ 14'7$

HORIZONTAL INTENSITY (H)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 23rd 18h 9m	0.26472	456.52	28°2 C	s 5.9971	28°5 C	7°27′15″0	16°57′54″0	27°9 C	Tanakadate	Midzusima
									Midzusima	Tanakadate
„ 24th 13 45	0.26478	457.60	25.2	5.9886	25.3	7 28 5.0	16 59 36.3	25.2	Tanakadate	„
									„	Midzusima
„ 25th 7 47	0.26493	458.10	22.5	5.9835	22.6	7 28 32.5	17 0 55.0	22.4	Midzusima	Tanakadate
									Tanakadate	Midzusima
Mean	0.26481									

$H = 0.26481$
Reduction to 1895.0 = 108
„ „ sea level = 000
$H = 0.26482$

109. SORATIPT.

DECLINATION (δ)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July. 25th 17h 55.3m	5° 50′ 6″	Tanakadate	Midzusima
„ „ 18 58.8	„ 49 50	„	„
„ „ 20 24.3	„ 49 13	Midzusima	„
„ „ 21 45.4	„ 48 45	„	„
„ „ 23 12.3	„ 48 30	„	„
„ 26th 0 42.0	„ 48 10	„	„
„ „ 3 38.9	„ 47 56	„	„
„ „ 5 4.4	„ 47 30	„	„
„ „ 6 26.0	„ 45 45	„	„
„ „ 8 29.0	„ 45 1	Tanakadate	„
„ „ 10 57.9	„ 50 2	„	„
„ „ 11 46.6	„ 52 11	Midzusima	„
„ „ 13 0.4	„ 53 2	„	„
„ „ 13 54.5	„ 52 46	Tanakadate	„
„ „ 15 12.1	„ 52 5	„	„
„ „ 16 2.7	„ 51 21	„	„
„ „ 17 35.3	„ 49 1	„	„
Mean	5° 48′ 46″		

$\delta = 5°\ 48'77$
Reduction to 1895.0 = 1.34
„ „ sea level = 0.00
$\delta = 5°\ 50'1$

DIP. (θ)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 25th 18h 33.0m	—	57° 20′7	Midzusima	Tanakadate
„ 26th 7 47.1	2	„ 24.8	Tanakadate	„
„ „ 14 40.6	—	„ 24.8	Midzusima	„
Mean		57° 23′4		

$\theta = 57°\ 23'4$
Reduction to 1895.0 = −1.18
„ „ sea level = 0.00
$\theta = 57°\ 22'2$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M*)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 25th 21h 2m	0.26615	458.93	20°8C	5.9637	20°7C	7°27′18″8	16°58′ 6″3	20°8C	Midzusima / Tanakadate	Tanakadate / Midzusima
,, 26th 9 36	0.26552	456.74	29.2	5.9860	29.2	7 25 37.5	16 53 32.5	29.3	,,	Tanakadate
,, ,, 13 30	0.26574	454.15	35.0	6.0005	34.9	7 22 57.5	16 47 58.8	35.1	Midzusima	Midzusima
,, ,, 18 3	*0.26564	456.40	28.5	5.9868	28.5	—	—	—	Tanakadate	,,
Mean	0.26576									

H = 0.23576

Reduction to 1895.0 = 093

,, ,, sea level = 000

H = 0.26577

110. TIP-YABUSI.

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July. 29th 11h 17.3m	5° 33′ 23″	Tanakadate	Midzusima
,, ,, 12 24.4	,, 36 21	,,	,,
,, ,, 12 32.0	,, 37 13	,,	,,
,, ,, 13 22.6	,, 37 17	Midzusima	Tanakadate
,, ,, 14 26.2	,, 37 28	,,	,,
,, ,, 15 27.1	,, 35 54	Tanakadate	Midzusima
,, ,, 16 54.3	,, 33 2	Midzusima	Tanakadate
,, ,, 17 0.5	,, 32 23	,,	,,
,, ,, 18 4.2	,, 31 19	Tanakadate	Midzusima
,, ,, 19 48.1	,, 31 32	,,	,,
,, ,, 21 45.8	,, 31 52	,,	,,
,, ,, 23 19.8	,, 31 38	,,	Tanakadate
,, 30th 3 14.7	,, 30 9	,,	,,
,, ,, 6 25.7	,, 27 36	,,	,,
,, ,, 7 9.3	,, 27 44	,,	Midzusima
,, ,, 7 58.9	,, 27 38	Midzusima	Tanakadate
,, ,, 9 43.3	,, 33 33	,,	,,
,, ,, 9 49.1	,, 33 8	Tanakadate	Midzusima
,, ,, 10 32.7	,, 35 47	,,	,,
Mean	5° 31′ 58″		

δ = 5° 31′97

Reduction to 1895.0 = 1.27

,, ,, sea level = −0.03

δ = 5° 33′2

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July. 29th 16h 26.5m	2	57° 16′7	Tanakadate	Midzusima
,, ,, 17 38.7	—	,, 18.2	Midzusima	Tanakadate
,, 30th 9 11.9	2	,, 15.9	Tanakadate	Midzusima
Mean		57° 16′9		

θ = 57° 16′9

Reduction to 1895.0 = −1.07

,, ,, sea level = 0.03

θ = 57° 15′9

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections. φ_1	Mean Deflections. φ_2	Temp. t_D	Observer	Recorder
July. 29th 14h 7m	0.26558	455.58	29°5C	5.99317	29°6C	7°24′50″0	16°52′21″2	29°5C	Tanakadate / Midzusima	Midzusima / Tanakadate
,, ,, 21 18	0.26544	456.93	23.9	5.9866	24.5	7 26 38.8	16 56 27.5	23.3	,, / Tanakadate	,, / Midzusima
,, 30th 7 39	0.26522	456.53	24.6	5.9908	24.8	7 26 32.5	16 56 20.0	24.4	,, / Midzusima	,, / Tanakadate
Mean	0.26541									

H = 0.26541

Reduction to 1895.0 = 064

,, ,, sea level = 307

H = 0.26545

III. ASAHIKAWA.

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 1st 2h 10.6m	6° 17′ 35″	Midzusima	Midzusima
„ „ 3 26.6	„ 16 47	„	„
„ „ 5 52.6	„ 15 22	„	„
„ „ 7 21.4	„ 14 17	Tanakadate	Tanakadate
„ „ 9 15.0	„ 17 32	„	„
„ „ 10 16.6	„ 18 8	„	„
„ „ 11 7.6	„ 20 42	„	„
„ „ 11 52.1	„ 23 0	„	„
„ „ 12 59.1	„ 25 0	„	„
„ „ 14 34.2	„ 23 57	„	„
„ „ 16 10.6	„ 20 19	Midzusima	„
„ „ 17 18.0	„ 19 27	„	Midzusima
„ „ 18 2.0	„ 18 33	„	„
„ „ 19 4.2	„ 18 39	„	„
„ „ 20 40.8	„ 18 42	„	„
„ „ 21 58.7	„ 19 3	Tanakadate	Tanakadate
„ 2nd 0 57.3	„ 18 37	„	„
„ „ 4 40.0	„ 17 43	„	„
„ „ 6 26.4	„ 14 5	„	„
„ „ 7 59.1	„ 13 25	„	„
Mean	6° 18′ 50″		

$\delta = 6°\ 18'.83$

Reduction to 1895.0 = 1.30

„ „ sea level = 0.00

$\delta = 6°\ 20'.1$

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 1st 6h 59.1m	—	57° 31′.7	Midzusima	Tanakadate
„ „ 15 44.0	—	„ 32.5	Tanakadate	Midzusima
„ „ 20 2.6	—	„ 31.5	Midzusima	„
Mean		57° 31′.9		

$\theta = 57°\ 31'.9$

Reduction to 1895.0 = −1.18

„ „ sea level = 0.00

$\theta = 57°\ 30'.7$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Rscorder
Aug. 1st 8h 30m	0.26388	457.42	22°.8C	s 5.9977	22°.3C	7°29′19″.0	17° 2′40″.0	23°.8C	Tanakadate	Tanakadate
„ „ 13 48	*0.26416	453.80	33.3	6.0210	33.3	(7 27 30.0	16 52 41.3	33.8)	„	„
„ „ 18 35	0.26410	455.66	28.0	6.0100	28.4	7 27 17.5	16 57 38.8	27.7	Midzusima	Midzusima
„ „ 21 26	0.26441	457.51	23.9	5.9935	24.1	7 28 30.0	17 0 16.3	23.7	„ / Tanakadate	Tanakadate / Midzusima
„ 2nd 8 7	0.26422	457.15	24.4	5.9970	24.1	7 28 27.5	17 0 24.0	24.7	„ / Midzusima	„ / Tanakadate
Mean	0.26415									

$H = 0.26415$

Reduction to 1895.0 = .074

„ „ sea level = .000

$H = 0.26416$

112. OHOTUKAWA.

DECLINATION (δ)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Aug. 3rd 19h 41.0m	6° 53′ 46″	Tanakadate	Tanakadate
„ „ 21 38.0	„ 54 0	„	„
Mean	6° 53′ 53″		

DIP (θ)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 4th 7h 33.8m	2	57° 36′1	Tanakadate	Tanakadate

$\theta = 57°\ 36′1$
Reduction to 1895.0 = −1.19
„ „ sea level = 0.12
$\theta = 57°\ 35′0$

HORIZONTAL INTENSITY (H)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 4th 5h 40m	0.26584	459.70	16°0C	5.9608s	15°5C	7°28′ 9″0	16°59′30″0	16.6C	Midzusima	Tanakadate

$H = 0.26584$
Reduction to 1895.0 = 088
„ „ sea level = 1029
$H = 0.26595$

113. POROKAMUIKOTAN.

DECLINATION (δ)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	θ	Observer	Recorder
Aug. 6th 14h 35.9m	6° 15′ 44″	Tanakadate	Tanakadate
„ „ 16 3.9	„ 16 2	„	„
„ „ 19 19.5	„ 10 8	„	„
„ 7th 2 26.4	„ 8 10	„	„
„ „ 4 45.9	„ 7 19	„	„
„ „ 7 4.3	„ 4 16	„	„
„ „ 7 38.0	„ 3 33	„	„
„ „ 8 52.5	„ 7 53	„	„
„ „ 9 54.0	„ 9 10	„	„
„ „ 10 21.1	„ 10 35	„	„
„ „ 11 14.3	„ 11 33	„	„
„ „ 11 45.8	„ 12 4	„	„
„ „ 12 25.6	„ 15 34	„	„
„ „ 13 46.9	„ 15 43	„	„
„ „ 14 29.4	„ 15 35	„	„
Mean	6° 10′ 50″		

$\delta = 6°\ 10′83$
Reduction to 1895.0 = 1.28
„ „ sea level = −0.09
$\delta = 6°\ 12′0$

DIP (θ)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 6th 17h 28.5m	2	58° 6′4	Tanakadate	Tanakadate
„ 7th 5 42.0	—	„ 6.2	„	„
„ „ 13 14.8	—	„ 5.2	„	„
Mean		58° 5′9		

$\theta = 58°\ 5′9$
Reduction to 1895.0 = −1.17
„ „ sea level = 0.12
$\theta = 58\ 4′8$

HORIZONTAL INTENSITY (H)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 6th 15h 34m	0.26422	454.18	31.9C	6.0184	32.2C	7°25′52″5	16°54′56″2	31.6C	Tanakadate	Tanakadate
,, 7th 4 4	0.26445	458.66	19.0	5.9847	18.9	7 29 54.0	17 3 59.0	19.0	,,	,,
,, ,, 8 22	0.26418	456.69	26.9	6.0174	26.8	7 28 12.5	17 0 7.5	27.1	,,	,,
Mean	0.26428									

$H = 0.26428$
Reduction to 1895.0 = 073
,, ,, sea level = 1036
$H = 0.26439$

幌神戚古潭出張
Poronai (ポロナイ)

DIP (θ)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 8th 10h 10.0m	2	57° 21′0	Tanakadate	Tanakadate

114. MASIKE.
(增毛町)

DECLINATION (δ)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 21st 2h 21.8m	6° 8′ 11″	Tanakadate	Kimura
,, ,, 5 38.6	,, 5 19	,,	Tanakadate
,, ,, 6 27.0	,, 4 52	,,	,,
,, ,, 7 42.9	,, 4 11	Kimura	,,
,, ,, 9 18.4	,, 9 38	,,	Kimura
,, ,, 11 5.4	,, 12 33	,,	,,
,, ,, 12 40.6	,, 14 8	,,	,,
,, ,, 14 15.7	,, 11 53	,,	,,
,, ,, 15 38.7	,, 9 50	,,	,,
,, ,, 17 38.3	,, 6 20	,,	,,
,, ,, 18 34.0	,, 5 56	Tanakadate	,,
,, 22nd 0 10.3	,, 5 35	,,	Tanakadate
,, ,, 3 53.6	,, 4 55	,,	,,
,, ,, 6 27.1	,, 0 42	Kimura	,,
Mean	6° 7′ 53″		

$\delta = 6°\ 7'88$
Reduction to 1895.0 = 1.22
,, ,, sea level = 0.00
$\delta = 6°\ 9'1$

DIP (θ)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 26th 12h 24.1m	—	57° 34′1	Tanakadate	Kimura
,, 21st 12 14.3	—	,, 36.4	Kimura	Tanakadate
,, ,, 14 54.1	—	,, 37.3	,,	Kimura
,, ,, 19 48.7	—	,, 36.7	Tanakadate	,,
Mean		57° 36′1		

$\theta = 57°\ 36'1$
Reduction to 1895.0 = −1.17
,, ,, sea level = 0.00
$\theta = 57°\ 34'9$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 21st 8h 43m	0.26498	457.28	20°6C	5.9882	20°7C	7°27′31″9	16 58′16″8	20°5C	Kimura / Tanakadate	Tanakadate / Kimura
„ „ 13 36	0.26514	455.83	22.1	5.9963	22.4	7 25 51.2	16 54 23.7	21.9	„ / Kimura	„ / Tanakadate
„ „ 23 20	0.26543	457.15	18.9	5.9838	19.0	7 26 43.7	16 56 28.1	18.8	„ / Tanakadate	„ / Kimura
Mean	0.26518									

	H= 0.26518
Reduction to 1895.0 =	120
„ „ sea level =	000
	H= 0.26519

115. SIRASITOMARI.

Ekiden and Post Office, about 300^{m}, East of the Ridge

(驛傳兼郵便局)

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 23rd 10h 49.0m	6° 27′ 34″	Tanakadate	Kimura
„ „ 11 20.6	„ 29 13	„	„
„ „ 13 13.6	„ 31 4	„	„
„ „ 14 35.3	„ 31 34	Kimura	Tanakadate
„ „ 14 47.1	„ 31 10	„	„
„ „ 14 57.3	„ 31 4	„	„
„ „ 15 39.7	„ 29 59	Tanakadate	Kimura
„ „ 17 0.7	„ 27 7	Kimura	„
„ „ 18 7.5	„ 25 40	„	„
„ „ 21 0.8	„ 25 20	Tanakadate	Tanakadate
„ „ 23 23.0	„ 26 44	„	„
„ 24th 3 11.6	„ 25 37	„	„
„ „ 5 4.7	„ 24 23	„	„
„ „ 7 39.8	„ 22 56	„	Kimura
„ „ 8 51.9	„ 22 25	Kimura	Tanakadate
„ „ 9 36.7	„ 25 4	Tanakadate	Kimura
„ „ 11 10.6	„ 28 52	Kimura	„
Mean	6° 26′ 34″		

	δ= 6° 26′57
Reduction to 1895.0 =	+1.22
„ „ sea level =	0.00
	δ= 6° 27′8

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 23rd 16h 32.7m	2	58° 17′8	Kimura	Tanakadate
„ 24th 7 15.2	—	„ 14.9	Tanakadate	„
„ „ 10 25.2	—	„ 18.3	Kimura	Kimura
Mean		58° 17′0		

	θ= 58° 17′0
Reduction to 1895.0 =	−1.18
„ „ sea level =	0.00
	θ= 58° 15′8

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 23rd 14h 3m	0.26255	456.03	24.6C	6.0237s	24.5C	7°30′ 8″.1	17° 4′13″.1	24.8C	Kimura, Tanakadate	Tanakadate, Kimura
„ „ 22 38	0.23235	458.25	12.9	6.0120	13.4	7 33 17.5	17 11 36.2	12.5	„	Tanakadate
„ 24th 8 29	0.26242	456.37	21.2	6.0224	21.0	7 30 45.6	17 5 39.0	21.3	„	Kimura
Mean	0.26244									

H =	0.26244
Reduction to 1895.0 =	101
„ „ sea level =	000
H =	0.26245

116. HŪREN.

Field (稲荷堂東北原野)

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 25th 10h 55.7m	6° 14′ 38″	Tanakadate	Kimura
„ „ 11 38.7	„ 17 1	„	„
„ „ 13 21.2	„ 18 15	„	„
„ „ 14 14.7	„ 18 43	Kimura	„
„ „ 15 42.5	„ 16 52	„	„
„ „ 17 5.7	„ 15 11	„	„
„ „ 19 42.8	„ 9 56	„	Tanakadate
„ „ 20 36.4	„ 12 11	Tanakadate	„
„ 26th 0 21.3	„ 11 14	„	„
„ „ 4 2.5	„ 11 43	„	„
„ „ 6 45.9	„ 9 3	Kimura	Kimura
„ „ 8 27.4	„ 9 11	Tanakadate	„
„ „ 9 37.9	„ 10 33	„	„
„ „ 10 54.8	„ 14 27	„	„
„ „ 12 28.9	„ 16 17	„	„
„ „ 13 40.1	„ 16 51	Kimura	Tanakadate
„ „ 15 30.1	„ 15 44	„	„
„ „ 16 28.6	„ 14 5	„	„
„ „ 17 35.3	„ 10 26	Tanakadate	Kimura
„ „ 18 12.9	„ 10 51	„	„
„ „ 19 15.2	„ 11 3	„	„
„ „ 20 15.8	„ 9 44	„	„
Mean	6° 12′ 41″		

δ = 6°	12′.68
Reduction to 1895.0 =	1.22
„ „ sea level =	0.00
δ = 6°	13′.9

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder.
Aug. 25th 14h 0.6m	—	58° 27′.0	Tanakadate, Kimura	Tanakadate, Kimura
„ „ 16 39.6	—	„ 24′.8	„	„
„ 25th 10 29.8	—	„ 27′.0	Tanakadate	„
„ „ 11 24.0	—	„ 23′.7	Kimura	Tanakadate
„ „ 17 7.4	—	„ 28′.3	Tanakadate	Kimura
Mean		58° 26′.7		

θ = 58°	26′.7
Reduction to 1895.0 =	−1.19
„ „ sea level =	−0.00
θ = 58°	25′.5

HORIZONTAL INTENSITY (H)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 25th 13h 4m	0.26167	455.49	24°9C	6.0394	25°6C	7°31′30″6	17° 7′30″6	24°3C	Kimura / Tanakadate	Tanakadate / Kimura
„ 26th 8 3	0.26138	457.05	18.1	6.0302	18.0	7 33 36.2	17 12 37.5	18.2	Kimura / Tanakadate	Tanakadate / Kimura
„ „ 13 19	0.26136	454.75	26.1	6.0478	26.7	7 31 7.5	17 6 27.5	25.5	„ / Kimura	„ / Tanakadate
„ „ 19 49	0.26099	456.76	17.3	6.0364	17.2	7 33 52.2	17 12 58.1	17.4	„ / Tanakadate	„ / Kimura
Mean	0.26135									

	$H=$	0.26135
Reduction to	1895.0 =	091
„ „	sea level =	000
	$H=$	0.26136

117. TESIO.

Field (天 鹽 原 野)

DECLINATION (δ)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 29th 9h 41.9m	6° 24′ 33″	Tanakadate	Kimura
„ „ 11 14.7	„ 29 11	Kimura	Tanakadate
„ „ 12 33.6	„ 29 6	„	„
„ „ 14 3.7	„ 28 48	Tanakadate	Kimura
„ „ 15 27.0	„ 26 13	Kimura	Tanakadate
„ „ 17 33.6	„ 23 52	„	Kimura
„ „ 18 18.8	„ 24 18	„	„
„ „ 18 25.6	„ 24 14	„	Tanakadate
„ „ 22 47.1	„ 23 32	Tanakadate	Kimura
„ 30th 3 0.5	„ 22 23	Kimura	„
„ „ 5 47.5	„ 19 57	„	„
„ „ 7 5.8	„ 17 17	„	„
„ „ 8 24.2	„ 17 48	„	Tanakadate
„ „ 9 32.0	„ 20 44	„	„
„ „ 10 52.9	„ 24 30	„	„
„ „ 12 14.9	„ 27 16	„	„
„ „ 13 11.7	„ 26 42	„	„
„ „ 17 2.4	„ 23 42	„	„
„ „ 18 35.6	„ 21 4	„	„
Mean	6° 23′ 30″		

	$\delta=$ 6°	23′50
Reduction to	1895.0 =	1.25
„ „	sea level =	0.00
	$\delta=$ 6°	24′8

DIP (θ)
Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 29th 10h 46.1m	—	58° 48′7	Kimura	Tanakadate
„ „ 17 6.2	—	„ 53.0	Tanakadate	Kimura
„ 30th 6 34.0	—	„ 50.0	Kimura	„
„ „ 10 16.2	—	„ 50.0	Tanakadate	„
Mean		58° 50′4		

	$\theta=$ 58°	50′4
Reduction to	1895.0 =	−1.22
„ „	sea level =	0.00
	$\theta=$ 58°	49′2

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 29th 13h 37m	0.25938	453.94	27°0C	s 6.0757	27°3C	7°33′55″2	17°13′24″3	26°8C	Kimura / Tanakadate	Tanakadate / Kimura
„ 30th 8 1	0.25930	455.84	21.2	6.0634	21.4	7 36 4.6	17 18 24.0	21.1	„ / Kimura	„ / Tanakadate
„ „ 17 58	0.25897	454.17	25.4	6.0808	26.6	7 34 30.0	17 15 1.9	24.3	„ / Tanakadate	„ / Kimura
Mean	0.25922									

$H = 0.25922$

Reduction to 1895.0 = 102

„ „ sea level = 000

$H = 0.25923$

118. POSINAI PITARI.

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 2nd 18h 26.0m	5° 29′ 25″	Tanakadate	Kimura
„ „ 22 12.8	„ 27 29	Kimura	Tanakadata
„ 3rd 5 56.6	„ 24 53	Tanakadate	Kimura
„ „ 6 40.1	„ 23 30	„	„
„ „ 8 55.4	„ 24 54	„	„
Mean	5° 28′ 60″		

$\delta = 5°\ 28'.60$

Reduction to 1895.0 = 1.11

„ „ sea level = 0.00

$\delta = 5°\ 29'.1$

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 2nd 20h 39.8m	—	58° 44′.5	Kimura	Kimura

$\theta = 58°\ 44'.5$

Reduction to 1895.0 = −1.13

„ „ sea level = 0.00

$\theta = 58°\ 43'.4$

HORIZONTAL INTENSITY (H).

(* *Value deduced from Vibration only by assuming Value of* M.)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 3rd 8h 15m	*0.26096	457.20	16°2C	s 6.0340	16°2C	(7°35′ 7″5	17°19′12″0	16°3C)	Kimura / Tanakadate	Tanakadate / Kimura

$H = 0.26096$

Reduction to 1895.0 = 076

„ „ sea level = 000

$H = 0.26097$

119. OKURUMATOMANAI.

Islet in River Tesio (天鹽河中ノ嶋嶼)

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 5th 15h 0.3m	7° 8′ 17″	Tanakadate	Kimura
,, ,, 15 50.4	,, 6 32	Kimura	Tanakadate
,, ,, 17 9.9	,, 6 6	,,	,,
,, ,, 18 38.4	,, 5 48	,,	,,
,, ,, 19 53.8	,, 4 59	Tanakadate	Kimura
,, ,, 21 15.6	,, 5 7	,,	,,
,, ,, 22 42.3	,, 3 27	,,	,,
,, 6th 1 58.1	,, 2 46	,,	,,
,, ,, 5 22.7	,, 2 19	Kimura	Tanakadate
,, ,, 6 42.5	6 59 32	,,	,,
,, ,, 7 20.9	,, 58 33	,,	,,
,, ,, 8 26.2	,, 58 26	,,	,,
,, ,, 9 26.3	7 0 59	Tanakadate	Kimura
,, ,, 10 40.2	,, 4 59	Kimura	Tanakadate
,, ,, 12 25.4	,, 10 16	,,	,,
,, ,, 13 30.3	,, 10 42	Tanakadate	Kimura
,, ,, 14 23.8	,, 9 20	,,	,,
Mean	7° 4′ 17″		

$\delta = 7°\ 4'.28$

Reduction to 1895.0 = 1.07

,, ,, sea level = −0.01

$\delta = 7°\ 5'.3$

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 5th 13h 46.5m	2	58° 21′.4	Kimura	Tanakadate
,, 6th 6 14.3	—	,, 23.1	Tanakadate	Kimura
,, ,, 8 59.6	—	,, 25.3	Kimura	Tanakadate
,, ,, 11 15.6	—	,, 25.2	Tanakadate	Kimura
Mean		58° 23′.8		

$\theta = 58°\ 23'.3$

Reduction to 1895.0 = −1.00

,, ,, sea level = 0.01

$\theta = 58°\ 22'.8$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 5th 22h 7m	0.26140	455.76	19°.8C	6.0388 s	19°.8C	7°32′21″.2	17° 9′50″.0	19°.8C	Kimura / Tanakadate	Tanakadate / Kimura
,, 6th 8 8	*0.26114	456.10	19.5	6.0175	19.4	(7 33 0.0	17 11 7.5	19.5)	,, / Kimura	,, / Tanakadate
,, ,, 13 17	*0.2 121	452.50	30.3	6.0399	31.8	(7 29 8.7	17 2 19.0	30.3)	,, / Tanakadate	,, / Kimura
Mean	0.26125									

$H = 0.26125$

Reduction to 1895.0 = .048

,, ,, sea level = .060

$H = 0.26126$

120. NAYOROPT.

Bank of River Tesio (天鹽河畔)

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 8th 13h 41.1m	6° 56′ 12″	Tanakadate	Kimura
„ „ 14 10.7	„ 55 31	„	„
„ „ 15 23.3	„ 53 22	„	„
„ „ 16 22.6	„ 51 50	Kimura	Tanakadate
„ „ 17 59.3	„ 51 10	„	„
„ „ 19 5.2	„ 51 28	Tanakadate	Kimura
„ „ 20 11.6	„ 51 10	Kimura	Tanakadate
„ „ 23 0.3	„ 50 30	Tanakadate	Kimura
„ 9th 1 36.1	„ 49 4	„	Tanakadate
„ „ 4 34.0	„ 48 12	Kimura	Kimura
„ „ 6 4.1	„ 47 56	Tanakadate	„
„ „ 7 21.9	„ 46 36	Kimura	Tanakadate
„ „ 8 37.8	„ 45 50	Tanakadate	Kimura
„ „ 9 31.6	„ 47 31	„	„
„ „ 10 24.9	„ 50 21	Kimura	Tanakadate
„ „ 11 24.2	„ 52 36	Tanakadate	Kimura
„ „ 12 12.9	„ 54 6	„	„
„ „ 13 9.8	„ 53 49	„	„
„ „ 13 52.6	„ 53 17	Kimura	Tanakadate
Mean	6° 50′ 16″		

$\delta = 6°\ 50'.27$

Reduction to 1895.0 = 0.99

„ „ sea level = −0.01

$\delta = 6°\ 51'.3$

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 8th 17h 33.2m	—	58° 12′.2	Kimura	Tanakadate
„ 9th 6 52.2	—	„ 12.8	Tanakadate	Kimura
„ „ 11 0.8	—	„ 13.8	Kimura	Tanakadate
Mean		58° 12′.9		

$\theta = 58°\ 12'.9$

Reduction to 1895.0 = −0.88

„ „ sea level = 0.02

$\delta = 58°\ 12'.0$

HORIZONTAL INTENSITY (H)

Observations of the West Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Sept. 8th 14h 54m	0.26196	453.51	27°0 C	6.0492	27°6 C	7°28′53″.1	17° 1′15″.0	26°5C	Kimura / Tanakadate	Tanakadate / Kimura
„ „ 19 44	0.26212	455.90	18.5	6.0300	18.8	7 31 19.0	17 7 19.0	18.3	„ / Kimura	„ / Tanakadate
„ 9th 8 13	0.26206	457.06	17.2	6.0224	17.3	7 32 25.6	17 9 50.6	17.2	Tanakadate / Kimura	Kimura / Tanakadate
Mean	0.26205									

$H = 0.26205$

Reduction to 1895.0 = 025

„ „ sea level = 119

$H = 0.26206$

121. NUPPAMAMOI.

South of Poromoi, Islet. (幌モイノ南，天鹽河中ノ小嶼)

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 11th 17h 36.0m	—	59° 1′2	Kimura	Tanakadate
„ 12th 7 7.7	—	58 57.3	Tanakadate	Kimura
„ „ 11 34.2	—	„ 59.5	Kimura	Tanakadate
„ „ 16 15.2	—	59 0.1	Tanakadate	Kimura
Mean		58° 59′5		

$\theta = 58°\ 59'5$

Reduction to 1895.0 = −1.07

„ „ sea level = 0.00

$\theta = 58°\ 58'4$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 11th 19h 39m	0.25776	455.22	21°8C	s 6.0857	22°0C	7°37′51″3	17°22′ 2″5	21°6C	Tanakadate / Kimura	Kimura / Tanakadate
„ 12th 8 59	0.25770	456.33	18.9	6.0773	18.5	7 39 5.6	17 25 15.0	19.4	„ / Tanakadate	„ / Kimura
„ „ 13 32	0.25805	455.91	19.0	6.0774	19.2	7 38 35.6	17 24 30.6	18.8	„ / Kimura	„ / Tanakadate
Mean	0.25784									

$H = 0.25784$

Reduction to 1895.0 = 077

„ „ sea level = 151

$H = 0.25786$

122. WAKASAKANAI.

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 14th 22h 37.6m	—	59° 0′9	Tanakadate	Kimura

$\theta = 59°\ 0'9$

Reduction to 1895.0 = −1.17

„ „ sea level = 0.00

$\theta = 58°\ 59'7$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 14th 21h 29m	*0.25751	458.80	11°1C	s 6.0636	11°1C	..	..	..	Tanakadate	Kimura
„ „ 21 47	*0.25805	459.30	9.7	6.0540	9.7	..	..	..	„	„
Mean	0.25778									

$H = 0.25778$

Reduction to 1895.0 = 105

„ „ sea level = 000

$H = 0.25779$

123. WAKKANAI.

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 15th 19h 22.8m	6° 48′ 16″	Tanakadate	Tanakadate
,, ,, 20 25.2	,, 48 46	,,	,,
,, ,, 23 20.2	,, 48 29	,,	,,
,, 16th 0 56.5	,, 47 31	,,	,,
,, ,, 4 17.2	,, 46 34	,,	,,
,, ,, 7 34.3	,, 45 51	,,	,,
,, ,, 9 31.6	,, 46 55	,,	Kimura
,, ,, 11 17.6	,, 51 9	Kimura	Tanakadate
,, ,, 13 31.8	,, 53 19	Tanakadate	Kimura
,, ,, 14 55.5	,, 51 24	,,	,,
,, ,, 16 9.1	,, 50 20	,,	,,
,, ,, 17 51.4	,, 48 36	,,	,,
,, ,, 19 35.6	,, 48 21	,,	,,
,, ,, 21 6.2	,, 48 41	,,	,,
Mean	6° 48′ 37″		

	δ = 6°	48″62
Reduction to	1895.0 =	1.16
,, ,,	sea level =	0.00
	δ = 6°	49″8

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 16th 12h 54.0m	—	59° 19′3	Tanakadate	Kimura
,, ,, 17 9.8	—	,, 16.5	,,	,,
,, 17th 7 0.7	—	,, 16.2	,,	Tanakadate
Mean		59° 17′3		

	θ = 59°	17′3
Reduction to	1895.0 =	−1.21
,, ,,	sea level =	0.00
	θ = 59°	16′1

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 16th 8h 40m	0.25763	455.19	21°5C	s 6.0909	23°1C	7°39′ 2″5	17°25′28″1	19°9C	Tanakadate / Kimura	Kimura / Tanakadate
,, ,, 14 20	0.25801	454.04	26.0	6.0941	27.5	7 36 48.7	17 19 56.2	24.5	,, / Tanakadate	,, / Kimura
Mean	0.25782									

	H =	0.25782
Reduction to	1895.0 =	104
,, ,,	sea level =	000
	H =	0.25783

124. SOYA.

Coast, near to Common School (小學校附近ノ海岸)

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 17th 17h 37.8m	6° 38′ 22″	Tanakadate	Tanakadate
,, ,, 18 40.2	,, 38 49	,,	,,
,, ,, 20 49.3	,, 38 35	,,	,,
,, ,, 22 20.7	,, 37 35	,,	,,
,, 18th 4 53.0	,, 36 58	,,	,,
,, ,, 8 19.7	,, 35 39	,,	,,
,, ,, 9 20.9	,, 35 43	,,	,,
,, ,, 10 24.0	,, 38 5	,,	,,
,, ,, 12 14.5	,, 41 27	,,	,,
,, ,, 12 49.4	,, 41 34	,,	,,
,, ,, 14 11.6	,, 41 11	,,	,,
,, ,, 15 16.3	,, 39 50	,,	,,
,, ,, 17 13.6	,, 38 35	,,	,,
,, ,, 18 56.1	,, 38 44	,,	,,
,, ,, 20 22.4	,, 38 5	,,	,,
Mean	6° 38′ 14″		

	$\delta = 6°\ 38'.23$
Reduction to 1895.0 =	1.13
,, ,, sea level =	0.00
	$\delta = 6°\ 39'.4$

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 18th 11h 29.4m	2	59° 15′.8	Tanakadate	Tanakadate
,, ,, 16 16.8	—	,, 13.2	,,	,,
,, ,, 19 47.4	—	,, 14.9	,,	,,
Mean		59° 14′.6		

	$\theta = 59°\ 14'.6$
Reduction to 1895.0 =	−1.15
,, ,, sea level =	0.00
	$\theta = 59°\ 13'.4$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 18th 8h 43m	0.25753	455.88	20°.1C	6.0828 s	19°.8C	7°38′59″.0	17°25′ 0″	20°.4C	Tanakadate	Tanakadate
,, ,, 13 2	0.25762	454.39	23.9	6.0927	24.0	7 37 26.2	17 21 30.0	23.8	,,	,,
,, ,, 18 18	0.25751	456.10	18.0	6.0814	18.1	7 39 15.0	17 25 31.2	17.9	,,	,,
Mean	0.25758									

	$H = 0.25758$
Reduction to 1895.0 =	089
,, ,, sea level =	000
	$H = 0.25759$

125. SARUBUTU.

Bank of Rivor Sarubutu (猿 拂 河 畔)

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 20th 10h 43.6m	7° 17′ 41″	Tanakadate	Tanakadate
,, ,, 11 28.2	,, 13 0	,,	,,
,, ,, 12 19.9	,, 19 40	,,	,,
,, ,, 13 0.6	,, 21 3	,,	,,
,, ,, 14 2.2	,, 19 13	,,	,,
,, ,, 15 39.1	,, 17 16	,,	,,
,, ,, 17 41.2	,, 15 45	,,	,,
,, ,, 19 0.9	,, 15 23	,,	,,
,, 21st 6 7.7	,, 12 0	,,	,,
,, ,, 7 50.2	,, 11 49	,,	,,
,, ,, 8 58.9	,, 13 18	,,	,,
,, ,, 10 25.4	,, 16 33	,,	,,
,, ,, 11 26.6	,, 16 53	,,	,,
,, ,, 12 22.6	,, 19 0	,,	,,
,, ,, 13 27.8	,, 19 55	,,	,,
Mean	7° 15′ 33″		

$\delta = 7°\ 15'.60$

Reduction to 1895.0 = 1.05

,, ,, sea level = 0.00

$\delta = 7°\ 16'.7$

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 20th 17h 8.6m	—	59° 1′.8	Tanakadate	Tanakadate
,, 21st 7 7.4	—	58 59.8	,,	,,
,, ,, 12 59.4	—	59 2.3	,,	,,
Mean		59° 1′.3		

$\theta = 59°\ 1'.3$

Reduction to 1895.0 = −1.04

,, ,, sea level = 0.00

$\theta = 59°\ 0'.3$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Sept. 20th 14h 51m	0.25716	455.22	20°.8C	6.0925	21°.0C	7°38′33″.7	17°23′ 4″.4	20°.8C	Tanakadate	Tanakadate
,, ,, 20 28	0.25777	456.13	18.1	6.0794	18.4	7 38.30.0	17 22 56.2	17.9	,,	,,
,, 21st 9 11	0.25767	456.13	18.2	6.0804	18.5	7 39 12.5	17 25 22.5	17.9	,,	,,
Mean	0.25753									

$H = 0.25753$

Reduction to 1895.0 = 065

,, ,, sea level = 000

$H = 0.25754$

126. ESASI.

Esasi office (戸長役場)

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 22nd 17h 55.6m	7° 2′ 50″	Tanakadate	Tanakadate
,, ,, 18 28.0	,, 2 38	,,	,,
,, ,, 20 32.5	,, 2 14	,,	,,
,, ,, 23 19.2	,, 0 51	,,	,,
,, 23rd 3 42.2	,, 0 57	,,	,,
,, ,, 6 14.1	,, 0 6	,,	,,
,, ,, 7 0.4	6 59 39	,,	,,
,, ,, 8 50.3	7 0 11	,,	,,
,, ,, 9 29.5	,, 1 49	,,	,,
,, ,, 11 45 0	,, 3 2	,,	,,
,, ,, 12 46.0	,, 6 16	,,	,,
,, ,, 13 50.7	,, 4 26	,,	,,
,, ,, 15 10.1	,, 4 22	,,	,,
,, ,, 16 55.7	,, 1 45	,,	,,
,, ,, 18 7.2	,, 1 46	,,	,,
Mean	7° 2′ 6″		

$\delta = 7°\ 2'.10$

Reduction to 1895.0 = 0.94

,, ,, sea level = 0.00

$\delta = 7°\ 3'.0$

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 22nd 22h 53.5m	—	59° 38′.1	Tanakadate	Tanakadate
,, 23rd 16 10.1	—	,, 40.9	,,	,,
,, ,, 18 58.0	—	,, 39.8	,,	,,
Mean		59° 39′.3		

$\theta = 59°\ 39'.6$

Reduction to 1895.0 = −0.90

,, ,, sea level = 0.00

$\theta = 59°\ 38'.7$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 23rd 8h 14m	0.25149	453.73	11°0C	s 6.1610	10°4C	7°50′54″0	17°52′29″0	11°5C	Tanakadate	Tanakadate
,, ,, 14 37	0.25211	453.69	22.6	6.1653	23.3	7 46 52.5	17 43 21.2	22.1	,,	,,
,, ,, 17 35	0.25187	455.28	17.2	6.1568	17 9	7 49 7.5	17 48 37.5	16.6	,,	,,
Mean	0.25182									

$H = 0.25182$

Reduction to 1895.0 = 034

,, ,, sea level = 000

$H = 0.25182$

127. PORONAI.

Ekiden (驛 傳)

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 25th 0h 33.2m	6° 9′ 15″	Tanakadate	Tanakadate
,, ,, 5 32.0	,, 9 8	,,	,,
,, ,, 6 44.6	,, 8 22	,,	,,
,, ,, 7 55.6	,, 8 21	,,	,,
,, ,, 9 25.7	,, 9 56	,,	,,
,, ,, 10 45.4	,, 11 3	,,	,,
,, ,, 11 38.6	,, 10 59	,,	Kimura
,, ,, 12 20.3	,, 11 38	,,	,,
,, ,, 13 17.7	,, 11 47	,,	,,
,, ,, 14 5.1	,, 10 57	Kimura	Tanakadate
,, ,, 15 24.5	,, 10 25	,,	,,
,, ,, 16 30.7	,, 10 5	,,	,,
,, ,, 17 27.8	,, 10 14	,,	,,
,, ,, 18 49.3	,, 10 26	,,	,,
,, ,, 20 37.5	,, 8 36	,,	,,
,, ,, 22 3.5	,, 8 56	Tanakadate	Kimura
,, 26th 6 38.8	,, 8 32	Kimura	,,
Mean	6° 6′ 45″		

$\delta = 6°\ 9'.75$

Reduction to 1895.0 = 0.85

,, ,, sea level = 0.00

$\delta = 6°\ 10'.6$

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 25th 15h 0.8m	2	58° 14'.3	Kimura	Tanakadate
,, ,, 19 54.8	2	,, 14.5	Tanakadate	Kimura
,, 26th 8 47.5	2	,, 14.4	Kimura	Tanakadate
Mean		58° 14'.4		

$\theta = 58°\ 14'.4$

Reduction to 1895.0 = −0.75

,, ,, sea level = 0.00

$\theta = 58°\ 13'.6$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 25th 8h 41m	0.26182	454.81	21°.0C	6.0427s	22°.1C	7°30′52″.5	17° 6′11″.2	20°.0C	Tanakadate	Tanakadate
,, ,, 11 58	0.26184	453.41	26.2	6.0502	26.4	7 28 58.1	17 1 37.5	26.1	Kimura / Tanakadata	,, / Kimura
,, ,, 17 4	0.26170	453.73	23.4	6.0503	24.0	7 29 55.0	17 4 7.5	22.8	,, / Kimura	,, / Tanakadate
,, 26th 7 35	0.26198	456.33	16.6	6.0279	16.6	7 31 54.3	17 8 40.0	16.7	,, / Tanakadate	,, / Kimura
Mean	0.26184									

$H = 0.26184$

Reduction to 1895.0 = 054

,, ,, sea level = 000

$H = 0.26185$

128. MONBETU.

(138) **Common School (小學校)**

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 27th 17h 57.7m	5° 59′ 4″	Tanakadate	Kimura
,, ,, 19 34.6	,, 57 53	,,	,,
,, ,, 20 51.6	,, 59 41	,,	,,
,, ,, 21 50.6	,, 59 16	Kimura	,,
,, ,, 23 26.8	,, 58 45	,,	,,
,, 28th 1 39.8	,, 57 52	,,	,,
,, ,, 3 46.8	,, 57 21	,,	,,
,, ,, 4 34.9	,, 58 27	,,	,,
,, ,, 6 27.9	,, 57 35	Tanakadate	,,
,, ,, 7 38.1	,, 57 44	Kimura	Tanakadate
,, ,, 8 55.0	,, 58 42	Tanakadate	Kimura
,, ,, 10 4.6	,, 59 56	,,	,,
,, ,, 11 2.9	6 1 14	Kimura	Tanakadate
,, ,, 12 6.0	,, 3 9	Tanakadate	Kimura
,, ,, 12 35.0	,, 3 54	,,	,,
,, ,, 14 0 0	,, 2 57	,,	,,
,, ,, 15 0.6	,, 2 19	,,	,,
,, ,, 16 49.1	,, 1 22	,,	,,
,, ,, 17 34.3	,, 0 41	Kimura	Tanakadate
,, ,, 18 49.6	5 58 16	,,	,,
Mean	5° 59′ 37″		

δ = 5° 59′62

Reduction to 1895.0 = 0.77

,, ,, sea level = 0.00

δ = 5° 0′4

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 27th 20h 10.1m	—	57° 53′3	Kimura	Tanakadate
,, 28th 7 9.0	2	,, 52.6	Tanakadate	Kimura
,, ,, 10 37.0	—	,, 54.8	Kimura	Tanakadate
Mean		57° 53′6		

θ = 57° 53′6

Reduction to 1895.0 = −0.63

,, ,, sea level = 0.00

θ = 57° 53′0

HORIZONTAL INTENSITY (*H*)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 28th 8h 29m	0.26202	457 30	13°3 C	6.0208 s	13°1 C	7°32′37″0	17° 9′59″0	13°4 C	Kimura / Tanakadate	Tanakadate / Kimura
,, ,, 13 34	0.26206	455.13	19.2	.6.0363	19.7	7 30 42.5	17 5 54.3	18.8	,, / Kimura	,, / Tanakadate
,, ,, 18 23	0.26289	458.90	12.0	6.0012	12.4	7 33 11.2	17 11 43.0	11.6	,, / Tanakadate	,, / Kimura
Mean	0.26232									

H = 0.26232

Reduction to 1895.0 = −021

,, ,, sea level = 000

H = 0.26232

129. YŪBETU.

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 29th 17h 58.2m	—	57° 43′1	Kimura	Tanakadate

θ = 57° 43′1

Reduction to 1895.0 = −0.54

,, ,, sea level = 0.00

θ = 57° 42′6

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M* (139)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 29th 17h 27m	*0.26289	456.00	16°.5C	s 6.0199	16°.5C	—	—	—	Tanakadate	Kimura

H = 0.26289

Reduction to 1895.0 = −044

„ „ sea level = C00

H = 0.26289

130. NOGAMI.

South West of Ekiden No. 18. (驛傳十八號ノ西南)

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 30th 14h 9.3m	5° 59′ 59″	Tanakadate	Kimura
„ „ 15 43.6	„ 57 51	„	„
„ „ 17 8.5	„ 56 55	„	„
„ „ 18 11.7	„ 57 30	Kimura	Tanakadate
„ „ 19 19.9	„ 56 49	Tanakadate	Kimura
„ „ 21 17.0	„ 57 9	„	„
Oct. 1st 3 57.8	„ 56 30	„	Tanakadate
„ „ 5 54.8	„ 54 50	Kimura	Kimura
„ „ 6 47.8	„ 55 13	„	„
„ „ 7 45.3	„ 53 46	„	„
„ „ 8 34.1	„ 53 38	„	„
„ „ 9 45.6	„ 55 21	„	„
„ „ 10 56.8	„ 57 44	„	„
„ „ 12 3.8	6 0 50	„	„
„ „ 12 59.4	„ 0 56	Tanakadate	„
Mean	5° 56′ 57″		

δ = 5° 56′.95

Reduction to 1895.0 = 0.69

„ „ sea level = −0.01

δ = 5° 57′.6

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 30th 16h 46.3m	—	57° 29′.4	Kimura	Tanakadate
Oct. 1st 7 23.5	—	„ 30.0	Tanakadate	Kimura
„ „ 11 23.5	—	„ 31.8	..	..
Mean		57° 30′.4		

θ = 57° 30′.4

Reduction to 1895.0 = −0.51

„ „ sea level = 0.02

θ = 57° 29′.9

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 30th 15h 4m	0.26418	455.99	16°.6C	s 6.0053	16°.7C	7°27′47″.5	16°58′58″.8	16.6C	Kimura / Tanakadate	Tanakadate / Kimura
„ „ 18 53	0.26381	456.48	14.8	6.0068	15.2	7 28 55.6	17 1 30.0	14.5	„ / Kimura	„ / Tanakadate
Oct. 1st 8 13	0.26351	457.65	9.8	6.0023	10.1	7 30 47.5	17 5 59.4	9.6	Tanakadate / Kimura	Kimura / Tanakadate
Mean	0.26383									

H = 0.26383

Reduction to 1895.0 = −041

„ „ sea level = 147

H = 0.26384

131. AINONAI.

North West of Ekiden (驛傳ノ西北)

DECLINATION (δ)

Observations of the North Party, 1894.

Daet and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 2nd 16h 35.0m	5° 49′ 11″	Tanakadate	Tanakadate
,, ,, 17 25.9	,, 48 15	,,	,,
,, ,, 19 48.2	,, 48 18	,,	,,
,, ,, 22 24.2	,, 47 37	,,	,,
,, 3rd 1 36.6	,, 46 12	,,	,,
,, ,, 5 57.2	,, 46 7	,,	,,
,, ,, 6 54.8	,, 45 3	,,	,,
,, ,, 8 43.8	,, 42 15	,,	,,
,, ,, 9 26.5	,, 45 42	,,	,,
,, ,, 10 53.2	,, 48 27	,,	,,
,, ,, 12 13.3	,, 51 13	,,	,,
,, ,, 13 40.5	,, 51 56	,,	,,
,, ,, 14 28.8	,, 52 22	,,	,,
,, ,, 15 49.6	,, 51 0	,,	,,
,, ,, 16 47.7	,, 49 0	,,	,,
,, ,, 17 26.0	,, 48 25	,,	,,
Mean	5° 47′ 54″		

$\delta = 5°\ 47'.90$
Reduction to 1895.0 = 0.64
,, ,, sea level = −0.02
$\delta = 5°\ 48'.5$

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Oct. 2nd 19h 3.2m	—	57° 11′.8	Tanakadate	Tanakadate
,, 3th 10 16.9	—	,, 14.9	,,	,,
,, ,, 15 7.6	2	,, 11.3	,,	,,
Mean		57° 12′.7		

$\theta = 57°\ 12'.7$
Reduction to 1895.0 = −0.44
,, ,, sea level = 0.04
$\theta = 57°\ 12'.3$

HORIZONTAL INTENSITY (H)

(* *Value deduced form Vibration only by assuming Value M*)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Oct. 2nd 21h 50m	*0.26389	456.40	13°.8C	5.9781 s	14°.4C	(7°28′36″.2	17° 0′40″.0	13°.8C)	Tanakadate	Tanakadate
,, 3th 8 8	*0.26405	456.60	13.3	5.9847	13.3	(7 28 47.5	17 1 32.5	13.4)	,,	,,
,, ,, 13 5	0.26389	455.05	20.4	6.0147	20.6	7 27 10.0	16 57 24.0	20.3	,,	,,
Mean	0.26394									

$H = 0.23394$
Reduction to 1895.0 = −057
,, ,, sea level = 294
$H = 0.26396$

132. ABASIRI.

Abasiri Meteorological Observatory (網走測候所)

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 4th 21h 31.1m	4° 42′ 0″	Tanakadate	Tanakadate
,, ,, 23 29.6	,, 41 35	,,	,,
,, 5th 2 53.2	,, 39 36	,,	,,
,, ,, 6 15.1	,, 39 29	,,	,,
,, ,, 7 37.8	,, 40 10	,,	,,
,, ,, 9 24.4	,, 38 44	,,	,,
,, ,, 10 27.5	,, 40 55	,,	,,
,, ,, 11 56.2	,, 45 20	,,	,,
,, ,, 12 50.4	,, 47 55	,,	,,
,, ,, 14 18.5	,, 48 9	,,	,,
,, ,, 15 15.6	,, 47 19	,,	,,
,, ,, 16 56.4	,, 41 33	,,	,,
,, ,, 17 57.6	,, 44 41	,,	,,
,, ,, 19 30.0	,, 42 38	,,	,,
,, ,, 20 22.4	,, 43 0	,,	,,
,, ,, 21 45.3	,, 43 53	,,	,,
,, ,, 23 1.7	,, 42 18	,,	,,
Mean	4° 42′ 32″		

	δ = 4°	42′53
Reduction to	1895.0 =	0.59
,, ,,	sea level =	0.00
	δ = 4°	43′1

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Oct. 5th 11h 15.4m	—	57° 11′9	Tanakadate	Tanakadate
,, ,, 16 7.0	—	,, 10.9	,,	,,
,, ,, 21 10.9	—	,, 11.1	,,	,,
Mean		57° 11′3		

	θ = 57°	11′3
Reduction to	1895.0 =	−0.39
,, ,,	sea level =	0.00
	θ = 57°	10′9

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Oct. 5th 8h 44m	0.26665	453.67	12°9 C	s 5.9717	12°7 C	7°24′10″6	16°50′25″0	13°1 C	Tanakadate	Tanakadate
,, ,, 13 33	0.26726	456.49	13.6	5.9666	13.7	7 23 15.6	16 48 36.2	13.6	,,	,,
,, ,, 22 28	0.26665	457.31	6.9	5.9691	7.4	7 25 26.2	16 53 44.4	6.5	,,	,,
Mean	0.26685									

	H =	0.26685
Reduction to	1895.0 =	−081
,, ,,	sea level =	000
	H =	0.26684

133. SYARI.

Coast, South West of Hotel Kikuti (菊池ホテルノ西南ナル海濱)

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 7th 9h 44.3m	5° 31′ 15″	Tanakadate	Tanakadate
,, ,, 10 45.8	,, 34 27	,,	,,
,, ,, 11 45.4	,, 36 13	,,	,,
,, ,, 12 18.6	,, 37 20	,,	,,
,, ,, 14 11.4	,, 40 10	,,	,,
,, ,, 15 43.0	,, 37 47	,,	,,
,, ,, 17 4.9	,, 36 10	,,	,,
,, ,, 18 23.4	,, 36 0	,,	,,
,, ,, 19 15.4	,, 36 23	,,	,,
,, ,, 21 10.4	,, 34 18	,,	,,
,, ,, 23 26.8	,, 35 29	,,	,,
,, 8th 1 1.4	,, 34 49	,,	,,
,, ,, 5 11.6	,, 34 11	,,	,,
,, ,, 7 54.3	,, 32 52	,,	,,
,, ,, 9 12.0	,, 31 51	,,	,,
,, ,, 9 47.3	,, 31 48	,,	,,
Mean	5° 35′ 13″		

	δ = 5°	35′.22
Reduction to	1895.0 =	0.52
,, ,,	sea level =	0.00
	δ = 5°	35′.7

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Oct. 7th 11h 22.2m	—	57° 32′.3	Tanakadate	Tanakadate
,, ,, 16 30.7	—	,, 29.9	,,	,,
,, 8th 7 28.7	—	,, 29.9	,,	,,
Mean		57° 30′.7		

	θ = 57°	30′.7
Reduction to	1895.0 =	−0.33
,, ,,	sea level =	0.00
	θ = 57°	30′.4

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Oct. 7th 13h 41m	0.26257	456.29	16°.9C	6.0228 s	17°.4C	7° 36′ 50″.0	17° 5′ 53″.8	16°.4C	Tanakadate	Tanakadate
,, ,, 20 23	0.26180	457.87	7.5	6.0208	8.0	7 33 52.5	17 12 46.2	7.0	,,	,,
,, ,, 8 44	0.26235	456.98	12.3	6.0175	11.6	7 31 38.7	17 7 54.3	13.1	,,	,,
Mean	0.26224									

	H =	0.26224
Reductions to	1895.0 =	−106
,, ,,	sea level =	000
	H =	0.26223

134. RAUSU.

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 11th 9h 30.2m	4° 53′ 26″	Tanakadate	Tanakadate
,, ,, 10 8.6	,, 53 53	,,	,,
,, ,, 11 17.0	,, 55 35	,,	,,
,, ,, 13 0.0	,, 58 17	,,	,,
,, ,, 14 33.2	,, 58 40	,,	,,
,, ,, 15 40.0	,, 57 4	,,	,,
,, ,, 16 43.4	,, 55 42	,,	,,
,, ,, 18 14.7	,, 55 32	,,	,,
,, ,, 19 35.2	,, 55 33	,,	,,
,, ,, 22 0.4	,, 55 33	,,	,,
,, 12th 2 54.2	,, 54 26	,,	,,
,, ,, 6 9.0	,, 54 47	,,	,,
,, ,, 7 12.8	,, 54 12	,,	,,
,, ,, 8 14.1	,, 53 30	,,	,,
,, ,, 9 28.3	,, 52 57	,,	,,
,, ,, 10 19.1	,, 53 38	,,	,,
Mean	4° 55′ 24″		

$\delta = 4°\ 55'.40$

Reduction to 1895.0 = 0.48

,, ,, sea level = 0.00

$\delta = 4°\ 55'.9$

DIP (θ)

Observations of the North Party, 1894.

Date and Hour Mean Local Time.	Needle No.	θ	Observer	Recorder
Oct. 11th 12h 23.9m	—	57° 18′.5	Tanakadate	Tanakadate
,, ,, 17 35.6	—	,, 17.8	,,	,,
,, 12th 7 45.4	—	,, 17.8	,,	,,
Mean		57° 18′.0		

$\theta = 57°\ 18'.0$

Reduction to 1895.0 = −0.27

,, ,, sea level = 0.00

$\theta = 57°\ 17'.7$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s.						
Oct. 11th 13h 59m	0.26396	456.11	15°.9 C	6.0061	15°.7 C	7°27′58″.8	16°59′ 5″.0	16°.1 C	Tanakadate	Tanakadate
,, ,, 21 18	0.26373	456.50	12.8	6.0070	13.1	7.29 3.1	17 1 43.1	12.5	,,	,,
,, 12th 8 59	0.26384	456.28	15.7	6.0050	14.9	7.28 8.1	16 59 33.1	16.6	,,	,,
Mean	0.26384									

$H = 0.26384$

Reduction to 1895.0 = −123

,, ,, sea level = 000

$H = 0.26383$

Rausu Syuttyō (羅臼出張)

Crater (羅臼噴火口)

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Oct. 11th 15h 18.6m	—	56° 48′.6	Tanakadate	Tanakadate

135. SIBETU.

DECLINATION (δ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 14th 13h 22.0m	5° 5′ 32″	Tanakadate	Tanakadate
,, ,, 17 23.7	,, 5 33	,,	,,
,, ,, 18 43.0	,, 5 35	,,	,,
,, ,, 20 14.8	,, 6 14	,,	,,
,, ,, 22 31.8	,, 4 25	,,	,,
,, 15th 2 10.5	,, 3 7	,,	,,
,, ,, 5 57.0	,, 3 0	,,	,,
,, ,, 6 34.3	,, 3 15	,,	,,
,, ,, 7 59.5	,, 4 37	,,	,,
,, ,, 8 27.0	,, 3 38	,,	,,
,, ,, 9 58.1	,, 4 53	,,	,,
,, ,, 11 0.5	,, 6 21	,,	,,
,, ,, 12 32.0	,, 7 26	,,	,,
,, ,, 14 13.3	,, 6 28	,,	,,
,, ,, 15 35.9	,, 4 40	,,	,,
,, ,, 17 3.4	,, 4 44	,,	,,
,, ,, 18 29.8	,, 5 12	,,	,,
,, ,, 20 13.1	,, 4 43	,,	,,
,, ,, 21 28.6	,, 4 21	,,	,,
Mean	5° 4′ 8″		

$\delta = 5°\ 4'.13$

Reduction to 1865.0 = 0.43

,, ,, sea level = 0.00

$\delta = 5°\ 4'.6$

DIP (θ)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Oct. 15th 11h 0.0m	—	57° 16′.6	Tanakadate	Tanakadate
,, ,, 16 25.7	—	,, 16.1	,,	,,
,, ,, 20 56.4	—	,, 18.0	,,	,,
Mean		57° 16′.9		

$\theta = 57°\ 16'.9$

Reduction to 1895.0 = −0.19

,, ,, sea level = 0.00

$\theta = 57°\ 16'.7$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Oct. 14th 21h 48m	0.26173	456.10	15°.4C	6.0320	15°.5C	7°31′48″.7	17° 7′56″.2	15°.3C	Tanakadate	Tanakadate
,, 15th 9 26	0.26169	456.26	14.0	6.0328	14.5	7 32 10.0	17 8 35.0	13.5	,,	,,
,, ,, 13 43	0.26208	456.26	12.7	6.0279	13.2	7 31 55.0	17 8 33.7	12.3	,,	,,
,, ,, 19 39	0.26170	457.17	9.2	6.0262	9.6	7 33 26.2	17 11 58.8	8.8	,,	,,
Mean	0.26181									

$H = 0.26181$

Reduction to 1895.0 = −.124

,, ,, sea level = .000

$H = 0.26180$

136. HAKODATE.

Aza Omorihama (字大森濱商業學校附屬地)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
July 2nd 20h 27.1m	5° 43′ 56″	Imamura	Imamura
,, ,, 21 23.9	,, 44 29	,,	,,
,, ,, 23 45.2	,, 44 43	,,	,,
,, 3rd 4 4.6	,, 41 23	Nakamura	Nakamura
,, ,, 5 40.7	,, 40 57	,,	,,
,, ,, 6 42.0	,, 43 18	,,	,,
,, ,, 7 41.7	,, 42 51	,,	,,
,, ,, 8 39.0	,, 44 31	Imamura	,,
,, ,, 9 36.4	,, 44 45	Nakamura	Imamura
,, ,, 10 36.5	,, 46 46	,,	,,
,, ,, 11 38.2	,, 47 55	,,	,,
,, ,, 11 46.5	,, 47 50	,,	,,
,, ,, 13 3.0	,, 48 19	Imamura	,,
,, ,, 14 16.9	,, 48 28	Nakamura	,,
,, ,, 15 48.9	,, 46 48	Imamura	,,
,, ,, 17 32.8	,, 44 41	Nakamura	,,
,, ,, 18 16.5	,, 43 11	,,	Nakamura
,, ,, 19 41.0	,, 42 51	,,	,,
,, ,, 20 28.7	,, 42 49	,,	,,
,, ,, 20 49.5	,, 43 53	,,	,,
,, ,, 22 18.5	,, 44 12	,,	,,
,, 4th 6 41.0	,, 41 12	,,	,,
Mean	5° 44′ 34″		

$\delta = 5°\ 44'.57$

Reduction to 1895.0 = 1.40

,, ,, sea level = 0.00

$\delta = 5°\ 46'.0$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 3rd 9h 14m	2	55° 34′.8	Nakamura	Imamura
,, ,, 17 12	2	,, 29.7	Imamura	Nakamura
,, 4th 7 30	—	,, 31.3	Nakamura	Imamura
,, ,, 12 57	2	,, 34.9	Imamura	,,
Mean		55° 32′.7		

$\theta = 55°\ 32'.7$

Reduction to 1895.0 = −1.19

,, ,, sea level = 0.00

$\theta = 55°\ 31'.5$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib$_n$.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
July 3rd 11h 13m	0.27438	444.25	23°9 C	6.0163	23°5C	6°58′35′.0	15°57′45′.0	24°3C	Nakamura	Imamura
,, ,, 15 13	0.27409	444.79	24.1	6.0213	24.8	6 59 27.0	15 58 22.5	23.5	Imamura	Nakamura
,, 4th 9 37	0.27426	443.74	24.1	6.0256	24.3	6 58 33.1	15 57 3.1	24.0	,,	,,
,, ,, 14 29	0.27480	443.12	27.8	6.0261	28.9	6 57 13.8	15 53 43.8	26.8	Nakamura	Imamura
,, ,, 14 41	0.27486	442.98	28.0	6.0231	28.9	6 57 0.0	15 53 20.6	27.1	,,	,,
Mean	0.27454									

$H = 0.27454$

Reduction to 1895.0 = 226

,, ,, sea level = 000

$H = 0.27456$

137. MORI.

Race ground （戸長役場ノ後方競馬場）

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)				δ			Observer	Recorder
July	6th	14h	59.7m	5°	43′	47″	Nakamura	Imamura
,,	,,	15	47.1	,,	42	49	,,	Nakamura
,,	,,	16	51.5	,,	41	5	Imamura	,,
,,	,,	17	44.2	,,	39	59	,,	,,
,,	,,	18	21.0	,,	39	28	Nakamura	Imamura
,,	,,	20	0.7	,,	40	36	,,	,,
,,	,,	21	36.8	,,	40	1	,,	Nakamura
,,	7th	0	59.7	,,	38	56	,,	,,
,,	,,	4	39.2	,,	33	36	,,	,,
,,	,,	6	7.2	,,	34	33	,,	,,
,,	,,	7	12.8	,,	33	21	,,	,,
,,	,,	8	10.0	,,	34	11	,,	,,
,,	,,	9	9.2	,,	36	31	Imamura	Imamura
,,	,,	10	9.8	,,	39	21	Nakamura	,,
,,	,,	12	0.1	,,	42	23	Imamura	Nakamura
,,	,,	12	11.3	,,	42	29	,,	,,
,,	,,	13	27.0	,,	42	39	,,	Imamura
,,	,,	14	15.6	,,	42	13	Nakamura	Nakamura
,,	,,	14	55.8	,,	41	40	,,	Imamura
,,	,,	15	48.6	,,	40	43	,,	,,
Mean				5°	39′	6″		

	δ = 5°	39′10
Reduction to	1895.0 =	1.42
,, ,,	sea level = 5°	0.0
	δ = 5°	40′5

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time)				Needle No.	θ		Observer	Recorder
July	6th	19h	28m	2	56°	17′4	Imamura	Imamura
,,	7th	7	4.5	2	,,	13.6	Nakamura	Nakamura
,,	,,	8	39	2	,,	16.2	,,	,,
,,	,,	12	57	2	,,	16.2	Imamura	Imamura
,,	,,	14	39	2	,,	14.3	Nakamura	Nakamura
Mean					56°	15′5		

	θ = 56°	15′5
Reduction to	1895.0 =	−1.27
,, ,,	sea level =	0.0
	δ = 56°	14′2

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)				H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
							s						
July	6th	16h	28m	0.27201	443.55	24.9C	6.0532	25.8C	7° 2′11″9	16° 5′49″4	24.0C	Nakamura	Imamura
,,	,,	20	53	0.27145	445.21	19.4	6.0475	20.0	7 4 25.0	16 10 31.9	18.8	Imamura	Nakamura
,,	7th	11	31	0.27184	441.76	28.9	6.0334	29.2	7 0 25.0	16 1 35.0	28.7	,,	,,
,,	,,	15	36	0.27185	443.20	24.6	6.0565	25.0	7 1 59.4	16 5 19.4	24.1	Nakamura	Imamura
Mean				0.27179									

	H =	0.27179
Reduction to	1895.0 =	222
,, ,,	sea level =	000
	H =	0.27181

138. SETANA.

Goryōkyoku Syuttyōsho (御料局出張所)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 11th 22h 10.0m	6° 4′ 11″	Nakamura	Imamura
,, 12th 4 20.4	,, 1 29	Imamura	,,
,, ,, 5 42.9	,, 0 11	Nakamura	Nakamura
,, ,, 6 33.8	5 59 11	,,	,,
,, ,, 7 34.0	,, 59 5	Imamura	,,
,, ,, 9 1.3	,, 58 5	Nakamura	Imamura
,, ,, 9 16.8	,, 58 56	Imamura	Nakamura
,, ,, 10 38.4	6 3 27	,,	,,
,, ,, 11 20.3	,, 6 2	Nakamura	,,
,, ,, 12 11.9	,, 7 3	,,	Imamura
,, ,, 13 16.9	,, 7 35	,,	,,
,, ,, 14 31.9	,, 7 44	,,	Nakamura
,, ,, 15 33.2	,, 7 24	,,	,,
,, ,, 15 41.9	,, 7 37	,,	,,
,, ,, 16 42.4	,, 4 54	Imamura	,,
,, ,, 17 44.8	,, 3 46	Nakamura	Imamura
,, ,, 19 2.6	,, 4 35	Imamura	Nakamura
,, ,, 20 8.1	,, 4 32	Nakamura	Imamura
,, ,, 20 59.3	,, 4 55	,,	,,
,, ,, 22 5.2	,, 4 54	,,	Nakamura
,, ,, 23 17.0	,, 4 22	Imamura	,,
,, 13th 4 35.8	,, 2 13	Nakamura	,,
Mean	6° 3′ 52″		

$\delta = 6°\ 3'87$

Reduction to 1895.0 = 1.55

,, ,, sea level = 0.00

$\delta = 6°\ 5'4$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 13th 10h 19m	2	56° 14′9	Imamura	Nakamura
,, ,, 11 55	2	,, 15.3	Nakamura	Imamura
,, ,, 15 1	2	,, 13.0	,,	Nakamura
,, ,, 18 34	2	,, 11.9	Imamura	,,
Mean		56° 13′8		

$\theta = 56°\ 13'8$

Reduction to 1895.0 = −1.56

,, ,, sea level = 0.00

$\theta = 55°\ 1'22$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 13th 8h 40m	0.27376	443.03	24°2C	s 6.0332	23°3C	6°58′19″4	15°56′30″6	25°0C	Imamura	Nakamura
,, ,, 13 48	0.27409	443.40	26.7	6.0315	27.6	6 58 8.1	15 55 15.6	25.9	Nakamura	Imamura
,, ,, 17 26	0.27391	443.55	22.9	6.0312	23.3	6 58 57.5	15 57 55.6	22.5	Imamura	Nakamura
,, ,, 20 38	0.27395	445.29	18.9	6.0187	19.3	7 0 33.1	16 1 49.4	18.5	Nakamura	Imamura
Mean	0.27393									

$H = 0.27393$

Reduction to 1895.0 = 321

,, ,, sea level = 000

$H = 0.27396$

139. KUTŌ.

Police station (警察署構内東隅)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 15th 17h 55.0m	6° 26′ 32″	Imamura	Nakamura
„ „ 18 34.4	„ 26 20	Nakamura	Imamura
„ „ 19 22.9	„ 26 29	Imamura	Nakamura
„ „ 21 18.3	„ 26 18	„	„
„ „ 22 42.1	„ 26 25	Nakamura	Imamura
„ 16th 0 16.3	„ 25 31	Imamura	„
„ „ 1 32.6	„ 24 36	„	„
„ „ 5 21.7	„ 22 24	Nakamura	Nakamura
„ „ 6 39.0	„ 19 56	„	„
„ „ 8 31.7	„ 18 30	Imamura	Imamura
„ „ 9 13.6	„ 20 31	„	Nakamura
„ „ 10 11.2	„ 23 35	Nakamura	Imamura
„ „ 11 6.5	„ 25 20	„	„
„ „ 11 51.8	„ 26 48	„	„
„ „ 13 7.1	„ 28 14	Imamura	„
„ „ 13 59.1	„ 28 24	„	Nakamura
„ „ 19 20.2	„ 25 14	Nakamura	„
„ „ 20 28.0	„ 25 0	Imamura	„
Mean	6° 24′ 34″		

	δ = 6°	24′57
Reduction to	1895.0 =	1.46
„ „	sea level =	0.00
	δ = 6°	26′0

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 15th 18h 15m	2	56° 6′8	Nakamura	Nakamura
„ „ 23 39	2	„ 7.7	Imamura	Imamura
„ 16th 10 39	2	„ 2.3	Nakamura	„
„ „ 16 38	2	„ 4.2	Imamura	Nakamura
„ 17th 9 46	—	„ 9.6	Nakamura	„
Mean		56° 6′1		

	θ = 56°	6′1
Reduction to	1895.0 =	−1.48
„ „	sea level =	0.00
	θ = 56°	4′6

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M*)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 15th 22h 4m	0.27300	443.46	24°1C	6.0409 s	24°2C	7° 0′16″2	16° 1′10″6	24°1C	Nakamura	Imamura
„ 16th 9 45	*0.27275	443.20	25.2	6.0453	25.2	(6 59 42.5	16 0 52.5	24°7)	Imamura	Nakamura
„ „ 12 4	0.27299	442.97	25.8	6.0457	26.1	6 59 45.6	15 59 40.6	25.4	Nakamura	Imamura
„ „ 14 39	*0.27338	441.90	29.0	6.0475	29.0	(6 58 18.1	15 57 30.6	27.5)	Imamura	Nakamura
Mean	0.27303									

	H =	0.27303
Reduction to	1895.0 =	315
„ „	sea level =	000
	H =	0.27306

140. ESASI.

Syōkonsya (招 魂 社 内)

DECLINATION (δ)
Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 18th 23h 54.0m	6° 3′ 37″	Nakamura	Imamura
,, 19th 4 3.9	,, 3 41	,,	Nakamura
,, ,, 4 39.6	,, 2 44	Imamura	Imamura
,, ,, 6 17.3	,, 1 41	,,	,,
,, ,, 7 21.4	,, 0 34	,,	,,
,, ,, 8 17.6	,, 2 0	Nakamura	Nakamura
,, ,, 9 31.2	,, 6 7	,,	Imamura
,, ,, 10 59.0	,, 10 36	Imamura	,,
,, ,, 11 50.4	,, 12 16	Nakamura	,,
,, ,, 12 48.8	,, 13 39	,,	Nakamura
,, ,, 13 44.1	,, 13 26	,,	,,
,, ,, 14 51.9	,, 12 3	,,	,,
,, ,, 16 4.5	,, 10 17	,,	,,
,, ,, 17 23.1	,, 8 0	Imamura	,,
,, ,, 18 24.2	,, 6 37	,,	,,
,, ,, 19 32.3	,, 6 14	,,	Imamura
,, ,, 20 44.6	,, 4 52	,,	,,
,, ,, 21 40.4	,, 2 42	,,	,,
,, ,, 22 53.0	,, 3 38	,,	,,
,, 20th 1 57.1	,, 3 21	,,	Nakamura
,, ,, 6 1.8	5 59 59	Nakamura	,,
,, ,, 7 7.9	6 0 53	,,	,,
Mean	6° 6′ 8″		

$\delta = 6°\ 6'13$
Reduction to 1895.0 = 1.36
,, ,, sea level = 0.00
$\delta = 6°\ 7'5$

DIP (θ)
Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 19th 10h 37m	2	55° 55′0	Imamura	Imamura
,, ,, 14 27	2	,, 57.0	Nakamura	Nakamura
,, ,, 18 7	2	,, 58.4	,,	Imamura
,, ,, 22 26	2	,, 56.0	Imamura	,,
Mean		55° 56′5		

$\theta = 55°\ 56'6$
Reduction to 1895.0 = −1.27
,, ,, sea level = 0.00
$\theta = 55°\ 55'3$

HORIZONTAL INTENSITY (H)
Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 19th 9h 5m	0.27293	442.56	25°1C	6.0477s	25°0C	6°59′49″4	16° 0′43″1	25°1C	Imamura	Nakamura
,, ,, 12 18	0.27245	442.95	24.3	6.0503	24.3	7 0 30.6	16 1 37.5	24.3	Nakamura	Imamura
,, ,, 17 2	0.27270	442.87	26.5	6.0496	27.1	6 59 45.6	15 59 9.4	25.9	Imamura	Nakamura
Mean	0.27269									

$H = 0.27269$
Reduction to 1895.0 = 270
,, ,, sea level = 000
$H = 0.27272$

141. HUKUYAMA.

Common School (小學校)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 21st 10h 44.0m	5° 50′ 1″	Nakamura	Imamura
,, ,, 11 54.9	,, 51 18	,,	,,
,, ,, 13 23.0	,, 52 54	Imamura	Nakamura
,, ,, 14 13.8	,, 52 58	Nakamura	,,
,, ,, 15 21.7	,, 51 31	Imamura	,,
,, ,, 16 31.8	,, 49 38	Nakamura	Imamura
,, ,, 17 37.1	,, 47 8	Imamura	,,
,, ,, 18 56.1	,, 45 11	,,	,,
,, ,, 20 4.5	,, 44 17	Nakamura	Nakamura
,, ,, 21 6.1	,, 46 3	Imamura	,,
,, ,, 22 5.2	,, 47 13	Nakamura	Imamura
,, ,, 23 5.6	,, 47 17	Imamura	Nakamura
,, 22nd 0 23.6	,, 47 0	,,	Imamura
,, ,, 1 44.6	,, 47 28	Nakamura	Nakamura
,, ,, 6 11.1	,, 44 20	,,	,,
,, ,, 7 20.5	,, 45 13	,,	,,
,, ,, 8 41.0	,, 45 53	,,	,,
,, ,, 9 56.2	,, 46 46	,,	,,
Mean	5° 47′ 43″		

	δ = 5° 47′72
Reduction to 1895.0 =	1.23
,, ,, sea level =	0.00
	δ = 5° 49′0

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 21st 8h 27m	2	55° 7′1	Nakamura	Nakamura
,, ,, 14 48	2	,, 5.0	Imamura	Imamura
,, ,, 17 9	2	,, 5.5	Nakamura	,,
,, ,, 20 41	2	,, 10.4	Imamura	,,
Mean		55° 7′0		

	θ = 55° 7′0
Reduction to 1895.0 =	−1.13
,, ,, sea level =	0.00
	θ = 55° 5′9

HORIZONTAL INTENSITY (*H*)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
July 21st 11h 24m	0.27750	440.12	31.0C	6.0144	31.1C	6°50′16″9	15°38′15″0	30.0C	Nakamura	Imamura
,, ,, 16 11	0.27780	440.91	29.7	6.0088	31.2	6 51 33.8	15 41 55.6	28.3	Imamura	Nakamura
,, ,, 21 45	0.27753	442.36	26.1	5.9993	26.5	6 52 26.3	15 42 56.0	25.7	Nakamura	Imamura
,, 22nd 9 27	0.27774	440.77	30.6	6.0030	30.8	6 50 29.4	15 38 25.0	30.4	Imamura	Nakamura
Mean	0.27764									

	H = 0.27764
Reduction to 1895.0 =	.257
,, ,, sea level =	.000
	H = 0.27767

142. SIRIUTI.

West bank of River Siriuti (知内川ノ西岸)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour. (Mean Local Time.)	δ	Observer	Recorder
July 23rd 21h 3.4m	5° 30′ 6″	Nakamura	Imamura
,, ,, 21 55.9	,, 31 9	,,	Nakamura
,, 24th 0 37.5	,, 30 54	,,	,,
,, ,, 1 31.6	,, 30 49	,,	,,
,, ,, 5 37.8	,, 29 17	,,	,,
,, ,, 7 7.3	,, 26 53	,,	,,
,, ,, 7 17.8	,, 26 35	,,	,,
,, ,, 8 16.2	,, 25 43	Imamura	,,
,, ,, 9 24.4	,, 27 53	,,	Imamura
,, ,, 10 34.0	,, 28 38	,,	,,
,, ,, 12 1.5	,, 31 35	,,	Nakamura
,, ,, 12 50.3	,, 33 40	Nakamura	Imamura
,, ,, 13 52.3	,, 35 38	,,	Nakamura
,, ,, 14 38.8	,, 34 48	,,	,,
,, ,, 15 32.3	,, 34 41	,,	,,
,, ,, 16 49.0	,, 32 2	,,	Imamura
,, ,, 17 41.0	,, 30 56	Imamura	Nakamura
,, ,, 18 56.7	,, 30 22	,,	Imamura
,, ,, 19 58.8	,, 30 28	Nakamura	Nakamura
Mean	5° 30′ 28″		

$\delta = 5°\ 30'.47$

Reduction to 1895.0 = 1.23

,, ,, sea level = 0.00

$\delta = 5°\ 31'.7$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 23rd 23h 0m	2	55° 35′.2	Nakamura	Nakamura
,, 24th 12 32	2	,, 36.8	Imamura	,,
,, ,, 15 8	2	,, 37.1	Nakamura	,,
,, ,, 19 34	2	,, 34.8	,,	,,
Mean		55° 33′.0		

$\theta = 55°\ 36'.0$

Reduction to 1895.0 = −1.06

,, ,, sea level = 0.00

$\theta = 55°\ 34'.9$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
July 24th 11h 40m	0.27443	442.61	24°.9C	6.0307	24°.9C	6°57′13″.1	15°54′ 2″.5	24°.8C	Imamura	Nakamura
,, ,, 17 17	0.27453	441.24	28.0	6.0401	28.5	6 56 8.1	15 52 1.9	27.4	Nakamura	Imamura
,, ,, 20 44	0.27433	442.79	23.3	6.0273	23.4	6 57 18.8	15 54 34.4	23.3	,,	,,
,, 25th 7 21	*0.27453	442.20	24.5	6.0215	24.5	(6 56 21.9	15 51 55.0	25.8)	Imamura	Nakamura
Mean	0.27457									

$H = 0.27457$

Reduction to 1895.0 = 223

,, ,, sea level = 000

$H = 0.27459$

143. TIRIBETU.

Military ground (屯田兵司令部所轄地)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 29th 15h 45.9m	6° 9′ 48″	Nakamura	Nakamura
,, ,, 16 20.7	,, 8 57	,,	,,
,, ,, 17 4.4	,, 6 40	,,	,,
,, ,, 18 18.4	,, 6 15	,,	,,
,, ,, 19 19.1	,, 6 10	,,	,,
,, ,, 20 26.7	,, 6 22	,,	,,
,, ,, 23 45.8	,, 6 29	,,	,,
,, 30th 5 53.2	,, 3 10	,,	,,
,, ,, 6 54.3	,, 1 42	,,	,,
,, ,, 7 57.6	,, 1 42	,,	,,
,, ,, 9 1.3	,, 5 2	,,	,,
,, ,, 10 12.7	,, 8 19	,,	,,
,, ,, 11 1.8	,, 11 14	,,	,,
,, ,, 12 11.2	,, 13 33	,,	,,
,, ,, 13 4.5	,, 13 32	,,	,,
,, ,, 14 10.0	,, 12 30	,,	,,
,, ,, 15 0.5	,, 10 52	,,	,,
,, ,, 15 50.9	,, 9 28	,,	,,
Mean	6° 7′ 6″		

	$\delta = 6°\ 7'.10$
Reduction to 1895.0 =	1.25
,, ,, sea level =	0.00
	$\delta = 6°\ 8'.4$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 31th 7h 31.m	2	56° 31′.8	Nakamura	Nakamura
,, ,, 11 36	2	,, 32.0	,,	,,
,, ,, 15 28	2	,, 32.0	,,	,,
Mean		56° 31′.9		

	$\theta = 56°\ 31'.9$
Reduction to 1895.0 =	−1.11
,, ,, sea level =	0.00
	$\theta = 56°\ 30'.8$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t	Observer	Recorder
				s						
July. 29th 17h 46m	*0.26798	441.00	28°.5C	6.1143	28°.6C	(7° 6′56″.9	16°14′16″.2	28°.4C)	Nakamura	Imamura
,, 30th 9 35	*0.26814	440.80	29.3	6.1141	29.3	(7 6 30.0	16 14 36.9	29.3)	,,	,,
,, ,, 13 43	0.26812	439.94	31.8	6.1196	31.5	7 4 7.5	16 10 1.2	32.1	,,	,,
,, ,, 16 32	0.26836	440.01	31.5	6.1188	32.3	7 4 17.5	16 10 36.2	30.8	,,	,,
,, ,, 16 45	0.26820	440.16	31.3	6.1212	32.8	7 4 40.6	16 11 5.6	29.9	,,	,,
Mean	0.26813									

	$H = 0.26816$
Reduction to 1895.0 =	179
,, ,, sea level =	00.0
	$H = 0.26818$

144. TOMAKOMAI.

Race ground (戸長役場ノ西競馬場内)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 31st 17h 27.6m	5° 4′ 57″	Nakamura	Nakamura
,, ,, 18 30.1	,, 4 28	,,	,,
,, ,, 19 22.6	,, 4 10	,,	,,
,, ,, 21 3.8	,, 3 57	,,	,,
,, ,, 23 23.1	,, 4 57	,,	,,
,, ,, 23 58.2	,, 5 0	,,	,,
,, ,, 4 41.1	,, 3 16	,,	,,
Aug. 1st 7 9.1	,, 1 10	,,	,,
,, ,, 8 27.2	,, 2 44	,,	,,
,, ,, 9 7.8	,, 3 24	,,	,,
,, ,, 9 57.0	,, 4 24	,,	,,
,, ,, 11 3.0	,, 7 24	,,	,,
,, ,, 11 43.6	,, 9 26	,,	,,
,, ,, 12 31.1	,, 10 17	,,	,,
,, ,, 13 39.0	,, 10 14	,,	,,
,, ,, 14 46.9	,, 7 58	,,	,,
,, ,, 15 46.8	,, 6 32	,,	,,
,, ,, 16 44.8	,, 5 39	,,	,,
,, ,, 17 23.8	,, 5 40	,,	,,
Mean	5° 4′ 58″		

	$\delta = 5°$	4′97
Reduction to	1895.0 =	1.19
,, ,,	sea level =	0.00
	$\delta = 5°$	6′2

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 1st 9h 27m	—	56° 49′2	..	..
,, ,, 12 10	2	,, 49.3	..	..
,, ,, 15 7	2	,, 48.2	Nakamura	Nakamura
Mean		56° 48′9		

	$\theta = 56°$	48′0
Reduction to	1895.0 =	−0.97
,, ,,	sea level =	0.00
	$\theta = 56°$	47′9

HORIZONTAL INTENSITY. (H)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
July 31st 20h 35m	0.26952	442.71	23°2C	6.0851	23°5C	7° 5′ 0″6	16°12′ 8″8	23°0C	Nakamura	Nakamura
Aug. 1st 10 36	0.26889	442.44	23.3	6.0939	23.4	7 5 36.2	16 13 25.0	23.3	,,	,,
,, ,, 14 13	0.26930	441.64	24.6	6.0943	24.5	7 4 23.8	16 11 9.4	24.8	,,	,,
,, ,, 16 21	0.26931	442.23	23.7	6.0901	23.6	7 4 43.9	16 11 39.4	23.8	,,	,,
Mean	0.26926									

	$H =$	0.26926
Reduction to	1895.0 =	109
,, ,,	sea level =	000
	$H =$	0.26927

145. SARUPT.

Common school (小 學 校)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)				δ			Observer	Recorder
Aug.	4th	10h	52.5m	6°	1′	29″	Nakamura	Imamura
,,	,,	11	21.0	,,	2	24	,,	Nakamura
,,	,,	12	23.6	,,	4	16	,,	Imamura
,,	,,	13	21.1	,,	5	51	,,	Nakamura
,,	,,	14	28.9	,,	4	45	Imamura	,,
,,	,,	15	27.6	,,	4	0	,,	,,
,,	,,	16	56.8	,,	1	55	Nakamura	Imamura
,,	,,	17	58.1	,,	1	9	Imamura	Nakamura
,,	,,	18	59.8	,,	1	17	Nakamura	,,
,,	,,	20	0.6	,,	1	45	,,	,,
,,	,,	20	58.1	,,	1	31	,,	,,
,,	5th	0	28.4	5	58	54	Imamura	Imamura
,,	,,	4	52.6	,,	57	27	Nakamura	Nakamura
,,	,,	5	56.7	,,	55	23	,,	,,
,,	,,	6	50.8	,,	54	2	,,	,,
,,	,,	8	2.9	,,	53	44	,,	,,
,,	,,	9	17.4	,,	56	21	,,	,,
,,	,,	10	50.2	6	3	28	,,	Imamura
,,	,,	10	58.4	,,	2	44	,,	,,
Mean				6°	0′	0″		

$\delta = 6°\ 0'.0$

Reduction to 1895.0 = 1.10

,, ,, sea level = 0.00

$\delta = 6°\ 1'.10$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)				Needle No.	θ		Observer	Recorder
Aug.	4th	13h	57m	2	56°	25′.7	Nakamura	Nakamura
,,	,,	17	34	2	,,	26.9	Imamura	,,
,,	,,	20	35	2	,,	27.5	Nakamura	,,
,,	5th	8	31	2	,,	27.3	,,	,,
Mean					56°	26′.8		

$\theta = 56°\ 26'.8$

Reduction to 1895.0 = −0.80

,, ,, sea level = 0.00

$\theta = 56°\ 26'.0$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)				H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
							s						
Aug.	4th	12h	2m	0.27027	440.85	27°.4C	6.0892	27°.4C	7° 1′57″.5	16° 5′11″.3	27°.4C	Nakamura	Imamura
,,	,,	16	17	*0.26974	439.75	30.3	6.1028	30.3	(7 1 25.6	16 4 53.8	27.3)	Imamura	Nakamura
,,	,,	18	28	0.26992	441.95	22.7	6.0853	22.9	7 3 50.0	16 9 47.5	22.6	Nakamura	Imamura / Nakamura
,,	5th	10	15	0.26950	440.37	23.7	6.0979	27.3	7 1 56.9	16 4 43.8	30.0	Imamura	,,
,,	,,	10	26	0.26980	439.89	28.7	6.0979	27.3	7 1 26.2	16 4 15.6	30.1	,,	,,
Mean				0.26985									

$H = 0.26985$

Reduction to 1895.0 = 058

,, ,, sea level = 000

$H = 0.26986$

146. OSYATINAI.

West corner of village ground (長知内村中央ノ空地ノ西隅)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 6th 18h 31.6m	5° 49′ 27″	Nakamura	Imamura
,, ,, 19 14.9	,, 49 24	Imamura	Nakamura
,, ,, 20 38.5	,, 49 33	,,	,,
,, 7th 0 5.0	,, 49 50	,,	,,
,, ,, 5 31.2	,, 47 18	,,	Imamura
,, ,, 6 58.2	,, 45 0	Nakamura	Nakamura
,, ,, 7 59.9	,, 45 17	Imamura	Imamura
,, ,, 9 11.8	,, 47 22	Nakamura	Nakamura
,, ,, 10 34.8	,, 51 12	Imamura	Imamura
,, ,, 11 28.7	,, 52 22	,,	,,
,, ,, 12 33.5	,, 54 45	Nakamura	,,
,, ,, 13 26.7	,, 55 42	,,	Nakamura
,, ,, 14 29.2	,, 53 41	,,	,,
,, ,, 15 28.1	,, 52 54	Imamura	Imamura
Mean	5° 49′ 50″		

$\delta = 5°\ 49'.83$
Reduction to 1895.0 = 1.08
,, ,, sea level = −0.01
$\delta = 6°\ 50'.9$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 6th 20h 42m	2	56° 33′.3	Imamura	Nakamura
,, 7th 10 7	2	,, 33.6	,,	Imamura
,, ,, 13 57	2	,, 35.1	Nakamura	Nakamura
Mean		56° 34′.0		

$\theta = 56°\ 34'.0$
Reduction to 1895.0 = −0.81
,, ,, sea level = 0.01
$\theta = 56°\ 33'.2$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 7th 8h 45m	0.26938	440.85	29°.4C	6.0979 s	28°.8C	7° 2′32″.5	16° 5′40″.0	30°.1C	Nakamura	Imamura
,, ,, 12 10	0.26916	439.23	33.1	6.1135	33.1	7 1 27.5	16 3 8.1	33.0	Imamura	Nakamura
,, ,, 14 53	0.26933	439.55	31.8	6.1084	31.5	7 1 21.3	16 2 48.1	32.1	Nakamura	Imamura
,, ,, 15 1	0.26931	439.25	32.3	6.1084	31.5	7 0 47.5	16 1 33.1	33.1	,,	,,
Mean	0.26930									

$H = 0.26930$
Reduction to 1895.0 = 040
,, ,, sea level = 144
$H = 0.26932$

147. NOHUKA.

Pasture of Sekisinsya (赤心社牧場).

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 12th 13h 54.5m	6° 11′ 1″	Imamura	Nakamura
,, ,, 14 52.0	,, 10 56	Nakamura	,,
,, ,, 16 19.9	,, 10 41	Imamura	,,
,, ,, 17 57.5	,, 8 53	,,	,,
,, ,, 19 8.0	,, 7 52	Nakamura	Imamura
,, ,, 19 53.0	,, 8 9	Imamura	Nakamura
,, ,, 21 13.3	,, 8 12	Nakamura	,,
,, ,, 22 40.3	,, 8 20	,,	,,
,, 15th 5 6.3	,, 5 11	Imamura	Imamura
,, ,, 6 7.9	,, 4 26	Nakamuru	Nakamura
,, ,, 7 11.5	,, 4 37	,,	,,
,, ,, 8 20.3	,, 6 9	,,	,,
,, ,, 9 26.0	,, 8 38	Imamura	Imamura
,, ,, 11 .0	,, 9 42	Nakamura	Nakamura
,, ,, 12 17.7	,, 10 9	,,	,,
,, ,, 14 9.3	,, 10 43	,,	Imamura
,, ,, 14 56.4	,, 10 36	Imamura	,,
Mean	6° 8′ 8″		

$\delta = 6°\ 8'13$

Reduction to 1895.0 = 0.92

,, ,, sea level = 0.00

$\delta = 6°\ 9'1$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 12th 17h 24m	2	55° 56′3	Nakamura	Nakamura
,, ,, 20 35	2	,, 56.0	Imamura	,,
,, 13th 6 52	2	,, 57.2	Nakamura	,,
,, ,, 11 54	2	,, 57.4	Imamura	,,
Mean		55° 56′8		

$\theta = 55°\ 56'8$

Reduction to 1895.0 = −0.54

,, ,, sea level = 0.00

$\theta = 55°\ 56'3$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 12th 15h 54m	0.27105	438.61	31.9 C	s 6.0979	32.5 C	6°58′22″5	15°56′18″1	31.3 C	Imamura	Nakamura
,, ,, 18 39	0.27115	440.96	26.5	6.0791	26.8	7 0 8.8	15 59 54.4	26.2	Nakamura	Imamura
,, ,, 22 11	0.27096	441.48	24.4	6.0777	24.7	7 1 6.2	16 2 18.8	24.1	Imamura	Nakamura
,, 15th 10 2	0.27080	439.02	31.0	6.0948	30.4	6 58 34.4	15 56 26.3	31.6	Nakamura	Imamura
Mean	0.27099									

$H = 0.27099$

Reduction to 1895.0 = −023

,, ,, sea level = 000

$H = 0.27099$

148. URAKAWA.

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	θ	Observer	Recorder
Aug. 14th 17h 30.3m	6° 5′ 42″	Nakamura	Nakamura
,, ,, 18 22.1	,, 3 4	Imamura	Imamura
,, ,, 19 17.7	,, 4 22	,,	,,
,, ,, 20 30.9	,, 5 40	Nakamura	,,
,, ,, 23 5.1	,, 4 19	,,	,,
,, ,, 23 48.2	,, 4 10	Imamura	Nakamura
,, 15th 5 56.3	,, 0 34	Nakamura	,,
,, ,, 7 20.1	5 59 45	,,	,,
,, ,, 8 10.5	,, 59 19	Imamuaa	Imamura
,, ,, 9 48.3	6 2 2	,,	Nakamura
,, ,, 11 5.6	,, 6 41	Nakamura	Imamura
,, ,, 11 44.4	,, 8 11	,,	Nakamura
,, ,, 12 39.8	,, 9 5	Imamura	,,
,, ,, 13 38.6	,, 8 58	Nakamura	,,
,, ,, 15 7.2	,, 8 30	Imamura	Imamura
Mean	6° 4′ 28″		

$\delta = 6°\ 4'47$

Reduction to 1895.0 = 0.89

,, ,, sea level = 0.00

$\delta = 6°\ 5'4$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 14th 18h 22m	2	55° 53′7	Nakamura	Imamura
,, ,, 19 58	2	,, 51.6	Imamura	,,
,, 15th 10 43	2	,, 48.7	,,	Nakamura
,, ,, 13 39	2	,, 51.4	Nakamura	,,
Mean		55° 51′4		

$\theta = 55°\ 51'4$

Reduction to 1895.0 = −0.50

,, ,, sea level = 0.00

$\theta = 55°\ 50'9$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 15th 9h 13m	0.27181	440.68	26°2C	6.0718	25°7C	6°58′45″6	15°56′58″1	26°8C	Nakamura	Imamura
,, ,, 12 13	0.27171	439.84	27.9	6.0801	27.9	6 58 15.0	15 55 46.9	27.9	Imamura	Nakamura
,, ,, 15 51	0.27211	440.12	27.1	6.0749	27.7	6 58 18.1	15 56 12.5	25.6	,,	,,
,, ,, 18 1	0.27205	440.87	24.4	6.0701	24.9	6 59 11.2	15 58 20.0	23.9	Nakamura	,,
Mean	0.27192									

$H = 0.27192$

Reduction to 1895.0 = −025

,, ,, sea level = 000

$H = 0.27192$

149. SYOYA.

Field behind Syoya (庶野村後方ノ原野)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 19th 15h 40.5m	5° 37′ 1″	Imamura	Imamura
,, ,, 16 38.2	,, 35 38	,,	,,
,, ,, 17 21.1	,, 35 30	,,	,,
,, ,, 18 44.1	,, 35 41	,,	,,
,, ,, 20 2.8	,, 35 56	,,	,,
,, ,, 20 50.1	,, 35 36	,,	,,
,, ,, 21 51.2	,, 35 13	,,	,,
,, ,, 22 44.2	,, 35 10	,,	,,
,, 20th 5 34.1	,, 34 14	,,	,,
,, ,, 6 47.4	,, 31 30	Nakamura	Nakamura
,, ,, 8 14.2	,, 30 48	,,	,,
,, ,, 9 6.2	,, 31 18	Imamura	Imamura
,, ,, 11 28.2	,, 39 36	Nakamura	Nakamura
,, ,, 12 10.7	,, 39 36	Imamura	Imamura
,, ,, 13 11.9	,, 39 25	,,	,,
Mean	5° 35′ 22″		

$\delta = 5°\ 35'.37$

Reduction to 1895.0 = 0.81

,, ,, sea level = 0.00

$\delta = 5°\ 36'.2$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 19th 19h 26m	2	55° 37′.2	Imamura	Imamura
,, 20th 12 10	2	,, 39.3	Nakamura	,,
,, ,, 15 6	2	,, 42.1	Imamura	Nakamura
Mean		55° 39′.5		

$\theta = 55°\ 39'.5$

Reduction to 1895.0 = −0.40

,, ,, sea level = 0.00

$\theta = 55°\ 39'.1$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 20th 11h 2m	*0.27153	440.20	26°.5 C	6.0368	25°.2 C	(6°58′38″.8	15°56′15″.6	26°.5 C	Nakamura, Imamura	Imamura, Nakamura
,, 21st 12 6	0.27116	438.84	28.5	6.0889	26.7	6 57 53.1	15 55 28.1	30.4	Nakamura	Imamura
,, ,, 15 53	0.27144	439.65	28.5	6.0857	29.0	6 58 48.1	15 57 18.1	28.0	Imamura	Nakamura
,, ,, 16 48	0.27142	439.55	28.6	6.0882	29.8	6 58 57.5	15 57 38.1	27.3	,, Nakamura	,,
Mean	0.27139									

$H = 0.27139$

Reduction to 1895.0 = −.051

,, ,, sea level = .000

$H = 0.27138$

150. MOYORO.

Interior of Zinsya (神社境内)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Aug. 24th 16h 52.1m	5° 20′ 25″	Nakamura	Imamura
,, ,, 18 12.7	,, 17 39	Imamura	Nakamura
,, ,, 18 26.8	,, 17 36	,,	Imamura
,, ,, 19 18.1	,, 16 21	Nakamura	Nakamura
,, ,, 22 12.5	,, 17 29	Imamura	,,
,, ,, 23 10.7	,, 17 31	Nakamura	Imamura
,, ,, 23 57.5	,, 16 27	Imamura	,,
,, 25th 6 7.1	,, 15 29	,,	,,
,, ,, 7 14.9	,, 14 44	Nakamura	Nakamura
,, ,, 7 40.9	,, 15 22	,,	,,
,, ,, 8 59.4	,, 16 56	,,	,,
,, ,, 12 22.4	,, 20 49	Imamura	,,
,, ,, 13 38.0	,, 21 22	Nakamura	Imamura
,, ,, 15 18.1	,, 20 47	Imamura	,,
,, ,, 16 27.4	,, 19 7	,,	Nakamura
,, ,, 17 29.4	,, 16 34	Nakamura	,,
,, ,, 18 29.5	,, 15 56	,,	Imamura
Mean	5° 17′ 46″		

$\delta = 5°\ 17'.77$

Reduction to 1895.0 = 0.80

,, ,, sea level = 0.00

$\delta = 5°\ 18'.6$

DIP (θ)

Observations of the South Party, 18 '4.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 24th 19h 52m	2	55° 52′.4	Nakamura	Nakamura
,, 25th 9 42	—	,, 53.0	,,	,,
,, ,, 14 34	2	,, 55.9	Imamura	Imamura
Mean		55° 53′.8		

$\theta = 55°\ 53'.8$

Reduction to 1895.0 = −0.42

,, ,, sea level = 0.00

$\theta = 55°\ 53'.4$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 24th 17h 43m	0.27110	443.07	18°.4 C	s 6.0643	18°.4 C	7° 2′26″.3	16° 5′23″.1	18°.3 C	Nakamura	Imamura
,, 25th 11 5	0.27116	442.55	19.0	6.0677	19.2	7 2 11.2	16 5 15.6	18.8	Imamura	Nakamura
,, ,, 15 59	0.27120	442.52	17.5	6.0365	17.7	7 1 54.4	16 4 25.0	17.3	Nakamura	Imamura
,, ,, 17 8	0.27102	442.66	17.6	6.0676	17.6	7 2 18.8	16 5 21.2	17.6	Imamura	Nakamura
Mean	0.27112									

$H = 0.27112$

Reduction to 1895.0 = −.049

,, ,, sea level = .000

$H = 0.27112$

151. TYŪRUI.

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 27th 20h 4.2m	5° 20′ 1″	Imamura	Imamura
,, ,, 20 18.3	,, 20 10	,,	,,
,, ,, 23 48.5	,, 21 15	Nakamura	,,
,, 28th 5 10.4	,, 19 18	,,	Nakamura
,, ,, 5 30.8	,, 19 1	,,	,,
,, ,, 6 52.8	,, 17 5	Imamura	Imamura
,, ,, 7 47.2	,, 17 7	,,	,,
,, ,, 8 45.7	,, 19 24	Nakamura	Nakamura
,, ,, 10 6.5	,, 21 26	,,	,,
,, ,, 11 0.1	,, 23 38	Imamura	,,
,, ,, 12 13.0	,, 24 18	,,	Imamura
,, ,, 13 7.0	,, 24 38	,,	,,
,, ,, 13 58.7	,, 23 12	Nakamura	,,
,, ,, 15 0.3	,, 22 18	,,	,,
,, ,, 15 58.9	,, 20 37	Imamura	,,
,, ,, 16 50.9	,, 20 40	,,	,,
,, ,, 17 54.4	,, 20 29	Nakamura	Nakamura
Mean	5° 20′ 52″		

δ = 5° 20′87
Reduction to 1895.0 = 0.80
,, ,, sea level = 0.00
δ = 5° 21′7

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 27th 22h 29m	2	56° 10′7	Imamura	Nakamura
,, 28th 10 40	2	,, 16.4	Nakamura	Imamura
,, ,, 13 37	2	,, 13.5	Imamura	Nakamura
,, ,, 18 30	2	,, 12.0	Nakamura	Imamura
Mean		56° 13′2		

θ = 56° 13′2
Reduction to 1895.0 = −0.45
,, ,, sea level = 0.00
θ = 56° 12′7

HORIZONTAL INTENSITY (*H*)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 28th 9h 49m	0.26935	439.56	28°8C	6.1056	27°6C	7° 1′14″4	16° 2′46″2	30°0C	Imamura	Nakamura
,, ,, 11 52	0.26970	438.62	30.4	6.1121	30.8	6 59 58.8	15 59 18.1	30.0	Nakamura	Imamura
,, ,, 14 44	0.26980	438.93	28.3	6.1093	28.9	7 0 36.2	16 1 20.6	27.7	Imamura	Nakamura
,, ,, 16 27	*0.26954	439.90	25.8	6..037	25.8	(7 2 4.4	16 4 36.3	30.2)	Nakamura	Imamura
Mean	0.23900									

H = 0.23960
Reduction to 1895.0 = −054
,, ,, sea level = 000
H = 0.26959

152. MEMURO.

Obihiro road, West of River Memuro (芽室河ノ西方帯廣街道)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 30th 15h 18.6m	5° 48′ 51″	Nakamura	Nakamura
,, ,, 16 18.7	,, 48 24	,,	,,
,, ,, 17 13.7	,, 47 45	,,	Imamura
,, ,, 19 0.2	,, 45 55	,,	,,
,, ,, 21 4.1	,, 47 34	Imamura	Nakamura
,, ,, 21 48.0	,, 47 36	,,	Imamura
,, ,, 23 13.8	,, 47 44	,,	Nakamura
,, 31st 2 57.7	,, 46 2	Nakamura	,,
,, ,, 5 54.1	,, 44 54	Imamura	Imamura
,, ,, 7 4.3	,, 43 31	,,	,,
,, ,, 8 1.4	,, 43 52	Nakamura	Nakamura
,, ,, 10 16.1	,, 47 14	Imamura	Imamura
,, ,, 11 28.8	,, 50 50	,,	Nakamura
,, ,, 12 16.5	,, 51 57	Nakamura	,,
,, ,, 13 3.3	,, 52 8	,,	,,
,, ,, 13 33.2	,, 51 30	Imamura	Imamura
,, ,, 14 37.3	,, 50 27	Nakamura	Nakamura
Mean	5° 47′ 15″		

$\delta = 5°\ 47'.25$

Reduction to 1895.0 = 0.85

,, ,, sea level = −0.01

$\delta = 5°\ 48'.1$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 30th 22h 48m	2	56° 34′.1	Nakamura	Nakamura
,, 31st 6 40	2	,, 35.3	Imamura	Imamura
,, ,, 9 41	2	,, 35.4	Nakamura	Nakamura
,, ,, 12 45	2	,, 32.1	Imamura	,,
Mean		56° 34′.2		

$\theta = 56°\ 34'.2$

Reduction to 1895.0 = −0.57

,, ,, sea level = 0.01

$\theta = 56°\ 33'.6$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 30th 20h 8m	0.26811	441.48	19°.7 C	6.1160	20°.0 C	7° 6′ 0″.0	16° 14′ 9″.4	19°.5 C	Nakamura	Imamura
,, 31st 7 42	0.26802	442.70	19.1	6.1027	19.4	7 7 6.9	16 16 25.6	18.8	Imamura	Nakamura
,, ,, 9 41	*0.26781	440.50	23.8	6.1193	23.8	(7 10 3.1)	16 22 32.5	24.1)	Nakamura	Imamura
,, ,, 14 8	*0.26836	440.10	24.8	6.1161	24.8	(7 4 17.5)	16 11 22.5	24.1)	Imamura	Nakamura
Mean	0.26808									

$H = 0.26808$

Reduction to 1895.0 = −.027

,, ,, sea level = .115

$H = 0.26809$

153. OTASOI.

Penke Otasoi

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 3rd 14h 13.2m	6° 8′ 31″	Nakamura	Nakamura
,, ,, 14 39.6	,, 8 20	Imamura	Imamura
,, ,, 15 53.8	,, 6 43	,,	,,
,, ,, 16 55.0	,, 5 36	,,	,,
,, ,, 17 48.5	,, 4 41	Nakamura	Nakamura
,, ,, 19 11.5	,, 5 25	,,	,,
,, ,, 20 30.4	,, 4 36	Imamura	,,
,, ,, 22 0.7	,, 4 26	,,	Imamura
,, ,, 23 25.9	,, 4 27	,,	,,
,, 4th 2 37.4	,, 3 43	Nakamura	Nakamura
,, ,, 5 53.9	,, 1 13	Imamura	Imamura
,, ,, 6 59.7	,, 0 15	Nakamura	Nakamura
,, ,, 7 45.5	,, 0 22	Imamura	Imamura
,, ,, 9 41.1	,, 3 15	Nakamura	Nakamura
,, ,, 10 48.9	,, 5 52	Imamura	Imamura
,, ,, 11 36.9	,, 7 12	,,	,,
,, ,, 12 42.3	,, 8 14	Nakamura	Nakamura
Mean	6° 4′ 30″		

$\delta = 6°\ 4'.50$

Reduction to 1895.0 = 0.86

,, ,, sea level = −0.03

$\delta = 6°\ 5'.3$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 3rd 16h 53m	2	56° 39′.8	Nakamura	Imamura
,, ,, 21 16	2	,, 42.1	Imamura	Nakamura
,, 4th 6 38	2	,, 41.7	,,	,,
Mean		56° 41′.2		

$\theta = 56°\ 41'.2$

Reduction to 1895.0 = −0.59

,, ,, sea level = 0.04

$\theta = 56°\ 40'.6$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections. φ_1	Mean Deflections. φ_2	Temp. t_D	Observer	Recorder
				s		′ ″	′ ″			
Sept. 3rd 18h 43m	0.26772	441.62	19°.7C	6.1135	20°.0C	7° 6′35″.6	16°51′17″.5	19°.4C	Imamura	Nakamura
,, ,, 22 55	0.26785	442.83	18.1	6.1034	18.4	7 7 20.0	16 16 35.6	17.8	Nakamura	Imamura
,, 4th 8 26	*0.26741	442.60	17.6	6.1091	17.6	—	—	—	Imamura	Nakamura
,, ,, 11 16	0.26753	441.24	22.5	6.1172	22.3	7 6 16.9	16 14 33.8	22.6	Nakamura	Imamura
,, ,, 12 25	0.26765	440.54	24.8	6.1211	24.8	7 5 20.6	16 12 18.8	24.9	Imamura	Nakamura
Mean	0.26763									

$H = 0.26763$

Reduction to 1895.0 = −013

,, ,, sea level = 392

$H = 0.26767$

154. SYORUSAM.

West bank of River Tokati (十勝川ノ西岸ナル畑中)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 7th 19h 0.5m	5° 26′ 11″	Nakamura	Imamura
,, ,, 20 28.2	,, 25 52	Imamura	Nakamura
,, ,, 22 8.4	,, 25 13	Nakamura	,,
,, 8th 1 34.3	,, 24 11	Imamura	Imamura
,, ,, 3 48.0	,, 24 51	Nakamura	Nakamura
,, ,, 4 52.0	,, 25 1	,,	,,
,, ,, 6 1.4	,, 24 11	,,	,,
,, ,, 6 4.22	,, 23 33	,,	,,
,, ,, 7 46.6	,, 22 49	,,	,,
,, ,, 8 52.2	,, 23 57	,,	,,
,, ,, 9 51.2	,, 26 23	Imamura	Imamura
,, ,, 11 18.3	,, 30 34	,,	,,
,, ,, 12 13.3	,, 31 4	Nakamura	,,
,, ,, 13 22.3	,, 30 42	,,	Nakamura
,, ,, 14 36.8	,, 28 49	Imamura	Imamura
,, ,, 15 47.4	,, 25 53	,,	,,
,, ,, 16 30.1	,, 25 4	,,	,,
,, ,, 18 31.5	,, 25 36	,,	,,
Mean	5° 26′ 4″		

$\delta = 5°\ 26'.07$

Reduction to 1895.0 = 0.78

,, ,, sea level = −0.01

$\delta = 5°\ 26'.8$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 8th 8h 8m	2	56° 27′.0	Nakamura	Nakamura
,, ,, 10 55	2	,, 29.0	Imamura	Imamura
,, ,, 15 7	2	,, 27.7	Nakamura	Nakamura
Mean		56° 27′.9		

$\theta = 56°\ 27'.9$

Reduction to 1895.0 = −0.50

,, ,, sea level = 0.01

$\theta = 56°\ 27'.4$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the South Party, 1894..

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 7th 21h 40m	0.26751	442.00	19°1C	s 6.1129	19°3C	7° 7′ 27″.5	16° 17′ 38″.1	18°.9C	Imamura	Nakamura
,, 8th 9 29	0.26703	441.53	20.4	6.1213	20.4	7 7 20.0	16 15 45.0	20.3	Nakamura	Imamura
,, ,, 13 3	0.26758	438.64	29.7	6.1363	30.1	7 3 32.5	16 7 56.9	29.3	Imamura	Nakamura
,, ,, 17 14	*0.26737	440.00	23.5	6.1239	23.5	(7 5 6.9	16 12 47.5	21.0)	,,	,,
Mean	0.26737									

$H = 0.26737$

Reduction to 1895.0 = −039

,, ,, sea level = 072

$H = 0.26737$

155. ASYORO.

(足 寄 村)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 11th 19h 54.4m	5° 41′ 42″	Nakamura	Nakamura
„ „ 21 0.8	„ 41 57	Imamura	„
„ „ 23 5.2	„ 41 52	„	„
„ 12th 0 7.3	„ 41 2	Nakamura	Imamura
„ „ 2 7.6	„ 39 41	„	Nakamura
„ „ 5 32.6	„ 38 12	„	„
„ „ 7 3.2	„ 38 44	„	„
„ „ 7 55.3	„ 39 29	„	„
„ „ 10 5.1	„ 41 19	Imamura	Imamura
„ „ 11 10.7	„ 44 7	„	„
„ „ 12 27.8	„ 45 8	„	„
„ „ 14 19.1	„ 44 7	Nakamura	Nakamura
„ „ 15 14.5	„ 42 29	„	„
„ „ 16 23.8	„ 41 51	Imamura	Imamura
„ „ 17 17.3	„ 41 44	„	Nakamura
„ „ 18 19.3	„ 41 27	Nakamura	„
Mean	5° 41′ 16″		

$\delta = 5°\ 41'.27$

Reduction to 1895.0 = 0.72

„ „ sea level = −0.02

$\delta = 5°\ 42'.0$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 12th 8h 39m	2	56° 42′.3	Nakamura	Nakamura
„ „ 11 55	2	„ 41.8	Imamura	Imamura
„ „ 18 52	2	„ 42.5	Nakamura	Nakamura
„ 13th 12 26	2	„ 44.2	Imamura	Imamura
Mean		56° 42′.7		

$\theta = 56°\ 42'.7$

Reduction to 1895.0 = −.0.46

„ „ sea level = 0.03

$\theta = 56°\ 42'.3$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 11th 22h 4m	0.26634	441.36	21°.3 C	s 6.1308	21°.5 C	7° 8′15″.0	16°18′50″.0	21°.2 C	Nakamura	Imamura
„ 12th 13 54	0.26639	441.45	20.7	6.1293	20.8	7 8 21.9	16 19 18.8	20.6	Imamura	Nakamura
„ „ 16 49	0.26626	441.82	18.8	6.1280	18.8	7 9 5.0	16 21 11.3	18.8	Nakamura	Imamura
„ 13th 11h 33	0.26606	441.58	19.9	6.1333	20.4	7 9 7.5	16 20 55.0	19.4	Imamura	Nakamura
Mean	0.26626									

$H = 0.26626$

Reduction to 1895.0 = −076

„ „ sea level = ·290

$H = 0.26628$

156. OTU.

Common School (小學校構內)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 18th 12h 6.6m	5° 1′ 57″	Nakamura	Nakamura
,, ,, 12 42.9	,, 2 4	Imamura	Imamura
,, ,, 13 59.6	,, 1 52	Nakamura	Nakamura
,, ,, 14 52.6	,, 0 56	,,	,,
,, ,, 16 3.6	4 59 7	Imamura	Imamura
,, ,, 17 5.7	,, 58 51	Nakamura	Nakamura
,, ,, 17 58.3	,, 58 2	Imamura	Imamura
,, ,, 19 25.2	,, 58 51	,,	Nakamura
,, ,, 21 10.5	,, 57 56	,,	Imamura
,, ,, 22 19.2	,, 58 5	,,	Nakamura
,, ,, 23 51.8	,, 57 23	Nakamura	Imamura
,, 19th 2 9.6	,, 56 24	,,	Nakamura
,, ,, 5 52.4	,, 57 2	,,	,,
,, ,, 6 5.8	,, 57 9	,,	,,
,, ,, 6 58.7	,, 57 16	,,	,,
,, ,, 8 4.4	,, 56 54	Imamura	Imamura
,, ,, 8 34.7	,, 56 23	,,	,,
,, ,, 9 56.0	,, 58 2	,,	,,
,, ,, 11 16.8	5 1 22	,,	,,
,, ,, 12 11.3	,, 2 35	Nakamura	,,
Mean	4° 58′ 18″		

$\delta = 4°\ 58'.30$

Reduction to 1895.0 = 0.67

,, ,, sea level = 0.00

$\delta = 4°\ 59'.0$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 18th 14h 53m	2	56° 14′.8	Imamura	Imamura
,, ,, 17 31	2	,, 17.9	Nakamura	Nakamura
,, ,, 21 55	2	,, 19.1	Imamura	Imamura
,, 19th 6 33	—	,, 16.5	Nakamura	Nakamura
Mean		56° 17′.1		

$\theta = 56°\ 17'.1$

Reduction to 1895.0 = −0.37

,, ,, sea level = 0.00

$\theta = 56°\ 16'.7$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Sept. 18th 13h 39m	0.27023	441.23	20°.2C	6.0877	20°.6C	7° 2′ 2″.5	16° 4′22″.5	19°.9C	Imamura	Nakamura
,, ,, 18 49	0.27049	442.15	16.7	6.0767	16.5	7 2 33.1	16 5 46.3	16.9	Nakamura	Imamura
,, ,, 23 28	0.27068	441.86	15.9	6.0780	17.2	7 2 17.5	16 5 21.2	16.5	Imamura	Nakamura
,, 19th 9 27	0.27040	440.99	20.6	6.0851	20.0	7 1 20.6	16 2 56.3	21.2	Nakamura	Imamura
Mean	0.27045									

$H = 0.27045$

Reduction to 1895.0 = −052

,, ,, sea level = 000

$H = 0.27044$

157. SIRANUKA.

Village Coffice. (白糠村戸長役場)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 21st 12h 19.0m	5° 8′ 49″	Nakamura	Nakamura
,, ,, 13 14.8	,, 9 16	Imamura	Imamura
,, ,, 14 18.3	,, 9 15	Nakamura	,,
,, ,, 15 18.4	,, 7 59	Imamura	,,
,, ,, 16 28.5	,, 6 47	,,	,,
,, ,, 17 30.7	,, 3 55	Nakamura	Nakamura
,, ,, 17 39.4	,, 4 4	,,	,,
,, ,, 18 30.2	,, 3 23	,,	,,
,, ,, 19 28.9	,, 1 41	Imamura	Imamura
,, ,, 21 3.4	,, 3 6	,,	,,
,, ,, 21 36.1	,, 3 51	Nakamura	Nakamura
,, 22nd 2 35.0	,, 2 49	Imamura	Imamura
,, ,, 6 40.2	,, 1 18	,,	,,
,, ,, 7 2.9	,, 1 41	,,	,,
,, ,, 8 39.3	,, 1 34	Nakamura	Nakamura
,, ,, 9 44.6	,, 2 23	Imamura	Imamura
,, ,, 10 43.3	,, 4 29	Nakamura	Nakamura
,, ,, 11 45.4	,, 6 31	Imamura	Imamura
Mean	5° 4′ 4″		

$\delta = 5°\ 4'.07$

Reduction to 1895.0 = 0.61

,, ,, sea level = 0.00

$\delta = 5°\ 4'.7$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 21st 14h 56m	2	56° 36′.9	Nakamura	Nakamura
,, ,, 18 10	2	,, 39.6	Imamura	,,
,, ,, 20 40	2	,, 42.6	Nakamura	,,
,, 22nd 10 21	2	,, 41.9	Imamura	,,
Mean		56° 40′.3		

$\theta = 56°\ 40'.3$

Reduction to 1895.0 = −0.31

,, ,, sea level = 0.00

$\theta = 56°\ 40'.0$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 21st 13h 56m	0.26661	439.84	23°5 C	6.1420	25°2 C	7° 6′53″.1	16°15′45″.6	21°7 C	Nakamura	Imamura
,, ,, 17 10	0.26670	442.48	15.7	6.1185	15.9	7 8 56.2	16 20 28.8	15.6	Imamura	Nakamura
,, ,, 22 11	0.26654	444.04	12.5	6.1089	12.6	7 10 8.8	16 22 20.0	12.4	Nakamura	Imamura
,, 22nd 8 23	0.26702	442.97	15.0	6.1112	16.2	7 8 57.5	16 20 41.9	15.9	Imamura	Nakamura
,, ,, ,, ,,	0.26670	441.02	21.3	6.1271	20.7	7 7 8.8	16 16 21.9	21.9	Nakamura	Imamura
Mean	0.26671									

$H = 0.26671$

Reduction to 1895.0 = −.095

,, ,, sea level = .000

$H = 0.26670$

158. SIBETYA.

Sibetya Secondary Meteorological Observatory

(標茶二等測候所構內)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 24th 13h 4.9m	5° 45′ 39″	Imamura	Imamura
,, ,, 14 12.9	,, 44 56	,,	,,
,, ,, 15 16.0	,, 44 7	,,	,,
,, ,, 16 26.6	,, 42 44	,,	,,
,, ,, 17 26.9	,, 42 10	Nakamura	Nakamura
,, ,, 19 8.5	,, 41 18	,,	,,
,, ,, 21 44.2	,, 42 5	,,	,,
,, ,, 22 42.5	,, 41 55	Imamura	Imamura
,, 25th 0 4.4	,, 41 15	Nakamura	Nakamura
,, ,, 6 17.2	,, 41 3	Imamura	Imamura
,, ,, 6 54.8	,, 40 33	,,	,,
,, ,, 8 1.3	,, 40 33	Nakamura	Nakamura
,, ,, 9 16.9	,, 41 45	Imamura	Imamura
,, ,, 10 13.9	,, 42 37	,,	,,
,, ,, 11 0.6	,, 43 25	,,	,,
,, ,, 12 31.6	,, 43 53	Nakamura	Nakamura
,, ,, 13 58.9	,, 43 7	,,	,,
,, ,, 15 35.6	,, 42 26	Imamura	Imamura
,, ,, 16 28.1	,, 42 3	,,	,,
Mean	5° 42′ 4″		

$\delta = 5°\ 42'.07$

Reduction to 1895.0 = 0.55

,, ,, sea level = −0.01

$\delta = 5°\ 42'.6$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 24th 16h 26m	2	56° 38′.4	Nakamura	Nakamura
,, ,, 20 49	2	,, 42.2	Imamura	Imamura
,, 25th 7 40	2	,, 43.4	,,	,,
,, ,, 10 42	2	,, 37.9	Nakamura	Nakamura
,, ,, 16 8	2	,, 36.3	Imamura	Imamura
Mean		56° 39′.1		

$\theta = 56°\ 39'.1$

Reduction to 1895.0 = −0.27

,, ,, sea level = 0.01

$\theta = 56°\ 38'.8$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Sept. 24th 14h 51m	0.26198	440.17	21°.7 C	6.1551	22°.0 C	7° 9′39″.4	16°.2 2′38″.1	21°.4C	Nakamura	Imamura
,, ,, 23 43	0.26485	443.77	11.2	6.1304	11.3	7 13 29.4	16 31 26.2	11.1	Imamura	Nakamura
,, 25th 9 50	0.26477	440.91	20.6	6.1512	20.5	7 10 24.4	16 24 5.0	20.7	Nakamura	Imamura
,, ,, 15 0	0.26475	439.51	25.0	6.1630	25.3	7 9 0.0	16 20 31.9	24.7	Imamura	Nakamura
Mean	0.26484									

$H = 0.26484$

Reduction to 1895.0 = −129

,, ,, sea level = 072

$H = 0.26483$

159. ATUSANUPURI.

Yard of Yasuda Company. (安田硫黄山事務處前庭)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 26th 18h 16.4m	5° 16′ 59″	Imamura	Nakamura
,, ,, 19 6.8	,, 17 31	,,	Imamura
,, ,, 20 32.5	,, 17 39	Nakamura	,,
,, ,, 21 41.6	,, 17 32	,,	Nakamura
,, 27th 6 7.6	,, 15 6	,,	Imamura
,, ,, 7 19.1	,, 15 29	Imamura	Nakamura
,, ,, 8 30.5	,, 15 16	,,	,,
,, ,, 9 42.8	,, 15 58	Nakamura	,,
,, ,, 10 55.3	,, 16 50	,,	,,
,, ,, 12 2.9	,, 17 44	Imamura	Imamura
,, ,, 13 8.5	,, 17 42	Nakamura	Nakamura
,, ,, 14 26.8	,, 17 35	Imamura	Imamura
,, ,, 15 51.0	,, 17 2	,,	,,
,, ,, 16 35.7	,, 16 44	,,	Nakamura
,, ,, 17 47.4	,, 16 35	Nakamura	,,
Mean	5° 16′ 35″		

δ = 5° 16′58
Reduction to 1895.0 = 0.59
,, ,, sea level = −0.06
δ = 5° 17′1

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 26th 20h 5m	2	56° 47′4	Imamura	Nakamura
,, 27th 7 51	2	,, 48.8	Nakamura	Imamura
,, ,, 11 41	2	,, 46.6	Imamura	Nakamura
,, ,, 17 32	2	,, 47.8	Nakamura	,,
Mean		56° 47′7		

θ = 56° 47′7
Reduction to 1895.0 = −0.34
,, ,, sea level = 0.08
θ = 56° 47′4

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 26th 21h 31m	0.26576	441.48	19°0C	6.1365	19°3C	7° 9′30″6	16°22′ 0″0	18°7C	Imamura	Nakamura
,, 27th 6 40	0.26557	442.25	16.9	6.1323	16.8	7 10 16.9	16 23 24.4	17.0	Nakamura	Imamura
,, ,, 6 51	0.26565	442.02	17.1	6 1323	16.8	7 10 1.9	16 23 10.6	17.5	,,	,,
,, ,, 10 18	0.26545	439.70	24.1	6.1519	24.0	7 7 59.4	16 18 23.1	24.2	Imamura	Nakamura
,, ,, 10 27	0.26546	439.73	24.0	6.1519	24.0	7 8 1.9	16 18 26.9	24.0	,,	,,
,, ,, 15 26	0.26561	440.93	19.9	6.1437	20.8	7 9 23.8	16 21 38.1	19.0	Nakamura	Imamura
,, ,, 16 59	0.26571	442.19	16.5	6.1319	16.8	7 10 18.8	16 23 48.1	16.2	,,	,,
Mean	0.26560									

H = 0.26560
Reduction to 1895.0 = −105
,, ,, sea level = 667
H = 0.26566

160. SINRYŪ.

Sinryū School (眞龍學校)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 30th 12h 14.8m	5° 36′ 51″	Imamura	Nakamura
,, ,, 12 58.6	,, 37 42	,,	,,
,, ,, 14 0.5	,, 37 24	Nakamura	,,
,, ,, 15 28.0	,, 35 10	Imamura	Imamura
,, ,, 16 42.6	,, 34 9	,,	,,
,, ,, 17 23.8	,, 33 55	,,	,,
,, ,, 18 15.3	,, 34 53	Nakamura	Nakamura
,, ,, 19 25.1	,, 34 30	Imamura	Imamura
,, ,, 20 44.8	,, 35 14	,,	,,
,, ,, 22 15.9	,, 33 57	,,	,,
Oct. 1st 4 57.8	,, 33 27	,,	,,
,, ,, 6 30.2	,, 32 26	,,	,,
,, ,, 7 46.4	,, 31 5	,,	,,
,, ,, 8 15.2	,, 30 58	Nakamura	Nakamura
,, ,, 9 18.9	,, 31 31	Imamura	Imamura
,, ,, 10 5.1	,, 33 20	Nakamura	Nakamura
,, ,, 11 54.4	,, 37 14	,,	,,
Mean	5° 34′ 6″		

$\delta = 5°\ 34'.10$

Reduction to 1895.0 = 0.47

,, ,, sea level = 0.00

$\delta = 5°\ 34'.6$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 30th 16h 17m	2	57° 15′.8	Nakamura	Nakamura
,, ,, 21 41	2	,, 20.1	Imamura	Imamura
Oct. 1st 9 47	2	,, 20.2	,,	,,
Mean		57° 18′.7		

$\theta = 57°\ 18'.7$

Reduction to 1895.0 = −1.53

,, ,, sea level = 0.00

$\theta = 57°\ 17'.2$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Sept. 30th 15h 0m	0.26656	439.29	24°.9 C	6.1457	26°.4 C	7° 6′ 30″.6	16° 15′ 10″.6	23°.4 C	Nakamura	Imamura
,, ,, 17 54	0.26568	441.34	16.7	6.1375	16.8	7 9 24.4	16 21 36.9	16.7	Imamura	Nakamura
Oct. 1st 7 25	0.26592	443.23	11.9	6.1203	11.4	7 11 1.3	16 25 42.5	12.3	Nakamura	Imamura
,, ,, 11 35	0.26579	441.79	17.0	6.1325	16.8	7 9 35.6	16 22 0.6	17.2	Imamura	Nakamura
,, ,, 12 32	0.26602	441.36	17.7	6.1340	17.9	7 9 11.3	16 21 34.3	17.5	Nakamura	Imamura
Mean	0.26599									

$H = 0.26599$

Reduction to 1895.0 = −145

,, ,, sea level = 000

$H = 0.26598$

161. NEMURO.

Old Site of Kentyō (根室縣廳跡)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 6th 14h 58.5m	4° 8′ 46″	Imamura	Nakamura
,, ,, 15 31.9	,, 7′ 50	,,	Imamura
,, ,, 16 53.8	,, 5′ 48	Nakamura	,,
,, ,, 18 19.9	,, 5 25	,,	,,
,, ,, 20 34.1	,, 4 56	,,	,,
,, ,, 21 54.2	,, 5 16	,,	Nakamura
,, ,, 23 4.4	,, 5 26	,,	,,
,, 7th 3 10.9	,, 4 22	,,	,,
,, ,, 4 49.8	,, 2 17	,,	,,
,, ,, 6 32.2	,, 2 31	,,	,,
,, ,, 7 24.5	,, 2 58	,,	,,
,, ,, 8 18.0	,, 1 45	Imamura	Imamura
,, ,, 9 22.0	,, 0 7	Nakamura	Nakamura
,, ,, 10 21.0	,, 1 45	Imamura	Imamura
,, ,, 11 10.6	,, 3 55	,,	,,
,, ,, 11 46.1	,, 4 48	,,	,,
,, ,, 12 51.8	,, 7 1	Nakamura	,,
,, ,, 13 46.9	,, 8 20	Imamura	Nakamura
,, ,, 14 56.3	,, 7 20	Nakamura	Imamura
Mean	4° 4′ 29″		

δ = 4° 4′48
Reduction to 1895.0 = 0.42
,, ,, sea level = 0.00
δ = 4° 4′9

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Oct. 6th 16h 22m	2	57° 31′3	Imamura	Imamura
,, ,, 19 37	2	,, 30.0	,,	,,
,, ,, 22 27	—	,, 28.9	Nakamura	Nakamura
,, 7th 7 57	2	,, 29.3	,,	,,
Mean		57° 29′9		

θ = 57° 29′9
Reduction to 1895.0 = −0.12
,, ,, sea level = 0.00
θ = 57° 29′8

HORIZONTAL INTENSITY (*H*)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Oct. 6th 18h 1m	0.25604	443.99	10°2C	6.2325	9°9C	7°28′30″0	17° 6′29″4	10°5C	Imamura	Nakamura
,, ,, 21 27	0.25616	443.71	10.9	6.2336	10.9	7 28 19.4	17 6 5.6	11.0	Nakamura	Imamura
,, 7th 9 2	0.25587	442.11	15.1	6.2468	14.3	7 26 35.0	17 2 1.9	16.0	Imamura	Nakamura
,, ,, 10 53	0.25544	441.19	18.4	6.2611	18.5	7 26 30.0	17 1 31.9	18.3	Nakamura	Imamura
,, ,, 12 8	0.25565	440.15	20.5	6.2663	20.7	7 25 12.5	16 58 46.3	20.4	,,	,,
,, ,, 14 27	0.25602	439.82	21.8	6.2656	22.6	7 24 22.5	16 56 46.3	21.0	Imamura	Nakamura
Mean	0.25586									

H = 0.25586
Reduction to 1895.0 = −158
,, ,, sea level = 000
H = 0.25584

162. SENDAI.

Magnetic observatory. (第二高等學校磁力計室内ノ西北隅)

DECLINATION (δ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)			δ			Observer	Recorder
June	29th	9h 23.7m	5°	7′	17″	Nakamura	Imamura
,,	,,	9 55.9	,,	8	11	Imamura	Nakamura
,,	,,	11 17.1	,,	9	4	Nakamura	Imamura
,,	,,	12 24.0	,,	10	50	,,	,,
,,	,,	13 38.6	,,	11	12	,,	,,
,,	,,	14 53.2	,,	9	33	Imamura	Nakamura
,,	,,	15 47.4	,,	8	26	Nakamura	Imamura
,,	,,	16 46.1	,,	7	6	Imamura	Nakamura
,,	,,	17 49.2	,,	6	33	Nakamura	Imamura
,,	,,	19 13.7	,,	6	17	,,	,,
,,	,,	20 11.5	,,	7	15	Imamura	Nakamura
,,	,,	21 25.4	,,	7	54	Nakamura	Imamura
,,	30th	0 34.6	,,	6	10	,,	,,
,,	,,	5 23.8	,,	3	49	,,	Nakamura
,,	,,	6 28.2	,,	1	35	,,	,,
,,	,,	7 38.7	,,	1	34	Imamura	Imamura
,,		8 29.8	,,	3	39	,,	Nakamura
,,	,,	9 20.2	,,	5	42	,,	,,
,,	,,	10 20.3	,,	7	34	Nakamura	Imamura
,,	,,	11 28.8	,,	8	37	Imamura	Nakamura
,,	,,	12 39.4	,,	9	42	Nakamura	Imamura
,,	,,	13 38.1	,,	10	31	Imamura	Nakamura
,,	,,	15 11.3	,,	9	59	Nakamura	,,
,,	,,	16 26.7	,,	7	58	,,	,,
,,	,,	17 10.8	,,	7	2	,,	Imamura
,,	,,	18 34.5	,,	5	26	,,	,,
Mean			5°	6′	40″		

		δ = 5°	6′.67
Reduction to	1895.0 =		0.74
,,	,, sea level =		0.00
		δ = 5°	7′.4

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)			δ			Observer	Recorder
Oct.	25th	10h 18.7m	5°	2′	23″	Nakamura	Imamura
,,	,,	11 8.4	,,	3	30	,,	Nakamura
,,	,,	12 13.0	,,	5	7	Imamura	Imamura
,,	,,	13 33.9	,,	6	6	,,	,,
,,	,,	14 54.9	,,	5	43	Nakamura	Nakamura
,,	,,	15 32.6	,,	5	4	,,	Imamura
,,	,,	17 10.0	,,	4	47	Imamura	Nakamura
,,	,,	17 53.9	,,	4	59	,,	Imamura
,,	,,	20 43.9	,,	5	25	,,	,,
,,	,,	21 37.4	,,	4	47	,,	,,
,,	26th	2 14.7	,,	4	3	Nakamura	Nakamura
,,	,,	5 31.2	,,	6	54	Imamura	Imamura
,,	,,	5 52.4	,,	4	11	Nakamura	Nakamura
,,	,,	6 48.4	,,	4	10	,,	,,
,,	,,	7 11.1	,,	3	35	,,	,,
,,	,,	7 55.2	,,	2	12	,,	,,

To be Continued

Continued

Date and Hour (Mean Local Time.)				δ			Observer	Recorder
Oct.	26th	8h	4.3m	5°	2′	17″	Nakamura	Nakamura
,,	,,	8	54.8	,,	3	19	Imamura	Imamura
,,	,,	10	8.4	,,	3	59	,,	,,
,,	,,	11	28.6	,,	7	12	Nakamura	Nakamura
,,	,,	12	23.0	,,	7	45	Imamura	Imamura
,,	,,	14	7.1	,,	8	6	,,	,,
,,	,,	15	18.1	,,	7	28	Nakamura	Nakamura
,,	,,	16	9.3	,,	6	4	Imamura	Imamura
,,	,,	17	16.0	,,	6	32	Nakamura	Nakamura
,,	,,	18	21.9	,,	5	57	,,	,,
,,	,,	19	28.6	,,	5	35	Imamura	Imamura
,,	,,	20	34.0	,,	4	57	Nakamura	Nakamura
,,	,,	21	37.5	,,	5	14	Imamura	Imamura
,,	,,	23	2.8	,,	4	55	,,	,,
,,	27th	0	12.0	,,	4	59	Nakamura	Nakamura
,,	,,	5	18.8	,,	5	0	,,	,,
,,	,,	6	25.0	,,	3	55	,,	,,
,,	,,	7	26.0	,,	3	5	,,	,,
,,	,,	8	52.6	,,	2	26	Imamura	Imamura Nakamura
,,	,,	9	45.6	,,	2	29	,,	Imamura
,,	,,	10	43.1	,,	4	9	,,	,,
,,	,,	11	18.6	,,	5	33	,,	,,
,,	,,	12	24.2	,,	6	30	,,	,,
,,	,,	13	31.4	,,	6	7	Nakamura	Nakamura
,,	,,	14	17.4	,,	5	33	,,	,,
,,	,,	15	8.0	,,	5	7	Imamura	Imamura
,,	,,	16	0.9	,,	5	8	,,	,,
,,	,,	17	7.2	,,	5	4	,,	,,
,,	,,	18	15.0	,,	4	48	Nakamura	Nakamura
,,	,,	19	33.8	,,	5	5	Imamura	Imamura
,,	,,	20	46.8	,,	4	38	Nakamura	Nakamura
,,	,,	22	51.8	,,	4	5	Imamura	Imamura
,,	28th	6	9.7	,,	5	59	,,	,,
Mean				5°	5′	4″		

	δ = 5°	5′07
Reduction to	1895.0 =	0.23
,, ,,	sea level =	0.00
	δ = 5°	5′3

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)				δ			Observer	Recorder
June.	26th	8h	44.3m	5°	2′	21″	Tanakadate	Katō
,,	,,	10	37.9	,,	5	54	Katō	Sinzyō
,,	,,	11	51.3	,,	8	35	Sinzyō	Katō
,,	,,	13	40.7	,,	11	5	Tanakadate	,,
,,	,,	15	21.7	,,	8	53	Sinzyō	Tanakadate
,,	,,	16	17.3	,,	8	45	Tanakadate	Katō
,,	,,	17	56.8	,,	6	14	Katō	Sinzyō
,,	,,	19	13.1	,,	6	20	Tanakadate	Katō
,,	,,	21	52.6	,,	7	20	,,	Tanakadate
,,	27th	1	9.0	,,	6	50	,,	,,
,,	,,	4	19.2	,,	5	54	,,	,,
,,	,,	6	5.0	,,	3	45	,,	,,
,,	,,	7	30.1	,,	2	24	,,	Katō
,,	,,	8	30.3	,,	2	50	Sinzyō	,,
				To be continued				

Continued

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
June. 27th 8h 49.8m	5° 2′ 39″	Katō	Sinzyō
,, ,, 10 32.7	,, 5 20	,,	,,
,, ,, 12 40.9	,, 8 46	Sinzyō	Katō
,, ,, 13 46.0	,, 10 2	,,	Tanakadate
,, ,, 14 57.4	,, 10 3	Katō	Katō
,, ,, 15 57.3	,, 9 7	Sinzyō	,,
,, ,, 16 59.4	,, 8 37	Katō	Sinzyō
,, ,, 19 13.4	,, 7 15	Tanakadate	Katō
,, ,, 20 34.1	,, 7 24	Sinzyō	Tanakadate
,, ,, 22 18.4	,, 7 8	,,	Sinzyō
,, 28th 2 20.1	,, 5 55	,,	,,
,, ,, 2 57.1	,, 5 5	,,	,,
,, ,, 5 10.0	,, 3 14	,,	,,
,, ,, 6 11.7	,, 2 42	,,	,,
,, ,, 7 17.8	,, 0 53	,,	Tanakadate
,, ,, 8 14.4	,, 1 36	Katō	,,
,, ,, 10 29.3	,, 5 20	Tanakadate	Sinzyō
,, ,, 13 8.4	,, 10 39	Sinzyō	Katō
,, ,, 14 51.1	,, 10 37	Tanakadate	Tanakadate
,, ,, 18 25.1	,, 6 33	Sinzyō	Katō
Mean	5° 6′ 40″		

$\delta = 5°\ 6'.67$

Reduction to 1895.0 = −0.70

,, ,, sea level = 0.00

$\delta = 5°\ 6'.0$

DIP (θ)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder.
June. 29th 13h 15m	2	51° 52′.1	Nakamura	Imamura
,, ,, 17 17	1	52 0.6	Imamura	Nakamura
,, ,, 23 45	1	51 57.3	Nakamura	Imamura
,, 30th 12 15	2	,, 54.9	Imamura	Nakamura
,, ,, 16 10	2	,, 57.1	Nakamura	Imamura
Mean		51° 56′.4		

$\theta = 51°\ 56'.4$

Reduction to 1895.0 = 0.00

,, ,, sea level = 0.00

$\theta = 51°\ 56'.4$

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Oct. 25th 12h 57m	2	51° 51′.8	Nakamura	Imamura
,, ,, 19 22	—	,, 52.0	,,	Nakamura
,, 26th 11 7	—	,, 59.1	Imamura	,,
,, ,, 22 30	2	52 2.7	,,	Imamura
,, 27th 5 57	2	51 52.7	Nakamura	Nakamura
,, ,, 10 21	—	,, 59.5	Imamura	Imamura
,, ,, 13 57	—	,, 53 3	Nakamura	Nakamura
,, ,, 15 39	2	,, 59.3	Imamura	Imamura
,, ,, 18 41	2	,, 53.9	Nakamura	Nakamura / Imamura
,, ,, 20 0	1	,, 58.8	Imamura	Nakamura
,, 28th 6 58	1	52 4.0	Nakamura	,,
Mean		51° 57′.0		

$\theta = 51°\ 57'.0$

Reduction to 1895.0 = 0.00

,, ,, sea level = 0.00

$\delta = 51°\ 57'.0$

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
June 26th 9h 45m	5614.2	51° 57′.9	Tanakadate	Katō
,, ,, 14 56	5613.2	52 1.5	Katō	Tanakadate
,, 27th 9 55	5614.2	51 50.1	Sinzyō	Katō
,, ,, 16 37	5613.2	52 7.0	Tanakadate	Sinzyō
,, ,, 17 42	5614.2	,, 3.0	Sinzyō	Katō
,, ,, 19 57	5613.2	,, 8.4	Katō	Tanakadate
,, 28th 9 40	5614.2	51 49.5	Tanakadate	Katō
,, ,, 17 10	5613.2	,, 54.7	Sinzyō	,,
,, ,, 17 53	5613.2	,, 55.6	Tanakadate	,,
Mean		51° 58′.6		

	$\theta = 51°\ 58'.6$
Reduction to 1895.0 =	0.00
,, ,, sea level =	0.00
	$\theta = 51°\ 58'.6$

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 9th 8h 22m	13	51° 58′.3	Sinzyō	Tanakadate
,, ,, 9 17	13	,, 57.1	Tanakadate	Sinzyō
,, ,, 10 25	14	,, 55.9	Sinzyō	Tanakadate
,, ,, 11 47	14	,, 57.1	Tanakadate	Sinzyō
Mean		51° 57′.1		

	$\theta = 51°\ 57'.1$
Reduction to 1895.0 =	0.00
,, ,, sea level =	0.00
	$\theta = 51°\ 57'.1$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
June 29th 10h 54m	0.28678	442.26	31°.1C	5.9036 s	31°.7C	6°38′52″.0	15°11′12″.5	30°.5C	Imamura	Nakamura
,, ,, 15 59	0.28692	441.89	29.8	5.9054	30.8	6 39 0.0	15 12 19.4	28.8	Nakamura	Imamura
,, 30th 9 54	0.28643	442.19	30.3	5.9073	30.8	6 39 15.0	15 12 3.8	29.8	,,	,,
,, ,, 18 14	0.28639	442.70	28.3	5.9032	28.3	6 39 34.4	15 12 41.9	28.3	Imamura	Nakamura
Mean	0.28663									

	$H = 0.28663$
Reduction to 1895.0 =	120
,, ,, sea level =	40
	$H = 0.28665$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Oct. 25th 14h 30m	0.28634	439.37	21°.8C	5.9256 s	22°.5C	6°36′36″.2	15° 5′24″.4	21°.2C	Imamura	Nakamura
,, 26th 8 37	0.28618	442.80	12.2	5.9029	12.0	6 36 46.3	15 12 20.0	12.4	Nakamura	Imamura
,, ,, 16 55	0.28593	442.31	14.3	5.9087	14.3	6 39 41.9	15 12 19.4	14.4	Imamura	Nakamura
,, ,, 21 17	0.28603	441.52	15.5	5.9145	16.0	6 39 6.6	15 11 5.6	151.	Nakamura	Imamura
Mean	0.28612									

	$H = 0.28612$
Reduction to 1895.0 =	043
,, ,, sea level =	010
	$H = 0.28613$

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 26th 13h 34m	0.28604	435.84	20°4C	s 5.9023	20°5C	6°34′57″0	14°56′17″5	20°3C	Tanakadate	Katō
„ „ 13 55	0.28587	436.33	18.2	5.9008	18.4	6 35 52.5	14 58 42.5	18.0	Sinzyō / Katō	„ / Sinzyō
„ 27th 8 10	0.28587	437.01	17.6	5.8959	17.6	6 36 15.0	14 59 13.8	17.5	„ / Tanakadate	Tanakadate / Katō
„ „ 12 7	0.28554	436.09	19.3	5.9043	19.2	6 35 32.5	14 57 23.3	19.4	Katō / Sinzyō	Sinzyō / Katō
„ „ 13 23	0.28600	436.20	20.0	5.8997	19.8	6 35 7.5	14 56 31.3	20.2	„ / Tanakadate	Tanakadate / Sinzyō
„ „ 21 44	0.28639	436.72	19.7	5.8932	19.9	6 35 11.3	14 56 40.0	19.5	Katō / Sinzyō	„ / Katō
„ 28th 8 1	0.28617	436.45	20.4	5.8968	20.4	6 35 6.3	14 56 22.5	20.4	Tanakadate / Katō	„ / Tanakadate
„ „ 14 23	0.28602	432.99	29.3	5.9220	29.2	6 32 13.8	14 50 12.5	29,4	„ / Sinzyō	Sinzyō / Katō
Mean	0.26800									

$H = 0.28600$

Reduction to 1895.0 = −114

„ „ sea level = 40

$H = 0.28599$

Observationsof the North Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 9th 7h 38m	*0.28593	430.95	26°7C	s 5.9371	26°7C	—	—	—	Tanakadate	Sinzyō
„ „ 15 21	0.28604	430.41	28.2	6.9403	28.4	6°29′46″3	14°44′12″5	28°1C	Sinzyō / Tanakadate	Tanakadate / Sinzyō
Mean	0.23599									

$H = 0.28599$

Reduction to 1895.0 = −161

„ „ sea level = 40

$H = 0.28598$

Sendai Syuttyō. (仙臺出張)

Observations of the North Party. 1895.

(1) (瑞鳳寺電屋下)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 9th 17h 1m	13	51° 56′7	Sinzyō	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 9th 16h 26m	*0.28559	430.90	26°9C	s 5.9411	26°9C	—	—	—	Tanakadate	Sinzyō

(2) (第二高等學校運動場内北方)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 9th 18h 30m	13	51° 47′5	Sinzyō	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 9th 17h 51m	*0.28495	431.50	25°3C	s 5.9435	25°3C	—	—	—	Tanakadate	Sinzyō

(3) (第二高等學校運動場內東方)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 10th 18h 47m	—	51° 57′.0	Sinzyō	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 10th —	*0.28464	433.10	21°.2C	5.9354 s	21°.2C	—	—	—	Tatibara	Sinzyō

(4) (宮城野練兵場內. 八幡森)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 10th 10h 24m	3	51° 52′.8	Sinzyō	Sinzyō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observar	Recorder
Sept. 10th —	*0.28594	430.90	25°.9C	5.9375 s	26°.9C	—	—	—	Sinzyō	Sinzyō

(5) **Siogama** {鹽釜 (山ノ寺圖)}

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 11th 10h 37m	13	51° 56′.3	Sinzyō	Tatibara

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observar	Recorder
Sept. 11th —	*0.28531	431.35	25°.9C	5.9409 s	25°.9C	—	—	—	Sinzyō	Sinzyō

163. KOGOTA.

Aza Hunairi (小牛田村字船入)

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
June 29th 12h 23.8m	5° 17′ 47″	Katō	Sinzyō
,, ,, 12 54.6	,, 18 17	Tanakadate	,,
,, ,, 14 40.0	,, 19 10	Sinzyō	Tanakadate
,, ,, 15 49.8	,, 18 40	Katō	Sinzyō
,, ,, 17 32.9	,, 16 39	Tanakadate	,,
,, ,, 19 6.7	,, 15 41	Katō	Tanakadate
,, ,, 20 11.6	,, 15 36	,,	Katō
,, ,, 21 17.9	,, 15 41	,,	,,
,, ,, 23 21.9	,, 15 4	,,	,,
,, 30th 3 18.3	,, 13 9	,,	,,
,, ,, 6 44.3	,, 13 24	,,	Tanakadate
,, ,, 7 56.3	,, 11 48	Sinzyō	,,
,, ,, 9 7.0	,, 10 53	Tanakadate	Sinzyō
,, ,, 10 29.9	,, 15 40	Katō	,,
,, ,, 11 32.7	,, 18 13	Sinzyō	Tanakadate
,, ,, 12 57.6	,, 16 56	Tanakadate	Katō
,, ,, 14 31.8	,, 19 24	Sinzyō	,,
,, ,, 15 45.3	,, 18 8	Katō	,,
,, ,, 17 6.9	,, 17 19	,,	,,
,, ,, 18 13.0	,, 18 9	,,	,,
,, ,, 18 53.7	,, 17 50	,,	,,
,, ,, 19 57.8	,, 15 57	,,	,,
,, ,, 20 51.7	,, 15 25	,,	,,
,, ,, 21 5.36	,, 15 18	,,	,,
,, ,, 23 31.0	,, 14 57	,,	,,
Mean	5° 15′ 13″		

δ = 5° 15′.22

Reduction to 1895.0 = −0.74

,, ,, sea level = 0.00

δ = 5° 14′.5

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
June 29th 15h 31m	13	52° 5′5	Tanakadate	Sinzyō
„ „ 16 59	13.2	„ 12.8	Sinzyō	Katō
„ 30th 7 26	14.2	„ 9.6	„	Tanakadate
„ 10 1	4	„ 8.4	Tanakadate	Sinzyō
„ 11 10	14	„ 9.8	Katō	Tanakadate
„ 13 58	3	„ 8.2	„	Sinzyō
Mean		52° 9′1		

	θ = 52°	9′1
Reduction to	1895.0 =	0.05
„ „	sea level =	0.00
	θ = 52°	9′2

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
June 29th 14h 8m	0.28850	434.63	25°0C	5.8889 s	26°4C	6°30′53″8	14°47′ 1″3	23°6C	Sinzyō / Kotō	Katō / Sinzyō
„ „ 18 36	0.28849	436.62	18.9	5.8725	19.2	6 32 37.5	14 51 16.3	18.5	Tanakadate / Sinzyō	„ / Tanakadate
„ 30th 8 43	0.28782	437.13	17.2	5.8749	17.3	6 33 25.0	14 52 18.8	17.2	„ / Tanakadate	„ / Sinzyō
Mean	0.28827									

	= H	0.28827
Reduction to	1895.0 =	−111
„ „	sea level =	000
	H =	0.28826

Kogota Syuttyō (小牛田出張)

Observations of the North Party, 1895.

(1) (北浦村字彫堂小學校)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
June 30th 17h 28m	13	52° 19′5	Sinzyō	Sinzyō
„ „ 18 16	14	„ 14.4	Tanakadate	Tanakadate
Mean		52° 17′0		

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
June 30th 16h 42m	*0.28757	437.06	18°2C	5.8780 s	18°2C	—	—	—	..	..
„ „ 16 51	*0.28744	437.16	17.9	5.8787	17.9	—	—	—	Sinzyō	Tanakadate
Mean	0.28751									

(2) (小牛田村字牛飼)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
June 30th. 21h 3m	14	52° 23′2	Sinzyō	Tanakadate
„ „ 22 17	3	„ 26.4	Tanakadate	Sinzyō
Mean		52° 24′8		

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
June 30th 20h 28m	*0.28643	438.13	15°0C	s 5.8825	15°0C	—	—	—	Tanakadate	Sinzyō
„ „ 20 41	*0.28623	438.29	14.5	5.8833	14.5	—	—	—	Sinzyō	Tanakadate
Mean	0.28633									

(3) 北浦村 (梅ノ木村ヘノ街道附近)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 13th — —	—	52° 12′7	Sinzyō	Sinzyō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 13th — —	*0.28714	431.20	26°2C	s 5.9229	26°2C	—	—	—	Tatibara	Sinzyō

(4) (不動村道傍)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 13th — —	—	52° 8′0	Tatibara	Sinzyō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 13th — —	*0.28747	432.60	22°6C	s 5.9097	22°6C	—	—	—	Tatibara	Sinzyō

164. GAMON.

Wakayanagimachi (若柳町字我門)

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 2nd 12h 2.7m	5° 17′ 44″	Katō	Tanakadate
„ „ 13 13.6	„ 18 56	Tanakadate	Katō
„ „ 14 17.5	„ 18 54	„	Tanakadate
„ „ 15 34.5	„ 17 53	Katō	„
„ „ 17 22.3	„ 14 21	Tanakadate	Katō
„ „ 13 25.4	„ 13 39	Katō	Tanakadate
„ „ 19 56.3	„ 14 28	Sinzyō	Sinzyō
„ „ 20 45.9	„ 14 34	„	„
„ „ 23 0.5	„ 13 45	Katō	Katō
„ 3rd 0 20.5	„ 14 4	„	„
„ „ 3 37.7	„ 12 50	„	„
„ „ 7 35.5	„ 9 31	Sinzyō	Tanakadate
„ „ 8 42.9	„ 10 29	Tanakadate	Sinzyō
„ „ 9 57.6	„ 13 8	„	„
„ „ 11 37.4	„ 15 43	Sinzyō	Tanakadate
„ „ 13 34.6	„ 18 11	Katō	„
„ „ 14 59.4	„ 17 31	Tanakadate	Katō
Mean	5° 14′ 7″		

$\delta = 5°\ 14'12$

Reduction to 1895.0 = −0.78

„ „ sea level = 0.00

$\delta = 5°\ 13'3$

DIP (θ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 2nd 15h 0m	13	52° 44′9	Katō	Tanakadate
,, ,, 17 59	13	,, 43.8	Tanakadate	Katō
,, 3rd 9 29	3	,, 44 2	Sinzyō	Tanakadate
,, ,, 13 7	4	,, 40.9	Tanakadate	Sinzyō
,, ,, 14 32	14	,, 41.3	Sinzyō	Katō
,, ,, 15 43	14	,, 40.8	Katō	Tanakadate
Mean		52° 42′7		

$\theta = 52° 42′7$
Reduction to 1895.0 = 0.10
,, ,, sea level = 0.00
$\delta = 52° 42′8$

HORIZONTAL INTENSITY (H)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 2nd 13h 57m	0.28193	435.44	20°9C	5.9487 s	21°1C	6°40′33″8	15° 9′30″0	20°7C	Tanakadate / Katō	Katō / Tanakadate
,, ,, 19 11	0.28172	436.20	19.5	5.9451	19.7	6 41 16.8	15 10 43.8	19.4	,, / Tanakadate	,, / Katō
,, 3rd 8 11	0.28174	435.76	19.5	5.9476	19.5	6 40 53.8	15 10 1.3	19.6	,, / Sinzyō	Sinzyō / Tanakadate
Mean	0.28180									

$H = 0.28180$
Reduction to 1895.0 = −124
,, ,, sea level = 13
$H = 0.28179$

Gamon Syuttyō (我 門 出 張)

Observations of the North Party, 1895.

(1) (石越村字熊野堂)

Dat and Hour (Mean Local Time.)	Needle No	θ	Observer	Recorder
Sept. 8th 8h 32m	13	52° 30′5	Sinzyō	Tanakadate

Date and Hour (Mean Local Time)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 8th 7h 47m	*0.28188	431.21	26°3C	5.9779 s	26.3C	—	—	—	Tanakadate	Sinzyō

(2) (熊野堂ト八幡山ノ間ニアル畑中. カヤノ木ノアリシ處)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 8th 10h 47m	13	52° 43′1	Sinzyō	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 8th 9h 45m	*0.28117	430.24	28°8C	5.9924 s	28°8C	—	—	—	Tanakadate	Sinzyō
,, ,, 9 55	*0.28123	430.24	28.8	5.9945	28.8	—	—	—	,,	,,
Mean	0.28120									

(3) **Mt. Yahata** (八 幡 山)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 8th 14h 12m	13	52° 36′2	Sinzyō	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 8th 13h 29	*0.28155	430.78	27°.4C	5.9848 s	27°.4C	—	—	—	Tanakadate	Sinzyō

(4) (志波姫村字白幡龍昌寺境内小字堰淵圖)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 8th 15h 58m	13	52° 41′.9	Sinzyō	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 8th 15h 16m	*0.28154	430.08	29°.2C	5.9896 s	29°.2C	—	—	—	Tanakadate	Sinzyō

165. MIDZUSAWA.

Hidakazinsya (日高神社境内)

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
July 4th 13h 25.9m	5° 13′ 37″	Sinzyō	Katō
,, ,, 15 2.8	,, 15 6	Katō	Sinzyō
,, ,, 16 18.2	,, 12 45	Sinzyō	Katō
,, ,, 18 2.3	,, 11 48	,,	,,
,, ,, 19 5.1	,, 10 46	Katō	Sinzyō
,, ,, 20 58.0	,, 12 31	Tanakadate	Tanakadate
,, ,, 22 38.2	,, 12 49	,,	,,
,, 5th 0 59.9	,, 12 14	Sinzyō	Sinzyō
,, ,, 5 10.2	,, 10 52	,,	,,
,, ,, 5 51.5	,, 9 53	,,	,,
,, ,, 6 43.8	,, 8 22	Tanakadate	Katō
,, ,, 8 10.9	,, 9 4	Katō	,,
,, ,, 9 13.2	,, 10 23	Tanakadate	,,
,, ,, 10 24.4	,, 12 43	Katō	,,
,, ,, 11 25.3	,, 16 4	,,	,,
,, ,, 13 5.3	,, 17 36	Sinzyō	Sinzyō
,, ,, 14 50.6	,, 18 25	,,	,,
Mean	5° 13′ 6″		

$\delta = 5°\ 13'.10$

Reduction to 1895.0 = −0.84

,, ,, sea level = 0.00

$\delta = 5°\ 12'.3$

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 4th 17h 40m	13	52° 42′.1	Katō	Sinzyō
,, ,, 18 38	13	,, 43.2	Sinzyō	Katō
,, 5th 8 44	13	,, 41.4	Tanakadate	,,
Mean		52° 42′.2		

$\theta = 52°\ 42'.2$

Reduction to 1895.0 = 0.20

,, ,, sea level = 0.00

$\theta = 52°\ 42'.4$

HORIZONTAL INTENSITY (H)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 4th 14h 32m	0.28417	434.10	26°1 C	5.9351	26°6 C	6°36′ 3″8	14°59′ 0″0	25°6 C	Katō / Sinzyō	Sinzyō / Katō
„ „ 20 21	0.28364	435.32	22.0	5.9298	21.7	6 37 21.3	15 1 26.3	22.4	„ / Katō	„ / Sinzyō
„ 5th 7 44	0.28387	436.04	20.6	5.9237	20.7	6 38 3.8	15 3 21.9	20.6	„ / Tanakadate	Tanakakate / Katō
„ „ 14 11	0.28407	433.33	28.6	5.9412	29.0	6 35 14.4	14 56 52.5	28.3	Katō / Sinzyō	Sinzyō / Katō
Mean	0.28394									

H = 0.28394
Reduction to 1895.0 = −129
„ „ sea level = 27
H = 0.28393

Midzusawa Syuttyō (水澤出張)

Observations of the North Party, 1895.

(1) **Ruin of old castle** (舊城趾)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 5th 18h 5m	13	52° 40′6	Sinzyō	Katō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 5th 17h 14m	*0.28369	433.97	26°6 C	5.9397	26°6 C	—	—	—	Katō	Sinzyō
„ „ 17 24	*0.28360	433.86	27.0	5.9415	27.0	—	—	—	Sinzyō	Katō
Mean	0.28365									

166. HANAMAKI.

(後河原)

DECLINATION (δ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 5th 22h 50.0m	5° 29′ 8″	Tanakadate	Tanakadate
„ 6th 0 24.9	„ 28 25	„	„
„ „ 2 56.9	„ 28 34	„	„
„ „ 4 40.6	„ 27 23	„	„
„ „ 7 46.6	„ 24 24	Sinzyō	Katō
„ „ 9 14.8	„ 25 14	Katō	Sinzyō
„ „ 10 12.9	„ 27 51	Sinzyō	Katō
„ „ 11 17.8	„ 32 0	Katō	Sinzyō
„ „ 12 35.7	„ 35 14	Sinzyō	Katō
„ „ 13 44.8	„ 36 42	„	„
„ „ 14 39.0	„ 35 33	Tanakadate	„
„ „ 16 33.7	„ 33 30	Katō	Tanakadate
„ „ 17 49.7	„ 31 52	Sinzyō	Katō
„ „ 18 50.3	„ 31 15	Tanakadate	Sinzyō
„ „ 20 29.9	„ 30 31	Sinzyō	Katō
„ „ 21 30.1	„ 30 30	„	„
Mean	5° 30′ 17″		

δ = 5° 30′28
Reduction to 1895.0 = −0.92
„ „ sea level = −0.01
δ = 5° 29′4

DIP. (θ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 6th 11h 23m	14	52° 59′0	Katō	Sinzyō
,, ,, 11 56	14	,, 57.8	Sinzyō	Katō
,, ,, 16 36	13	,, 57.4	Tanakadate	Sinzyō
,, ,, 18 28	13	53 3.2	Sinzyō	Katō
,, ,, 19 33	13	,, 2.1	Tanakadate	Sinzyō
Mean		52° 59′9		

$\theta = 52°\ 59'9$
Reduction to 1895.0 = 0.36
,, ,, sea level = 0.00
$\theta = 53°\ 0'3$

HORIZONTAL INTENSITY (H)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 6th 8h 52m	0.28226	435.30	24°5C	5.9443 s	24°0C	6°39′18″1	15° 6′ 8″1	25°0C	Sinzyō / Katō	Katō / Sinyzō
,, ,, 13 20	0.28191	433.42	28.0	5.9608	27.5	6 37 55.6	15 2 57.5	28.6	,, / Sinzyō	,, / Katō
,, ,, 21 4	0.28167	435.67	20.5	5.9488	20.4	6 40 50.0	15 9 51.3	20.6	,, / Tanakadate	Tanakadate / Sinzyō
Mean	0.28195									

$H = 0.28195$
Reduction to 1895.0 = −137
,, ,, sea level = 82
$H = 0.28194$

Hanamaki Syuttyō (花巻出張)

Observations of the North Party, 1895.

(1) Park Toriyagasaki ruin of Hanamaki castle (花巻城趾鳥谷ヶ崎公園)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 7th 8h 36m	13	53° 2′4	Tanakadate / ,,	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 7th 9h 22m	*0.28139	434.11	26°4C	5.9630 s	26°4C	—	—	—	Sinzyō	Tanakadate
,, ,, 9 38	*0.28132	434.06	26.6	5.9641	26.6	—	—	—	Tanakadate	Sinzyō
Mean	0.28136									

167. MORIOKA.

Inarimae (下厨川村字稲荷前)

DECLINATION (δ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 7th 15h 22.5m	5° 37′ 13″	Tanakadate	Katō
,, ,, 16 55.3	,, 34 6	Sinzyō	,,
,, ,, 18 42.5	,, 32 33	Tanakadate	Sinzyō
,, 18 51.4	,, 32 23	,,	,,
,, ,, 19 49.5	,, 33 14	,,	,,
,, ,, 20 54.5	,, 33 21	Katō	Katō
,, ,, 22 4.5	,, 33 40	,,	,,
,, 8th 1 39.6	,, 33 33	,,	,,
	To be Continued		

Continued

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 8th 2h 14.8m	5° 33′ 13″	Katō	Katō
,, ,, 4 26.1	,, 32 33	,,	,,
,, ,, 6 17.0	,, 30 12	,,	,,
,, ,, 7 20.2	,, 28 0	,,	,,
,, ,, 8 36.5	,, 27 59	,,	,,
,, ,, 9 50.8	,, 30 53	,,	,,
,, ,, 11 6.9	,, 35 19	,,	,,
,, ,, 12 42.1	,, 38 9	,,	,,
,, ,, 14 11.5	,, 39 10	Tanakadate	,,
,, ,, 14 28.4	,, 39 10	,,	,,
,, ,, 15 30.7	,, 38 29	,,	,,
,, ,, 16 24.9	,, 36 52	,,	,,
Mean	5° 33′ 31″		

$\delta = 5°\ 33'.52$
Reduction to 1895.0 = −0.98
,, ,, sea level = −0.01
$\delta = 5°\ 32'.5$

DIP (θ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 7th 16h 23m	14	53° 12′.0	Sinzyō	Katō
,, 8th 9 19	14	,, 11.3	Tanakadate	Sinzyō
,, ,, 14 56	13	,, 11.0	Katō	Tanakadate
Mean		53° 11′.4		

$\theta = 53°\ 11'.4$
Reduction to 1895.0 = 0.41
,, ,, sea level = 0.01
$\theta = 53°\ 11'.8$

HORIZONTAL INTENSITY (H)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 7th 19h 24m	0.28262	435.03	21°.4C	5.9444	21°.8C	6°39′ 6″.2	15° 5′52″.5	20°.9C	Tanakadate / Sinzyō	Sinzyō / Tanakadate
,, 8th 8 11	0.28269	435.61	21.3	5.9367	20.5	6 38 58.8	15 5 27.5	22.2	,,	,,
,, ,, 13 25	0.28268	433.57	26.4	5.9519	25.9	6 37 10.0	15 1 21.3	26.9	Tanakadate	Sinzyō
Mean	0.28266									

$H = 0.28266$
Reduction to 1895.0 = −128
,, ,, sea level = 177
$H = 0.28267$

Morioka Syuttyō (盛岡出張)

Observations of the North Party, 1895.

(1) (舊上田村宿茶屋)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 8th 19h 19m	14	53° 15′.3	Tanakadate	Katō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 8th 18h 42m	*0.28159	435.95	19°.4C	5.9479	19°.4C	—	—	—	Tanakadate	Katō
,, ,, 18 51	*0.28127	436.32	18.5	5.9487	18.3	—	—	—	Katō	Tanakadate
Mean	0.28143									

(2) **North shore of Riv. Kuriya** (厨川北岸)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer.	Recorder
Sept. 7th 13h 20m	13	53° 7′8	Sinzyō	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 7th 12h 29m	*0.28316	429.07	31°8C	s 5.9796	31°8C	—	—	—	Tanakadate	Sinzyō
,, ,, 12 40	*0.28288	428.80	32.5	5.9844	32.5	—	—	—	,,	,,
Mean	0.28302									

(3) **Ruin of old castle, Morioka** (盛岡舊城趾本丸内中ノ口西)

Date and Hour (Mean Local Times.)	Needle No.	θ	Observer	Recorder
Sept. 7th 16h 41m	13	53° 7′1	Sinzyō	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 7th 15h 49m	*0.28218	429.69	30°2C	s 5.9855	30°2C	—	—	—	Tanakadate	Sinzyō
,, ,, 15 58	*0.28192	429.65	30.3	5.9885	30.3	—	—	—	,,	,,
Mean	0.28205									

168. NAKAYAMA.

Goryōti (西田子御料地字中山大塚野地)

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 9th 12h 36.6m	5° 54′ 57″	Sinzyō	Katō
,, ,, 14 2.7	,, 55 43	Katō	Sinzyō
,, ,, 15 24.7	,, 54 25	Tanakadate	,,
,, ,, 16 29.1	,, 52 20	[illegible]	,,
,, ,, 17 37.1	,, 50 33	Tanakadate	Katō
,, ,, 18 42.2	,, 50 2	Sinzyō	Tanakadate
,, ,, 19 49.1	,, 50 9	,,	,,
,, ,, 22 30.0	,, 49 58	,,	Sinzyō
,, 10th 0 1.2	,, 49 57	,,	,,
,, ,, 5 51.9	,, 46 35	,,	,,
,, ,, 7 3.0	,, 43 58	Tanakadate	Katō
,, ,, 7 57.1	,, 43 18	Katō	Tanakadate
,, ,, 9 26.9	,, 44 34	Tanakadate	Katō
,, ,, 10 35.9	,, 47 52	Katō	Sinzyō
,, ,, 11 35.2	,, 51 31	Sinzyō	Katō
,, ,, 12 24.9	,, 53 2	Katō	Sinzyō
,, ,, 12 35.2	,, 53 13	Sinzyō	Katō
Mean	5° 49′ 36″		

$\delta = 5°\ 49'60$

Reduction to 1895.0 = −1.03

,, ,, sea level = −0.04

$\delta = 5°\ 48'5$

DIP (θ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 9th 15h 2m	13	53° 29′9	Tanakadate	Katō
„ „ 20 22	14	„ 34.8	Katō	Tanakadate
„ 10th 8 45	14	„ 31.8	Tanakadate	Katō
„ „ 11 17	14	„ 30.0	Sinzyō	„
„ „ 13 26	14	„ 36.2	Katō	Sinzyō
Mean		53° 32′5		

$\theta = 53°\ 32'5$
Reduction to 1895.0 = 0.52
„ „ sea level = 0.02
$\theta = 53°\ 33'0$

HORIZONTAL INTENSITY (H)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 9th 13h 40m	0.28079	434.68	23°4C	5.9667 s	23°9C	6′41′13″8	15°10′36″3	22.9C	Tanakadate / Sinzyō	Sinzyō / Tanakadate
„ „ 19 25	0.28072	436.50	16.1	5.9544	16.6	6 43 11.3	15 15 10.0	15.6	Katō / Tanakadate	„ / Katō
„ 10th 7 33	0.28078	435.75	18.3	5.9577	18.3	6 42 17.5	15 13 15.0	18.3	„ / Katō	„ / Tanakadate
Mean	0.28076									

$H = 0.28076$
Reduction to 1895.0 = −127
„ „ sea level = 589
$H = 0.28081$

Nakayama Syuttyō (中山出張)

Observations of the North Party, 1895.
(西田子御料地字カリシヤ)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 9th 16h 31m	14	53° 52′3	Sinzyō	Katō
„ „ 17 2	14	„ 50.3		
Mean		53° 51′3		

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 9th 15h 33m	0.28029	434.46	23°4C	5.9721 s	23°4C	—	—	—	Sinzyō	Katō
„ „ 15 48	0.28006	434.47	23.4	5.9745	23 4	—	—	—		
Mean	0.28018								„	„

169. HATINOHE.

Siragizinsya (八戸長者山新羅神社)

DIP (θ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 12th 8h 0m	14	54° 9′9	Sinzyō	Katō

$\theta = 54°\ 9'9$
Reduction to 1895.0 = 0.72
„ „ sea level = 0.00
$\theta = 54°\ 10'6$

HORIZONTAL INTENSITY (*H*)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp t_D	Observer	Recorder
July 11th 19^{h} 30^{m}	0.27774	433.30	17°6C	5.9875 s	17°9C	6°47′12″5	15°24′22″5	17°3C	Katō / Tanakadate	Tanakadate / Katō

H = 0.27774
Reduction to 1895.0 = −123
„ „ sea level = 53
H = 0.27773

Hatinohe Syuttyō (八 戸 出 張)

Observations of the North Party, 1895.

(1) (櫟 塚)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 6th 18^{h} 5^{m}	13	54° 8′4	Sinzyō	Sinzyō

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 6th 17^{h} 2^{m}	*0.27806	429.86	29°8C	6.0287 s	29°8C	—	—	—	Sinzyō	Sinzyō
„ „ 17 16	*0.27814	429.96	29.4	6.0271	29.4	—	—	—	„	„
Mean	0.27810									

(2) (郡 役 所 前)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 6th 20^{h} 22^{m}	13	54° 10′7	Sinzyō	Sinzyō

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 6th 19^{h} 32^{m}	*0.27681	432.14	23.9C	6.0265 s	23°9C	—	—	—	Sinzyō	Sinzyō

170. KOMINATOTAIRA.

Field in Samemura (鮫 村 原 野)

DECLINATION (δ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 12th 14^{h} 30.8^{m}	4° 59′ 57″	Katō	Sinzyō
„ „ 15 26.5	„ 59 4	Sinzyō	Katō
„ „ 16 40.3	„ 57 43	„	„
„ „ 17 38.0	„ 55 54	„	„
„ „ 18 29.3	„ 55 0	„	„
„ „ 19 39.5	„ 54 24	Tanakadate	„
„ „ 21 29.6	„ 54 32	Sinzyō	Sinzyō
„ „ 23 27.2	„ 54 0	„	„
„ 13th 1 7.1	„ 54 37	„	„
„ „ 2 23.8	„ 53 4	„	„
„ „ 5 34.9	„ 50 22	„	„
„ „ 6 28.4	„ 49 25	„	„
„ „ 7 36.1	„ 51 45	Tanakadate	„
„ „ 8 38.8	„ 52 7	„	Katō
„ „ 10 35.4	„ 55 18	„	„
„ „ 11 25.7	„ 57 49	Katō	Tanakadate
„ „ 12 32.4	„ 59 27	Sinzyō	Sinzyō
„ „ 14 8.9	5 0 35	„	„
„ „ 15 0.2	4 59 45	Tanakadate	„
„ „ 20 24.4	„ 54 12	„	„
Mean	4° 54′ 52″		

δ = 4° 54′87
Reduction to 1895.0 = −1.15
„ „ sea level = 0.00
δ = 4° 53′7

DIP (θ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 12th 16h 3m	14	54° 14′1	Tanakadate	Katō
„ „ 20 35	4	„ 17.0	Sinzyō	Sinzyō
„ 13th 9 30	13	„ 24.2	Katō	Tanakadate
Mean		54° 18′4		

$\theta = 54°\ 18'4$
Reduction to 1895.0 = 0.63
„ „ sea level = 0.00
$\theta = 54°\ 19'0$

HORIZONTAL INTENSITY (H)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 12th 15h 3m	0.27725	434.92	21°3C	s 6.0039	22°2C	6°47′ 1″3	15°21′22″5	20°5C	Tanakadate / Katō	Katō / Tanakadate
„ „ 19 10	0.27725	436.54	16.7	5.9904	16.8	6 48 17.5	15 27 12.5	16.6	„ / Tanakadate	„ / Katō
„ 14th 8 17	0.27687	436.31	16.9	5.9952	16.7	6 48 40.0	15 27 47.5	17.1	„ / Sinzyō	Sinzyō / Tanakadate
„ „ 13 21	0.27590	434.99	20.3	6.0175	21.0	6 48 35.0	15 27 17.5	19.7	Tanakadate	Katō
„ „ 21 8	0.27649	436.68	17.2	5.9983	17.4	6 49 2.5	15 28 5.0	16.9	Sinzyō / Tanakadate	Tanakadate
Mean	0.27675									

$H = 0.27675$
Reduction to 1895.0 = −119
„ „ sea level = 000
$H = 0.27674$

Kominatotaira Syuttyō (小舟渡平出張)

Observations of the North Party, 1895.

	Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
(1)	July 13th 16h 6m	*0.27308	435.86	18°6C	s 6.0407	18°6C	—	—	—	Tanakadate	Sinzyō
(2)	„ „ 16 31	*0.27270	436.14	17.6	6.0429	17.6	—	—	—	Tanakadate	Sinzyō
(3)	„ „ 16 54	*0.27570	436.14	17.6	6.0099	17.6	—	—	—	Tanakadate	Sinzyō
(4)	„ „ 17 15	*0.27348	433.23	17.3	6.0336	17.3	—	—	—	Tanakadate	Sinzyō

171. ŌNO.

Simokawara (下河原)

DECLINATION (δ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 14th 17h 40.8m	4° 21′ 43″	Tanakadate	Tanakadate
„ „ 18 35.7	„ 20 45	„	„
„ „ 19 39.0	„ 20 15	„	„
„ „ 21 59.8	„ 21 44	Katō	Katō
„ „ 23 50.1	„ 21 43	„	„
„ 15th 3 27.4	„ 20 54	„	„
„ „ 7 22.7	„ 16 25	„	„
„ „ 8 38.1	„ 16 5	Tanakadate	Sinzyō
	To be continued		

Continued.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July. 15th 10h 5.5m	4° 19′ 13″	Tanakadate	Sinzyō
,, ,, 11 14.2	,, 21 4	Katō	Tanakadate
,, ,, 12 52.7	,, 24 9	,,	,,
,, ,, 13 43.2	,, 25 3	Tanakadate	Katō
,, ,, 14 40.6	,, 25 14	,,	Tanakadate
,, ,, 15 55.8	,, 24 26	,,	Katō
,, ,, 17 5.9	,, 21 58	Katō	Tanakadate
,, ,, 18 26.3	,, 20 25	Tanakadate	Katō
Mean	4° 20′ 44″		

δ = 4° 20′.73
Reduction to 1895.0 = −1.04
,, ,, sea level = −0.02
δ = 4° 19′.7

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 15th 9h 26m	13	53° 57′.9	Tanakadate	Sinzyō
,, ,, 15 29	14	,, 56.8	,,	Katō
,, ,, 17 53	13	,, 56.9	Katō	Tanakadate
Mean		53° 57′.2		

θ = 53° 57′.2
Reduction to 1895.0 = 0.43
,, ,, sea level = 0.01
θ = 53° 57′.6

HORIZONTAL INTENSITY (*H*)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 14th 21h 8m	0.28109	436.48	16°.5C	5.9504 s	16°.9C	6°42′30″.0	15°13′23″.8	16°.1C	Tanakadate / Sinzyō	Sinzyō / Tanakadate
,, 15th 9 15	0.28127	436.62	17.2	5.9475	17.6	6 42 22.5	15 13 10.0	16.9	,, / Tanakadate	,, / Sinzyō
,, ,, 14 20	0.28129	435.25	18.9	5.9569	19.4	6 41 35.0	15 12 7.5	18.4	Katō / Tanakadate	Tanakadate / Katō
Mean	0.28122									

H = 0.28122
Reduction to 1895.0 = −64
,, ,, sea level = 274
H = 0.28124

Ōno Syuttyō (大野出張)

Observations of the North Party, 1895.

(1) (大野字清三平)

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 14th 18h 36m	*0.28039	436.69	15°.3C	5.9553 s	15°.3C	—	—	—	Sinzyō	Katō
,, ,, 18 45	*0.28014	436.78	15.0	5.9575	15.0	—	—	—	Katō	Sinzyō
Mean	0.28027									

(2) (大野字中山)

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 14th 19h 23m	*0.27994	437.02	14°.0C	5.9576 s	14°.0C	—	—	—	Sinzyō	Katō
,, ,, 19 35	*0.27996	437.10	13.7	5.9574	13.7	—	—	—	Katō	Sinzyō
Mean	0.27995									

172. KUZI.

Tyōkyūzimura (久慈町長久寺村新井田)

DECLINATION (δ)

Observations of the Nroth Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 16th 12h 57.3m	5° 5′ 46″	Tanakadate	Katō
,, ,, 14 13.9	,, 6 24	Katō	Tanakadate
,, ,, 16 13.5	,, 6 17	Sinzyō	Katō
,, ,, 17 2.3	,, 5 40	Tanakadate	Sinzyō
,, ,, 18 0	,, 4 33	Katō	,,
,, ,, 19 35.6	,, 3 20	Sinzyō	Katō
,, ,, 21 8.4	,, 2 48	,,	Sinzyō
,, ,, 23 17.0	,, 4 1	,,	,,
,, 17th 0 32.0	,, 3 55	,,	,,
,, ,, 2 22.5	,, 3 39	,,	,,
,, ,, 5 19.8	,, 1 35	,,	,,
,, ,, 7 30.2	,, 0 21	,,	Tanakadate
,, ,, 8 54.1	,, 1 11	Tanakadate	Katō,
,, ,, 10 13.1	,, 2 0	Katō	Tanakadate
,, ,, 11 27.2	,, 3 48	,,	Katō
,, ,, 12 27.3	,, 5 46	,,	,,
,, ,, 13 29.4	,, 6 14	,,	,,
,, ,, 14 29.6	,, 6 25	Sinzyō	Sinzyō
,, ,, 15 19.3	,, 9 24	,,	,,
Mean	5° 3′ 34″		

δ = 5° 3′57

Reduction to 1895.0 = −1′02

,, ,, sea level = 0.00

δ = 5° 2′6

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 16th 15h 36m	14	54° 0′4	Tanakadate	Katō
,, ,, 19 8	14	,, 1.9	Sinzyō	,,
Mean		54° 1′2		

θ = 54° 1′2

Reduction to 1895.0 = 0.38

,, ,, sea level = 0.00

θ = 54° 1′6

HORIZONTAL INTENSITY (*H*)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 16th 13h 50m	0.28058	435.51	20°7 C	s 5.9629	21°2C	6°42′22″5	15°13′18″8	20°3C	Tanakadate / Katō	Katō / Tanakadate
,, ,, 20 35	0.28042	435.62	19.1	5.9637	19.6	6 42 42.5	15 14 0.0	18.6	,, / Sinzyō	Sinzyō / Katō
,, 17th 8 35	0.28005	435.58	20.1	5.9672	20.3	6 42 48.8	15 13 51.2	20.0	Katō / Tanakadate	Tanakadate / Katō
Mean	0.28035									

H = 0.28035

Reduction to 1895.0 = − 48

,, ,, sea level = 00

H = 0.28035

Kuzi Syuttyō (久 慈 出 張)

Observations of the North Party, 1895.

(1) **Araida Pasture** (新 井 田 牧 場)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 17th 9h 45m	13	54° 3′9	Katō	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 17th 17h 28m	*0.28203	435.75	19°3C	5.9445	19°3C	—	—	—	Sinzyō	Katō
,, ,, 17 37	*0.28207	435.82	19.0	5.9436	19.0	—	—	—	Katō	Sinzyō
Mean	0.28205									

(2) (長 内 町)

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 17th 19h 9m	*0.28213	436.07	18°0C	5.9412	18°0C	—	—	—	Katō	Sinzyō
,, ,, 19 19	*0.28221	436.12	17.8	5.9403	17.8	—	—	—	Sinzyō	Katō
Mean	0.28217									

173. AKKA.

Mr. Tamasawa's vegitable ground (玉澤氏所有畑)

DIP (θ)

Observations of the North Party, 1895.

Date and Horur (Mean Local Time.)	Needle No	θ	Observer	Recorder
July 18th 20h 37m	14	53° 33′2	Sinzyō	Katō

$\theta = 53° 33'2$

Reduction to 1895.0 = 0.34

,, ,, sea level = 0.00

$\theta = 53° 33'5$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 18th 19h 41m	*0.28138	435.69	18°3C	5.9517	18°3C	—	—	—	Katō	Sinzyō
,, ,, 19 53	*0.28120	435.71	18.2	5.9535	18.2	—	—	—	Sinzyō	Katō
Mean	0.28129									

$H = 0.28129$

Reduction to 1895.0 = −66

,, ,, sea level = 137

$H = 0.28130$

174. ANAZAWA.

Nakagawara (小川村穴澤中河原)

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 19th 17h 6.8m	4° 42′ 7″	Katō	Tanakadate
,, ,, 18 26.5	,, 41 28	Sinzyō	Katō
,, ,, 19 37.6	,, 41 24	,,	,,
,, ,, 21 11.4	,, 41 43	Katō	,,
,, ,, 22 17.7	,, 42 32	,,	,,
,, 20th 2 54.0	,, 41 56	,,	,,
,, ,, 7 3.2	,, 36 49	,,	,,
,, ,, 9 12.3	,, 38 22	Tanakadate	Sinzyō
	To be continued		

Continued

Date and Hour (Mean Local Time.)	θ	Observer	Recorder
July 20th 10h 38.0m	4° 40′ 41″	Tanakadate	Sinzyō
,, ,, 12 40.9	,, 43 20	,,	,,
,, ,, 13 36.8	,, 43 47	,,	,,
,, ,, 14 58.3	,, 43 36	Sinzyō	Katō
,, ,, 16 5.5	,, 42 39	Katō	,,
Mean	4° 41′ 12″		

$\delta = 4°\ 41'.2$

Reduction to 1895.0 = −1.00

,, ,, sea level = −0.03

$\delta = 4°\ 40'.2$

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 19th 17h 29m	14	53° 26′.4	Sinzyō	Katō
,, ,, 20 29	13	,, 24.3	Tanakadate	Sinzyō
,, 20th 14 28	14	,, 21.2	Katō	Katō
Mean		53° 24′.0		

$\theta = 53°\ 24'.0$

Reduction to 1895.0 = 0.27

,, ,, sea level = 0.01

$\theta = 53°\ 24'.3$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 19th 19h 15m	0.28123	434.20	23°.1C	5.9645 s	23°.4C	6°39′58″.8	15° 7′35″.0	22°.8C	Tanakadate / Sinzyō	Sinzyō / Tanakadate
,, 20th 9 45	0.28144	433.73	24.3	5.9661	24.8	6 39 35.0	15 7 7.5	23.9	,, / Tanakadate	,, / Sinzyō
,, ,, 9 58	0.28137	433.73	24.6	5.9661	24.8	6 39 18.8	15 6 5.0	24.4	,, / Sinzyō	,, / Tanakadate
,, ,, 13 19	0.28204	433.49	26.1	5.9629	27.1	6 38 36.3	15 4 45.0	25.1	Tanakadate	Sinzyō
Mean	0.28152									

$H = 0.28152$

Reduction to 1895.0 = −47

,, ,, sea level = 4.0

$H = 0.28156$

Anazawa Syuttyō (穴澤出張)

Observations of the North Party, 1895.

	Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
(1)	July 20th 11h 22m	*0.28160	432.79	28°.5C	5.9700 s	28°.5C	—	—	—	Sinzyō	Tanakadate
(2)	,, ,, 7 28	*0.28289	434.17	23.0	5.9609	23.0	—	—	—	Tanakadate	Sinzyō

175. IWAIZUMI.

(岩泉字中屋. 畑中)

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1895.

(** Value deduced from Vibration only by assuming Value of M.*)

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 21st 7h 0m	*0.28386	439.98	20°.0C	5.9310 s	20°.0C	—	—	—	Sinzyō	Katō

$H = 0.28386$

Reduction to 1895.0 = −55

,, ,, sea level = 169

$H = 0.28386$

Iwaizumi Syuttyō (岩泉出張)

Observations of the North Party, 1895.
(岩泉村大字杤木)

Date and Honr (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 21st 13h 12m	*0.28259	433.92	24°2C	s 5.9517	24.2C	—	—	—	Katō	Sinzyō

176. MIYAKO.

Hudiwarakawara (藤原河原)

DECLINATION (δ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 22nd 11h 11.6m	5° 40′ 29″	Sinzyō	Katō
,, ,, 12 40.7	,, 41 56	Katō	Sinzyō
,, ,, 13 14.0	,, 42 27	Tanakadate	,,
,, ,, 14 22.6	,, 40 56	,,	,,
,, ,, 15 19.2	,, 39 22	Sinzyō	,,
,, ,, 17 43.5	,, 36 50	Tanakadate	,,
,, ,, 18 49.9	,, 37 1	Sinzyō	Tanakadate
,, ,, 20 4.5	,, 37 20	,,	,,
,, ,, 22 4.3	,, 37 10	Katō	Katō
,, ,, 23 16.7	,, 36 57	Tanakadate	Tanakadate
,, 23rd 2 23.5	,, 35 50	,,	,,
,, ,, 4 34.3	,, 35 37	,,	,,
,, ,, 6 33.4	,, 32 56	,,	,,
,, ,, 7 29.0	,, 32 24	Sinzyō	Katō
,, ,, 8 40.1	,, 34 9	,,	,,
,, ,, 9 28.8	,, 36 39	,,	,,
,, ,, 11 5.2	,, 40 3	,,	,,
Mean	5° 37′ 59″		

$\delta = 5°\ 37'.98$
Reduction to 1895.0 = −0.95
,, ,, sea level = 0.00
$\delta = 5°\ 37'.0$

DIP (θ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 22nd 12h 14m	13	53° 22′.2	Tanakadate	Katō
,, ,, 21 10	13	,, 29.6	Katō	,,
,, 23rd 10 28	14	,, 20.9	Tanakadate	Tanakadate
Mean		53° 24′.2		

$\theta = 53°\ 24'.2$
Reduction to 1895.0 = 0.17
,, ,, sea level = 0.0
$\theta = 53°\ 24'.4$

HORIZONTAL INTENSITY (H)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 22nd 14h 1m	0.28185	434.46	20°9C	s 5.9553	20°9C	6°39′41′.9	15° 7′35′.6	21°0C	Sinzyō / Tanakadate	Tanakadate / Katō
,, ,, 19 38	0.28181	434.90	20.7	5.9533	20.9	6 40 0.0	15 7 52.6	20.5	,,	Sinzyō
,, 23rd 8 11	0.28161	434.96	21.4	5.9546	21.4	6 40 7.5	15 7 57.5	21.3	Sinzyō / Katō	Katō / Sinzyō
Mean	0.28176									

$H = 0.28176$
Reduction to 1895.0 = − 39
,, ,, sea level = 00
$H = 0.28176$

177. OGUNI.

(小國字末角. 榊原所有畑)

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 24th 14h 51m	14	52° 58′4	Tanakadate	Katō
„ „ 18 4	14	53 3.0	Katō	Tanakadate
Mean		53° 0′7		

$\theta = 53°\ 0'.7$

Reduction to 1895.0 = 0.21

„ „ sea level = 0.00

$\delta = 53°\ 0'.9$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 24th 14h 54m	*0.28158	432.14	30°.8 C	5.9748	30°.8 C	—	—	—	Tanakadate	Katō
„ „ 15 22	*0.28100	433.39	26.0	5.9721	26.0	—	—	—	Katō	Tanakadate
Mean	0.28129									

$H = 0.28129$

Reduction to 1895.0 = − 70

„ „ sea level = 135

$H = 0.28130$

178. TŌNO.

Siroiwa, Kamo Zinsya (白岩村加茂神社)

DECLINATINO (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 26th 10h 37.3m	5° 19′ 56″	Tanakadate	Sinzyō
„ „ 11 57.2	„ 24 39	„	Katō
„ „ 13 3.9	„ 25 21	Katō	Sinzyō
„ „ 14 39.3	„ 25 43	„	„
„ „ 15 45.9	„ 24 54	„	Katō
„ „ 16 44.6	„ 23 14	„	„
„ „ 17 42.6	„ 22 36	„	„
„ „ 18 38.6	„ 22 47	„	„
„ „ 20 28.6	„ 22 58	Tanakadate	„
„ „ 23 22.6	„ 21 52	Sinzyō	Sinzyō
„ 27th 0 32.4	„ 20 15	„	„
„ „ 1 23.9	„ 20 8	„	„
„ „ 2 50.4	„ 18 48	„	„
„ „ 4 45.3	„ 18 36	„	„
„ „ 5 55.3	„ 19 18	„	„
„ „ 6 49.7	„ 19 18	„	„
„ „ 7 27.1	„ 18 − 5	Tanakadate	„
„ „ 8 31.5	„ 19 4	„	Tanakadate
„ „ 9 30.5	„ 19 6	„	„
„ „ 10 27.0	„ 20 3	„	„
Mean	5° 21′ 40″		

$\delta = 5°\ 21'.67$

Reduction to 1865.0 = −0.92

„ „ sea level = −0.02

$\delta = 5°\ 20'.7$

DIP (θ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 26th 11h 38m	14	53° 9′3	Sinzyō	Katō
,, 27th 6 18	13	,, 10 1	,,	Sinzyō
,, ,, 10 3	13	,, 7.2	Tanakadate	Tanakadate
Mean		53° 8′9		

$\theta = 53° 8′9$
Reduction to 1895.0 = 0.17
,, ,, sea level = 0.01
$\theta = 53° 9′1$

HORIZONTAL INTENSITY (H)
Observations of the North Party 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 26th 14h 12m	0.28254	432.67	28°2C	5.9605 s	28°1C	6°33′45″0	15° 0′36″2	28.4C	Tanakadate	Katō
,, ,, 20 1	0.28216	434.57	22.0	5.9523	22.4	6 39 15.0	15 6 8.1	21.5	Katō	Tanakadate
,, 27th 9 4	0.28197	434.05	22.5	5.9557	22.0	6 38 50.0	15 5 25.0	23.0	Sinzyō	,,
Mean	0.28222									

$H = 0.28222$
Reduction to 1895.0 = − 71
,, ,, sea level = 365
$H = 0.28225$

Tōno Syuttyō (遠野出張)

Observations of the North Party, 1895.

(1) **Simokawara** (下河原)

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 25th 19h 22m	*0.28285	434.75	20°4C	5.9428 s	20°4C	—	—	—	Tanakadate	Sinzyō

(2) (松崎村字白岩早瀬河畔ナル水車ノ東)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 26th 16h 6m	14	53° 11′3	Sinzyō	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 26th 15h 36m	*0.28203	432.82	27°3C	5.9652 s	27°8C	—	—	—	,,	,,

(3) (遠野町後方觀音院東)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 23th 18h 3m	14	53° 11′9	Sinzyō	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 26th 17h 29m	*0.28200	433.42	25°5C	5.9607 s	25°5C	—	—	—	Tanakadate	Sinzyō

179. KAMAISI.

Suga-kaigan (釜石町字須賀海岸)

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 28th 10h 57.9m	4° 31′ 59″	Tanakadate	Sinzyō
,, ,, 11 37.1	,, 32 24	Katō	Tanakadate
,, ,, 11 47.0	,, 32 7	,,	,,
,, ,, 12 37.9	,, 32 14	Tanakadate	Sinzyō
,, ,, 13 22.6	,, 31 58	,,	,,
,, ,, 14 31.1	,, 31 38	Sinzyō	,,
,, ,, 15 22.1	,, 31 59	,,	,,
,, ,, 16 18.8	,, 31 2	,,	,,
,, ,, 18 16.1	,, 29 53	Tanakadate	,,
,, ,, 20 0.5	,, 29 41	Sinzyō	Tanakadate
,, ,, 21 32.9	,, 28 52	Tanakadate	Sinzyō
,, 29th 0 34.7	,, 28 35	Katō	Katō
,, ,, 1 5.1	,, 28 33	,,	,,
,, ,, 4 10.3	,, 27 59	,,	,,
,, ,, 5 6.1	,, 23 56	,,	,,
,, ,, 6 4.1	,, 27 7	,,	,,
,, ,, 6 57.1	,, 25 51	,,	,,
,, ,, 7 42.7	,, 26 27	,,	,,
,, ,, 9 1.9	,, 27 59	Sinzyō	Sinzyō
,, ,, 9 49.2	,, 28 44	Tanakadate	,,
,, ,, 10 55.3	,, 30 3	Sinzyō	Tanakadate
,, ,, 12 23.7	,, 31 23	,,	,,
Mean	4° 29′ 12″		

$\delta = 4°\ 29'.20$

Reduction to 1895.0 = −0.90

,, ,, sea level = 0.00

$\delta = 4°\ 28'.3$

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 28th 12h 5m	14	52° 45′.4	Sinzyō	Katō
,, ,, 19 30	13	,, 44.8	Tanakadate	Sinzyō
,, 29th 10 26	13	,, 48.2	Sinzyō	Tanakadate
Mean		52° 46′.1		

$\theta = 52°\ 46'.1$

Reduction to 1895.0 = 0.06

,, ,, sea level = 0.00

$\theta = 52°\ 46'.2$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 28th 14h 0m	0.28314	432.81	24°.8C	5.9540 s	25°.1C	6°36′10″.0	14°59′ 4″.4	24°.6C	Katō / Tanakadate	Tanakadate / Katō
,, ,, 20 55	0.28349	434.46	21.2	5.9385	21.3	6 37 21.3	15 2 2.5	21.0	Sinzyō / Tanakadate	,, / Sinzyō
,, 29th 8 24	0.28333	434.49	20.8	5.9397	20.9	6 37 45.0	15 3 13.8	20.7	,, / Sinzyō	,, / Tanakadate
,, ,, 11 31	0.28337	433.57	24.3	5.9460	24.4	6 36 36.3	15 0 17.5	24.3	,,	,,
Mean	0.28334									

$H = 0.28334$

Reduction to 1895.0 = − 40

,, ,, sea level = 00

$H = 0.28334$

Kamaisi Syuttyō (釜石出張)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 28th —	*0.28373	434.47	21.9C	5.9356 s	21.9C	—	—	—	Katō	Tanakadate

180. KESENNUMA.

Motomatigawara (元町河原)

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 31st 14h 33.6m	5° 2′ 36″	Sinzyō	Katō
,, ,, 15 42.0	,, 0 48	,,	,,
,, ,, 16 38.6	,, 0 5	Tanakadate	Sinzyō
,, ,, 17 39.4	4 59 12	Katō	Katō
,, ,, 18 44.1	,, 59 4	,,	,,
,, ,, 19 25.0	,, 59 4	,,	Sinzyō
,, ,, 21 3.5	,, 59 24	Tanakadate	Tanakadate
,, ,, 22 7.4	,, 59 35	,,	,,
,, ,, 23 47.9	,, 58 47	,,	,,
Aug. 1st 1 49.4	,, 57 31	,,	,,
,, ,, 4 10.5	,, 56 39	,,	,,
,, ,, 5 45.2	,, 54 54	,,	,,
,, ,, 6 39.0	,, 54 4	,,	,,
,, ,, 8 8.4	,, 55 55	,,	Sinzyō
,, ,, 9 5.6	,, 56 34	,,	Katō
,, ,, 9 45.2	,, 57 41	,,	,,
,, ,, 10 45.7	,, 59 6	Katō	Sinzyō
,, ,, 11 42.8	5 0 16	Sinzyō	Katō
,, ,, 12 31.9	,, 1 37	,,	,,
,, ,, 13 24.8	,, 3 0	,,	,,
,, ,, 14 29.7	,, 3 10	Tanakadate	Tanakadate
,, ,, 15 27.9	,, 2 19	,,	,,
,, ,, 16 32.5	,, 0 59	,,	Katō
,, ,, 17 36.4	,, 0 10	Katō	Tanakadate
,, ,, 18 57.5	4 59 43	,,	,,
,, ,, 19 51.7	,, 59 42	,,	,,
,, 2nd 13 45.2	5 1 53	Tanakadate	Katō
,, 3rd 15 53.2	,, 0 23	,,	Tanakadate
,, ,, 18 36.1	4 59 59	,,	,,
,, ,, 20 15.9	5 0 35	,,	,,
,, 4th 13 10.5	,, 3 40	,,	,,
,, ,, 13 58.1	,, 2 59	,,	,,
Mean	4° 58′ 39″		

$\delta = 4°\ 58'.65$

Reduction to 1895.0 = −0.88

,, ,, sea level = 0.00

$\delta = 4°\ 57'.8$

DIP (θ)

Observations of the North Party, 1895.

Date and Hour Mean Local Time.	Needle No.	θ	Observer	Recorder
July 31st 16h 14m	13	52° 22′.4	Katō	Sinzyō
Aug. 1st 10 22	14	,, 22.0	Sinzyō	Katō
,, ,, 18 21	14	,, 20.0	Tanakadate	,,
Mean		52° 21′.5		

$\theta = 52°\ 21'.5$

Reduction to 1895.0 = 0.06

,, ,, sea level = 0.00

$\theta = 52°\ 21'.6$

HORIZONTAL INTENSITY.

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 31st 20h 30m	0.28430	434.65	20°9C	5.9299 s	21°4C	6°36′ 8″8	14°58′38″1	20.4C	Sinzyō / Katō	Katō / Sinzyō
Aug. „ 8 40	0.28388	435.27	21.2	5.9290	21.4	6 36 44.4	14 59 21.9	21.1	Tanakadate / Katō	Katō / Tanakadate
„ „ 8 58	0.28409	434.84	21.5	5.9290	21.4	6 36 17.5	14 58 51.9	21.6	Katō / Tanakadate	Katō / Tanakadate
„ „ 14 2	0.28413	434.07	22.2	5.9343	22.2	6 35 45.6	14 57 55.0	22.2	Katō / Tanakadate	Tanakadate / Katō
Mean	0.28410									

	$H=$	0.28410
Reduction to	1895.0 =	−75
„ „	sea level =	00
	$H=$	0.28409

Kesennuma Syuttyō (氣仙沼出張)

Observations of the North Party, 1895.

(1) (字内ノ脇河原)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 12st 18h 34m	14	52° 24′9	Tanakadate	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July. 31st 17h 33m	*0.28395	435.27	20°0C	5.9277 s	20°0C	—	—	—	Sinzyō	Tanakadate
„ „ 17 50	*0.28379	435.36	19.5	5.9289	19.5	—	—	—	Tanakadate	Sinzyō
Mean	0.28387									

(2) (横町山)

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 1st 7h 3m	*0.28423	435.36	19°5C	5.9243 s	19°5C	—	—	—	Katō	Sinzyō

181. ISINOMAKI.

Kadonowaki coast (門脇後町海濱)

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Aug. 6th 7h 59.8m	4° 54′ 48	Tanakadate	Katō
„ „ 9 0.5	„ 57 52	„	„
„ „ 10 2.3	5 1 22	Katō	Tanakadate
„ „ 10 59.1	„ 3 13	Tanakadate	Katō
„ „ 11 40.4	„ 3 20	„	Tanakadate
„ „ 12 47.2	„ 3 19	Sinzyō	„
	To be continued		

Continued

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 6th 13h 53.4m	5° 2′ 2″	Sinzyō	Tanakadate
,, ,, 14 43.0	,, 1 45	,,	Sinzyō
,, ,, 15 24.0	,, 1 40	,,	,,
,, ,, 16 15.5	,, 0 40	,,	,,
,, ,, 17 23.1	4 59 0	,,	,,
,, ,, 18 20.2	,, 58 45	Tanakadate	,,
,, ,, 19 29.8	,, 59 20	,,	,,
,, ,, 20 50.8	,, 59 24	Sinzyō	,,
,, ,, 22 7.5	,, 58 53	,,	,,
,, ,, 23 51.0	,, 58 57	,,	,,
,, 7th 3 12.7	,, 58 25	Tanakadate	Tanakadate
,, ,, 5 25.8	,, 57 15	,,	,,
,, ,, 6 12.2	,, 55 3	,,	,,
,, ,, 7 6.4	,, 53 13	,,	,,
,, ,, 7 42.6	,, 52 22	Sinzyō	Sinzyō
,, ,, 8 20.4	,, 52 40	,,	,,
Mean	4° 59′ 4″		

δ = 4° 59′07
Reduction to 1895.0 = −0.86
,, ,, sea level = 0.00
δ = 4° 58′2

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 6th 9h 40m	14	51° 47′7	Katō	Tanakadate
,, ,, 13 24	13	,, 46.1	Sinzyō	,,
,, ,, 20 16	14	,, 45.9	,,	Sinzyō
Mean		51° 46′6		

θ = 51° 46′5
Reduction to 1895.0 = 0.0
,, ,, sea level = 0.0
θ = 51° 46′6

HORIZONTAL INTENSITY (*H*)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 6th 8h 40m	0.28773	435.00	21°8C	5.89 0	21°5C	6°31′22″5	14°47′31″3	22°1C	Katō / Tanakadate	Tanakadate / Katō
,, ,, 12 20	0.28802	432.20	28.9	5.9089	29.7	6 28 53.8	14 42 12.5	28.2	,, / Katō	,, / Tanakadate
,, ,, 15 54	*0.28598	433.99	24.1	5.9157	24.1	—	—	—	,, / Sinzyō	,, / ,,
,, ,, 19 6	0.28794	434.68	21 9	5.8919	22.3	6 31 12.5	14 47 22.5	21.4	Tanakadate	Sinzyō
M2an	0.28742									

H = 0.28742
Reduction to 1895.0 = −107
,, ,, sea level = 000
H = 0.28741

Isinomaki Syuttyō (石巻出張)

Observations of the North Party, 1895.

(1) **Hiyoriyama** (日和山)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 6th 16h 37m	13	51° 44′3	Tanakadate	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 6th 15h 34m	*0.28732	433.99	24°.1C	5.9019 s	24°.1C	—	—	—	Tanakadate	Tanakadate

(2) **Station, 1887** (舊郵便局裏ノット觀測點)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 7th 10h 19m	14	51° 43′.8	Sinzyō	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 7th 9h 19m	*0.28888	433.58	25°.4C	5.8887 s	25°.4C	—	—	—	Tanakadate	Sinzyō

(3) **Yamadorihama** (金華山ノ對岸山鳥濱)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 12th 7h 42m	13	51° 41′.2	Sinzyō	Tatibara
,, ,, 16 54	,,	,, 46.4	,,	Sinzyo
Mean		51° 43′.8		

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflection. φ_1	Mean Deflection. φ_2	Temp. t_D	Observer	Recorder
Sept. 12th 7h 5m	*0.28419	432.50	22°.8C	5.9444 s	22°.8C	—	—	—	Tatibara	Sinzyō

(4) **Top of Mt. Kinkwa** (金華山ノ絕頂)

Date and Honr (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 12th 12h 54m	14	51° 46′.4	Sinzyō	Tatibara

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflection. φ_1	Mean Deflection. φ_2	Temp. t_D	Observer	Recorder
Sept. 12th 11h 35m	*0.28358	432.55	22°.7C	5.9504 s	22°.7C	—	—	—	Tatibara	Sinzyō

182. IKUSAZAWA.

Onikōbemura, Ikusazawa (鬼首村字戰澤)

DIP. (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 8h 18h 3m	14	53° 10′.5	Sinzyō	Tanakadate

	θ = 53°	10′.5
Reduction to	1895.0 =	0.3.3
,, ,,	sea level =	0.00
	θ = 53°	10′.9

HORIZONTAL INTENSITY (H)
(* *Value deduced from Vibration only by assuming Value of M.*)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 8^{h} 17^{h} 33^{m}	*0.28262	433.54	24°8C	5.9539^{s}	24°8C	—	—	—	Tanakadate	Sinzyō

H= 0.28262
Reduction to 1895.0= −210
„ „ sea level= 536
H= 0.28265

183. SIMOINNAI.

South shore of Riv. Omono (御物川ノ南岸字田用橋)

DECLINATION (δ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 9^{h} 20^{h} 5.5^{m}	5° 26′ 57″	Tanakadate	Katō
„ „ 22 11.4	„ 25 31	Katō	„
„ „ 23 3.6	„ 25 10	„	„
„ 10th 0 53.2	„ 23 39	„	„
„ „ 1 44.4	„ 22 52	„	„
„ „ 4 4.0	„ 21 49	„	„
„ „ 5 22.6	„ 20 11	„	„
„ „ 6 40.1	„ 17 29	„	„
„ „ 8 6.9	„ 19 12	Tanakadate	Sinzyō
„ „ 9 14.7	„ 22 9	Sinzyō	Tanakadate
„ „ 10 12.5	„ 24 14	„	Sinzyō
„ „ 10 35.0	„ 26 45	„	„
„ „ 11 37.1	„ 30 5	„	„
„ „ 12 29.5	„ 30 49	„	Tanakadate
„ „ 13 43.2	„ 29 34	Katō	Katō
„ „ 14 39.8	„ 27 23	Sinzyō	„
„ „ 16 25.0	„ 25 54	Katō	„
„ „ 17 31.4	„ 26 34	„	„
„ „ 18 20.4	„ 25 36	Sinzyō	„
„ „ 19 47.0	„ 25 28	Katō	„
„ „ 20 52.8	„ 22 10	Sinzyō	Sinzyō
„ „ 21 24.4	„ 23 46	„	„
„ „ 22 50.2	„ 24 47	„	„
„ „ 23 41.0	„ 23 55	„	„
„ 11th 0 42.1	„ 23 41	„	„
„ „ 2 19.1	„ 26 1	„	„
„ „ 4 1.6	„ 23 47	„	„
„ „ 5 26.6	„ 23 10	„	„
Mean	5° 24′ 42″		

δ=5° 24′.70
Reduction to 1895.0= −1.11
„ „ sea level= −0.02
δ=5° 23′.6

DIP (θ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 10th 8^{h} 50^{m}	13	52° 56′.0	Tanakadate	Sinzyō
„ „ 11 28	—	„ 51.5	„	Tanakadate
„ „ 14 17	13	„ 59.0	Katō	Katō
„ „ 15 29	14	53 0.4	Sinzyō	Sinzyō
Mean		52° 56′.7		

θ=52° 56′.7
Reduction to 1895.0= 0.55
„ „ sea level= 0.00
θ=52° 57′.3

HORIZONTAL INTENSITY (H)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 10th 7h 44m	0.28189	433.13	25°8C	5.9632	25°3C	6°37′37″5	15° 1′58″8	26°3C	Katō / Tanakadate	Tanakadate / Sinzyō
„ „ 13 8	0.28198	431.49	30.3	5.9762	30.8	6 36 40.0	15 0 26.9	29.8	Katō / Sinzyō	„ / Katō
„ „ 19 16	0.28169	432.32	27.1	5.9733	27.5	6 37 43.8	15 2 41.3	26.8	„ / Katō	„ / Sinzyō
Mean	0.28185									

H = 0.28185
Reduction to 1895.0 = −251
„ „ sea level = 243
H = 0.28185

Simoinnai Syuttyō (下院内出張)

Observations of the North Party, 1895.

(1) **Stasion, 1887** (村役場裏ノツト測點)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 10th 17h 56m	14	52° 56′0	Sinzyō	Sinzyō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 10th — —	*0.28357	430.63	32°7C	5.9645	32°7C	—	—	—	Sinzyō	Sinzyō

(2) (下院内後町)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 11th 8h 13m	13	52° 59′4	Sinzyō	Sinzyō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observar	Recorder
Aug. 11th 7h 57m	*0.28321	432.31	27°6C	5.9564	27°6C	—	—	—	Sinzyō	Sinzyō

184. YOKOTE.

Hatiman-zinsya (八幡村八幡神社)

DECLINATION (δ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug 11th 15h 18.4m	5° 28′ 15″	Tanakadate	Katō
„ „ 15 59.4	„ 27 26	Sinzyō	„
„ „ 17 47.7	„ 24 56	„	„
„ „ 18 50.4	„ 25 5	„	„
„ „ 21 6.6	„ 25 32	Tanakadate	Tanakadate
„ „ 22 16.8	„ 25 16	„	„
„ „ 23 33.7	„ 25 15	„	„
„ 12th 1 43.3	„ 25 15	„	„
„ „ 4 47.4	„ 24 44	„	„
„ „ 5 59.0	„ 23 50	„	„
„ „ 6 57.0	„ 23 11	„	„
„ „ 8 23.9	„ 23 10	„	Katō
„ „ 9 38.7	„ 23 38	Katō	„
„ „ 10 41.0	„ 26 4	„	„
„ „ 11 41.8	„ 27 41	„	„
„ „ 12 43.8	„ 28 48	„	„
„ „ 13 42.8	„ 29 10	„	„
„ „ 15 7.8	„ 28 40	„	„
Mean	5° 25′ 37″		

δ = 5° 25′62
Reduction to 1895.0 = −1.15
„ „ sea level = −0.01
δ = 5° 24′5

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 11th 17h 13m	14	53° 2′4	Tanakadate	Katō
„ 12th 9 10	14	52 59.7	Katō	„
„ „ 14 3.3	13	53 0.7	Tanakadate	Tanakadate
Mean		53° 0′9		

	θ = 53°	0′9
Reduction to	1895.0 =	0.61
„ „	sea level =	0.00
	θ = 53°	1′5

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 11th 18h 24m	0.28415	430.80	31°3C	5.9593	32°2C	6°33′ 0′′0	14°51′47′′5	30°5C	Katō Sinzyō	Sinzyō Katō
„ 12th 7 57	0.28426	432.99	26.0	5.9380	25.1	6 34 8.1	14 54 8.8	27.0	Sinzyō Tanakadate	Tanakadate Katō
„ „ 13 20	0.28434	430.13	35.3	5.9616	36.0	6 31 55.0	14 49 13.8	34.6	„ Katō	„ Tanakadate
Mean	0.28425									

	H =	0.28425
Reduction to	1895.0 =	−240
„ „	sea level =	82
	H =	0.28423

Yokote Syuttyō (横手出張)

Observations of the North Party. 1895.

Garden of Kosakaya (小坂屋庭前)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 12th 0h 13m	14	53° 5′2	Katō	Katō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 12 h 22h 26m	*0.28367	433 75	23°8C	5.9415	23°8C	—	—	—	Sinzyō	Katō
„ „ 22 37	*0.28370	433.78	23.7	5.9409	23.7	—	—	—	Katō	Sinzyō
Mean	0.28369									

185. KAKUDATE.

Nakagawamura (中川村)

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 13th 4h 3.2m	4° 38′ 29′′	Katō	Katō
„ „ 6 2.1	„ 37 42	„	„
„ „ 6 53.9	„ 36 26	„	Tanakadate
„ „ 8 4.9	„ 35 45	Tanakadate	Sinzyō
„ „ 8 39.0	„ 36 0	Sinzyō	Tanakadate
„ „ 9 30.3	„ 36 32	„	„
„ „ 10 36.6	„ 38 51	„	„
„ „ 12 4.7	„ 41 50	Tanakadate	„
„ „ 13 28.1	„ 42 44	„	„
	To be continued		

Continued

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 13th 14h 45.5m	4° 41′ 35″	Sinzyō	Sinzyō
,, ,, 15 33.4	,, 40 22	,,	,,
,, ,, 17 10 6	,, 33 50	,,	,,
,, ,, 18 7.3	,, 38 7	,,	,,
,, ,, 19 37.9	,, 37 51	Tanakadata	,,
,, ,, 21 23.3	,, 37 51	Sinzyō	Sinzyō
,, ,, 23 17.4	,, 38 17	,,	,,
,, 14th 0 18.5	,, 38 11	,,	,,
,, ,, 3 36.7	,, 38 19	,,	,,
,, ,, 4 36.3	,, 39 0	,,	,,
,, ,, 5 41.2	,, 38 7	Tanakadate	Tanakadate
Mean	4° 38′ 40″		

δ = 4° 38′67
Reduction to 1895.0 = −1.23
,, ,, sea level = 0.00
δ = 4° 37′4

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 13th 9h 9m	13	53° 22′2	Tanakadate	Sinzyō
,, ,, 12 56	14	,, 17.2	Sinzyō	Tanakadate
,, ,, 20 49	14	,, 19.5	,,	,,
Mean		53° 19′6		

θ = 53° 19′6
Reduction to 1895.0 = 0.67
,, ,, sea level = 0.00
θ = 53° 20′3

HORIZONTAL INTENSITY (*H*)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 13th 7h 41m	0.28242	432.72	25°4C	5.9617	25°4C	6°37′ 0″0	15° 1′ 2″5	25°5C	Tanakadate / Sinzyō	Sinzyō / Tanakadate
,, ,, 14 9	0.28260	431.77	28.8	5.9683	29.5	6 36 2.5	14 58 50.0	28.2	Tanakakate / Katō	Katō / Tanakadate
,, ,, 19 4	0.28215	432.01	26.0	5.9709	23.6	6 36 52.5	15 0 41.3	25.4	Sinzyō / Tanakadate	,,
Mean	0.28239									

H = 0.28239
Reduction to 1895.0 = −245
,, ,, sea level = 55
H = 0.28237

Kakudate Syuttyō (角館出張)

Observations of the North Party, 1895.

(1) **Kakudate Simonokawara** (角館下ノ河原)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 13th 16h 38m	14	51° 2′1	Tanakadate	Tanakakate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observar	Recorder
Aug. 13th 15h 57m	*0.28281	431.13	29°8C	5.9688 s	29°8C	—	—	—	Katō	Tanakadate

(2) (中川村鰍瀬河々岸)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 14th 6h 9m	14	54° 11′4	Sinzyō	Sinzyō

186. KARIWANO.

Station, 1887 at Hotel Hatamura (旅宿畑村屋舊測點)

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time)	H	θ	Observer	Recorder
Aug. 14th 13h 29m	13	53° 20′9	Tanakadate	Sinzyō

$\theta = 53°\ 20'9$

Reduction to 1895.0 = 1.07

„ „ sea level = 0.00

$\theta = 53°\ 22'0$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 14th 12h 45m	*0.28353	431.31	29°8C	5.9600 s	29°8C	—	—	—	Sinzyō	Tanakadate
„ „ 13 14	*0.28341	431.27	29.9	5.9615	29.9	—	—	—	Tanakadate	Sinzyō
Mean	0.28347									

$H = 0.28347$

Reduction to 1895.0 = −271

„ „ sea level = 41

$H = 0.28345$

187. AKITA.

Site of old castle (舊城趾内小學校運動場)

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 14th 20h 30.3m	5° 24′ 15″	Sinzyō	Katō
„ „ 21 8.8	„ 23 46	Tanakadate	„
„ „ 23 31.8	„ 23 14	„	Tanakadate
„ 15th 1 3.7	„ 23 12	„	„
„ „ 4 23.7	„ 22 32	„	„
„ „ 5 36.9	„ 21 17	„	„
„ „ 6 38.2	„ 20 37	„	„
„ „ 7 15.7	„ 20 36	„	„
„ „ 8 23.3	„ 21 22	Sinzyō	Katō
„ „ 9 25.0	„ 21 39	Katō	Sinzyō
„ „ 10 35.3	„ 24 36	„	Katō
„ „ 11 27.2	„ 25 40	„	„
„ „ 12 16.4	„ 26 41	Sinzyō	„
„ „ 13 28.3	„ 26 26	„	„

To be continued

Continued

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 15th 14h 27.8m	5° 25′ 32″	Katō	Katō
,, ,, 15 43.2	,, 24 18	,,	,,
,, ,, 17 34.4	,, 22 56	Sinzyō	Sinzyō
,, ,, 18 4.2	,, 22 46	,,	,,
,, ,, 19 21.8	,, 23 18	,,	,,
,, ,, 20 4.7	,, 23 22	,,	,,
,, ,, 21 50.0	,, 22 26	,,	,,
,, ,, 23 37.5	,, 22 19	,,	,,
,, 16th 2 16.1	,, 22 24	,,	,,
,, ,, 3 26.8	,, 22 7	,,	,,
,, ,, 4 47.2	,, 21 34	,,	,,
,, ,, 5 37.9	,, 21 14	,,	,,
Mean	5° 23′ 13″		

$\delta = 5° 23'.22$
Reduction to 1895.0 = −1.30
,, ,, sea level = 0.00
$\delta = 5° 21'.9$

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 15th 9h 0m	13	53° 36′.0	Sinzyō	Katō
,, ,, 16 55	13	,, 33.0	Katō	,,
,, 16th 4 8	14	,, 29.5	Sinzyō	Sinzyō
Mean		53° 32′.8		

$\theta = 53° 32'.8$
Reduction to 1895.0 = 0.93
,, ,, sea level = 0.00
$\theta = 53° 33'.8$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 15th 8h 1m	0.28319	433.33	25.0 C	5.9495 s	25.1 C	6°36′18″.8	14°59′ 8″.8	25.0C	Sinzyō / Katō	Katō / Sinzyō
,, ,, 13 4	0.28292	430.50	32.7	5.9748	33.8	6 34 17.5	14 54 31.3	31.7	,, / Sinzyō	,, / Katō
,, ,, 18 17	0.28292	431.61	28.8	5.9667	29.8	6 35 18.8	14 56 48.8	27.9	Katō / Sinzyō	Sinzyō / Katō
Mean	0.28301									

$H = 0.28301$
Reduction to 1895.0 = −.322
,, ,, sea level = .000
$H = 0.28298$

Akita Syuttyō (秋田出張)

Observations of the North Party, 1895.

(1) **Old castle.** (舊城趾)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 15th 10h 56m	13	53° 30′.6	Sinzyō	Sinzō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 15th 10h 15m	*0.28295	432.13	27.9 C	5.9604 s	27.9C	—	—	—	Katō	Sinzyō

(2) **Akita Meteorological Observatory** (秋田測候所)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 15th 15h 19m	13	53° 33′1	Sinzyō ,,	Sinzyō ,,

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 15th 14h 28m	*0.28313	431.61	29°5C	5.9621	29°5C	—	—	—	Tanakadate	Sinzyō
,, ,, 14 44	*0.28319	431.08	31.0	5.9652	31.0	—	—	—	Sinzyō	Tanakadate
Mean										

(3) (蒼城趾内小學校運動場.本莊ヨリ能代ニ至ル途中ニ立寄リ觀測ス)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 18th 7h 41m	14	53° 32′9	Katō	Katō

188. HONZYŌ.

Daisenziyama (大 仙 寺 山)

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 16th 17h 6.1m	5° 15′ 0″	Tanakadate	Sinzyō
,, ,, 17 34.9	,, 14 48	,,	,,
,, ,, 18 41.9	,, 13 49	Sinzyō	,,
,, ,, 20 16.8	,, 15 5	Tanakadate	,,
,, ,, 21 21.6	,, 14 48	,,	Tanakadate
,, ,, 22 33.9	,, 14 43	,,	,,
,, 17th 2 28.3	,, 14 44	,,	,,
,, ,, 4 42.1	,, 14 3	,,	,,
,, ,, 6 12.7	,, 12 10	,,	,,
,, ,, 7 10.0	,, 11 29	Sinzyō	,,
,, ,, 8 11.7	,, 11 14	,,	,,
,, ,, 9 42.9	,, 14 12	,,	Sinzyō
,, ,, 10 47.2	,, 16 29	,,	,,
,, ,, 11 48.6	,, 18 6	,,	,,
,, ,, 12 31.1	,, 18 33	,,	,,
,, ,, 13 44.6	,, 18 18	Tanakadate	,,
,, ,, 15 37.5	,, 16 28	,,	,,
,, ,, 16 38.6	,, 15 20	,,	,,
,, ,, 17 20.6	,, 14 47	,,	,,
Mean	5° 14′ 54″		

$\delta = 5°\ 14'.90$

Reduction to 1895.0 = −1.24

,, ,, sea level = 0.00

$\delta = 5°\ 13'.7$

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 16th 20h 10m	14	53° 17′.1	Sinzyō	Sinzyō
,, 17th 9 2	13	,, 19.7	,,	,,
,, ,, 14 56	14	,, 15.0	Tanakadate	Tanakadate
Mean		53° 17′.3		

$\theta = 53°\ 17'.31$

Reduction to 1895.0 = 0.81

,, ,, sea level = 0.00

$\theta = 53°\ 18'.1$

HORIZONTAL INTENSITY (H)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 16th 18h 12m	0.28265	431.35	28°4C	5.9692	28°5C	6°35′24″4	14°57′22″5	28°2C	Tanakadate / Sinzyō	Sinzyō / Tanakadate
„ 17th 7 45	0.28241	433.19	22.9	5.9577	22.7	6 37 15.0	15 1 21.3	23.1	„ / Tanakadate	„ / Sinzyō
„ „ 13 23	0.28308	430.31	33.1	5.9744	34.1	6 34 5.0	14 54 21.3	32.1	„	„
Mean	0.28271									

$H = 0.28271$
Reduction to 1895.0 = −312
„ „ sea level = 00
$H = 0.28268$

Honzyō Syuttyō (本荘出張)

Observations of the North Party, 1895.

(1) Old castle (舊城趾)

Date and Hour (Mean Local Time).	Needle No.	θ	Observer	Recorder
Aug. 17th 11h 52h	13	53° 22′0	Tanakadate	Tanakadate

Date and Hour (Mean Local Time)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 17th 11h 6m	*0.28308	430.74	30°8C	5.9687	30°8C	—	—	—	Tanakadate	Tanakadate

(2) (石ノ久)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 17th 17h 17m	14	53° 16′1	Sinzyō	Siuzyō

189. NŌSIRO.

Usiroyati (後谷地)

DECLINATION (δ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 18th 20h 2 5m	5° 51′ 34″	Tanakadate	Sinzyō
„ „ 21 8.9	„ 51 28	„	Katō
„ „ 21 40.8	„ 51 11	„	„
„ „ 23 0.6	„ 50 58	„	„
„ 19th 1 1.0	„ 50 6	Katō	„
„ „ 2 12.9	„ 48 24	„	„
„ „ 4 42.8	„ 48 1	„	„
„ „ 6 12.8	„ 46 47	„	„
„ „ 6 59.7	„ 45 47	„	Tanakadate
„ „ 8 13.0	„ 45 54	Tanakadate	Sinzyō
„ „ 9 33.1	„ 48 54	Sinzyō	„
„ „ 10 30.5	„ 50 57	„	„
„ „ 11 32.9	„ 53 51	„	„
„ „ 12 24.2	„ 55 3	„	„
„ „ 13 1.9	„ 54 57	„	„
„ „ 14 6.0	„ 54 6	Tanakadate	Tanakadate
„ „ 15 19.9	„ 53 29	„	„
„ „ 16 6.8	„ 52 47	„	„
„ „ 17 12.2	„ 51 42	„	Sinzyō
„ „ 18 19 8	„ 51 5	Sinzyō	Tanakadate
„ „ 20 12.8	„ 50 36	„	„
„ 4th 22 14.9	„ 50 57	„	Sinzyō
Mean	5° 50′ 23″		

$\delta = 5°\ 50′38$
Reduction to 1895.0 = 1.47
„ „ sea level = 0.00
$\delta = 5°\ 48′9$

DIP (θ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 19th 8h 57m	13	54° 16′.1	Sinzyō	Tanakadate
,, ,, 19 23	13	,, 15.9	Tanakadate	,,
,, ,, 21 19	14	,, 13.4	,,	,,
Mean		54° 15′.1		

θ = 54° 15′.1
Reduction to 1895.0 = 1.13
,, ,, sea level = 0.00
θ = 54° 16′.2

HORIZONTAL INTENSITY (H)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 19th 7h 50m	0.27910	432.28	24°.7C	5.9993 s	24°.4C	6°41′16′.3	15°11′ 0′.0	25°.0C	Sinzyō / Tanakadate	Tanakadate / Sinzyō
,, ,, 13 23	0.27948	430.32	32.4	6.0112	32.8	6 39 2.5	15 5 55.0	32.0	,,	Katō
,, ,, 13 40	0.27965	430.55	32.5	6.0080	33.0	6 39 2.5	15 5 55.0	32.0	,,	,,
,, ,, 17 46	0.27918	431.23	28.5	6.0087	29.2	6 40 25.0	15 8 55.0	27.8	,,	,,
Mean	0.27935									

H = 0.27935
Reduction to 1895.0 = −343
,, ,, sea level = 00
H = 0.27932

Nōsiro Syuttyō (能 代 出 張)

(1) **Usiroyati** (後 谷 地)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 19th 11h 25m	13	54° 25′.0	Tanakadate	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflection φ_1	Mean Deflection φ_2	Temp. t_D	Observer	Recorder
Aug. 19th — —	*0.27798	431.46	28°.3C	6.0182 s	28°.3C	—	—	—	Tanakadate	Tanakadate

(2) **Station, 1887** (ノツト観測點)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 19th 15h 29m	13	54° 10′.9	Sinzyō	Sinzyō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t.	Maan Deflection φ_1	Maan Deflection φ_2	Temp. t_D	Observer	Recorver
Aug 19th 14h 54m	*0.27921	430.71	30°.5C	6.0104 s	30°.5C	—	—	—	Katō	Sinzyō

190. ODATE.

(上川沿村字根下戸牧場)

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)				δ			Observer	Recorder
Aug.	20th	17h	23.0m	5°	37′	49″	Tanakadate	Katō
,,	,,	18	11.7	,,	38	0	,,	Sinzyō
,,	,,	19	40.2	,,	38	32	Sinzyō	Kato
,,	,,	21	37.2	,,	38	9	,,	Tanakadate
,,	,,	22	34.6	,,	38	4	,,	Sinzyō
,,	21st	1	36.1	,,	36	40	,,	,,
,,	,,	4	31.4	,,	34	49	,,	,,
,,	,,	5	39.8	,,	33	39	,,	,,
,,	,,	6	26.3	,,	32	32	,,	,,
,,	,,	7	0.4	,,	31	59	,,	,,
,,	,,	8	14.6	,,	32	59	Tanakadate	Katō
,,	,,	9	26.4	,,	35	21	Katō	,,
,,	,,	10	24.6	,,	38	5	,,	,,
,,	,,	11	27.3	,,	40	47	,,	,,
,,	,,	12	17.5	,,	41	36	,,	,,
,,	,,	13	26.0	,,	41	7	,,	Sinzyō
,,	,,	15	9.3	,,	39	31	Sinzyō	,,
,,	,,	16	27.5	,,	37	40	,,	,,
,,	,,	17	2.5	,,	37	1	,,	,,
Mean				5°	37′	10″		

$\delta = 5°\ 37'.17$

Reduction to 1895.0 = −1.44

,, ,, sea level = −0.01

$\delta = 5°\ 35'.7$

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)				Needle No.	θ		Observer	Recorder
Aug.	20th	20h	53m	13	54°	2′.3	Tanakadate	Katō
,,	21st	8	54	13	,,	3.5	Katō	,,
,,	,,	14	25	14	,,	0.4	Sinzyō	Sinzyō
Mean					54°	2′.1		

$\theta = 54°\ 2'.1$

Reduction to 1895.0 = 1.02

,, ,, sea level = 0.00

$\theta = 54°\ 3'.1$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)				H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections. φ_1	Mean Deflections. φ_2	Temp. t_D	Observer	Recorder
Aug.	20th	19h	13m	0.27918	432.65	24°.0C	5.9963 s	23°.9C	6°41′26″.9	15°11′10″.0	24°.1C	Katō / Sinzyō	Sinzyō / Katō
,,	21	7	53	0.27942	432.77	25.6	5.9923	25.2	6 41 7.5	15 10 30.0	26.0	Katō / Tanakadate	Tanakadate / Katō
,,	,,	13	31	0.27937	429.92	33.0	6.0139	32.9	6 38 28.8	15 4 22.5	33.1	Sinzyō / Katō	,, / Sinzyō
Mean				0.27932									

$H = 0.27932$

Reduction to 1895.0 = −283

,, ,, sea level = 110

$H = 0.27930$

Ōdate Syuttyō (大館出張)

Observations of the North Party, 1895.

(1) **Station, 1887** (花園旅舘裏ノツト觀測點)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 21st 17h 0m	14	53° 57′8	Katō	Katō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 21st 6h 30m	*0.27821	433.98	20°.4C	s 5.9977	20°.4C	—	—	—	Tanakadate	Sinzyō

(2) (下川濟字片山村天神堂)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 21st 9h 41m	13	54° 5′4	Tanakadate	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 21st 10h 42m	*0.27906	431.48	28°.6C	s 6.0064	28°.6C	—	—	—	Tanakadate	Tanakadate

191. HIROSAKI.

Old castle (弘前舊城三ノ丸内)

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour. (Mean Local Time.)	δ	Observer	Recorder
Aug. 22nd 12h 11.8m	5° 33′ 2″	Tanakadate	Katō
,, ,, 13 23.7	,, 32 57	Katō	Sinzyō
,, ,, 14 48.1	,, 30 4	Tanakadate	,,
,, ,, 15 41.0	,, 29 23	,,	Tanakadate
,, ,, 16 57.9	,, 28 58	,,	,,
,, ,, 17 41.0	,, 29 6	,,	Katō
,, ,, 18 48.5	,, 29 24	,,	,,
,, ,, 20 17.7	,, 29 41	,,	,,
,, ,, 21 32.9	,, 29 40	,,	,,
,, ,, 23 1.0	,, 29 26	,,	,,
,, 23rd 1 51.6	,, 27 58	,,	,,
,, ,, 4 35.1	,, 27 8	,,	,,
,, ,, 6 14.4	,, 25 56	,,	,,
,, ,, 7 29.0	,, 25 23	,,	,,
,, ,, 8 19.6	,, 25 19	,,	,,
,, ,, 9 50.0	,, 28 2	,,	,,
,, ,, 10 54.1	,, 30 21	,,	,,
,, ,, 11 47.8	,, 31 33	,,	,,
,, ,, 12 31.4	,, 32 25	,,	,,
Mean	5° 28′ 45″		

$\delta = 5°\ 28'.75$

Reduction to 1895.0 = −1.54

,, ,, sea level = −0.01

$\delta = 5°\ 27'.2$

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 22nd 14h 16m	13	54° 13′2	Sinzyō	Tanakadate
,, ,, 19 41	13	,, 14.4	Katō	Katō
,, 23rd 9 26	13	,, 14.4	Tanakadate	Tanakadate
Mean		54° 14′0		

$\theta = 54° 14′0$

Reduction to 1895.0 = 1.15

,, ,, sea level = 0.00

$\theta = 54° 15′2$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 22nd 13h 1m	0.27998	429.75	34°7C	s 6.0103	35°2C	6°37′38″8	15′ 2′26″3	34°1C	Sinzyō / Tanakadate	Tanakadate / Sinzyō
,, ,, 18 23	0.27949	431.97	26.2	5.9988	26.5	6 40 18.8	15 8 20.0	26.0	Katō / Tanakadate	Tanakadate / Katō
,, 23rd 7 56	0.27957	431.59	28.3	5.9988	27.7	6 39 40.0	15 7 2.5	28.8	,, / Katō	,, / Tanakadate
Mean	0.27968									

$H = 0.27968$

Reduction to 1895.0 = −297

,, ,, sea level = 83

$H = 0.27966$

Hirosaki Syuttyō (弘前出張)

Observations of the North Party, 1895.

(1) **Station, 1887** (旅籠石塚久藏裏園ノツト觀測點)

Date and Hour (Mean Local Time.)	Needle No	θ	Observer	Recorder
Aug. 22nd 16h 45m	13	54° 15′5	Sinzyō	Katō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 22nd 15h 55m	*0.27925	431.13	29°6C	s 6.0069	29°6C	—	—	--	Katō	Sinzyō
,, ,, 16 13	*0.27924	431.29	29.2	6.0059	29.2	—	—	—	Sinzyō	Katō
Mean	0.27925									

(2) (舊城大手門內竹藪)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 23rd 11h 24m	13	54° 12′1	Katō	Katō

Date and Hour (Mean Local Time)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 23rd 10h 52m	*0.27970	430.29	32°4C	s 6.0080	32.4C	—	—	—	Katō	Katō

192. ADIGASAWA.

Wrestling ground (鯵ヶ澤神社角力場)

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 24th 12h 32.9m	5° 37′ 44″	Tanakadate	Katō
,, ,, 13 57.1	,, 37 8	,,	,,
,, ,, 14 21.3	,, 37 9	,,	Tanakadate
,, ,, 15 27.2	,, 36 4	,,	Sinzyō
,, ,, 16 21.1	,, 34 39	Katō	,,
,, ,, 17 23.0	,, 34 0	,,	Tanakadate
,, ,, 18 28.1	,, 34 8	Sinzyō	,,
,, ,, 19 51.3	,, 34 8	,,	Sinzyō
,, ,, 22 4.9	,, 34 40	,,	,,
,, ,, 23 14.8	,, 34 14	,,	,,
,, 25th 1 32.7	,, 33 56	,,	,,
,, ,, 4 44.4	,, 33 33	,,	,,
,, ,, 6 52.3	,, 31 44	,,	,,
,, ,, 8 1.99	,, 31 33	Tanakadate	Katō
,, ,, 9 16.7	,, 33 43	,,	,,
,, ,, 10 46.2	,, 37 11	,,	Tanakadate
,, ,, 11 44.2	,, 38 6	,,	,,
,, ,, 12 23.2	,, 37 54	,,	Sinzyō
Mean	5° 34′ 30″		

$\delta = 5°\ 34'.50$

Reduction to 1895.0 = −1.63

,, ,, sea level = 0.00

$\delta = 5°\ 32'.9$

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 24th 14h 50m	13	54° 45′.2	Katō	Tanakadate
,, ,, 19 11	13	,, 46.8	Tanakadate	Katō
,, 25th 10 10	14	,, 46.5	,,	Tanakadate
Mean		54° 46′.2		

$\theta = 54°\ 46'.2$

Reduction to 1895.0 = 1.29

,, ,, sea level = 0.00

$\theta = 54°\ 47'.5$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 24th 13h 34m	0.27790	430.49	29°.6 C	6.0253 s	29°.4 C	6°41′12″.5	15°10′46″.3	29°.8 C	Sinzyō, Tanakadate	Tanakadate, Sinzyō
,, ,, 18 3	0.27820	430.53	28.7	6.0239	29.3	6 41 58.8	15 12 23.8	28.1	Tanakakate	Katō
,, 25th 7 54	0.27701	431.50	24.7	6.0277	24.5	6 43 28.8	15 15 50.6	24.9	Katō, Tanakadate	Tanakadate, Katō
,, ,, 8 32	0.27739	431.83	25.4	6.0232	26.0	6 43 28.8	15 15 50.6	24.9	Katō, Tanakadate	Tanakadate, Katō
Mean	0.27763									

$H = 0.27763$

Reduction to 1895.0 = −388

,, ,, sea level = 00

$H = 0.27760$

Adigasawa Syuttyō (鯵ヶ澤出張)

Observations of the North Party, 1895.

(1) (本町一丁目後方山上ノ松原)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 24th 8h 44m	13	54° 43′.7	Sinzyō	Katō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 24th 8h 15m	*0.27900	430.70	28°.7C	s 6.0124	28°.7C	—	—	—	Tanakadate	Katō

(2) **Maitomura** (舞戸村字富田海岸)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 24th 10h 21m	13	54° 47′.7	Sinzyō	Katō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 24th 9h 54m	*0.27841	430.21	30°.1C	s 6.0224	30°.1C	—	—	—	Tanakadate	Katō

193. IPPONGI.

DECLINATION (δ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 26th 19h 49.8m	5° 42′ 0″	Tanakadate	Sinzyō
,, ,, 20 37.5	,, 41 43	,,	,,
,, ,, 21 56.2	,, 41 46	Katō	Katō
,, ,, 22 48.9	,, 41 49	,,	,,
,, 27th 0 33.0	,, 41 35	,,	,,
,, ,, 2 44.6	,, 40 29	,,	,,
,, ,, 4 20.7	,, 39 58	,,	,,
,, ,, 5 51.6	,, 38 59	,,	,,
,, ,, 7 10.0	,, 38 35	,,	,,
,, ,, 7 50.4	,, 37 49	Sinzyō	Tanakadate
,, ,, 9 7.5	,, 38 28	,,	,,
,, ,, 10 20.9	,, 41 19	Tanakadate	Sinzyō
,, ,, 11 22.3	,, 43 59	,,	,,
,, ,, 12 33.3	,, 45 47	,,	,,
,, ,, 13 52.6	,, 45 17	Katō	,,
,, ,, 14 44.6	,, 44 41	,,	Katō
,, ,, 16 26.7	,, 43 5	Sinzyō	,,
,, ,, 17 28.7	,, 41 59	Katō	Sinzyō
,, ,, 19 21.8	,, 42 2	Tanakadate	Katō
,, ,, 20 34.5	,, 41 37	,,	,,
Mean	5° 41′ 38″		

	$\delta = 5°\ 41'.63$
Reduction to 1895.0 =	−1.71
,, ,, sea level =	0.00
	$\delta = 5°\ 39'.9$

DIP (θ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 27th 9h 54m	13	55° 16′.8	Sinzyō	Tanakadate
,, ,, 12 6	13	,, 16.7	Tanakadate	,,
,, ,, 18 41	14	,, 16.3	Katō	,,
Mean		55° 16′.6		

	$\theta = 55°\ 16'.6$
Reduction to 1895.0 =	1.37
,, ,, sea level =	0.00
	$\theta = 55°\ 18.0$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 27th 8h 36m	0.27524	432.08	24°7C	6.0440	24°9C	6°46′56″3	15°24′.5″6	24°5C	Tanakadate	Sinzyō
„ „ 13 28	0.27526	431.39	27.0	6.0450	27.3	6 46 6.3	15 21 58.8	26.7	Sinzyō / Katō	Katō / Sinzyō
„ „ 20 8	0.27532	432.56	21.6	6.0400	21.9	6 47 19.4	15 24 55.0	21.4	„ / Tanakadate	Tanakadate / Katō
Mean	0.27527									

H = 0.27527

Reduction to 1895.0 = −293

„ „ sea level = 00

H = 0.27524

Ippongi Syuttyō (一本木出張)

Observations of the North Party, 1895.

Imabetu Hatiman (今別八幡社前)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 27th 14h 34m	13	55° 13′0	Sinzyō	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 27th 15h 1m	*0.27543	431.64	25°5C	s 6.0444	25°5C	—	—	—	Tanakadate	Sinzyō / „

194. ŌMA.

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Aug. 28th 20h 19.0m	6° 22′ 31″	Sinzyō	Katō
„ „ 21 56.5	„ 22 18	„	„
„ „ 22 4.1	„ 22 37	„	„
„ 29th 0 9.1	„ 22 14	„	„
„ „ 2 9.3	„ 21 47	„	„
„ „ 4 48.1	„ 20 55	Tanakadate	Tanakadate
„ „ 5 44.7	„ 19 47	„	„
„ „ 7 4.5	„ 19 10	„	„
„ „ 8 15.7	„ 19 47	Katō	Sinzyō
„ „ 9 26.0	„ 21 58	„	„
„ „ 10 30.8	„ 24 44	„	Katō
„ „ 11 25.8	„ 25 50	„	„
„ „ 12 6.0	„ 25 39	„	„
„ „ 13 36.0	„ 24 45	Tanakadate	Sinzyō
„ „ 14 49.6	„ 23 29	„	Tanakadate
„ „ 15 15.6	„ 22 59	„	Katō
„ „ 17 24.9	„ 22 24	Katō	Tanakadate
„ „ 18 38.6	„ 22 46	„	„
„ „ 20 31.0	„ 23 1	„	„
Mean	6° 22′ 21″		

δ = 6° 22′35

Reduction to 1895.0 = −1.75

„ „ sea level = 0.00

δ = 6° 20′6

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 29th 9h 0m	13	55° 28′8	Sinzyō	Katō
„ „ 14 18	13	„ 25.4	Tanakadate	Sinzyō
„ „ 19 42	13	„ 26.4	Katō	Tanakadate
Mean		55° 26′9		

	θ =	55° 26′9
Reduction to	1895.0 =	1.38
„	„ sea level =	0.00
	θ =	55° 28′3

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 29th 7h 49m	0.27055	432.56	22°1C	6.0928 s	22°3C	6°54′21″3	15°41′ 0″6	22°0C	Katō / Sinzyō	Sinyzō / Katō
„ „ 13 8	0.27112	432.12	23.0	6.0907	23.6	6 53 23.8	15 39 6.2	22.5	Tanakadate / Katō	„ / Tanakadate
„ „ 18 10	0.27110	432.62	22.4	6.0860	22.5	6 53 33.1	15 39 11.3	22.3	„ / Tanakadate	„ / Katō
Mean	0.27092									

	H =	0.27092
Reduction to	1895.0 =	−260
„	„ sea level =	00
	H =	0.27089

Ōma Syuttyō (大間出張)

Observations of the North Party, 1895.

(1)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 29th 12h 1m	13	55° 6′2	Sinzyō	Sinzyō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 29th 11h 12m	*0.27346	432.40	22°6C	6.0009 s	22°6C	—	—	—	Sinzyō	Sinzyō
„ „ 11 26	*0.27303	432.45	22.5	6.0055	22.5	—	—	—	„	„
Mean	0.27325									

(2) **Ōma Zizōdō (大間地藏堂)**

Date and Hour (Mean Local Time)	Needle No.	θ	Observer	Recorder
Aug. 29th 15h 38m	13	55° 32′2	Katō	Katō

Date and Hour (Mean Locnl Time)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ	Mean Deflections φ_2	Temp. t_D	Observer	Recordor
Aug. 29th 15h 7m	*0.27085	432.51	22°3C	6.0893 s	22°3C	—	—	—	Sinzyō	Katō

195. TANABU.

（下北都御料地大字田名部字内田四十二號ノ一）

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 31st 1h 4.0m	6° 13′ 31″	Sinzyō	Sinzyō
,, ,, 1 16.8	,, 13 44	,,	,,
,, ,, 2 58.7	,, 12 4	,,	,,
,, ,, 5 49.3	,, 11 11	,,	,,
,, ,, 6 50.9	,, 10 36	,,	,,
,, ,, 8 27.6	,, 10 50	Tanakadate	Katō
,, ,, 9 43.9	,, 13 6	Katō	Tanakadate
,, ,, 10 45.1	,, 15 29	Tanakadate	Katō
,, ,, 11 48.2	,, 16 27	,,	,,
,, ,, 13 12.0	,, 16 42	,,	Sinzyō
,, ,, 14 37.2	,, 16 55	,,	,,
,, ,, 15 26.2	,, 16 29	,,	Tanakadate
,, ,, 17 23.3	,, 14 42	,,	,,
,, ,, 18 16.0	,, 14 37	,,	Sinzyō
,, ,, 19 30.7	,, 14 19	,,	,,
,, ,, 21 4.0	,, 14 11	,,	,,
,, ,, 22 48.4	,, 13 52	,,	,,
Sept. 1st 1 48.5	,, 13 1	,,	,,
,, ,, 5 40.2	,, 11 24	,,	,,
Mean	6° 13′ 55″		

$\delta = 6°\ 13'.92$

Reduction to 1895.0 = −1.66

,, ,, sea level = 0.00

$\delta = 6°\ 12'.3$

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 31st 9h 12m	13	55° 8′.4	Katō	Tanakadate
,, ,, 14 14	13	,, 6.5	Tanakadate	Sinzyō
,, ,, 20 25	13	,, 8.8	Sinzyō	,,
Mean		55° 7′.9		

$\theta = 55°\ 7'.9$

Reduction to 1895.0 = 1.19

,, ,, sea level = 0.00

$\theta = 55°\ 9'.1$

HORIZONTAL INTENSITY (H)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 31st 8h 3m	0.27539	433.30	21°.5C	s 6.0331	21°.4C	6°47′29″.4	15°24′51″.9	21°.6C	Tanakadate / Katō	Katō / Tanakadate
,, ,, 12 46	0.27535	431.03	25.7	6.0497	25.6	6 45 33.8	15 20 46.2	25.7	,, / Tanakadate	,, / Sinzyō
,, ,, 19 3	0.27551	432.65	21.0	6.0380	21.6	6 47 10.0	15 24 25.0	20.5	,,	,,
Mean	0.27542									

$H = 0.27542$

Reduction to 1895.0 = −202

,, ,, sea level = 00

$H = 0.27540$

Tanabu Syuttyō （田名部出張）

Observations of the North Party, 1895.

(1) （内田四十二號ノ一）

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 31st 16h 55m	13	55° 21′.4	Sinzyō	Sinzyō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 31st 15h 52m	*0.27450	431.41	26°5C	s 6.0564	26°5C	—	—	—	Sinzyō	Sinzyō
„ „ 16 8	*0.27394	431.51	26.2	6.0620	26.2	—	—	—	„	„
Mean	0.27422									

(2) (内田四拾二號ノ一)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer.	Recorder
Sept. 1st 8h 39m	13	55° 11′8	Tanakadate	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 1st 6h 41m	*0.27438	432.66	22°8C	s 6.0489	22°8C	—	—	—	Sinzyō	Sinzyō

196. MAKADO.

Aza Toriitai (字 鳥 居 平)

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 2nd 14h 23.2m	5° 55′ 34″	Sinzyō	Sinzyō
„ „ 15 14.5	„ 54 48	„	„
„ „ 16 40.2	„ 53 7	„	„
„ „ 17 39.3	„ 53 2	„	Tanakadate
„ „ 19 0.5	„ 53 23	„	„
„ „ 20 28.8	„ 53 34	Katō	Katō
„ „ 21 39.2	„ 53 29	„	„
„ 3rd 0 37.9	„ 53 1	„	„
„ „ 2 52.6	„ 52 23	„	„
„ „ 5 11.9	„ 51 55	„	„
„ „ 6 47.3	„ 49 18	„	„
„ „ 8 13.3	„ 49 48	Sinzyō	Sinzyō
„ „ 9 38.3	„ 52 18	„	„
„ „ 10 23.9	„ 53 57	„	„
„ „ 11 28.3	„ 55 42	„	„
„ „ 12 32.9	„ 56 35	Katō	Katō
„ „ 13 35.5	„ 57 1	„	Sinzyō
„ „ 14 22.2	„ 56 44	Sinzyō	Katō
„ „ 15 3.3	„ 55 54	Katō	Sinzyō
Mean	5° 53′ 13″		

$\delta = 5°\ 53'22$

Reduction to 1895.0 = −1.60

„ „ sea level = −0.01

$\delta = 5°\ 51'6$

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 2nd 9h 6m	13	54° 42′6	Tanakadate	Katō
„ „ 19 49	13	„ 40.4	Katō	„
„ 3rd 9 5	—	„ 43 2	Sinzyō	Sinzyō
Mean		54° 42′1		

$\theta = 54°\ 42'1$

Reduction to 1895.0 = 1.14

„ „ sea level = 0.01

$\delta = 54°\ 43'3$

HORIZONTAL INTENSITY (H)

(** Value deduced from Vibration only by assuming Value of M.*)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 2nd 9th 53m	*0.27699	431.94	23°9C	6.0253 s	23°9C	—	—	—	Katō	Tanakadate
„ „ 10 3	*0.27663	431.79	24.3	6.0303	24.3	—	—	—	„	„
„ „ 18 33	0.27705	432.51	21.5	6.0211	21.8	6 44 42.5	15 18 52.5	21.3	Tanakadate, Sinzyō	Sinzyō, Tanakadate
„ 3rd 7 51	0.27697	433.39	20.6	6.0159	20.9	6 45 27.5	15 20 15.0	20.4	„, Tanakadate	„, Sinzyō
„ „ 13 15	0.27698	430.96	26.8	6.0341	27.5	6 43 23.8	15 15 50.0	26.2	Sinzyō, Katō	Katō, Sinzyō
Mean	0.27692									

H = 0.27692

Reduction to 1895.0 = −211

„ „ sea level = 140

H = 0.27691

Makado Syuttyō (馬門出張)

Observations of the North Party, 1895.

(1) **Hurukawa coast** (野邊地古川海岸)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 2nd 11h 30m	13	54° 34′8	Tanakadate, „	Katō, „

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 2nd 11h 57m	*0.27734	431.90	24°0C	6.0217 s	24°0C	—	—	—	Katō	Tanakadate

(2) **Toriitai** (鳥居平)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 2nd 14h 23m	13	54° 37′5	Tanakadate, „	Katō, „

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 2nd 12h 44m	*0.27705	431.38	25.4C	6.0287 s	25°4C	—	—	—	Katō	Tanakadate

(3) **Siraiwa** (野邊地字白岩河原)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 2nd 16h 39m	13	54° 27′8	Tanakadate	Katō

Date and Honr (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 2nd 16h 3m	*0.27699	432.17	23°3C	6.0237 s	25°3C	—	—	—	Katō	Tanakadate

(4) **Toriitai** (字鳥居平海岸)

Date and Hour (Mean Local Time)	Needle No.	θ	Observer	Recorder
Sept. 3rd 12h 11m	13	54° 38′7	Sinzyō	Sinzyō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 3rd 10h 57m	*0.27668	430.06	28°8C	s 6.0421	28°8C	—	—	—	Sinzyō	Sinzyō
„ „ 11 12	*0.27601	430.04	28.8	6.0431	28.8	—	—	—	„	„
Mean	0.27635									

(5) **Syōkonsya** (招魂社前)

Date and Hour (Mean Local Time)	Needle No.	θ	Observer	Recorder
Sept. 3rd 16h 6m	13	54° 31′8	Sinzyō	Sinzyō

(6) **Station, 1887** (本町仙臺屋安田彦兵衛方ノヅト觀測點)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 3rd 17h 41m	13	54° 32′3	Sinzyō	Katō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 3rd 17h 11m	0.27736	431.51	25°0C	s 6.0244	25°0C	—	—	—	Katō	Sinzyō

197. AOMORI.

Okidate (Obama) (瀧内村大字沖舘字小濱五十三番)

DECLINATION (δ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Sept. 3rd 22h 49.7m	5° 29′ 52″	Sinzyō	Tanakadate
„ „ 23 52.9	„ 29 35	„	Sinzyō
„ 4th 0 35.4	„ 29 10	„	„
„ „ 2 37.9	„ 28 8	„	„
„ „ 5 1.0	„ 28 19	„	„
„ „ 5 41.6	„ 27 25	„	„
„ „ 6 31.3	„ 25 57	„	„
„ „ 7 48 5	„ 25 14	Tanakadate	Tanakadate
„ „ 8 30.5	„ 25 31	„	„
„ „ 9 42.5	„ 27 24	„	„
„ „ 10 54.4	„ 29 37	„	„
„ „ 11 37.7	„ 31 39	„	„
„ „ 12 24.1	„ 33 14	„	„
„ „ 13 0.1	„ 34 42	„	Sinzyō
„ „ 14 13.8	„ 33 53	„	„
„ „ 15 15.4	„ 32 28	Sinzyō	„
„ „ 16 31.3	„ 32 16	„	„
„ „ 17 29.1	„ 31 27	Tanakadate	Tanakadate
„ „ 18 9.9	„ 32 7	„	Sinzyō
„ „ 19 20.9	„ 31 39	„	„
„ „ 20 49.9	„ 30 28	Sinzyō	„
„ „ 21 37.3	„ 30 32	Tanakadate	Tanakadate
„ „ 22 53.0	„ 30 28	„	„
„ 5th 0 31.6	„ 29 20	„	„
„ „ 4 58.4	„ 30 47	„	„
	To be continued		

Continued

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 5th 5h 29.8m	5° 31′ 2″	Tanakadate	Tanakadate
,, ,, 7 17.3	,, 30 22	,,	,,
,, ,, 9 1.3	,, 32 20	Sinzyō	Sinzyō
,, ,, 9 38.4	,, 33 57	,,	,,
,, ,, 11 5.4	,, 36 4	,,	,,
,, ,, 12 39.1	,, 37 50	,,	Tanakadate
,, ,, 14 41.6	,, 35 53	Tanakadate	Sinzyō
,, ,, 16 9.7	,, 33 30	,,	,,
,, ,, 18 4 7	,, 27 29	,,	Tanakadate
,, ,, 18 57.6	,, 29 52	,,	,,
Mean	5° 29′ 58″		

δ = 5° 29′.97
Reduction to 1895.0 = −1.66
,, ,, sea level = 0.00
δ = 5° 28′.3

DIP (θ)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 4th 14h 52m	13	54° 52′.5	Tanakadate	Sinzyō
,, ,, 20 13	13	,, 56.6	Sinzyō	,,
,, 5th 8 16	14	,, 54.9	,,	,,
,, ,, 9 58	13	,, 56.4	,,	,,
,, ,, 11 50	13	,, 59.1	,,	,,
,, ,, 15 38	13	,, 55.3	Tanakadate	,,
Mean		54° 55′.8		

θ = 54° 55′.3
Reduction to 1895.0 = 1.22
,, ,, sea level = 0.0
θ = 54° 57′.5

HORIZONTAL INTENSITY (*H*)

Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 4th 7h 22m	0.27745	432.30	23°.6C	s 6.0164	23°.1C	6°43′26″.2	15°15′39″.4	24°.1C	Tanakadate / Sinzyō	Sinzyō / Tanakadate
,, ,, 13 51	0.27739	429.49	31.2	6.0393	31.5	6 41 13.8	15 10 54.4	30.9	,, / Tanakadate	,, / Sinzyō
,, ,, 18 56	0.27657	431.45	25.6	6.0339	25.8	6 44 11.2	15 17 30.0	25.5	,, / Sinzyō	,, / Tanakadate
Mean	0.27714									

H = 0.27714
Reduction to 1895.0 = −.281
,, ,, sea level = .00
H = 0.27711

Aomori Syuttyō (青森出張)

Observations of the North Party, 1895.

(1) **Near Okidate-inari** (沖舘稲荷社近傍)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 4th 17h 46m	13	54° 58′.8	Sinzyō	Sinzyō

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 5th 18h 21m	0.27650	432.16	24°.0C	s 6.0294	24°.0C	—	—	—	Sinzyō	Tanakadate

(2) Near the Road (蟹田街道附近)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 5th 17h 25m	13	54° 55′8	Tanakadate	Sinzyō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 5th 16h 56m	*0.27679	431.49	25°8C	6.0308 s	25°8C	—	—	—	Sinzyō	Tanakadate

(3) Easte bank of the River Tutumi (堤川東岸)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 6th 8h 32m	13	54° 49′2	Tanakadate	Sinzyō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 6th 7h 52m	*0.27782	431.76	25°1C	6.0176 s	25°1C	—	—	—	Sinzyō	Tanakadate
„ „ 8 5	*0.27792	431.63	25.4	6.0175	25.4	—	—	—	Tanakadate	Sinzyō
Mean	0.27787									

198. FUKAYA.

Tenrikyōkwai (天理教會構內)

DECLINATION (δ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
June. 28th 9h 18.3m	4° 30′ 47″	Imamura	Tamaru
„ „ 9 43.5	„ 31 28	„	„
„ „ 10 40.0	„ 34 6	„	„
„ „ 11 34.0	„ 36 25	„	Nakamura
„ „ 12 26.3	„ 39 6	„	Tamaru
„ „ 13 25.1	„ 40 26	Nakamura	Nakamura
„ „ 14 19.8	„ 40 31	Imamura	„
„ „ 15 15.6	„ 39 58	Tamaru	Tamaru, Nakamura
„ „ 16 1.9	„ 38 28	Imamura	Imamura
„ „ 17 2.8	„ 36 43	Nakamura	Nakamura
„ „ 17 51.8	„ 35 8	„	„
„ „ 18 57.3	„ 34 28	„	„
„ „ 19 51.6	„ 35 34	„	„
„ „ 22 5.8	„ 35 34	„, Imamura	Tamaru
„ „ 22 57.7	„ 35 32	Nakamura	Imamura
„ 29th 2 30.3	„ 35 21	Tamaru	Tamaru
„ „ 4 57.5	„ 32 11	„	„
„ „ 5 44.6	„ 31 31	„	Imamura
„ „ 6 50.3	„ 29 24	Nakamura	Nakamura
„ „ 7 34.3	„ 30 15	„	„
„ „ 8 48.9	„ 31 45	Tamaru	Imamuru
Mean	4° 35′ 7″		

	$\delta = 4°\ 35'.12$
Reduction to 1895.0 =	−0.51
„ „ sea level =	0.00
	$\delta = 4°\ 34'.6$

DIP (θ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder.
June 28th 11h 18m	1	49° 58′1	Imamura	Tamaru
„ „ 14 43	1	„ 52.9	Nakamura	Imamura
„ „ 18 7	1	„ 51.6	Imamura	Nakamura
„ „ 21 21	1	„ 57.1	Nakamura	„
„ 29th 8 0	1	„ 52.2	„	„
Mean		49° 54′4		

$\theta = 49° 54′4$

Reduction to 1895.0 = −0.97

„ „ sea level = 0.00

$\theta = 49° 53′4$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
June 28th 10h 20m	0.29576	435.29	25°5C	5.8538	25°3C	6°20′22″5	14°28′ 3″1	25°7C	Imamura	Tamaru
„ „ 14 2	0.29584	434.15	29.0	5.8651	29.3	6 19 30.0	14 26 16.3	28.7	Nakamura	Imamura
„ „ 17 30	0.29580	434.34	27.4	5.8668	28.0	6 20 3.1	14 27 26.2	26.9	Imamura	Nakamura
„ „ 22 37	0.29576	436.30	22.5	6.8493	22.2	6 21 19.4	14 30 15.6	22.7	Nakamura	Imamura
„ 29th 8 33	0.29621	437.62	18.5	5.8356	18.1	6 22 6.9	14 32 25.0	18.9	Imamura	Nakamura
Mean	0.29583									

$H = 0.29583$

Reduction to 1895.0 = −282

„ „ sea level = 51

$H = 0.29581$

199. SAKURA.

Parade graund (陸軍練兵場)

DECLINATION (δ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 2nd 16h 45.6m	4° 22′ 55″	Tamaru	Imamura
„ „ 17 57.0	„ 21 12	Imamura	„
„ „ 19 25.3	„ 21 9	„	„
„ „ 20 47.1	„ 21 54	Tamaru	Tamaru
„ „ 22 13.3	„ 21 11	Nakamura	Imamura
„ „ 23 12.4	„ 20 55	Tamaru	Tamaru
„ 3rd 4 36.8	„ 19 47	„	„
„ „ 5 45.2	„ 20 5	„	„
„ „ 8 2.8	„ 18 29	„	„
„ „ 9 22.0	„ 18 58	Nakamura	Imamura
„ „ 10 6.4	„ 21 20	Imamura	Nakamura
„ „ 11 4.1	„ 23 42	Nakamura	Imamura
„ „ 12 4.0	„ 24 43	„	„
„ „ 13 18.5	„ 25 22	„	Nakamura
„ „ 13 53.0	„ 25 47	Imamura	Imamura
„ „ 14 55.3	„ 25 8	„	Nakamura
„ „ 16 2.1	„ 23 25	„	„
„ „ 17 9.1	„ 22 13	„	Imamura
Mean	4° 21′ 38″		

$\delta = 4° 21′63$

Reduction to 1895.0 = −0.41

„ „ sea level = 0.00

$\delta = 4° 21′2$

DIP (θ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 2nd 17h 41m	1	49° 9′5	Nakamura	Imamura
„ „ 21 32	2	„ 6.1	Tamaru	„
„ 3rd 8 43	1	„ 8.8	Imamura	Nakamura
„ „ 15 29	1	„ 9.8	Nakamura	Imamura
Mean		49° 8′6		„

$\theta = 49° \ 8'6$
Reduction to 1895.0 = −0.50
„ „ sea level = 0.00
$\theta = 49° \ 8'1$

HORIZONTAL INTENSITY (H)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 2nd 22h 43m	0.29761	435.59	20°4C	5.8369 s	20°5C	6°19′33″0	14°26′29″0	20.4C	Nakamura	Imamura
„ 3rd 10 40	0.29723	434.61	26.3	5.8475	26.4	6 17 56.9	14 22 23.1	26.2	Imamura	Nakamura
„ „ 14 17	0.29729	434.31	26.2	5.8487	26.2	6 17 43.8	14 22 7.5	26.2	Nakamura	Imamura
„ „ 19 44	0.29739	435.62	23.6	5.8383	23.4	6 18 33.1	14 23 43.8	23.8	Imamura	Nakamura
Mean	0.29738									

$H = 0.29738$
Reduction to 1895.0 = −175
„ „ sea level = 38
$H = 0.29737$

200. SAWARA.

Araku Hudō (アラクノ不動内)

DECLINATION (δ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 4th 22h 23.1m	4° 22′ 58″	Imamura	Imamura
„ 5th 2 51.8	„ 23 58	„	„
„ „ 4 45.0	„ 23 34	„	„
„ „ 6 26.9	„ 21 6	„	„
„ „ 7 36.0	„ 21 4	Tamaru	Tamaru
„ „ 9 42.8	„ 18 58	Nakamura	Imamura
„ „ 11 40.9	„ 28 47	„	Nakamura
„ „ 12 34.4	„ 29 42	Tamaru	„
„ „ 14 1.5	„ 30 34	Nakamura	Tamaru
„ „ 15 3.6	„ 28 54	„	Nakamura
„ „ 16 12.7	„ 26 46	Imamura	„
„ „ 16 33.5	„ 25 21	„	„
„ „ 16 47.6	„ 25 26	„	„
„ „ 17 0.0	„ 25 39	„	„
„ „ 18 5.0	„ 24 24	Nakamura	„
„ „ 19 13.0	„ 24 16	„	„
„ „ 20 4.8	„ 24 37	Tamaru	Tamaru
„ „ 22 14.4	„ 24 33	Nakamura	„
„ „ 23 0.8	„ 24 31	„	Nakamura
„ 6th 3 12 2	„ 23 27	Tamaru	Tamaru
„ „ 6 9.1	„ 20 48	„	„
„ „ 6 52.8	„ 19 58	„	„
„ „ 7 59.6	„ 18 55	„	„
„ „ 9 2.6	„ 20 9	Nakamura	Nakamura
Mean	4° 24′ 32″		

$\delta = 4° \ 24'1$
Reduction to 1895.0 = −0.40
„ „ sea level = 0.00
$\delta = 4° \ 24'1$

DIP (θ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 5th 7h 15m	—	49° 15′3	Imamura	Imamura
,, ,, 16 13	—	,, 17.8	Tamaru	Nakamura
,, ,, 18 56	—	,, 17.4	Nakamura	,,
,, ,, 22 39	—	,, 17.0	,,	Tamaru, Nakamura
,, 6th 9 3	—	,, 19.1	,,	,,
Mean		49° 17′3		

$\theta = 49° 17'3$
Reduction to 1895.0 = −0.61
,, ,, sea level = 0.00
$\theta = 49° 16'7$

HORIZONTAL INTENSITY (H)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 4th 23h 16m	0.29682	434.30	23°7 C	5.8528	23°5C	6°18′ 5″0	14°22′36″9	24°0C	Nakamura	Tamaru
,, 5th 14 43	0.29689	433.90	27.3	5.8564	27.7	6 17 58.1	14 22 33.2	23.9	Tamaru	Nakamura
,, ,, 17 27	0.29639	433 63	27.0	5.8628	27.2	6 18 13.8	14 23 8.1	23.8	Imamura	,,
,, ,, 21 54	0.29657	434.87	24 0	5.8531	24.6	6 19 13.8	14 25 20.6	23.4	Tamaru	,,
,, 6th 9 58	0.29645	433.81	28.7	5.8611	29.0	6 18 4.0	14 22 22.0	28.5	Nakamura	Tamaru
Mean	0.29662									

$H = 0.29662$
Reduction to 1895.0 = −137
,, ,, sea level = 13
$H = 0.29661$

201. TYŌSI.

Wakamiya Hatiman (若宮八幡宮)

DECLINATION (δ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 7th 1h 14.8m	4° 13′ 33″	Nakamura	Nakamura
,, ,, 4 53.0	,, 11 20	,,	,,
,, ,, 5 8.4	,, 11 4	,,	,,
,, ,, 6 17.8	,, 10 33	,,	,,
,, ,, 7 4.5	,, 9 49	Tamaru	Tamaru
,, ,, 8 1.1	,, 10 10	,,	,,
,, ,, 9 23.3	,, 12 0	,,	Nakamura
,, ,, 10 39.2	,, 16 15	,,	,,
,, ,, 11 17.9	,, 16 45	Nakamura	,,
,, ,, 11 52.1	,, 17 51	Tamaru	Tamaru
,, ,, 13 23.0	,, 18 54	Nakamura	,,
,, ,, 14 26.1	,, 18 22	Imamura	Imamura
,, ,, 15 29.7	,, 16 49	,,	,,
,, ,, 16 23.3	,, 14 46	,,	,,
,, ,, 17 35.6	,, 13 11	,,	Nakamura
,, ,, 18 46.8	,, 12 40	Tamaru	Imamura
,, ,, 21 16.0	,, 13 25	Nakamura	Tamaru
,, ,, 22 35.4	,, 13 15	,,	Imamura
,, ,, 23 34.0	,, 13 26	,,	Nakamura
Mean	4° 13′ 47″		

$\delta = 4° 13'78$
Reduction to 1895.0 = −0.33
,, ,, sea level = 0.00
$\delta = 4° 13'4$

DIP (θ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 7th 5h 58m	—	49° 1′4	Nakamura	Nakamura
„ „ 9 58	—	48 52.9	Tamaru	Tamaru
„ „ 16 1	1	„ 56.0	Imamura	Imamura
„ „ 18 4	1	„ 57.3	„	„
„ „ 23 14	1	„ 55.0	Nakamura	Nakamura
Mean		48° 56′5		

$\theta = 48°\ 56'5$

Reduction to 1895.0 = −0.77

„ „ sea level = 0.00

$\theta = 48°\ 55'7$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 7th 9h 1m	0.29733	433.50	28°3C	5.8518 s	27°5C	6°16′39″0	14°19′36″0	29°1C	Nakamura	Tamaru
„ „ 13 4	0.29777	432.52	31.0	5.8559	30.9	6 15 14.4	14 16 5.6	31.1	Tamaru	Nakamura
„ „ 15 7	0.29761	433.40	28.2	5.8520	28.3	6 16 25.0	14 18 55.6	28.1	Imamura	„
„ „ 17 17	0.29744	433.43	27.5	5.8544	28.1	6 16 48.1	14 19 52.5	27.0	Tamaru	Imamura
„ „ 23 14	0.29771	434.45	25.1	5.8440	25.4	6 17 17.5	14 20 54.4	24.9	Imamura / Tamaru	„ / Nakamura
Mean	0.29757									

$H = 0.29757$

Reduction to 1895.0 = −092

„ „ sea level = 0

$H = 0.29756$

202. ITINOMIYA.

North Bank of the River Itinomiya (一宮川北岸芝地)

DECLINATION (δ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 9th 12h 1.3m	4° 18′ 16″	Nakamura	Nakamura
„ „ 12 29.6	„ 19 22	„	Tamaru
„ „ 13 24.1	„ 20 36	Tamaru	Nakamura
„ „ 14 17.8	„ 20 18	Nakamura	„
„ „ 16 1.3	„ 18 0	„	Tamaru
„ „ 16 43.8	„ 17 15	„	„
„ „ 17 51.4	„ 15 25	„	„
„ „ 19 4.3	„ 15 20	Tamaru	„
„ „ 20 18.3	„ 15 26	Nakamura	„
„ „ 22 21.0	„ 15 16	Tamaru	Nakamura
„ 10th 0 7.0	„ 15 18	„	Tamaru
„ „ 5 41.6	„ 12 30	„	„
„ „ 6 22.9	„ 10 51	„	„
„ „ 6 45.9	„ 10 30	„	„
„ „ 8 26.2	„ 9 17	Nakamura	Nakamura
„ „ 9 40.6	„ 11 34	Tamaru	„
„ „ 10 55.5	„ 14 56	Nakamura	„
Mean	4° 15′ 5″		

$\delta = 4°\ 15'08$

Reduction to 1895.0 = −0.34

„ „ sea level = 0.00

$\delta = 4°\ 14'7$

DIP (θ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 9th 4h 24m	—	48° 45′1	Nakamura	Tamaru
,, ,, 20 16	—	,, 42.4	Tamaru	,, / Nakamura
,, 10th 7 54	—	,, 43.8	,,	Tamaru / Nakamura
,, ,, 9 7	—	,, 48.8	Nakamura	,,
Mean		48° 45′0		

$\theta = 48° 45′0$
Reduction to 1895.0 = −0.78
,, ,, sea level = 0.00
$\theta = 48° 44′2$

HORIZONTAL INTENSITY (H)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 9th 15h 45m	0.29768	433.44	26°9 C	5.8524 s	27°7 C	6°16′31″2	14°19′ 3″8	26°2C	Tamaru	Nakamura
,, ,, 18 37	0.29768	435.17	22.1	5.8393	22.3	6 17 55.6	14 22 14.4	21.9	Nakamura	Tamaru
,, ,, 22 57	0.29772	435.55	20.8	5.8357	20.8	6 18 16.2	14 23 10.6	20.9	,,	,,
,, 10th 10 31	0.29744	435.23	22.3	5.8406	22.3	6 18 1.2	14 22 7.5	22.3	Tamaru	Nakamura
Mean	0.29763									

$H = 0.29763$
Reduction to 1895.0 = −140
,, ,, sea level = 0
$H = 0.29762$

203. MAEBARA.

Kamogawa Gakkō (鴨川學校)

DECLINATION (δ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 11th 19h 6.0m	4° 12′ 35″	Nakamura	Nakamura
,, ,, 20 37.9	,, 12 24	Tamaru	Tamaru
,, 12th 4 4.3	,, 9 17	Nakamura	Nakamura
,, ,, 5 6.8	,, 8 36	,,	,,
,, ,, 6 19.7	,, 6 52	,,	,,
,, ,, 7 6.9	,, 5 34	Tamaru	Tamaru
,, ,, 8 38.8	,, 6 47	Nakamura	,,
,, ,, 10 20.0	,, 9 17	Tamaru	,,
,, ,, 11 53.7	,, 13 58	,,	Nakamura
,, ,, 13 42.0	,, 16 48	,,	,,
,, ,, 13 53.3	,, 16 39	,,	,,
,, ,, 15 27.8	,, 15 31	,,	,,
,, ,, 17 37.2	,, 11 52	Nakamura	,,
,, ,, 19 11.1	,, 10 57	Tamaru	,, / Tamaru
,, ,, 20 13.5	,, 11 26	Nakamura	,,
,, ,, 21 36.3	,, 11 24	,,	,,
,, 13th 1 11.2	,, 11 57	Tamaru	,,
,, ,, 3 16.2	,, 11 16	,,	,,
,, ,, 6 42.0	,, 7 45	,,	,,
,, ,, 8 22.5	,, 10 16	Nakamura	Nakamura / Tamaru
Mean	4° 11′ 24″		

$\delta = 4° 11′40$
Reduction to 1865.0 = −0.33
,, ,, sea level = 0.00
$\delta = 4° 11′1$

DIP (θ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 12th 8h 14m	1	48° 17′9	Tamaru	Nakamura
,, ,, 11 5	1	,, 17.3	Nakamura	Tamaru
,, ,, 18 28	1	,, 21.6	Tamaru	,,
,, 13th 10 31	1	,, 21.9	Nakamura	Nakamura
Mean		48° 19′7		

$\theta = 48° 19'7$
Reduction to 1895.0 = −0.74
,, ,, sea level = 0.00
$\theta = 48° 19'0$

HORIZONTAL INTENSITY (H)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
July 12th 9h 56m	0.29834	435.61	21°0C	5.8292	21°0C	6°17′15″6	14°20′25″0	21°0C	Tamaru	Nakamura
,, ,, 14 55	0.29875	435.28	22.2	5.8276	22.2	6 16 29.4	14 18 43.8	22.2	Nakamura	Tamaru
,, ,, 21 17	0.29889	435.35	20.9	5.8259	21.0	6 16 56.2	14 20 33.8	20.8	Tamaru	Nakamura
,, 13th 9 37	0.29806	434.03	25.5	5.8414	25.0	6 16 6.0	14 17 57.5	26.1	Nakamura	Tamaru
Mean	0.29851									

$H = 0.29851$
Reduction to 1895.0 = −184
,, ,, sea level = 0
$H = 0.29849$

204. KISARATU.

Kisaratu Aduma Zinsya (木更津町近郊. 吾妻神社境内)

DECLINATION (δ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 14th 13h 38.5m	4° 23′ 8″	Nakamura	Nakamura
,, ,, 14 15.9	,, 23 11	Tamaru	,,
,, ,, 15 25.4	,, 25 17	,,	,,
,, ,, 16 45.6	,, 20 18	Nakamura	Tamaru
,, ,, 17 47.8	,, 20 25	,,	,,
,, ,, 19 2.6	,, 17 50	,,	Nakamura
,, ,, 20 0.8	,, 18 14	,,	,,
,, ,, 23 10.8	,, 18 3	,,	,,
,, 15th 4 29.2	,, 16 29	,,	,,
,, ,, 5 34.8	,, 14 33	,,	,,
,, ,, 6 42.1	,, 14 6	,,	,,
,, ,, 7 34.8	,, 14 52	,,	,,
,, ,, 8 32.7	,, 16 9	Tamaru	Tamaru
,, ,, 9 51.0	,, 18 24	,,	Nakamura
,, ,, 11 18.4	,, 21 42	Nakamura	Tamaru
,, ,, 11 38.3	,, 22 1	,,	,,
,, ,, 12 52.1	,, 23 22	,,	,,
,, ,, 13 14.8	,, 23 55	,,	,,
,, ,, 13 33.7	,, 23 25	,,	,,
,, ,, 14 31.2	,, 24 21	,,	Nakamura
,, ,, 15 20.2	,, 23 14	,,	,,
,, ,, 16 30.4	,, 22 24	Tamaru	,,
Mean	4° 18′ 40″		

$\delta = 4° 18'67$
Reduction to 1895.0 = −0.39
,, ,, sea level = 0.00
$\delta = 4° 18'3$

DIP (θ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 14th 17h 20m	—	48° 42′8	Tamaru	Nakamura
,, ,, 19 40	—	,, 44.9	Nakamura	,,
,, 15th 6 20	—	,, 39.1	,,	,,
,, ,, 12 28	1	,, 37.8	Tamaru	Tamaru
,, ,, 15 2	1	,, 35.9	Nakamura	Nakamura
Mean		48° 40′1		

	$\theta = 48°\ 40'1$
Reduction to 1895.0 =	−0.64
,, ,, sea level =	0.00
	$\theta = 48°\ 39'5$

HORIZONTAL INTENSITY (H)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
July 14th 15h 5m	0.29830	433.47	28°3C	5.8472	29°4C	6°15′27″5	14°15′55″0	27°2C	Nakamura	Tamaru
,, ,, 18 42	0.29811	434.60	23.4	5.8413	24.6	6 17 24.4	14 21 22.5	22.2	Tamaru	Nakamura
,, ,, 22 41	0.29816	436.09	19.3	5.8277	19.3	6 18 4.4	14 22 31.3	19.3	Nakamura	Tamaru
,, 15th 11 0	0.29829	433.61	27.5	5.8437	27.5	6 15 39.4	14 16 58.8	27.4	Tamaru	Nakamura
,, ,, 14 7	0.29829	434.21	25.5	5.8399	25.7	6 16 7.5	14 17 53.8	25.4	Nakamura	Tamaru
Mean	0.29823									

	$H =$ 0.29823
Reduction to 1895.0 =	−202
,, ,, sea level =	0
	$H =$ 0.29821

205. MITO.

Mito Middle School (中學校構內)

DECLINATION (δ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 20th 13h 58.4m	4° 25′ 2″	Tamaru	Imamura
,, ,, 14 32.6	,, 24 26	,,	,,
,, ,, 16 3.1	,, 23 47	Imamura	Tamura
,, ,, 17 31.6	,, 22 46	Nakamura	Nakamura
,, ,, 18 33.8	,, 22 42	,,	Imamura
,, ,, 19 4.7	,, 23 34	Imamura	Tamaru
,, ,, 20 4.5	,, 23 22	,,	,,
,, ,, 20 56.9	,, 22 41	Nakamura	,,
,, ,, 21 57.6	,, 22 35	,,	Nakamura
,, ,, 23 29.3	,, 22 57	,,	,,
,, 21st 4 9.3	,, 20 23	,,	,,
,, ,, 5 52.6	,, 18 34	,,	,,
,, ,, 6 54.4	,, 18 12	,,	,,
,, ,, 8 49.5	,, 20 7	Imamura	Imamura
,, ,, 10 11.8	,, 24 53	Tamaru	Tamaru
,, ,, 11 8.7	,, 26 17	,,	,, Imamura
,, ,, 12 12.5	,, 27 24	Imamura	,,
,, ,, 13 14.7	,, 26 54	Nakamura	Nakamura
,, ,, 13 49.1	,, 25 50	,,	,,
Mean	4° 22′ 43″		

	$\delta = 4°\ 22'72$
Reduction to 1895.0 =	−0.51
,, ,, sea level =	0.00
	$\delta = 4°\ 22'2$

DIP (θ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 20th 17h 0m	1	49° 50′.4	Nakamura	Nakamura / Imamura
„ „ 20 33	1	„ 5.12	Imamura	„ / Tamaru
„ 21st 8 53	1	„ 47.2	Tamaru	„
„ „ 11 34	1	„ 53.2	Nakamura	Imamura
Mean		49° 50′.5		

	θ = 49°	50′.5
Reduction to	1895.0 =	−0.50
„ „	sea level =	0.00
	δ = 49°	50′.0

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
July 20th 16h 26m	0.29497	433.95	24°.8C	5.8749	25°.1C	6°20′32″.5	14°28′40″.0	24°.5C	Imamura	Tamaru
„ „ 19 42	0.29454	433.72	24.0	5.8797	24.0	6 20 34.4	14 28 23.6	24.0	Tamaru	Imamura
„ „ 21 30	0.29464	433.89	24.1	5.8777	24.1	6 20 41.3	14 28 47.5	24.1	Nakamura	„
„ 21st 7 54	0.29463	433.52	24.9	5.8798	24.7	6 20 13.8	14 27 37.5	25.1	Tamaru	Nakamura
Mean	0.29470									

	H =	0.29470
Reduction to	1895.0 =	−159
„ „	sea level =	13
	H =	0.29469

206. UEDA.

Ueda Gakkō (植田學校)

DECLINATION (δ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 22nd 17h 40.1m	4′ 29′ 35″	Nakamura	Tamaru
„ „ 18 11.7	„ 29 11	Tamaru	Nakamura
„ „ 19 18.3	„ 30 4	Nakamura	Tamaru
„ „ 20 8.8	„ 30 4	Imamura	Imamura
„ „ 21 16.9	„ 29 57	Tamaru	„
„ „ 22 13.9	„ 29 52	„	Tamaru
„ 23rd 5 14.0	„ 27 18	„	„
„ „ 5 48.0	„ 26 25	„	„
„ „ 7 12.8	„ 24 59	„	„
„ „ 8 35.3	„ 26 31	Nakamura	Imamura
„ „ 9 33.1	„ 30 4	Imamura	Nakamura
„ „ 10 27.5	„ 32 14	„	„
„ „ 11 34.8	„ 34 2	Nakamura	„
„ „ 12 40.4	„ 35 7	Tamaru	Tamaru
„ „ 13 33.6	„ 34 46	„	„
„ „ 14 34.9	„ 33 16	Imamura	Imamura
„ „ 15 44.4	„ 31 58	Tamaru	Tamaru
Mean	4° 30′ 12″		

	δ = 4°	30′.20
Reduction to	1895.0 =	−0.55
„ „	sea level =	0.00
	δ = 4°	29′.7

DIP (θ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 22nd 20h 45m	1	50° 23′2	Imamura	Imamura
„ 23rd 6 39	1	„ 28.1	Tamaru	Tamaru
„ „ 11 8	—	„ 23.5	Nakamura	Nakamura
„ „ 15 13	1	„ 25.2	Tamaru	Imamura
Mean		50° 25′0		

$\theta = 50°\ 25'0$

Reduction to 1895.0 = −0.45

„ „ sea level = 0.00

$\theta = 50°\ 24'5$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 22nd 18h 56m	0.29258	433.91	25°0C	5.8986 s	25°2C	6°23′30″0	14°35′25″6	24°9C	Tamaru	Nakamura
„ „ 21 46	0.29270	433.99	24.2	5.8964	24.1	6 23 31.3	14 35 41.3	24.2	Imamura	Tamaru
„ 23rd 10 3	0.29222	432.82	27.2	5.9095	27.2	6 22 54.4	14 33 58.8	27.1	Nakamura	Imamura
„ „ 14 9	0.29282	433.05	27.5	5.9011	27.2	6 22 10.0	14 32 15.6	27.8	Imamura	Nakamura
Mean	0.29258									

$H = 0.29258$

Reduction to 1895.0 = −111

„ „ sea level = 0

$H = 0.29257$

207. NAMIE.

Namie Gakkō (浪江學校)

DECLINATION (δ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 24th 20h 42.1m	4° 22′ 15″	Nakamura	Nakamura
„ „ 21 27.6	„ 23 9	Tamaru	„
„ „ 21 49.9	„ 23 13	„	Imamura
„ „ 22 50.1	„ 22 51	Nakamura	Nakamura
„ 25th 1 43.7	„ 21 51	„	„
„ „ 5 10.8	„ 20 28	„	„
„ „ 6 4.8	„ 18 58	„	„
„ „ 7 11.5	„ 17 21	„	„
„ „ 8 25.3	„ 18 8	Imamura	Tamaru
„ „ 9 30.0	„ 20 16	Tamaru	„
„ „ 10 39.2	„ 22 11	Imamura	Imamura
„ „ 11 45.9	„ 25 8	„	„
„ „ 12 37.4	„ 26 25	Nakamura	Nakamura
„ „ 13 35.0	„ 26 53	Imamura	Tamaru
„ „ 15 20.3	„ 24 11	Nakamura	Imamura
„ „ 15 55.8	„ 23 21	Imamura	„
„ „ 17 15.4	„ 21 43	Tamaru	Tamaru
„ „ 17 44.7	„ 21 19	Nakamura	„
„ „ 18 54.3	„ 21 24	Tamaru	Nakamura
„ „ 19 54.1	„ 21 36	Nakamura	„
Mean	4° 22′ 7″		

$\delta = 4°\ 22'12$

Reduction to 1895.0 = −0.63

„ „ sea level = 0.00

$\delta = 4°\ 21'5$

DIP (θ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 25th 6h 34m	—	50° 58′3	Nakamura	Nakamura
„ „ 11 23	1	„ 58.5	Imamura	Imamura
„ „ 16 28	1	„ 59.3	Tamaru	Tamaru
„ „ 20 35	1	„ 57.1	Nakamura	Imamura
Mean		50° 58′3		

	$\theta = 50°\ 58'3$
Reduction to 1895.0 =	−0.28
„ „ sea level =	0.00
	$\theta = 50°\ 58'0$

HORIZONTAL INTENSITY (H)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 24th 22h 30m	0.29328	433.79	24°8C	5.8918 s	24°7C	6°22′21″2	14°32′40″6	24°8C	Imamura	Nakamura
„ 25th 8 9	0.29331	434.25	23.5	5.8880	23.2	6 22 50.6	14 34 3.8	23.7	„	Tamaru
„ „ 15 0	0.29331	433.60	24.7	5.8932	24.7	6 22 15.6	14 32 34.4	24.6	Tamaru	Imamura
„ „ 18 24	0.29327	434.23	23.7	5.8890	23.6	6 22 41.9	14 33 22.5	23.8	Nakamura	Tamaru
Mean	0.29329									

	$H =$ 0.29329
Reduction to 1895.0 =	−112
„ „ sea level =	0
	$H =$ 0.29328

208. WATARI.

Watari Common School (亘理小學校)

DECLINATION (δ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 27th 13h 45.3m	4° 21′ 48″	Imamura	Tamaru
„ „ 14 1.8	„ 22 0	„	„
„ „ 14 57.1	„ 23 1	„	„
„ „ 16 8.5	„ 23 5	Tamaru	Imamura
„ „ 17 16.3	„ 19 13	Nakamura	„
„ „ 17 32.7	„ 19 11	Tamaru	„
„ „ 17 44.2	„ 18 15	Nakamura	„
„ „ 17 54.1	„ 18 6	Imamura	„ Nakamura Tamaru
„ „ 19 1.3	„ 20 18	„	Nakamura
„ „ 20 12.3	„ 20 1	Nakamura	Nakamura
„ „ 22 32.1	„ 19 32	Imamura	Tamaru
„ 28th 0 25.6	„ 18 45	Nakamura	„ Nakamura
„ „ 4 50.4	„ 15 58	„	„
„ „ 5 46.2	„ 17 28	„	„
„ „ 6 9.0	„ 17 5	„	„
„ „ 6 52.0	„ 16 6	„	„
„ „ 8 3.8	„ 18 17	Tamaru	Tamaru
„ „ 8 45.3	„ 19 5	„	„
„ „ 9 18.2	„ 19 57	„	„
„ „ 9 55.0	„ 20 51	„	„
„ „ 11 1.1	„ 22 46	„	Nakamura
„ „ 11 56.4	„ 23 5	„	Tamaru
„ „ 12 55.9	„ 22 33	„	„
„ „ 13 45.3	„ 21 55	Nakamura	Nakamura
„ „ 14 30.3	„ 22 35	Tamaru	Tamaru
Mean	4° 19′ 38″		

	$\delta = 4°\ 19'63$
Reduction to 1895.0 =	−0.78
„ „ sea level =	0.00
	$\delta = 4°\ 18'8$

DIP (θ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 27th 16h 6m	—	51° 31′.5	Nakamura	Tamaru
„ „ 21 33	1	„ 31.2	Tamaru	Imamura
„ 28th 7 28	—	„ 32.1	Nakamura	Nakamura
„ „ 11 55	—	„ 30.1	Tamaru	Tamaru
Mean		51° 31′.2		

	$\theta = 51°\ 31'.2$
Reduction to 1895.0 =	−0.06
„ „ sea level =	0.00
	$\theta = 51°\ 31'.1$

HORIZONTAL INTENSITY.
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
July 27th 14h 41m	0.29052	432.56	28°.5C	5.9290	28°.7C	6°24′53″.1	14°38′31″.9	28.4C	Imamura	Tamaru
„ „ 18 40	0.29013	434.19	24.0	5.9208	23.8	6 26 43.8	14 42 39.4	24.1	Nakamura	Imamura
„ „ 23 58	0.29020	434.25	23.6	5.9203	23.7	6 26 47.5	14 42 48.8	23.5	Tamaru	Nakamura
„ 28th 10 37	0.28986	433.45	26.2	5.9278	26.1	6 26 11.9	14 41 18.1	26.4	Nakamura	Tamaru
Mean	0.29018									

	$H =$ 0.29018
Reduction to 1895.0 =	−147
„ „ sea level =	26
	$H =$ 0.29017

207. HUKUSIMA.

Hukusima Normal School (福島尋常師範學校附屬地)

DECLINATION (δ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 28th 22h 10.1m	4° 58′ 33″	Imamura	Imamura
„ „ 22 31.5	„ 58 43	„	„
„ 29th 1 53.2	„ 58 3	„	„
„ „ 4 57.4	„ 56 21	„	„
„ „ 6 9.0	„ 56 45	„	„
„ „ 6 46.7	„ 55 36	„	„
„ „ 7 51.4	„ 56 43	Tamaru	Tamaru
„ „ 9 2.1	„ 57 31	Nakamura	„
„ „ 10 20.1	„ 58 15	„	Nakamura
„ „ 11 23.3	„ 59 38	Imamura	Imamura
„ „ 12 12.0	5 0 52	„	Tamaru
„ „ 13 5.7	„ 2 15	„	„
„ „ 13 42.7	„ 2 6	Tamaru	Nakamura
„ „ 13 55.1	„ 1 43	„	„
„ „ 15 4.8	„ 1 54	Nakamura	Tamaru
„ „ 15 18.3	„ 1 34	„	„
„ „ 15 35.3	„ 1 30	„	„
„ „ 16 34.1	„ 0 2	„	„ Nakamura
„ „ 18 5.7	4 59 56	Tamaru	Tamaru
„ „ 18 37.1	„ 59 57	„	„
„ „ 19 45.9	„ 59 49	„	„
„ „ 21 23.8	„ 58 44	Imamura	Nakamura
Mean	4° 58′ 56″		

	$\delta = 4°\ 58'.93$
Reduction to 1895.0 =	−0.78
„ „ sea level =	−0.01
	$\delta = 4°\ 58'.1$

DIP (θ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 29th 0h 4m	1	51° 2′9	Imamura	Imamura
,, ,, 7 26	1	,, 2.5	,,	,,
,, ,, 11 55	1	,, 3.6	Nakamura	,,
,, ,, 17 32	—	,, 3.6	Tamaru	Tamaru
Mean		51° 3′2		

$\theta = 51° 3′2$
Reduction to 1895.0 = 0.0
,, ,, sea level = 0.0
$\theta = 51° 3′2$

HORIZONTAL INTENSITY (H)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 29th 8h 40m	0.29139	434.45	22°7C	5.9062 s	22°6C	6°25′18″1	14°39′16″9	22°8C	Nakamura	Tamaru
,, ,, 14 45	0.29184	434.53	22.4	5.9016	22.5	6 24 59.4	14 38 46.9	22.3	Tamaru	Nakamura
,, ,, 20 37	0.29188	434.96	20.7	5.8979	20.7	6 25 26.2	14 39 57.5	20.7	Imamura	,,
,, 30th 8 1	0.29176	434.46	22.7	5.9024	22.6	6 24 56.2	14 38 35.6	22.8	Nakamura	Imamura
Mean	0.29172									

$H = 0.29172$
Reduction to 1895.0 = −200
,, ,, sea level = 92
$H = 0.29171$

210. YONEZAWA.

Play ground of Yonezawa Middle School (尋常中學校運動場)

DECLINATION (δ)
Observations of the North Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 2nd 20h 31.2m	4° 52′ 9″	Imamura	Nakamura
,, ,, 20 54.1	,, 52 15	,,	,,
,, ,, 22 6.0	,, 52 49	Nakamura	Imamura
,, ,, 23 21.2	,, 52 26	,,	Nakamura
,, 3rd 1 40.1	,, 51 56	,,	,,
,, ,, 3 46.9	,, 51 44	,,	,,
,, ,, 5 30.7	,, 50 43	,,	,,
,, ,, 6 5.9	,, 49 46	,,	,,
,, ,, 7 1.5	,, 47 44	,,	,,
,, ,, 7 44.9	,, 48 13	Imamura	Tamaru
,, ,, 8 52.6	,, 50 13	,,	,,
,, ,, 9 39.5	,, 51 56	Tamaru	Imamura
,, ,, 10 42.9	,, 50 21	Imamura	Tamaru
,, ,, 11 5.8	,, 50 40	Tamaru	,,
,, ,, 11 43.3	,, 54 22	,,	,,
,, ,, 12 46.1	,, 54 29	Imamura	Imamura
,, ,, 13 39.4	,, 54 55	,,	,,
,, ,, 14 50.4	,, 53 54	Tamaru	Tamaru
,, ,, 16 9.6	,, 51 56	Nakamura	Nakamura
,, ,, 16 35.7	,, 46 19	Imamura	,,
,, ,, 17 45.7	,, 45 51	Nakamura	,,
,, 4th 7 14.9	,, 40 58	,,	,,
,, ,, 8 56.1	,, 42 54	,,	,,
Mean	4° 51′ 58″		

$\delta = 4° 51′97$
Reduction to 1895.0 = −0.86
,, ,, sea level = −0.02
$\delta = 4° 51′1$

DIP (θ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 2nd 14h 10m	—	51° 21′1	Tamaru	Tamaru
,, ,, 22 40	—	,, 22.6	Nakamura	Nakamura
,, 3rd 9 58	—	,, 28.7	Imamura	Tamaru
,, ,, 15 41	—	,, 25.4	Nakamura	Nakamura
Mean		51° 24′5		

$\theta = 51° 24′5$
Reduction to 1895.0 = 0.18
,, ,, sea level = −0.01
$\theta = 51° 24′7$

HORIZONTAL INTENSITY (H)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 2nd 22h 35m	0.29057	433.47	24°7 C	5.9035	24°7 C	6°25′30″6	14°39′45″0	24°7 C	Nakamura	Imamura
,, 3rd 8 19	0.28977	430.71	30.2	5.9298	29.8	6 23 51.9	14 35 58.8	30.7	Tamaru	,,
,, ,, 14 29	0.29105	431.70	31.0	5.9118	31.3	6 23 16.3	14 34 34.4	30.7	Nakamura	Tamaru
Mean	0.29046									

$H = 0.29046$
Reduction to 1895.0 = −258
,, ,, sea level = 330
$H = 0.29047$

211. YAMAGATA.

Yamagata Middle School (山形尋常中學校)

DECLINATION (δ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 4th 22h 24.8m	4° 45′ 31″	Nakamura	Nakamura
,, ,, 23 11.2	,, 45 32	Tamaru	Tamaru
,, 5th 4 27.0	,, 43 27	,,	,,
,, ,, 5 44.9	,, 41 40	,,	,,
,, ,, 7 20.4	,, 40 5	,,	,,
,, ,, 8 25.6	,, 41 18	,,	,,
,, ,, 9 29.6	,, 43 40	Nakamura	Nakamura
,, ,, 10 40.5	,, 46 56	,,	,,
,, ,, 12 7.8	,, 50 50	,,	,,
,, ,, 13 17.5	,, 51 35	Tamaru	Tamaru
,, ,, 14 21.2	,, 48 4	,,	Nakamura
,, ,, 15 1.4	,, 46 50	Nakamura	,,
,, ,, 16 47.8	,, 44 47	,,	Tamaru
,, ,, 18 44.4	,, 44 58	,,	Nakamura
,, ,, 19 48.5	,, 45 34	Tamaru	Tamaru
,, ,, 20 38.3	,, 45 27	Nakamura	Nakamura
,, ,, 22 13.0	,, 44 43	,,	,,
,, 6th 9 25.3	,, 51 25	,,	Tamaru
,, ,, 10 43.9	,, 55 23	Tamaru	Nakamura
,, ,, 11 4.0	,, 49 22	,,	,,
,, ,, 11 12.6	,, 49 25	,,	,,
,, ,, 11 33.3	,, 55 50	,,	Tamaru
,, ,, 12 37.3	,, 55 0	Nakamura	Nakamura
,, ,, 13 24.7	,, 52 32	,,	Tamaru
,, ,, 13 54.8	,, 52 13	Tamaru	,,
,, ,, 14 12.3	,, 53 38	,,	Nakamura
Mean	4° 44′ 59″		

$\delta = 4° 44′98$
Reduction to 1895.0 = −0.92
,, ,, sea level = −0.01
$\delta = 4° 44′0$

DIP (θ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 5th 8h 55m	—	51° 59′9	Tamaru	Tamaru
„ „ 15 43	—	„ 52.4	Nakamura	Nakamura
„ „ 23 8	—	„ 55.5	„	„
„ 6th 8 20	—	„ 58.6	Tamaru	Tamaru
Mean		51° 56′6		

$\theta = 51°\ 56'6$
Reduction to 1895.0 = 0.24
„ „ sea level = 0.00
$\theta = 51°\ 56'8$

HORIZONTAL INTENSITY (H)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 5th 13h 59m	0.28969	432.84	26°7C	5.9170 s	26°8C	6°26′30″0	14°42′40″0	26°6C	Nakamura	Tamaru
„ „ 21 47	0.28905	433.15	23.6	5.9211	23.6	6 27 26.9	14 44 30.0	23.5	Tamaru	Nakamura
„ 6th 10 14	0.28934	432.14	29.6	5.9263	30.0	6 26 7.5	14 41 23.8	29.1	„	„
„ „ 12 21	0.28935	430.72	32.2	5.9358	32.4	6 24 43.2	14 38 6.3	31.9	Nakamura	Tamaru
Mean	0.28936									

$H = 0.28936$
Reduction to 1895.0 = −245
„ „ sea level = 213
$H = 0.28936$

212. SINZYŌ.

Tozawa Zinsya (戸澤神社)

DECLINATION (δ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 7th 15h 33.8m	5° 15′ 14″	Nakamura	Imamura
„ „ 16 1.8	„ 14 44	Imamura	Nakamura
„ „ 17 2.0	„ 13 0	„	Sutō
„ „ 18 2.8	„ 12 0	„	„
„ „ 19 7.2	„ 12 32	Nakamura	Nakamura
„ „ 19 58.8	„ 12 59	„	Sutō
„ „ 21 27.5	„ 13 14	Imamura	„
„ 8th 4 42.0	„ 14 34	„	Imamura
„ „ 6 18.7	„ 12 36	„	„
„ „ 6 45.5	„ 11 13	„	„
„ „ 7 54.3	„ 16 26	Nakamura	Nakamura
„ „ 9 2.8	„ 15 54	„	Sutō
„ „ 9 20.2	„ 20 33	„	„
„ „ 10 50.2	„ 24 55	„	Nakamura
„ „ 11 26.1	„ 26 13	„	„
„ „ 11 43.8	„ 20 28	„	Sutō
„ „ 12 53.3	„ 21 29	Sutō	Imamura
„ „ 13 49.0	„ 21 14	Nakamura	Sutō
„ „ 14 11.5	„ 16 11	„	„
„ „ 15 19.7	„ 14 19	Imamura	Nakamura
„ „ 15 46.4	„ 13 11	„	„
„ „ 17 22.7	„ 11 17	„	Sutō
„ „ 18 32.7	„ 10 54	Sutō	Nakamura
„ „ 19 33.6	„ 10 40	„	Sutō
„ „ 20 49.8	„ 11 4	„	„
„ „ 21 44.3	„ 11 5	Nakamura	Nakamura
„ „ 23 52.7	„ 10 39	„	„
„ 9th 1 31.4	„ 9 44	„	„
„ „ 3 43.9	„ 8 55	„	„
„ „ 6 29.9	„ 6 9	„	„
„ „ 7 31.2	„ 5 36	„	„
„ „ 8 41.3	„ 6 38	Sutō	Sutō
„ „ 9 39.5	„ 8 54	„	„
Mean	5° 16′ 42″		

$\delta = 5°\ 10'70$
Reduction to 1895.0 = −1.06
„ „ sea level = −0.01
$\delta = 5°\ 9'6$

DIP (θ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 7th 17h 44m	—	52° 24′7	Nakamura	Sutō / Nakamura
,, ,, 22 47	1	,, 27.7	Sutō	Imamura / Sutō
,, 8th 14 54	1	,, 31.4	,,	,,
,, ,, 17 3	1	,, 25.4	Imamura	Imamura / Sutō
,, 9th 6 58	1	,, 27.2	Nakamura	Nakamura
Mean		52° 27′3		

	θ = 52°	27′3
Reduction to	1895.0 =	0.48
,,	,, sea level =	0.00
	θ = 52°	27′8

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 7th 16h 40m	0.28740	432.08	26°6C	5.9648	26°8C	6°28′47″5	14°47′44″4	26°3C	Nakamura	Imamura
,, ,, 20 52	0.28719	433.28	25.4	5.9575	25.3	6 29 36.2	14 48 53.8	25.5	Imamura	Sutō
,, 8th 10 25	0.28708	430.72	31.4	5.9767	31.1	6 27 35.6	14 44 46.9	31.8	Sutō	Nakamura
,, ,, 17 56	0.28726	431.88	27.5	5.9667	27.4	6 28 35.6	14 47 11.2	27.6	Imamura	,,
Mean	0.28723									

	H =	0.28723
Reduction to	1895.0 =	−269
,,	,, sea level =	134
	H =	0.28722

613. SAKATA.

Sakata Common School (酒田小學校)

DECLINATION (δ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 10th 11h 41.0m	5° 17′ 10″	Imamura	Nakamura
,, ,, 11 55.0	,, 18 8	,,	,,
,, ,, 13 4.8	,, 16 47	Sutō	Sutō
,, ,, 14 16.3	,, 15 0	,,	,,
,, ,, 14 51.4	,, 13 59	Imamura	,,
,, ,, 15 36.0	,, 15 11	,,	,,
,, ,, 16 47.8	,, 12 3	,,	Imamura
,, ,, 17 9.6	,, 12 42	,,	,,
,, ,, 17 23.4	,, 13 58	,,	,,
,, ,, 18 27.7	,, 13 31	Nakamura	Nakamura
,, ,, 19 25.1	,, 13 10	,,	,,
,, ,, 20 50.4	,, 9 43	,, / Imamura / Sutō	,,
,, ,, 22 35.3	,, 12 21	Nakamura	Sutō
,, ,, 23 52.8	,, 13 25	,,	Nakamura
,, 11th 3 21.2	,, 13 36	,,	Sutō
,, ,, 4 40.4	,, 11 16	,,	Nakamura
,, ,, 5 48.5	,, 11 4	,,	,,
,, ,, 6 51.6	,, 8 41	,,	,,
	To be continued		

Continued

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 11th 8h 9.1m	5° 9′ 56″	Nakamura	Nakamura
,, ,, 8 57.3	,, 11 51	,,	,,
,, ,, 10 3.0	,, 13 43	,,	,,
,, ,, 10 22.6	,, 11 56	,,	,,
,, ,, 11 0.6	,, 15 33	,,	,,
,, ,, 11 33.0	,, 13 10	,,	,,
,, ,, 11 40.1	,, 9 57	,,	,,
,, ,, 11 56.8	,, 15 34	,,	,,
,, ,, 12 10.7	,, 16 40	,,	,,
,, ,, 13 14.7	,, 17 33	,,	,,
,, ,, 14 3.5	,, 18 0	,,	,,
,, ,, 15 1.7	,, 17 10	,,	,,
Mean	5° 13′ 11″		

δ = 5° 13′.18
Reduction to 1895.0 = −1.14
,, ,, sea level = 0.00
δ = 5° 12′.0

DIP (θ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 10th 16h 52m	1	52° 41′.1	Imamura	Imamura
,, ,, 19 25	1	,, 43.5	Sutō	Sutō
,, ,, 23 49	—	,, 48.4	Nakamura	Imamura
				Nakamura
Mean		52° 44′.3		

θ = 52° 44′.3
Reduction to 1895.0 = 0.67
,, ,, sea level = 0.00
θ = 52° 45′.0

HORIZONTAL INTENSITY (*H*)
(* *Value deduced from Vibration only by assuming Value of M.*)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 10th 12h 37m	0.28645	429.92	33°.7C	5.9892 s	33°.7C	6°27′36″.9	14°44′35″.0	33°.7C	Nakamura	Imamura
,, ,, 15 14	0.28669	430.81	32.3	5.9828	33.2	6 28 28.8	14 46 38.8	31.4	Imamura	Sutō
,, ,, 20 34	*0.28631	431.60	28.3	5.9964	28.7	(6 29 37.5	14 49 32.5	28.3)	Sutō	Imamura
,, 11th 4 7	0.28658	432.36	25.6	5.9703	25.6	6 30 3.7	14 50 38.8	25.6	Nakamura	Sutō
Mean	0.28651									

H = 0.28651
Reduction to 1895.0 = −324
,, ,, sea level = 0
H = 0.28648

214. ATUMI.

DIP (θ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 11th 14h 8m	1	52° 26′.5	Imamura	Sutō
,, ,, 15 54	1	,, 28.4	Sutō	Imamura
,, ,, 19 18	1	,, 20.2	,,	,,
,, 12th 7 8	—	,, 22.1	Imamura	Sutō
Mean		52° 24′.3		

θ = 52° 24′.3
Reduction to 1895.0 = 0.53
,, ,, sea level = 0.00
θ = 52° 24′.8

HORIZONTAL INTENSITY (H)
(* *Value deduced from Vibration only by assuming Value of M.*)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 11th 16h 46m	*0.28894	430.40	32°4C	5.9599	32°4C	—	—	—	Imamura	Sutō
„ „ 16 58	*0.28885	430.40	32.4	5.9609	32.4	—	—	—	Sutō	Imamura
„ „ 18 34	*0.28955	431.15	29.7	5.9483	29.7	—	—	—	„	„
„ „ 18 44	*0.28923	431.25	29.4	5.9509	29.4	—	—	—	„	„
„ 12th 6 13	*0.28945	432.75	24.6	5.9380	24.6	—	—	—	Imamura	Sutō
„ „ 6 29	*0.28966	432.50	25.4	5.9376	25.4	—	—	—	Sutō	Imamura
Mean	0.28928									

H =	0.28928
Reduction to 1895.0 =	−356
„ „ sea level =	0
H =	0.28924

215. MURAKAMI.

Murakami High Common school (村上高等小學校)

DECLINATION (δ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Aug. 12th 17h 7.3m	5° 14′ 7″	Imamura	Sutō
„ „ 17 21.8	„ 13 44	Sutō	Nakamura
„ „ 18 23.9	„ 13 2	Imamura	Imamura, Sutō
„ „ 19 38.3	„ 12 13	Sutō	„
„ „ 20 57.0	„ 12 15	Imamura	Nakamura
„ „ 22 10.7	„ 11 54	„	Sutō
„ 13th 2 5.9	„ 11 22	„	Imamura
„ „ 4 50.4	„ 10 26	„	„
„ „ 5 33.0	„ 9 59	„	„
„ „ 6 37.0	„ 8 50	„	„
„ „ 7 14.8	„ 8 36	„	„
„ „ 8 40.2	„ 8 34	Nakamura	Sutō
„ „ 9 56.7	„ 10 0	„	Imamura
„ „ 10 56.5	„ 12 19	„	Nakamura
„ „ 11 43.5	„ 14 1	Imamura	Imamura
„ „ 12 41.7	„ 15 13	Nakamura	Nakamura
„ „ 13 57.5	„ 15 19	Imamura	Imamura
„ „ 14 52.1	„ 14 11	Nakamura	Nakamura
Mean	5° 11′ 56″		

δ =	5° 11′93
Reduction to 1895.0 =	−1.04
„ „ sea level =	0.00
δ =	5° 10′9

DIP (θ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 12th 18h 7m	1	52° 1′0	Nakamura	Sutō
„ 13th 0 36	1	„ 0.4	Imamura	Imamura
„ „ 6 12	1	51 58.7	„	„
„ „ 8 14	1	„ 59.2	Sutō	Sutō
Mean		51° 59′8		

θ =	51° 59′8
Reduction to 1895.0 =	0.55
„ „ sea level =	0.00
θ =	52° 0′4

HORIZONTAL INTENSITY (H)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 12th 19h 3m	0.28929	431.02	30°1C	5.9517	30°0C	6°25′ 3″1	14°38′58″8	30°2C	Imamura	Nakamura
„ „ 21 43	0.28920	432.24	25.8	5.9463	26.7	6 24 41.9	14 42 45.6	24.9	Nakamura	Imamura
„ 13th 9 33	0.28928	430.90	31.7	5.9536	32.0	6 24 51.2	14 38 11.9	31.4	Sutō	Nakamura
„ „ 13 16	0.28962	429.79	33.9	5.9597	34.9	6 23 44.4	14 35 52.5	33.0	Imamura	„
Mean	0.28935									

H = 0.28935
Reduction to 1895.0 = −373
„ „ sea level = 0
H = 0.28931

216. OGUNI.

Oguni Police Station (小國警察署)

DECLINATION (δ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 14th 13h 17.4m	5° 5′ 51″	Imamura	Imamura
„ „ 13 30.7	„ 5 56	„	„
„ „ 14 56.4	„ 4 38	Sutō	Sutō
„ „ 15 58.5	„ 2 51	„	„
„ „ 17 0.5	„ 0 19	Imamura	Nakamura
„ „ 17 59.1	„ 0 27	„	„
„ „ 19 0.4	„ 0 9	Sutō	Sutō
„ „ 19 49.4	„ 0 47	Imamura	Imamura
„ „ 20 37.5	„ 0 59	Nakamura	Nakamura
„ „ 21 42.4	„ 0 32	„	„
„ „ 23 0.3	„ 0 5	„	„
„ 15th 3 31.3	4 59 57	„	„
„ „ 5 24.0	„ 58 9	„	„
„ „ 6 24.8	„ 57 9	„	„
„ „ 7 21.1	„ 57 12	„	„
„ „ 8 39.7	„ 58 2	Imamura	Sutō
„ „ 9 31.9	„ 58 31	Sutō	„
„ „ 10 19.8	5 0 52	Imamura	„
„ „ 11 27.2	„ 2 41	Sutō	„
„ „ 12 11.4	„ 3 34	„	„
„ „ 13 10.1	„ 3 54	„	„
Mean	5° 0′ 30″		

δ = 5° 0′50
Reduction to 1895.0 = −1.00
„ „ sea level = −0.01
δ = 5° 59′5

DIP (θ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 14th 15h 37m	1	51° 48′0	Imamura	Sutō
„ „ 18 37	—	„ 43.7	Sutō	„
„ „ 23 35	—	„ 45.0	Nakamura	Nakamura
„ 15th 6 59	1	„ 44.1	„	„
Mean		51° 45′2		

θ = 51° 45′2
Reduction to 1895.0 = 0.43
„ „ sea level = 0.00
θ = 51° 45′6

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 14th 13h 30m	0.28973	429.98	31.7C	5.9552	31.9C	6°23′38.″1	14°35′43.″8	31.5C	Imamura	Sutō
,, ,, 18 39	0.28952	430.71	29.8	5.9539	30.7	6 24 53.8	14 38 42.5	28.8	Nakamura	Imamura
,, ,, 22 21	0.28961	433.29	22.4	5.9326	22.5	6 26 56.2	14 43 25.0	22.3	Imamura	Nakamura
,, 15th 8 17	0.23954	452.62	25.3	5.9357	24.5	6 25 38.8	14 39 46.9	26.1	Sutō	Imamura
Mean	0.28960									

H = 0.28960

Reduction to 1895.0 = −339

,, ,, sea level = 133

H = 0.28958

217. TUGAWA.

Tugawa High Common School (津川高等小學校)

DECLINATION (δ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 19th 0h 20.7m	5° 9′ 26″	Imamura	Imamura
,, ,, 2 2.4	,, 7 51	,,	,,
,, ,, 5 11.9	,, 7 7	,,	,,
,, ,, 6 4.6	,, 5 50	,,	,,
,, ,, 6 57.8	,, 4 54	,,	,,
,, ,, 7 27.1	,, 4 34	,,	Sutō
,, ,, 8 48.8	,, 6 4	Nakamura	Nakamura
,, ,, 9 32.3	,, 8 42	,,	,,
,, ,, 10 34.9	,, 10 55	Imamura	Imamura
,, ,, 11 27.3	,, 13 9	Nakamura	Nakamura
,, ,, 12 22.4	,, 14 18	,,	,,
,, ,, 13 17.5	,, 13 52	Sutō	Sutō
,, ,, 14 29.8	,, 13 3	,,	,,
,, ,, 15 42.0	,, 12 17	Nakamura	Nakamura
,, ,, 16 42.4	,, 11 1	Sutō	Sutō
,, ,, 17 38.7	,, 10 9	Imamura	Imamura
,, ,, 18 35.6	,, 9 45	Sutō	,,
,, ,, 19 28.9	,, 10 1	Imamura	,,
,, ,, 20 26.1	,, 9 55	,,	,,
Mean	5° 9′ 30″		

δ = 5° 9′.50

Reduction to 1895.0 = −0.96

,, ,, sea level = −0.01

δ = 5° 8′.5

DIP (θ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 19th 1h 19m	1	51° 19′.9	Imamura	Imamura
,, ,, 6 35	1	,, 22.7	,,	,,
,, ,, 10 3	1	,, 21.7	Nakamura	Nakamura
,, ,, 13 53	1	,, 21.3	Sutō	Sutō
Mean		51° 21′.4		

θ = 51° 21′.4

Reduction to 1895.0 = 0.38

,, ,, sea level = 0.00

θ = 51° 21′.8

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections. φ_1	Mean Deflections. φ_2	Temp. t_D	Observer	Recorder
Aug. 19th 8h 25m	0.29053	430.48	29°8C	5.9408	29°0C	6°22′38″8	14°33′10″0	30°7 C	Nakamura	Sutō
,, ,, 11 55	0.29063	429.64	32.9	5.9472	32.6	6 21 45.0	14 31 5.0	33.2	Imamura	Nakamura
,, ,, 12 1	0.29066	429.61	33.1	5.9477	33.0	6 21 45.0	14 31 5.0	33.2	,,	,,
,, ,, 15 27	0.29049	429.06	34.0	5.9543	34.3	6 21 36.9	14 30 45.0	33.6	Sutō	,,
,, ,, 20 3	0.29015	431.35	26.2	5.9405	26.2	6 24 10.0	14 36 40.6	26.2	,,	Imamura
Mean	0.29049									

H = 0.29049

Reduction to 1895.0 = −378

,, ,, sea level = 106

H = 0.29046

218. WAKAMATU.

Aizu Middle School (會津尋常中學校)

DECLINATION (δ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 21st 10h 8.4m	4° 48′ 58″	Sutō	Nakamura
,, ,, 11 5.4	,, 51 13	Imamura	Imamura
,, ,, 12 10.2	,, 52 41	Nakamura	,,
,, ,, 13 10.6	,, 52 23	Sutō	Sutō
,, ,, 14 11.5	,, 51 49	,,	Nakamura
,, ,, 15 7.5	,, 50 20	,,	Imamura
,, ,, 16 2.2	,, 49 50	Imamura	Nakamura
,, ,, 17 10.4	,, 48 56	Nakamura	Imamura
,, ,, 18 41.2	,, 49 32	Sutō	Sutō
,, ,, 19 56.1	,, 49 30	Nakamura	Nakamura
,, ,, 21 44.2	,, 49 45	,,	Imamura
,, ,, 22 59.5	,, 49 53	Imamura	,,
,, 22nd 5 1.2	,, 47 20	Nakamura	Nakamura
,, ,, 5 38.9	,, 46 29	,,	,,
,, ,, 6 48.5	,, 44 48	Imamura	Imamura
,, ,, 7 42.9	,, 44 33	Nakamura	Nakamura
,, ,, 8 19.6	,, 45 16	Imamura	,,
Mean	4° 49′ 10″		

δ = 4° 49′17

Reduction to 1895.0 = −0.87

,, ,, sea level = −0.02

δ = 4° 48′3

DIP (θ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 21st 10h 51m	1	51° 16′5	Nakamura	Sutō
,, ,, 15 35	1	,, 10.6	Sutō	,,
,, ,, 22 30	1	,, 15.8	Imamura	Imamura
,, 22nd 6 12	1	,, 22.1	Nakamura	Nakamura
Mean		51° 16′3		

θ = 51° 16′3

Reduction to 1895.0 = 0.13

,, ,, sea level = −0.01

θ = 51° 16′4

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1894.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 21st 11h 46m	0.28996	429.74	31°2C	5.9561	32°0C	6°23′ 1″3	14°33′46″9	30°3C	Nakamura	Imamura
,, ,, 14 48	0.29054	429.70	31.2	5.9501	31.5	6 22 20.0	14 32 26.9	30.8	Sutō	,,
,, ,, 20 46	0.29020	431.50	26.6	5.9388	26.6	6 24 5.6	14 36 20.0	26.7	Imamura	Nakamura
,, 22nd 7 28	0.29015	431.45	25.8	5.9376	24.9	6 23 58.1	14 36 14.4	26.7	,,	,,
Mean	0.29019									

	$H=$	0.29019
Reduction to	1895.0 =	−298
,, ,,	sea level =	288
	$H=$	0.29019

219. TAZIMA.

Tazima Common School (田嶋小學校)

DECLINATION (δ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 22nd 22h 14.6m	4° 42′ 51″	Nakamura	Sutō
,, ,, 23 8.0	,, 42 30	Sutō	,,
,, 23rd 2 42.1	,, 42 15	,,	,,
,, ,, 4 43.6	,, 41 54	,,	,,
,, ,, 6 16.0	,, 40 20	,,	,,
,, ,, 7 37.4	,, 38 45	,,	,,
,, ,, 8 26.0	,, 39 10	Imamura	Imamura
,, ,, 9 26.1	,, 41 25	Nakamura	Nakamura
,, ,, 10 33.6	,, 43 54	Sutō	Sutō
,, ,, 11 44.8	,, 45 37	Imamura	Imamura
,, ,, 12 48.8	,, 46 0	Nakamura	Nakamura
,, ,, 13 38.0	,, 46 7	Sutō	Sutō
,, ,, 14 38.5	,, 44 50	Imamura	,,
,, ,, 15 45.1	,, 43 37	Sutō	,,
,, ,, 16 40.2	,, 42 25	Imamura	Imamura
,, ,, 18 36.3	,, 42 37	Nakamura	Sutō
,, ,, 19 21.5	,, 42 47	Imamura	Nakamura
Mean	4° 42′ 21″		

	$\delta=4°$	42′35
Reduction to	1895.0 =	−0.81
,, ,,	sea level =	−0.04
	$\delta=4°$	41′5

DIP (θ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 23rd 5h 51m	1	51° 8′7	Sutō	Sutō
,, ,, 11 26	1	,, 10.2	Nakamura	Imamura
,, ,, 15 12	—	,, 13.4	Imamura	,,
,, ,, 19 3	1	,, 8.1	Nakamura	,,
Mean		51° 10′1		

	$\theta=51°$	10′1
Reduction to	1895.0 =	0.00
,, ,,	sea level =	−0.02
	$\theta=51°$	10′1

HORIZONTAL INTENSITY (H)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 23rd 7h 13m	0.29032	431.28	25°5C	5.9387 s	25°3C	6°23′40″0	14°35′15″6	25°6C	Nakamura	Sutō
„ „ 12 25	0.29084	428.68	33.7	5.9531	34.0	6 21 0.0	14 29 40.6	33.5	Imamura	Nakamura
„ „ 17 39	0.29081	430.94	27.4	5.9371	27.5	6 22 56.3	14 33 50.0	27.3	Sutō	Imamura
Mean	0.29066									

H = 0.29066
Reduction to 1895.0 = −295
„ „ sea level = 728
H = 0.29070

220. TADAMI.

DECLINATION (δ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 24th 22h 24.0m	4° 41′ 40″	Nakamura	Nakamura
„ „ 23 48.4	„ 41 40	„	„
„ 25th 4 53.5	„ 40 28	„	„
„ „ 6 16.1	„ 38 50	Sutō	Sutō
„ „ 7 31.7	„ 37 58	Imamura	Imamura
„ „ 8 36.9	„ 38 30	„	„
„ „ 9 27.5	„ 40 56	Sutō	Sutō
„ „ 10 45.3	„ 43 35	Imamura	Imamura
„ „ 12 19.1	„ 45 3	Sutō	Sutō
„ „ 13 5.6	„ 44 36	Imamura	Imamura
Mean	4° 41′ 36″		

δ = 4° 41′60
Reduction to 1895.0 = −0.92
„ „ sea level = −0.03
δ = 4° 40′7

DIP (θ)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 24th 23h 22m	—	51° 5′2	Nakamura	Nakamura
„ 25th 5 34	—	„ 4.6	„	„
„ „ 10 21	1	„ 5.0	Imamura	Imamura
Mean		51° 4′9		

θ = 51° 4′9
Reduction to 1895.0 = 0.26
„ „ sea level = −0.02
θ = 51° 5′1

HORIZONTAL INTENSITY (H)
Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 24th 21h 41m	0.29163	430.15	24°9C	5.9339 s	25°1C	6°21′17″5	14°30′ 6″2	24°7C	Imamura	Sutō
„ 25th 7 7	0.29216	431.78	24.3	5.9163	24.0	6 21 40.0	14 30 35.6	24.6	Sutō	Nakamura
„ „ 11 55	0.29268	428.19	36.2	5.9356	35.6	6 17 30.6	14 20 59.4	36.7	Imamura	Sutō
Mean	0.29216									

H = 0.29216
Reduction to 1895.0 = −388
„ „ sea level = 485
H = 0.29217

221. NIKKŌ.

Hotel Kamiyama (神 山 旅 館)

DECLINATION (δ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 28th 17h 5.3m	4° 26′ 29″	Imamura	Imamura
,, ,, 17 35.1	,, 26 10	Sutō	,,
,, ,, 18 57.9	,, 26 49	Imamura	,,
,, ,, 19 51.6	,, 27 1	Sutō	Sutō
,, ,, 21 9.0	,, 27 8	,,	,,
,, 29th 5 1.11	,, 26 14	Imamura	Imamura
,, ,, 6 12.3	,, 24 41	,,	,,
,, ,, 7 20.2	,, 23 36	,,	,,
,, ,, 8 6.2	,, 23 59	Sutō	Sutō
,, ,, 9 19.6	,, 26 4	,,	,,
,, ,, 10 14.3	,, 28 35	,,	,,
,, ,, 11 38.6	,, 30 7	Imamura	Imamura
,, ,, 12 37.3	,, 29 32	Sutō	Sutō
,, ,, 13 38.7	,, 29 14	Nakamura	Nakamura
Mean	4° 27′ 2″		

δ = 4° 27′.03
Reduction to 1895.0 = −0′.77
,, ,, sea level = −0′.04
δ = 4° 26′.2

DIP (θ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 28th 18h 35m	1	50° 22′.6	Sutō	Imamura
,, 29th 5 49	1	,, 19.4	Imamura	,,
,, ,, 12 6	1	,, 14.4	Sutō	Sutō
,, ,, 13 40	—	,, 16.4	Nakamura	Nakamura
Mean		50° 18′.2		

θ = 50° 18′.2
Reduction to 1895.0 = −0′.13
,, ,, sea level = −0′.03
θ = 50° 18′.0

HORIZONTAL INTENSITY (*H*)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 28th 20h 43m	0.29466	431.64	22°.9 C	s 5.8923	22°.7 C	6°18′21″.2	14°22′57″.5	23°.2 C	Imamura	Sutō
,, 29th 7 2	0.29452	431.68	22.2	5.8926	21.7	6 18 40.0	14 23 56.9	22.7	Sutō	Nakamura
,, ,, 11 13	0.29460	430.18	26.9	5.9014	26.1	6 16 55.6	14 19 40.6	27.7	Imamura	Sutō
Mean	0.29457									

H = 0.29457
Reduction to 1895.0 = −312
,, ,, sea level = 787
H = 0.29462

222. SUKAGAWA.

Sukagawa Common School (須賀川小學校)

DECLINATION (δ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 30th 2h 41.8m	4° 52′ 13″	Imamura	Sutō
,, ,, 4 30.1	,, 51 18	Sutō	,,
,, ,, 5 20.3	,, 50 49	,,	,,
,, ,, 6 34.6	,, 49 19	Imamura	Imamura
,, ,, 7 39.4	,, 50 33	Nakamura	Nakamura
,, ,, 8 48.4	,, 50 54	,,	,,
,, ,, 9 29.4	,, 52 14	,,	,,
,, ,, 10 40.2	,, 54 9	Sutō	Sutō
,, ,, 11 34.6	,, 55 29	Imamura	Imamura
,, ,, 12 38.6	,, 55 16	Sutō	Sutō
,, ,, 13 37.0	,, 55 9	Imamura	Imamura
,, ,, 14 36.5	,, 54 20	Nakamura	Nakamura
Mean	4° 52′ 35″		

$\delta = 4°\ 52'.58$

Reduction to 1895.0 = −0.81

,, ,, sea level = −0.02

$\delta = 4°\ 51'.8$

DIP (θ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 30th 3h 54m	1	50° 44′.7	Sutō	Sutō
,, ,, 8 20	—	,, 47.9	Nakamura	Nakamura
,, ,, 13 59	—	,, 47.2	Sutō	,,
,, ,, 16 43	1	,, 44.9	Imamura	Imamura
Mean		50° 46′.3		

$\theta = 50°\ 46'.3$

Reduction to 1895.0 = −0.13

,, ,, sea level = −0.01

$\theta = 50°\ 46'.2$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 30th 7h 8m	*0.29141	431.80	22°.5 C	5.9243	22°.5 C	(6°23′27″.5	14°32′12″.5	23°.4 C)	Imamura	Sutō
,, ,, 10 4	0.29155	429.47	30.9	5.9388	30.5	6 20 3.8	14 26 39.4	31.2	Sutō	Nakamura
,, ,, 12 10	0.29187	428.92	31.8	5.9396	31.6	6 19 30.0	14 25 47.5	32.0	Imamura	,,
,, ,, 14 17	*0.29107	429.45	30.1	5.9446	30.1	—	—	—	Nakamura	Sutō
,, ,, 15 20	0.29132	429.50	28.8	5.9418	28.8	6 20 46.9	14 28 33.8	28.7	,,	,,
Mean	0.29144									

$H = 0.29144$

Reduction to 1895.0 = −247

,, ,, sea level = 325

$H = 0.29145$

223. NISINASUNO.

Nisinasuno Common School (西那須野小學校)

DECLINATION (δ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	θ	Observer	Recorder
Aug. 31st 13h 30.2m	5° 2′ 41″	Imamura	Imamura
,, ,, 14 11.2	,, 2 16	,,	,,
,, ,, 15 12.9	,, 1 39	Nakamura	Nakamura
,, ,, 16 3.3	,, 0 55	Imamura	Imamura
,, ,, 17 10.4	4 59 48	Sutō	Sutō
,, ,, 18 5.1	5 0 4	Imamuaa	Imamura
,, ,, 19 1.4	,, 0 11	Sutō	Sutō
,, ,, 20 2.8	4 59 52	Imamura	Imamura
,, ,, 22 23.9	,, 59 51	Sutō	Sutō
,, ,, 23 29.2	,, 58 47	,,	,,
Sept. 1st 0 48.2	,, 59 4	,,	,,
,, ,, 6 11.4	,, 56 33	,,	,,
,, ,, 7 39.7	,, 56 0	,,	,,
,, ,, 8 37.1	,, 56 31	Imamura	Imamura
,, ,, 9 32.0	,, 57 14	Nakamura	Nakamura
Mean	4° 59′ 34″		

$\delta = 4°\ 59'.57$
Reduction to 1895.0 = −0.78
,, ,, sea level = −0.01
$\delta = 4°\ 58'.78$

DIP (θ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 31st 15h 46m	—	50° 29′.8	Nakamura	Nakamura
,, ,, 18 34	1	,, 31.8	Imamura	Imamura
,, ,, 23 16	1	,, 24.2	Sutō	Sutō
Sept. 1st 7 7	—	,, 28.2	,,	,,
Mean		50° 28′.5		

$\theta = 50°\ 28'.5$
Reduction to 1895.0 = −0.13
,, ,, sea level = −0.01
$\theta = 50°\ 28'.4$

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 31st 14h 56m	0.29402	428.79	30°.3C	5.9208	30°.9C	6°17′ 0″.0	14°20′ 8″.8	29°.7C	Imamura	Nakamura
,, ,, 17 48	0.29402	429.36	28.9	5.9167	29.6	6 17 30.0	14 21 12.5	28.3	Sutō	Imamura
,, ,, 21 57	0.29423	430.65	25.7	5.9042	25.8	6 18 19.4	14 23 15.6	25.7	Imamura	Sutō
Sept. 1st 8 11	0.29371	430.65	25.5	5.9095	25.6	6 18 47.5	14 24 0.6	25.5	Nakamura	Imamura
Mean	0.29400									

$H = 0.29400$
Reduction to 1895.0 = −282
,, ,, sea level = 266
$H = 0.29400$

224. UTUNOMIYA.

DECLINATION (δ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 1st 16h 36.7m	4° 26′ 58″	Imamura	Nakamura
,, ,, 16 58.8	,, 26 54	Sutō	Imamura
,, ,, 18 13.6	,, 26 28	Nakamura	Nakamura
,, ,, 19 19.6	,, 26 33	,,	,,
,, ,, 21 52.4	,, 26 11	Imamura	Sutō
,, ,, 23 12.7	,, 26 5	,,	Imamura
,, 2nd 5 19.7	,, 24 12	,,	,,
,, ,, 5 52.0	,, 23 28	,,	,,
,, ,, 7 4.6	,, 22 24	,,	,,
,, ,, 7 24.0	,, 22 13	,,	,,
,, ,, 8 51.3	,, 23 33	Nakamura	Sutō
,, ,, 9 53.3	,, 26 28	Sutō	,,
,, ,, 10 50.7	,, 28 25	,,	,,
,, ,, 11 48.9	,, 30 12	,,	Imamura
,, ,, 12 57.2	,, 30 13	Nakamura	Nakamura
,, ,, 13 53.3	,, 29 3	Imamura	Imamura
Mean	4° 26′ 20″		

$\delta = 4° \; 26'.33$

Reduction to 1895.0 = −0.70

,, ,, sea level = −0.01

$\delta = 4° \; 25'.6$

DIP (θ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 1st 18h 56m	1	50° 11′.7	Nakamura	Nakamura
,, ,, 22 35	1	,, 8.1	Imamura	Imamura
,, 2nd 6 43	1	,, 9.2	,,	,,
,, ,, 11 27	1	,, 8.6	Sutō	,,
Mean		50° 9′.4		

$\theta = 50° \; 9'.4$

Reduction to 1895.0 = −0.33

,, ,, sea level = −0.01

$\theta = 50° \; 9'.1$

HORIZONTAL INTENSITY (H)

Observations of the South Party 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Sept. 1st 17h 54m	0.29513	429.56	28°.2C	5.9028	28°.3C	6°16′ 1″.9	14°17′43″.1	28°.1C	Nakamura	Imamura
,, ,, 21 29	0.29555	430.17	25.4	5.8935	25.2	6 15 48.8	14 16 55.6	25.6	Imamura	Sutō
,, 2nd 8 34	0.29507	430.25	27.5	5.8968	26.9	6 16 25.6	14 18 34.4	28.2	Sutō	Nakamura
,, ,, 12 41	0.29555	427.83	34.1	5.9114	34.4	6 14 5.0	14 13 27.5	33.7	Imamura	,,
Mean	0.29533									

$H = 0.29533$

Reduction to 1895.0 = −281

,, ,, sea level = 155

$H = 0.29532$

225. KOGA.

DECLINATION (δ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 3rd 13h 14.8m	4° 34′ 39″	Nakamura	Imamura
,, ,, 13 58.5	,, 34 27	Imamura	Nakamura
,, ,, 15 38.9	,, 32 32	Nakamura	,,
,, ,, 16 50.2	,, 31 18	Sutō	Sutō
,, ,, 18 4.3	,, 30 27	,,	,,
,, ,, 19 34.0	,, 30 36	Imamura	Nakamura
,, ,, 21 51.3	,, 30 48	,,	,,
,, ,, 22 51.0	,, 30 42	Nakamura	Imamura
,, 4th 4 16.0	,, 28 43	,,	Nakamura
,, ,, 5 57.0	,, 27 33	,,	,,
,, ,, 7 7.4	,, 26 12	,,	,,
,, ,, 7 49.7	,, 26 7	Imamura	Imamura
,, ,, 8 40.3	,, 26 30	Sutō	Sutō
,, ,, 9 45.5	,, 28 17	Nakamura	Nakamura
,, ,, 10 40.8	,, 30 51	Sutō	Sutō
,, ,, 11 40.1	,, 33 23	,,	,,
,, ,, 12 22 3	,, 35 38	,,	Nakamura
Mean	4° 30′ 19″		

	δ = 4°	30′32
Reduction to	1895.0 =	−0.66
,, ,,	sea level =	0.00
	δ = 4°	29′7

DIP (θ)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 3rd 16h 28m	1	49° 47′2	Imamura	Imamura
,, ,, 18 56	1	,, 49.7	Sutō	Sutō
,, ,, 20 16	—	,, 49.4	Nakamura	Nakamura
,, 4th 6 47	1	,, 48.6	,,	,,
Mean		49° 48′7		

	θ = 49°	48′7
Reduction to	1895.0 =	−0.34
,, ,,	sea level =	0.00
	θ = 49°	48′4

HORIZONTAL INTENSITY (H)

Observations of the South Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_n	Observer	Recorder
Sept. 3rd 15h 3m	0.29492	427.41	35.0C	5.9231	36.4C	6°14′46″2	14°14′57″5	33.7C	Imamura	Nakamura
,, ,, 17 36	0.29430	429.52	29.5	5.9128	30.1	6 16 48.1	14 18 54.4	28.9	Sutō	,,
,, ,, 22 [illegible]0	0.29484	430.08	26.9	5.9017	26.9	6 16 55.6	14 19 55.6	27.0	Nakamura	Imamura
,, 4th 9 10	0.29425	429.51	29.1	5.9109	28.7	6 16 46.9	14 19 14.4	29.6	,,	Sutō
Mean	0.29458									

	H =	0.29458
Reduction to	1895.0 =	−312
,, ,,	sea level =	26
	H =	0.29455

226. HATIMAN.

Suwa-zinsya (岡山村字小舟木諏訪神社)

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 1st 14h 49m	4° 47′ 44″	Katō	Tomoda
,, ,, 16 14	,, 46 2	Tomoda	Katō
,, ,, 16 45	,, 45 40	,,	,,
,, ,, 18 17	,, 44 53	,,	,,
,, ,, 19 56	,, 44 54	Katō	,,
,, ,, 22 59	,, 44 45	Tomoda	Tomoda
,, 2nd 1 50	,, 44 21	,,	,,
,, ,, 4 49	,, 43 49	,,	,,
,, ,, 7 6	,, 41 21	,,	,,
,, ,, 8 22	,, 40 8	Katō	Katō
,, ,, 9 42	,, 41 52	Tomoda	,,
,, ,, 11 5	,, 45 23	Katō	Tomoda
,, ,, 12 25	,, 47 14	Tomoda	,,
,, ,, 13 53	,, 47 52	,,	Katō
Mean	4° 44′ 37″		

$\delta = 4° \; 44'.62$

Reduction to 1895.0 = −1.53

,, ,, sea level = 0.00

$\delta = 4° \; 43'.1$

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
June 30th 17h 36m	—	48° 52′.4	Tomoda	Katō
July 1st 15 50	—	,, 49.6	Katō	Tomoda
,, 2nd 10 36	—	,, 52.0	Tomoda	Katō
Mean		48° 51′.3		

$\theta = 48° \; 51'.30$

Reduction to 1895.0 = 1.50

,, ,, sea level = −0.01

$\theta = 48° \; 52'.8$

HORIZONTAL INTENSITY (*H*)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 1st 17h 42m	0.30212	425.09	23°.8C	s 5.8161	24°.3C	6° 4′21″.2	13°45′43″.7	23°.3C	Tomoda / Katō	Katō / Tomoda
,, 2nd 9 11	0.30207	425.07	24.7	5.8151	24.4	6 4 7.5	13 44 43.7	25.1	Tomoda / Katō	Katō / Tomoda
,, ,, 13 30	0.30210	424.17	27.3	5.8217	27.2	6 3 31.2	13 43 37.5	27.4	Tomoda / Katō	Katō / Tomoda
Mean	0.30210									

H = 0.30210

Reduction to 1895.0 = −1982

,, ,, sea level = 64

H = 0.30191

227. KYŌTO.

Imperial University (京都帝國大學)

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)				δ			Observer	Recorder
July	3rd	16h	5m	4°	47′	35″	Katō	Tomoda
,,	,,	17	10	,,	47	4	Tomoda	Katō
,,	,,	18	35	,,	46	43	,,	,,
,,	,,	19	38	,,	46	33	Katō	Tomoda
,,	,,	21	9	,,	49	46	,,	,,
,,	,,	22	42	,,	47	2	,,	Katō
,,	4th	1	8	,,	46	4	,,	,,
,,	,,	2	47	,,	44	3	,,	,,
,,	,,	5	32	,,	44	8	,,	,,
,,	,,	7	21	,,	43	28	,,	,,
,,	,,	8	47	,,	42	0	,,	Tomoda
,,	,,	9	57	,,	44	25	Tomoda	Katō
,,	,,	12	24	,,	51	35	Katō	Tomoda
,,	,,	13	34	,,	51	56	Tomoda	Katō
,,	,,	14	46	,,	51	10	Katō	Tomoda
,,	,,	15	44	,,	50	5	,,	,,
,,	,,	16	46	,,	47	58	Tomoda	Katō
,,	,,	17	44	,,	47	18	Katō	,,
,,	,,	18	31	,,	48	18	Tomoda	Tomoda
,,	,,	20	10	,,	48	29	,,	,,
Mean				4°	46′	41″		

	δ = 4°	46′68
Reduction to	1895.0 =	−1.45
,, ,,	sea level =	0.00
	δ = 4°	45′2

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)				Needle No.	θ		Observer	Recorder
July	3rd	18h	7m	—	48°	50′2	Katō	Tomoda
,,	4th	6	56	—	,,	45.5	Tomoda	Katō
,,	,,	11	0	—	,,	41.9	,,	Tomoda
,,	,,	16	13	—	,,	46.8	Katō	,,
,,	,,	17	21	—	,,	45.8	Tomoda	Katō
Mean					48°	46′0		

	θ = 48°	46′00
Reduction to	1895.0 =	1.66
,, ,,	sea level =	−0.01
	θ = 48°	47′7

HORIZONTAL INTENSITY (H)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)				H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July	3rd	20h	33m	0.30208	425.40	23°9 C	s 5.8063	23°9 C	6° 3′40″0	13°43′48″1	23°8C	Tomoda / Katō	Katō / Tomoda
,,	4th	8	21	0.30323	424.62	25.5	5.8052	24.2	6 2 17.5	13 40 51.3	26.9	Tomoda	Katō
,,	,,	14	26	0.30266	422.88	29.2	5.8252	30.2	6 1 55.6	13 40 16.2	28.3	,, / Katō	,, / Tomoda
,,	,,	19	38	0.30306	425.66	22.0	5.8088	22.1	6 4 0.6	13 45 9.4	21.9	Tomoda / Katō	Katō / Tomoda
Mean				0.30276									

	H =	0.30276
Reduction to	1895.0 =	−2064
,, ,,	sea level =	51
	H =	0.30256

228. SASAYAMA.

Hōmeigizyuku (鳳 鳴 義 塾)

DECLINATION (δ)
Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 7th 13h 54m	4° 54′ 10″	Katō	Tomoda
,, ,, 15 28	,, 53 33	,,	Katō
,, ,, 17 15	,, 50 39	,,	Tomoda
,, ,, 18 11	,, 49 34	,,	,,
,, ,, 19 36	,, 50 8	Tomoda	,,
,, ,, 21 23	,, 50 4	Katō	Katō
,, ,, 22 25	,, 50 8	,,	,,
,, 8th 3 11	,, 49 24	,,	,,
,, ,, 6 4	,, 48 3	,,	,,
,, ,, 7 35	,, 48 10	,,	,,
,, ,, 9 12	,, 47 8	Tomoda	Tomoda
,, ,, 10 1	,, 48 12	,,	Katō
,, ,, 11 1	,, 49 47	,,	,,
,, ,, 12 30	,, 51 56	,,	,,
,, ,, 13 35	,, 52 16	Katō	Tomoda
,, ,, 14 56	,, 51 44	Tomoda	Katō
,, ,, 16 12	,, 50 30	Katō	Tomoda
,, ,, 17 50	,, 49 19	,,	,,
,, ,, 19 15	,, 49 46	,,	Katō
Mean	4° 49′ 52″		

$\delta = 4°\ 49'.87$
Reduction to 1895.0 = −1.43
,, ,, sea level = −0.02
$\delta = 4°\ 48'.4$

DIP (θ)
Observations of the Kinki Party, 1896.

Date and Hour Mean Local Time.	Needle No.	θ	Observer	Recorder
July 7th 17h 32m	—	48° 53′.9	Tomoda	Katō
,, 8th 10 41	—	,, 55.1	Katō	Tomoda
,, ,, 15 46	—	,, 55.9	Tomoda	Katō
Mean		48° 55′.0		

$\theta = 48°\ 55'.0$
Reduction to 1895.0 = 2.28
,, ,, sea level = −0.03
$\theta = 48°\ 57'.3$

HORIZONTAL INTENSITY (H)
Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 7th 19h 4m	0.30314	423.74	26°.0C	s 5.8148	26°.2C	6° 2′35″.6	13°42′26″.2	25°.9C	Tomoda / Katō	Katō / Tomoda
,, 8th 8 42	0.30207	424.33	24.8	5.8156	24.8	6 3 6.2	13 42 41.2	24.7	Tomoda / Katō	Katō / Tomoda
,, ,, 14 29	0.30283	423.89	26.6	5.8165	26.5	6 2 30.6	13 41 28.8	26.7	Tomoda / Katō	Katō / Tomoda
,, ,, 18 49	0.30232	424.40	23.6	5.8183	23.8	6 3 38.1	13 43 58.1	23.5	Tomoda / Katō	Katō / Tomoda
Mean	0.30259									

$H = 0.30259$
Reduction to 1895.0 = −2324
,, ,, sea level = 318
$H = 0.30239$

229. MIYATU.

High Common School (第一高等小學校運動場)

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour. (Mean Local Time.)	δ	Observer	Recorder
July 10th 12h 10m	4° 53′ 20″	Katō	Tomoda
,, ,, 13 13	,, 54 40	,,	,,
,, ,, 14 57	,, 53 30	Tomoda	Katō
,, ,, 16 29	,, 53 2	Katō	,,
,, ,, 17 44	,, 52 19	,,	Tomoda
,, ,, 18 52	,, 52 15	,,	Katō
,, ,, 20 20	,, 52 4	,,	,,
,, ,, 21 24	,, 52 34	Tomoda	Tomoda
,, 11th 1 4	,, 52 10	,,	,,
,, ,, 4 56	,, 50 35	,,	,,
,, ,, 6 33	,, 48 27	,,	,,
,, ,, 7 45	,, 48 23	Katō	,,
,, ,, 8 55	,, 49 14	,,	Katō
,, ,, 10 3	,, 51 44	,,	,,
,, ,, 11 13	,, 54 20	,,	,,
,, ,, 13 5	,, 56 23	,,	Tomoda
,, ,, 13 31	,, 56 23	,,	,,
,, ,, 14 50	,, 55 22	Tomoda	Katō
,, ,, 15 44	,, 55 26	,,	,,
Mean	4° 52′ 9″		

	$\delta = 4°\ 52'.15$
Reduction to 1895.0 =	−1.71
,, ,, sea level =	0.00
	$\delta = 4°\ 50'.4$

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 10th 17h 20m	—	49° 24′.5	Tomoda	Katō
,, 11th 5 56	—	,, 24.3	,,	Tomoda
,, ,, 10 36	—	,, 27.5	Katō	Katō
Mean		49° 25′.4		

	$\theta = 49°\ 25'.40$
Reduction to 1895.0 =	2.75
,, ,, sea level =	0.00
	$\theta = 49°\ 28'.2$

HORIZONTAL INTENSITY (H)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 10th 14h 30m	0.30196	423.19	28°.4C	s 5.8304	28°.7C	6° 2′59″.4	13°42′31″.9	28°.1C	Tomoda, Katō	Katō, Tomoda
,, ,, 20 12	0.30172	424.65	21.9	5.8217	22.4	6 4 38.1	13 46 23.1	21.5	Tomoda, Katō	Katō
,, 11th 8 27	0.30181	424.27	23.8	5.8233	23.5	6 4 7.5	13 45 14.4	24.0	Tomoda, Katō	,, Tomoda
,, ,, 14 17	0.30182	422.59	28.8	5.8367	29.4	6 2 46.3	13 42 6.3	28.3	Tomoda, Katō	Katō, Tomoda
Mean	0.30183									

	$H = 0.30183$
Reduction to 1895.0 =	−2366
,, ,, sea level =	000
	$H = 0.30159$

230. OBAMA.

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 12th 17h 5m	4° 59′ 34″	Katō	Tomoda
,, ,, 18 2	,, 57 56	Tomoda	Katō
,, ,, 19 34	,, 56 54	Katō	Tomoda
,, ,, 20 42	,, 57 56	,,	Katō
,, ,, 21 27	,, 58 15	,,	,,
,, 13th 0 11	,, 58 12	,,	,,
,, ,, 1 41	,, 57 36	,,	,,
,, ,, 6 5	,, 55 29	,,	,,
,, ,, 7 28	,, 53 16	,,	,,
,, ,, 8 10	,, 54 14		
,, ,, 9 19	,, 55 35	Tomoda	Tomoda
,, ,, 10 30	,, 54 7	,,	,,
,, ,, 11 58	,, 58 50	,,	Katō
,, ,, 13 17	5 2 25	Katō	Tomoda
,, ,, 14 38	,, 2 7	Tomoda	Katō
,, ,, 15 46	,, 1 2	Katō	Tomoda
,, ,, 16 39	5 59 42	,,	,,
,, ,, 17 51	,, 57 21	Tomoda	Katō
Mean	4° 57′ 49″		

$\delta = 4°\ 57'.82$

Reduction to 1895.0 = −1.73

,, ,, sea level = 0.00

$\delta = 4°\ 56'.1$

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder.
July 13th 6h 59m	—	49° 24′.0	Katō	Katō
,, ,, 11 31	—	,, 20.7	Tomoda	Tomoda
,, ,, 17 14	—	,, 17.0	,,	Katō
,, ,, 18 27	—	,, 18.0	Katō	Tomoda
Mean		49° 19′.9		

$\theta = 49°\ 19'.9$

Reduction to 1895.0 = 2.14

,, ,, sea level = 0.00

$\theta = 49°\ 22'.0$

HORIZONTAL INTENSITY (H)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_b	Observer	Recorder
July 12th 19h 6m	0.30077	423.45	26°0 C	s 5.8400	26°2 C	6° 4′29″.4	13°45′42″.5	25°.8 C	Tomoda, Katō	Katō
,, 13th 8 46	0.30132	422.91	28.6	5.8363	27.7	6 3 8.8	13 42 48.1	29.5	Tomoda, Katō	,, Tomoda
,, ,, 14 12	0.30174	422.30	31.1	5.8395	31.7	6 2 21.9	13 40 55.0	30.5	Tomoda, Katō	Katō Tomoda
Mean	0.30096									

$H = 0.30096$

Reduction to 1895.0 = −2159

,, ,, sea level = 000

$H = 0.30074$

231. SAKAI.

Ōhama Park (大濱四丁遊園地)

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 17th 18h 30m	4° 31′ 31″	Katō	Katō
,, ,, 19 38	,, 31 2	,,	,,
,, ,, 20 38	,, 31 18	,,	,,
,, ,, 22 7	,, 31 56	Tomoda	,,
,, ,, 23 52	,, 31 7	Katō	,,
,, 18th 1 7	,, 31 22	,,	,,
,, ,, 5 43	,, 31 7	,,	,,
,, ,, 7 12	,, 29 37	Tomoda	Tomoda
,, ,, 8 11	,, 29 9	Katō	,,
,, ,, 9 19	,, 28 34	Tomoda	Katō
,, ,, 10 18	,, 29 39	Nakamura	,,
,, ,, 11 16	,, 31 5	Katō	Nakamura
,, ,, 12 9	,, 32 29	Tomoda	Tomoda
,, ,, 13 11	,, 34 7	Katō	Nakamura
,, ,, 14 12	,, 34 37	Nakamura	Tomoda
,, ,, 15 19	,, 34 26	,,	Katō
,, ,, 16 24	,, 34 11	,,	Nakamura
,, ,, 17 4	,, 33 45	Katō	,,
,, ,, 18 20	,, 32 19	Nakamura	,,
,, ,, 19 29	,, 31 59	,,	,,
Mean	4° 31′ 38″		

$\delta = 4°\ 31'.63$

Reduction to 1895.0 = −1.21

,, ,, sea level = 0.00

$\delta = 4°\ 30'.4$

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 18th 10h 44m	—	48° 44′.2	Tomoda	Katō
,, ,, 14 40	—	,, 31.2	Nakamura	,,
,, ,, 15 58	—	,, 33.1	Katō	Nakamura
,, ,, 18 59	—	,, 32.3	Tomoda	,,
Mean		48° 35′.2		

$\theta = 48°\ 35'.2$

Reduction to 1895.0 = 1.70

,, ,, sea level = 0.00

$\theta = 48°\ 36'.9$

HORIZONTAL INTENSITY (H)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 18th 8h 51m	0.30398	422.57	29°.3C	s 5.8148	29°.3C	5 59 53.1	13 35 18.1	29.3C	Tomoda / Katō	Katō / Tomoda
,, ,, 13 50	0.30382	420.95	33.4	5.8292	34.1	5 58 45.0	13 32 37.5	32.7	,, / Nakamura	Nakamura / Katō
,, ,, 17 57	0.30427	422.55	29.7	5.8136	30.4	5 59 41.2	13 34 50.0	29.0	,, / Katō	,, / Nakamura
,, ,, 20 22	0.30432	422.66	28.5	5.8113	28.7	5 59 47.5	13 35 18.8	28.2	,, / Tomoda	,, / Katō
Mean	0.30410									

$H = 0.30410$

Reduction to 1895.0 = −2270

,, ,, sea level = 000

$H = 0.30387$

232. IKUNO.

Common School (學 校 敷 地)

DECLINATION (δ) (255)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 20th 11h 3m	4° 51′ 48″	Katō	Nakamura
,, ,, 12 3	,, 52 44	Nakamura	Katō
,, ,, 12 58	,, 53 38	,,	Nakamura
,, ,, 14 8	,, 53 22	Katō	Katō
,, ,, 15 37	,, 54 2	,,	Nakamura
,, ,, 16 14	,, 53 47	Nakamura	Katō
,, ,, 16 33	,, 53 32	Katō	,,
,, ,, 17 33	,, 52 37	,,	Nakamura
,, ,, 18 15	,, 52 4	Nakamura	Katō
,, ,, 19 14	,, 51 56	,,	,,
,, ,, 20 14	,, 52 46	,,	Nakamura
,, ,, 21 17	,, 52 29	,,	,,
,, ,, 23 43	,, 52 36	,,	,,
,, 21st 4 29	,, 50 31	,,	,,
,, ,, 5 27	,, 50 16	,,	,,
,, ,, 6 32	,, 49 9	,,	,,
,, ,, 7 30	,, 48 56	Katō	,,
,, ,, 8 30	,, 49 42	,,	Katō
,, ,, 9 30	,, 49 16	,,	,,
,, ,, 10 26	,, 51 53	,,	,,
,, ,, 11 35	,, 52 47	,,	,,
,, ,, 12 34	,, 53 20	,,	,,
,, ,, 13 34	,, 52 59	,,	,,
,, ,, 14 36	,, 54 8	Nakamura	,,
,, ,, 15 16	,, 54 29	,,	Katō
,, ,, 15 21	,, 54 11	Katō	Nakamura
,, ,, 17 26	,, 53 37	,,	Katō
,, ,, 18 45	,, 53 9	Nakamura	Nakamura
Mean	4° 51′ 49″		

$\delta = 4°\ 51'.82$

Reduction to 1895.0 = −1.48

,, ,, sea level = −0.02

$\delta = 4°\ 50'.3$

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 20th 15h 7m	—	49° 11′.5	Nakamura	Katō
,, ,, 17 11	—	,, 10.7	Katō	Nakamura
,, ,, 20 53	—	,, 11.1	,,	Katō / Nakamura
,, 21st 5 57	—	,, 2.1	Nakamura	,,
,, ,, 12 52	—	,, 0.4	,,	Katō
,, ,, 13 59	—	,, 3.6	Katō	Nakamura
,, ,, 16 44	—	,, 5.2	Nakamura	Katō
Mean		49° 6′.4		

$\theta = 49°\ 6'.4$

Reduction to 1895.0 = 2.79

,, ,, sea level = −0.03

$\theta = 49°\ 9'.2$

HORIZONTAL INTENSITY (H)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
July 20th 13h 42m	0.30184	422.93	25°.3 C	5.8335	25°.3 C	6° 2′ 50″.6	13° 42′ 0″.6	25.1 C	Katō / Nakamura	Nakamura / Katō
,, ,, 18 45	0.30182	423.19	25.1	5.8311	25.2	6 3 3.8	13 42 30.6	25.1	,, / Katō	,, / Nakamura
,, ,, 21 55	0.30175	423.55	24.5	5.8299	24.9	6 3 20.6	13 42 51.9	24.2	,, / Nakamura	,, / Katō
,, 21st 8 6	0.30209	423.71	24.7	5.8248	24.6	6 3 4.4	13 42 25.6	24.8	,, / Katō	,, / Nakamura
Mean	0.30187									

$H = 0.30187$

Reduction to 1895.0 = −2527

,, ,, sea level = 320

$H = 0.30165$

233. TOYOOKA.

Middle School (豊岡尋常中學校敷地)

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 23rd 7h 44m	4° 58′ 0″	Katō	Nakamura
,, ,, 9 9	5 0 26	Tomoda	Katō
,, ,, 9 54	,, 1 56	Nakamura	Nakamura
,, ,, 11 1	,, 4 6	Katō	,,
,, ,, 11 54	,, 4 57	Tomoda	,,
,, ,, 12 34	,, 5 14	Nakamura	Katō
,, ,, 13 43	,, 5 14	Katō	Nakamura
,, ,, 14 54	,, 4 18	Tomoda	,,
,, ,, 15 58	,, 3 54	Katō	Tomoda
,, ,, 17 15	,, 2 36	Tomoda	Katō
,, ,, 18 46	,, 1 44	,,	Tomoda
,, ,, 19 47	,, 2 9	Katō	Nakamura
,, ,, 22 1	,, 1 43	,,	,,
,, 24th 0 37	,, 1 13	Tomoda	Tomoda
,, ,, 5 8	4 58 38	,,	,,
,, ,, 6 33	,, 56 44	,,	,,
Mean	5° 1′ 31″		

$\delta = 5°\ 1\!'\!57$

Reduction to 1895.0 = −1.65

,, ,, sea level = −0.00

$\delta = 4°\ 59\!'\!9$

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 23rd 9h 37m	—	49° 31′1	Nakamura	Tomoda
,, ,, 11 33	—	,, 28.3	Katō	,,
,, ,, 18 8	—	,, 25.2	Tomoda	,,
,, ,, 20 40	—	,, 25.8	Katō	Katō
,, 24th 5 58	—	,, 24.7	Tomoda	Tomoda
Mean		49° 27′0		

$\theta = 49°\ 27\!'\!0$

Reduction to 1895.0 = 3.28

,, ,, sea level = 0.00

$\theta = 49°\ 30\!'\!3$

HORIZONTAL INTENSITY (H)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 23rd 8h 35m	0.30200	421.06	32°6C	5.8439 s	32°3C	6° 1′ 1″9	13°38′18″8	33°0C	Tomoda / Katō	Katō / Tomoda
,, ,, 13 21	0.30208	419.56	37.2	5.8556	37.9	5 59 35.6	13 34 41.9	36.7	,, / Nakamura	Nakamura / Katō
,, ,, 16 40	0.30232	419.85	35.8	5.8521	36.9	5 59 51.9	13 35 35.6	34.7	Nakamura / Tomoda	Katō / Nakamura
Mean	0.30213									

$H = 0.30213$

Reduction to 1895.0 = −2604

,, ,, sea level = .000

$H = 0.30187$

234. TOTTORI.

Normal School (鳥取尋常師範學校)

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 25th 12h 17m	5° 10′ 42″	Katō	Tomoda
„ „ 12 50	„ 11 10	Nakamura	Katō
„ „ 14 1	„ 11 28	„	Tomoda
„ „ 14 44	„ 10 19	Tomoda	Katō
„ „ 15 57	„ 7 51	Katō	Nakamura
„ „ 16 39	„ 6 48	Nakamura	Katō
„ „ 17 34	„ 6 3	Tomoda	Nakamura
„ „ 18 26	„ 5 51	Nakamura	„
„ „ 19 42	„ 6 26	„	„
„ „ 21 14	„ 5 58	Katō	Tomoda
„ „ 22 26	„ 6 20	Nakamura	Nakamura
„ 26th 0 30	„ 5 5	„	„
„ „ 3 22	„ 4 27	„	„
„ „ 5 17	„ 4 6	„	„
„ „ 6 33	„ 1 54	„	„
„ „ 7 32	„ 0 50	„	„
„ „ 8 15	„ 1 38	Katō	Tomoda
„ „ 9 24	„ 3 33	„	„
„ „ 10 35	„ 7 6	Tomoda	„
„ „ 11 19	„ 8 53	„	„
„ „ 12 3	„ 10 12	„	„
Mean	5° 5′ 59″		

$\delta = 5°\ 5'.98$

Reduction to 1895.0 = −1.58

„ „ sea level = 0.00

$\delta = 5°\ 4'.4$

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 25th 14h 24m	—	49° 39′.9	Katō	Tomoda
„ „ 17 9	—	„ 42.8	Tomoda	Katō
„ 26th 5 45	—	„ 41.8	Nakamura	Nakamura
„ „ 9 59	—	„ 41.5	Tomoda	Katō
Mean		49° 41′.5		

$\theta = 49°\ 41'.5$

Reduction to 1895.0 = 3.77

„ „ sea level = 0.00

$\theta = 49°\ 45'.3$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibratoin only by assuming Value of M.*)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 25th 13h 38m	*0.30189	421.04	32°.1C	5.8389 s	32°.9C	(6° 0′56″.3	13°37′18″.1	32°.1C)	Tomoda / Nakamura	Nakamura / Tomoda
„ „ 18 5	0.30169	421.29	30.3	5.8475	31.2	6 1 48.1	13 39 48.1	29.4	„ / Katō	Katō / Nakamura
„ „ 21 59	0.30197	423.50	24.3	5.8279	24.6	6 3 16.2	13 43 8.1	24.1	Tomoda / Katō	Katō / Tomoda
„ 26th 9 5	0.30162	421.10	31.6	5.8469	31.2	6 1 21.9	13 38 48.8	32.0	Tomoda / Katō	Katō / Tomoda
Mean	0.30179									

$H = 0.30179$

Reduction to 1895.0 = −2815

„ „ sea level = 000

$H = 0.30151$

235. HASIZU.

Ruin of Fort (舊 臺 場)

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 27th 0h 57m	5° 2′ 23″	Katō	Katō
,, ,, 1 19	,, 2 27	,,	,,
,, ,, 4 28	,, 1 23	,,	,,
,, ,, 6 58	4 58 38	,,	,,
,, ,, 7 28	,, 58 52	Tomoda	Nakamura
,, ,, 9 2	,, 59 52	Nakamura	Tomoda
,, ,, 9 37	5 0 41	Tomoda	Nakamura
,, ,, 10 43	,, 2 45	Nakamura	Tomoda
,, ,, 11 34	,, 4 10	Tomoda	,,
,, ,, 12 36	,, 6 8	Katō	Nakamura
,, ,, 13 21	,, 7 8	Nakamura	Katō
,, ,, 14 11	,, 6 51	Katō	,,
,, ,, 15 11	,, 4 59	Nakamura	,,
,, ,, 16 10	,, 2 59	Katō	Nakamura
,, ,, 17 2	,, 1 51	Nakamuaa	Katō
,, ,, 19 2	,, 2 53	,,	Nakamura
,, ,, 19 55	,, 3 5	,,	,,
,, ,, 20 37	,, 2 55	Katō	,,
,, ,, 21 40	,, 2 20	Nakamura	Katō
,, ,, 23 6	,, 3 5	Katō	Nakamura
Mean	5° 2′ 29″		

δ = 5° 2′.48

Reduction to 1895.0 = −1.49

,, ,, sea level = 0.00

δ = 5° 1′.0

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 27th 10h 16m	—	49° 41′.0	Tomoda	Tomoda
,, ,, 13 41	—	,, 46.5	Nakamura	Katō
,, ,, 15 35	—	,, 42.2	Katō	Nakamura
,, ,, 19 40	—	,, 46.3	Nakamura	,,
,, ,, 22 19	—	,, 43.8	,,	,,
Mean		49° 45′.0		

θ = 49° 45′.0

Reduction to 1895.0 = 4.08

,, ,, sea level = 0.00

θ = 49° 49′.1

HORIZONTAL INTENSITY (*H*)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 27th 9h 5m	0.30238	422.75	26°.3C	s 5.8281	26°.1C	6° 1′56″.2	13°40′ 0″.6	26°.6C	Tomoda	Nakamura
,, ,, 13 3	0.30243	421.16	30.7	5.8407	31.3	6 0 45.0	13 37 27.5	30.2	Nakamura / Katō	Katō / Nakamura
,, ,, 16 46	0.30233	421.51	28.4	5.8397	29.3	6 1 20.0	13 38 49.4	27.5	,, / Nakamura	,, / Katō
,, ,, 21 21	0.30219	422.90	25.4	5.8299	25.5	6 2 23.1	13 41 0.0	25.3	,, / Katō	,, / Nakamura
Mean	0.30233									

H = 0.30233

Reduction to 1895.0 = −2936

,, ,, sea level = 000

H = 0.30204

236. TUYAMA.

Middle School (津山尋常中學校敷地)

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 29th 18h 54m	4° 48′ 52″	Katō	Nakamura
,, ,, 19 18	,, 48 31	Nakamura	Katō
,, ,, 20 18	,, 49 4	Katō	Tomoda
,, ,, 22 3	,, 48 44	Tomoda	,,
,, ,, 22 57	,, 48 10	,,	,,
,, 30th 1 20	,, 47 28	,,	,,
,, ,, 5 52	,, 46 7	,,	,,
,, ,, 6 54	,, 45 37	Katō	,,
,, ,, 7 30	,, 45 14	Nakamura	Katō
,, ,, 8 25	,, 44 54	Natō	Nakamure
,, ,, 9 25	,, 45 7	Nakamura	Katō
,, ,, 10 19	,, 46 23	Katō	Nakamura
,, ,, 11 18	,, 47 54	Nakamura	Katō
,, ,, 12 31	,, 49 42	Katō	Nakamura
,, ,, 13 11	,, 50 0	Tomoda	Katō
,, ,, 14 9	,, 50 5	Katō	Tomoda
,, ,, 15 8	,, 49 19	Nakamura	,,
,, ,, 16 11	,, 49 4	Katō	Tomoda
,, ,, 17 15	,, 48 11	Tomoda	Nakamura
,, ,, 18 43	,, 48 28	Nakamura	Katō
,, ,, 19 29	,, 48 45	Katō	Nakamura
Mean	4° 47′ 42″		

$\delta = 4°\ 47'.70$

Reduction to 1895.0 = −1.28

,, ,, sea level = −0.01

$\delta = 4°\ 46'.4$

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 30th 0h 46m	—	48° 51′.6	Tomoda	Tomoda
,, ,, 8 51	—	49 8.1	Nakamura	Katō
,, ,, 11 3	—	,, 7.5	Katō	Nakamura
,, ,, 14 45	—	,, 3.1	Tomoda	,,
,, ,, 15 41	—	,, 1.9	Katō	Tomoda
,, ,, 16 31	—	,, 4.3	Nakamura	Katō
,, ,, 19 53	—	,, 3.7	,,	,,
Mean		49° 2′.9		

$\theta = 49°\ 2'.0$

Reduction to 1895.0 = 3.64

,, ,, sea level = −0.01

$\theta = 49°\ 6'.5$

HORIZONTAL INTENSITY (H)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 29th 19h 57m	0.30373	421.80	27°.4C	s 5.8227	27°.6C	5°59′34″.4	13°34′31″.2	27°.3C	Katō / Nakamura	Nakamura / Katō
,, 30th 8 1	0.30412	421.81	28.9	5.8176	28.4	5 59 1.9	13 33 27.5	29.3	,, / Katō	,, / Nakamura
,, ,, 13 50	0.30407	420.55	32.3	5.8281	32.5	5 58 8.1	13 31 25.0	32.2	Tomoda / Katō	Katō / Tomoda
,, ,, 18 22	0.30389	422.37	26.5	5.8175	26.8	5 59 55.0	13 35 19.0	26.3	Katō / Tomoda	Tomoda / Nakamura
Mean	0.30395									

$H = 0.30395$

Reduction to 1895.0 = −2904

,, ,, sea level = 115

$H = 0.30367$

237. OKAYAMA.

Bleaching ground on river bank (西大河々畔布晒場)

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)				δ			Observer	Recorder
Aug.	1st	11h	0m	4°	40′	56″	Nakamura	Tomoda
,,	,,	11	27	,,	41	26	Tomoda	Nakamura
,,	,,	12	25	,,	43	18	Katō	,,
,,	,,	13	34	,,	44	7	Nakamura	Tomoda
,,	,,	14	18	,,	44	7	Tomoda	Nakamura
,,	,,	15	23	,,	42	55	Nakamura	,,
,,	,,	16	20	,,	41	45	Katō	Tomoda
,,	,,	17	20	,,	41	10	Tomoda	Katō
,,	,,	18	44	,,	40	34	Katō	,,
,,	,,	19	37	,,	41	7	,,	,,
,,	,,	21	11	,,	38	58	Nakamura	Tomoda
,,	,,	22	50	,,	40	54	,,	Nakamura
,,	2nd	0	58	,,	40	59	,,	,,
,,	,,	1	59	,,	39	34	,,	,,
,,	,,	4	2	,,	38	41	,,	,,
,,	,,	7	58	,,	35	7	,,	Katō
,,	,,	8	30	,,	36	46	Katō	Tomoda
,,	,,	9	25	,,	38	43	Nakamura	,,
,,	,,	10	33	,,	39	59	,,	Nakamuru
,,	,,	11	45	,,	41	46	Tomoda	,,
,,	,,	12	5	,,	42	37	Nakamura	Tomoda
,,	,,	13	5	,,	44	38	Tomoda	Nakamura
Mean				4°	40′	4″		

$\delta = 4°\ 40'.07$

Reduction to 1895.0 = −1.01

,, ,, sea level = 0.00

$\delta = 4°\ 39'.1$

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)				Needle No.	θ		Observer	Recorder
Aug.	1st	14h	44m	—	48°	34.6	Nakamura	Tomoda
,,	,,	19	7	—	,,	34.4	Katō	Katō
,,	,,	20	44	—	,,	39.1	Tomoda	,, Nakamura Tomoda
,,	2nd	6	57	—	,,	35.5	Katō	,,
,,	,,	11	17	—	,,	37.2	Tomoda	,,
Mean					48°	36.2		

$\theta = 48°\ 36'.2$

Reduction to 1895.0 = 3.17

,, ,, sea level = 0.00

$\theta = 48°\ 39'.4$

HORIZONTAL INTENSITY (H)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)				H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_V	Observer	Recorder
Aug.	1st	13h	56m	0.30578	420.08	32.1C	5.8151	32.2C	5°55′37″.5	13°25′32″.5	32.1C	Katō Nakamura	Nakamura Tomoda
,,	,,	16	57	0.30598	420.47	31.1	5.8111	31.5	5 55 55.6	13 26 25.6	30.8	Katō Tomoda	Nakamura Katō
,,	,,	22	29	0.30538	421.27	28.7	5.8104	28.9	5 57 1.9	13 28 30.6	28.5	Nakamura Tomoda	,, Nakamura
,,	2nd	9	8	0.30576	420.58	32.2	5.8108	31.9	5 55 58.8	13 26 21.9	32.6	,, Nakamura	,, Tomoda
Mean				0.30572									

$H = 0.30572$

Reduction to 1895.0 = −2912

,, ,, sea level = 000

$H = 0.30543$

238. AKŌ.

Old Castle (舊 城 趾)

DECLINATION(δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 3rd 9h 35m	4° 43′ 56″	Nakamura	Katō
,, ,, 10 35	,, 44 28	Katō	Tomoda
,, ,, 11 28	,, 44 53	Tomoda	Katō
,, ,, 12 24	,, 47 26	Katō	Tomoda
,, ,, 14 1	,, 44 48	Tomoda	Katō
,, ,, 14 35	,, 44 17	Nakamura	,,
,, ,, 16 3	,, 39 33	,,	Tomoda
,, ,, 16 39	,, 39 19	Katō	,,
,, ,, 17 52	,, 38 56	Tomoda	Nakamura
,, ,, 19 2	,, 39 31	Nakamura	,,
,, ,, 20 33	,, 39 59	Katō	,,
,, ,, 21 26	,, 39 31	Tomoda	Katō
,, ,, 23 48	,, 40 27	Katō	,,
,, 4th 0 27	,, 39 45	,,	,,
,, ,, 3 32	,, 39 57	,,	,,
,, ,, 5 25	,, 38 47	,,	,,
,, ,, 6 19	,, 37 53	,,	,,
,, ,, 7 10	,, 37 38	Nakamura	Tomoda
,, ,, 8 22	,, 38 39	Tomoda	Nakamura
,, ,, 9 15	,, 39 17	Katō	Katō
,, ,, 10 27	,, 41 44	Tomoda	Tomoda
,, ,, 11 23	,, 42 52	Katō	,,
,, ,, 12 2	,, 42 49	,,	,,
Mean	4° 40′ 20″		

$\delta = 4° \ 40'.33$

Reduction to 1895.0 = −1.18

,, ,, sea level = 0.00

$\delta = 4° \ 39'.2$

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 3rd 11h 2m	—	48° 39′.8	Tomoda	Katō
,, ,, 15 0	—	,, 37.2	Katō	Tomoda
,, ,, 15 37	—	,, 39.5	Tomoda	Katō
,, ,, 20 0	—	,, 38.8	,,	Tomoda, Nakamura
,, ,, 21 52	—	,, 39.0	Nakamura	Tomoda
,, 4th 6 42	—	,, 39.0	Katō	Katō
Mean		48° 39′.9		

$\theta = 48° \ 39'.9$

Reduction to 1895.0 = 3.01

,, ,, sea level = 0.00

$\theta = 48° \ 41'.9$

HORIZONTAL INTENSITY (H)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 3rd 13h 32m	0.30520	419.99	33°.1C	5.8220	33°.6C	5.56′26″.9	13°27′38″.1	32°.7C	Tomoda, Katō	Katō, Tomoda
,, ,, 17 22	0.30524	420.11	32.6	5.8213	33.5	5 56 33.1	13 27 47.5	31.7	Nakamura, Tomoda	Katō, Nakamura
,, ,, 21 2	0.30505	421.32	28.4	5.8133	28.6	5 57 50.6	13 30 56.9	28.2	Katō, Nakamura	,, Katō
,, 4th 7 56	0.30516	421.76	28.3	5.8087	28.4	5 57 51.2	13 30 39.4	28.3	Tomoda	Nakamura
Mean	0.30516									

$H = 0.30516$

Reduction to 1895.0 = −2798

,, ,, sea level = 000

$H = 0.30488$

239. AKASI.

(衛濤館ノ東五十米許ナル海濱)

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 4th 20h 35m	4° 37′ 36″	Nakamura	Tomoda
,, ,, 21 53	,, 37 18	,,	Nakamura
,, 5th 0 8	,, 36 16	,,	,,
,, ,, 0 49	,, 36 30	,,	,,
,, ,, 4 19	,, 36 15	,,	,,
,, ,, 5 21	,, 35 32	,,	,,
,, ,, 6 22	,, 34 7	,,	,,
,, ,, 7 18	,, 33 46	,,	,,
,, ,, 7 49	,, 34 28	Katō	Tomoda
,, ,, 8 56	,, 36 1	Tomoda	Katō
,, ,, 9 54	,, 37 22	Katō	Tomoda
,, ,, 10 56	,, 38 39	Nakamura	,,
,, ,, 11 55	,, 38 54	Katō	Nakamura
,, ,, 12 56	,, 38 54	Tomoda	,,
,, ,, 14 1	,, 38 45	Nakamura	Katō
,, ,, 15 12	,, 38 37	,,	Nakamura
,, ,, 16 16	,, 37 52	,,	,,
,, ,, 17 18	,, 37 23	,,	Tomoda
,, ,, 18 20	,, 37 54	,,	,,
,, ,, 19 40	,, 37 40	,,	Nakamura
,, ,, 20 39	,, 37 29	,,	,,
Mean	4° 37′ 4″		

$\delta = 4° \; 37'.07$

Reduction to 1895.0 = −1.24

,, ,, sea level = 0.00

$\delta = 4° \; 35'.8$

DIP (θ)

Observations of the Kinki Party. 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 5th 4h 58m	—	48° 25′.5	Nakamura	Nakamura
,, ,, 6 56	—	,, 24.8	,,	,,
,, ,, 9 33	—	,, 31.7	Tomoda	Katō
,, ,, 10 20	—	,, 25.1	,,	,,
,, ,, 11 21	—	,, 26.2	Katō	Tomoda
,, ,, 16 51	—	,, 25.3	Tomoda	Nakamura
,, ,, 20 14	—	,, 29.0	Nakamura	,,
Mean		48° 26′.8		

$\theta = 48° \; 26'.8$

Reduction to 1895.0 = 2.23

,, ,, sea level = 0.00

$\theta = 48° \; 29'.0$

HORIZONTAL INTENSITY (H)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 4th 21h 28m	0.30488	421.60	26°.8C	s 5.8124	26°.8C	5°58′16″.9	13°31′59″.4	26°.9C	Katō / Nakamura	Nakamura / Katō
,, 5th 8 25	0.30459	421.72	27.6	5.8153	28.0	5 58 34.4	13 32 18.8	27.2	Tomoda / Katō	,, / Tomoda
,, ,, 13 43	0.30477	421.08	29.7	5.8181	30.1	5 57 48.1	13 30 32.5	29.4	Nakamura / Katō	Katō / Nakamura
,, ,, 17 58	0.30482	420.95	28.9	5.8183	29.3	5 57 46.2	13 30 43.8	28.6	Tomoda	,,
Mean	0.30476									

$H = 0.30476$

Reduction to 1895.0 = −2506

,, ,, sea level = 000

$H = 0.30451$

240. NARA.

Nara Park (奈良公園)

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 6th 18h 39m	4° 28′ 46″	Nakamura	Katō
„ „ 19 21	„ 28 26	Katō	„
„ „ 19 58	„ 28 42	Tomoda	Nakamura
„ „ 21 29	„ 28 30	Nakamura	Tomoda
„ „ 22 25	„ 28 39	Katō	„
„ „ 23 9	„ 28 50	„	Katō
„ 7th 1 35	„ 27 40	„	„
„ „ 4 11	„ 25 33	„	„
„ „ 5 26	„ 25 3	„	„
„ „ 6 33	„ 24 1	„	„
„ „ 7 31	„ 28 38	Tomoda	Nakamura
„ „ 7 46	„ 28 40	„	„
„ „ 8 59	„ 28 28	Nakamura	Tomoda
„ „ 9 29	„ 28 18	„	„
„ „ 10 38	„ 30 45	Katō	Nakamura
„ „ 11 29	„ 32 57	„	Katō
„ „ 12 32	„ 32 29	„	„
„ „ 12 51	„ 33 10	„	„
„ „ 13 29	„ 33 23	Nakamura	Nakamura
„ „ 14 9	„ 35 16	Katō	Tomoda
„ „ 15 19	„ 31 35	Tomoda	Katō
„ „ 13 10	„ 31 1	Nakamura	Nakamura
„ „ 16 42	„ 31 24	Katō	Tomoda
„ „ 17 41	„ 31 13	Tomoda	Nakamura
„ „ 18 55	„ 31 6	Nakamura	Tomoda
Mean	4° 28′ 55″		

$\delta = 4°\ 28'.92$

Reduction to 1895.0 = −1.33

„ „ sea level = 0.00

$\delta = 4°\ 27'.6$

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 6th 22h 6m	—	48° 36′.4	Nakamura	Tomoda
„ 7th 7 1	—	„ 32.5	Katō	Katō
„ „ 10 13	—	„ 34.9	Tomoda	Nakamura
„ „ 16 13	—	„ 48.0	Nakamura	„ / Katō
Mean		48° 38′.0		

$\theta = 48°\ 38'.0$

Reduction to 1895.0 = 1.28

„ „ sea level = 0.00

$\theta = 48°\ 39'.3$

HORIZONTAL INTENSITY.

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 6th 21h 8m	0.30302	421.29	28°.7C	5.8340	29°.1C	6° 0′ 7″.5	13°35′58″.8	28°.4C	Tomoda	Nakamura
„ 7th 8 40	0.30284	421.15	29.4	5.8344	28.9	5 59 56.2	13 35 31.9	30.0	„	„
„ „ 14 51	0.30264	419.08	34.3	5.8540	35.3	5 58 53.1	13 33 25.0	33.4	Tomoda / Katō	Katō / Tomoda
„ „ 19 33	*0.30233	420.72	29.7	5.8555	31.9	(6 0 15.6	13 36 10.0	29.7)	„ / Nakamura	Nakamura / Katō
Mean	0.30271									

$H = 0.30271$

Reduction to 1895.0 = −2160

„ „ sea level = 76

$H = 0.30250$

241. KAMIITI.

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 8th 16h 4m	4° 30′ 7″	Katō	Tomoda
,, ,, 16 54	,, 29 26	Tomoda	Katō
,, ,, 18 15	,, 28 48	Nakamura	,,
,, ,, 19 16	,, 29 2	Tomoda	Tomoda
,, ,, 20 16	,, 28 47	Nakamura	Nakamura
,, ,, 20 48	,, 28 51	,,	Tomoda
,, ,, 21 58	,, 28 0	,,	Nakamura
,, 9th 0 4	,, 28 20	,,	,,
,, ,, 1 0	,, 28 4	,,	,,
,, ,, 2 51	,, 26 50	,,	,,
,, ,, 4 25	,, 27 9	,,	,,
,, ,, 5 49	,, 25 15	,,	,,
,, ,, 6 49	,, 24 49	,,	,,
,, ,, 7 50	,, 24 54	,,	Tomoda
,, ,, 9 4	,, 25 59	Katō	,,
,, ,, 10 5	,, 27 11	,,	Katō
,, ,, 11 23	,, 29 53	Tomoda	,,
,, ,, 12 26	,, 31 13	Katō	,,
,, ,, 13 26	,, 31 14	Tomoda	,,
,, ,, 14 29	,, 30 15	Katō	Tomoda
,, ,, 15 7	,, 30 5	Tomoda	Katō
,, ,, 15 33	,, 29 49	Katō	,,
,, ,, 15 56	,, 29 35	,,	,,
,, ,, 16 41	,, 29 17	,,	Tomoda
Mean	4° 28′ 2″		

$\delta = 4° 28'.03$

Reduction to 1865.0 = −1.16

,, ,, sea level = −0.01

$\delta = 4° 26'.9$

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 8th 19h 13m	—	48° 1′.6	Katō	Nakamura
,, 9th 0 35	—	,, 5.2	Nakamura	,,
,, ,, 6 16	—	47 59.7	,,	,,
,, ,, 10 55	—	48 2.8	Tomoda	Katō
,, ,, 14 3	—	,, 3.0	Katō	Tomoda
Mean		48° 2′.5		

$\theta = 48° 2'.50$

Reduction to 1895.0 = 0.96

,, ,, sea level = −0.02

$\theta = 48° 3'.4$

HORIZONTAL INTENSITY (H)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 8th 18h 56m	0.30486	420.26	30°.7 C	s 5.8227	31°.2C	5°57′ 3″.8	13°29′ 0″.0	30°.4C	Nakamura / Katō	Katō / Nakamura
,, ,, 22 37	0.30498	421.26	27.4	5.8147	27.6	5 57 50.6	13 30 53.1	27.2	Tomoda	,,
,, 9th 9 41	0.30430	421.93	25.7	5.8161	25.9	5 58 54.4	13 32 48.8	25.6	,,	Katō
,, ,, 13 5	0.30460	420.67	29.5	5.8221	29.6	5 57 26.3	13 29 29.4	29.4	,, / Katō	,, / Tomoda
Mean	0.30468									

$H = 0.30468$

Reduction to 1895.0 = −2151

,, ,, sea level = 188

$H = 0.30448$

242. MYŌZI.

(戸長役場裏, 河原ノ石ノ上)

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 10th 11h 24m	4° 28′ 45″	Tomoda	Nakamura
,, ,, 11 48	,, 30 8	Nakamura	Tomoda
,, ,, 12 28	,, 31 43	Katō	Nakamura
,, ,, 13 40	,, 33 10	Tomoda	Katō
,, ,, 14 41	,, 30 30	Nakamura	,,
,, ,, 15 15	,, 29 7	Katō	,,
,, ,, 16 28	,, 27 23	Nakamura	Tomoda, Nakamura
,, ,, 17 20	,, 25 43	,,	Tomoda
,, ,, 18 32	,, 25 3	Tomoda	Nakamura
,, ,, 19 16	,, 26 33	Nakamura	,,
,, ,, 20 26	,, 27 23	Tomoda	Tomoda
,, ,, 20 48	,, 27 8	Nakamura	,,
,, ,, 21 56	,, 27 57	Tomoda	Nakamura
,, ,, 23 46	,, 27 50	,,	Tomoda
,, 11th 2 51	,, 27 50	,,	,,
,, ,, 5 20	,, 26 42	,,	,,
,, ,, 6 37	,, 25 27	,,	,,
,, ,, 7 40	,, 25 25	Nakamura	Nakamura
,, ,, 8 45	,, 25 25	,,	Tomoda
,, ,, 9 32	,, 27 2	,,	,,
Mean	4° 27′ 30″		

$\delta = 4°\ 27'.50$

Reduction to 1895.0 = −1.06

,, ,, sea level = 0.00

$\delta = 4°\ 26'.4$

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 10th 14h 27m	—	47° 54′.4	Katō	Nakamura
,, ,, 19 2	—	,, 55.0	Nakamura	,,
,, 11th 6 7	—	,, 56.2	Tomoda	Tomoda
Mean		47° 55′.2		

$\theta = 47°\ 55'.2$

Reduction to 1895.0 = 1.13

,, ,, sea level = 0.00

$\theta = 47°\ 56'.3$

HORIZONTAL INTENSITY (H)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 16th 13h 19m	0.30531	419.55	33°.1C	s 5.8232	33°.2C	5°55′42″.5	13°25′44″.4	33°.1C	Tomoda, Katō	Katō, Tomoda
,, ,, 18 4	0.30500	420.89	27.4	5.8168	28.2	5 57 13.8	13 29 0.6	26.7	Tomoda, Nakamura	Nakamura, Tomoda
,, ,, 21 33	0.30531	421.83	24.6	5.8069	24.9	5 57 43.8	13 30 12.5	24.4	Tomoda	Nakamura
,, 11th 8 14	0.30554	421.82	25.0	5.8039	24.7	5 57 26.2	13 29 40.0	25.2	,, Nakamura	,, Tomoda
Mean	0.30529									

$H = 0.30529$

Reduction to 1895.0 = −2284

,, ,, sea level = 000

$H = 0.30506$

243. WAKAYAMA.

Normal School (和歌山尋常師範學校運動場)

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)				δ			Observer	Recorder
Aug.	11th	17h	41m	4°	29′	49″	Tomoda	Nakamura
,,	,,	17	52	,,	30	7	Katō	,,
,,	,,	18	53	,,	30	28	Nakamura	Tomoda
,,	,,	20	24	,,	30	48	Tomoda	,,
,,	,,	20	56	,,	30	36	Nakamura	Katō
,,	,,	22	0	,,	30	20	Katō	Nakamura
,,	,,	23	48	,,	29	55	,,	Katō
,,	12th	0	38	,,	29	43	,,	,,
,,	,,	2	13	,,	29	7	,,	,,
,,	,,	4	19	,,	28	47	,,	,,
,,	,,	4	56	,,	28	40	,,	,,
,,	,,	6	28	,,	26	49	,,	,,
,,	,,	7	28	,,	25	32	,,	,,
,,	,,	8	16	,,	25	37	Nakamura	Tomoda
,,	,,	9	11	,,	26	14	Tomoda	Nakamura
,,	,,	10	6	,,	28	43	Nakamura	,,
,,	,,	10	54	,,	30	19	,,	,,
,,	,,	11	56	,,	33	41	,,	,,
,,	,,	13	1	,,	35	3	Katō	,,
,,	,,	13	54	,,	34	17	Nakamura	Katō
,,	,,	14	55	,,	33	20	Katō	Nakamura
,,	,,	15	57	,,	31	16	Nakamura	Katō
,,	,,	16	23	,,	30	38	Katō	Nakamura
Mean				4°	29′	58″		

$\delta = 4°\ 29'97$

Reduction to 1895.0 = −1.00

,, ,, sea level = 0.00

$\delta = 4°\ 29'0$

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)				Needle No.	θ		Observer	Recorder
Aug.	11th	19h	49m	—	48°	1′1	Tomoda	Tomoda
,,	12th	6	59	—	47	59.3	Katō	Katō
,,	,,	10	30	—	,,	58.2	Nakamura	Nakamura
,,	,,	15	16	—	,,	57.4	,,	Katō
Mean					47°	59′0		

$\theta = 47°\ 59'0$

Reduction to 1895.0 = 1.61

,, ,, sea level = 0.00

$\theta = 48°\ 0'6$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time)				H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug.	11th	19h	31m	0.30582	420.68	29°5C	5.8111 s	30°1C	5°56′15″0	13°26′57″5	28°9C	Nakamura / Katō	Katō / Nakamura
,,	,,	21	38	*0.30562	420.84	28.2	5.8205	28.7	(5 56 25.6	13 27 15.0	28.2)	,, / Nakamura	,, / Katō
,,	12th	8	47	0.30533	420.20	29.4	5.8181	29.5	5 56 15.6	13 26 53.8	29.4	Tomoda	Nakamura
,,	,,	13	37	0.30544	419.46	32.0	5.8228	32.3	5 55 31.9	13 25 15.0	31.6	Nakamura / Katō	Katō / Nakamura
Mean				0.30555									

$H = 0.30555$

Reduction to 1895.0 = −2436

,, ,, sea level = 000

$H = 0.30531$

244. SUMOTO.

Mituai (河添町字三ッ合ヒ, 吹キ洲)

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 13th 13h 1m	4° 37′ 11″	Nakamura	Nakamura
,, ,, 13 40	,, 38 5	,,	Tomoda
,, ,, 14 25	,, 36 16	,,	,,
,, ,, 15 1	,, 35 43	Tomoda	Nakamura
,, ,, 15 53	,, 34 57	,,	,,
,, ,, 16 46	,, 33 32	Katō	Tomoda
,, ,, 17 47	,, 32 39	Nakamura	Katō
,, ,, 18 39	,, 32 32	Tomoda	,,
,, ,, 19 37	,, 32 29	Nakamura	Nakamura
,, ,, 21 34	,, 31 52	,,	Tomoda
,, ,, 22 43	,, 32 2	Tomoda	,,
,, 14th 1 21	,, 31 9	,,	,,
,, ,, 3 6	,, 30 53	,,	,,
,, ,, 5 15	,, 29 56	,,	,,
,, ,, 6 40	,, 28 12	,,	,,
,, ,, 7 56	,, 26 33	Katō	Katō
,, ,, 8 45	,, 27 5	,,	,,
,, ,, 9 44	,, 29 14	,,	,,
,, ,, 10 29	,, 31 6	,,	,,
,, ,, 10 56	,, 31 44	,,	Tomoda
Mean	4° 31′ 42″		

$\delta = 4°\ 31'.70$

Reduction to 1895.0 = −1.03

,, ,, sea level = 0.00

$\delta = 4°\ 30'.7$

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 13th 17h 23m	—	48° 6′.2	Katō	Tomoda
,, 14th 2 25	—	,, 7.3	Tomoda	,,
,, ,, 9 4	—	,, 6.1	Katō	Katō
Mean		48° 6′.5		

$\theta = 48°\ 6'.5$

Reduction to 1895.0 = 2.11

,, ,, sea level = 0.00

$\theta = 48°\ 8'.6$

HORIZONTAL INTENSITY (H)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 13th 16h 27m	0.30589	419.52	31°.5C	5.8176 s	31°.7C	5°55′12″.5	13°24′48″.8	31°.4C	Nakamura / Tomoda	Katō / Nakamura
,, ,, 19 16	0.30549	420.49	27.8	5.8140	27.8	5 56 21.2	13 27 10.0	27.8	,, / Kotō	Katō / Tomoda
,, ,, 22 11	0.30572	421.18	26.6	5.8071	26.6	5 56 37.5	13 27 40.0	26.6	Tomdda / Nakamura	Nakamura / Tomoda
,, 14th 7 33	0.30597	420.36	28.8	5.8104	28.8	5 55 53.1	13 26 28.8	28.8	Tomoda	Katō
Mean	0.30577									

$H = 0.30577$

Reduction to 1895.0 = −2570

,, ,, sea level = 000

$H = 0.30551$

245. MINABE.

Station, 1887 (村役場裏海濱芝地, 舊觀測所)

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 15th 15h 33m	4° 18′ 51″	Nakamura	Katō
,, ,, 16 20	,, 18 39	,,	Tomoda
,, ,, 17 17	,, 18 17	Tomoda	Nakamura
,, ,, 18 9	,, 18 20	Katō	Tomoda
,, ,, 19 5	,, 17 35	Nakamura	Nakamura
,, ,, 20 41	,, 17 32	Katō	,,
,, ,, 21 34	,, 17 15	Nakamura	,,
,, ,, 22 33	,, 16 46	,,	,,
,, ,, 23 36	,, 16 18	,,	,,
,, 16th 3 33	,, 15 14	,,	,,
,, ,, 5 11	,, 14 59	,,	,,
,, ,, 5 55	,, 14 5	,,	,,
,, ,, 6 56	,, 13 23	,,	,,
,, ,, 7 55	,, 13 14	,,	,,
,, ,, 9 1	,, 14 14	Katō	Tomoda
,, ,, 9 56	,, 15 3	Tomoda	,,
,, ,, 11 1	,, 16 45	,,	,,
,, ,, 12 0	,, 18 12	Nakamura	,,
,, ,, 12 48	,, 18 32	Tomoda	Nakamura
,, ,, 13 37	,, 18 45	Nakamura	,,
,, ,, 14 23	,, 18 29	Tomoda	Tomoda
,, ,, 15 19	,, 18 14	Nakamura	,,
,, ,, 16 12	,, 17 57	Tomoda	Nakamura
Mean	4° 16′ 25″		

$\delta = 4°\ 16'.42$

Reduction to 1895.0 = −0.75

,, ,, sea level = 0.00

$\delta = 4°\ 15'.7$

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 15th 17h 2m	—	47° 22′.5	Katō	Nakamura
,, ,, 22 14	—	,, 22.1	Nakamura	,,
,, 16th 6 22	—	,, 25.1	,,	,,
,, ,, 11 43	—	,, 22.6	Tomoda	,,
Mean		47° 23′.1		

$\theta = 47°\ 23'.1$

Reduction to 1895.0 = 1.14

,, ,, sea level = 0.00

$\theta = 47°\ 24'.2$

HORIZONTAL INTENSITY (H)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 15th 18h 44m	0.30753	419.86	29°.9C	s 5.8005	30°.3C	5°53′39″.4	13°21′10″.6	29°.5C	Tomoda / Katō	Katō / Tomoda
,, ,, 21 14	0.30772	420.68	28.2	5.7923	28.4	5 53 59.4	13 21 47.5	28.1	Nakamura	Katō
,, 16th 8 39	0.30763	419.38	32.8	5.8012	32.5	5 52 48.1	13 19 6.9	33.2	Tomoda	,,
,, ,, 13 20	0.30775	417.82	38.3	5.8127	38.5	5 51 19.4	13 15 35.9	38.0	Tomoda / Nakamura	Nakamura / Tomoda
Mean	0.30766									

$H = 0.30766$

Reduction to 1895.0 = −2388

,, ,, sea level = 000

$H = 0.30742$

246. TIKATUYU.

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 18th 15h 28m	—	47° 29′5	Nakamura	Nakamura
,, ,, 18 2	—	,, 19.1	Tomoda	,,
,, ,, 18 53	—	,, 24.4	Nakamura	Tomoda
Mean		47° 24′3		

$\theta = 47°\ 24'3$

Reduction to 1895.0 = 0.85

,, ,, sea level = −0.08

$\theta = 47°\ 25'1$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 18th 16h 14m	*0.30616	421.62	24°0C	5.7999 s	24°0C	—	—	—	Tomoda	Nakamura
,, ,, 17 53	*0.30616	421.68	23.9	5.7995	23.9	—	—	—	,,	,,
Mean	0.30616									

$H = 0.30616$

Reduction to 1895.0 = −2265

,, ,, sea level = 595

$H = 0.30599$

247. HONGŪ.

DECLINATION (δ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.	δ	Observer	Recorder
Aug. 19th 18h 36m	4° 20′ 26″	Katō	Katō
,, ,, 19 11	,, 20 14	,,	,,
,, ,, 19 50	,, 20 29	Nakamura	Tomoda
,, ,, 20 53	,, 20 26	Tomoda	Nakamura
,, ,, 22 8	,, 20 6	Nakamura	Katō
,, ,, 23 36	,, 19 55	,,	Nakamura
,, 20th 0 35	,, 19 36	,,	,,
,, ,, 3 13	,, 18 16	,,	,,
,, ,, 5 14	,, 18 19	,,	,,
,, ,, 6 21	,, 17 24	,,	,,
,, ,, 7 25	,, 17 0	,,	,,
,, ,, 8 35	,, 17 56	Katō	Katō
,, ,, 9 32	,, 19 27	,,	,,
,, ,, 10 38	,, 21 35	,,	,,
,, ,, 11 37	,, 22 33	Nakamura	,,
,, ,, 12 24	,, 22 58	Katō	Nakamura
,, ,, 13 10	,, 23 8	Nakamura	Katō
,, ,, 14 12	,, 22 13	,,	Nakamura
,, ,, 15 12	,, 20 36	Katō	Katō
,, ,, 16 14	,, 19 7	Nakamura	,,
,, ,, 16 37	,, 18 53	Katō	Nakamura
,, ,, 17 44	,, 18 58	Nakamura	Katō
,, ,, 18 37	,, 19 19	Katō	,,
,, ,, 19 6	,, 19 40	Nakamura	,,
Mean	4° 19′ 41″		

$\delta = 4°\ 19'68$

Reduction to 1895.0 = −0.85

,, ,, sea level = −0.01

$\delta = 4\ 18'8$

DIP (θ)
Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 20th 6h 1m	—	47° 24′2	Nakamura	Nakamura
„ „ 11 20	—	„ 21.7	Katō	Katō
„ „ 13 39	—	„ 22.8	Nakamura	Nakamura
„ „ 18 5	—	„ 22.7	Katō	„
Mean		47° 22′9		

$\theta = 47° 22′9$
Reduction to 1895.0 = 0.65
„ „ sea level = −0.02
$\delta = 47° 23′5$

HORIZONTAL INTENSITY (H)
Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 19th 21h 9m	0.30640	420.37	27°3C	5.8068	27°6C	5°55′16″9	13°24′45″6	27°1C	Tomoda	Nakamura
„ 20th 8 12	0.30641	420.61	27.2	5.8048	27.3	5.55 16.2	13 24 26.9	27.1	„	Katō
„ „ 12 52	0.30675	420.30	28.2	5.8039	28.3	5 54 41.2	13 23 16.9	28.1	Katō	Tomoda
„ „ 17 4	0.30650	420.03	29.1	5.8083	29.3	5 54 46.9	13 23 31.9	28.9	Nakamura	Katō
Mean	0.30651								Katō	Nakamura

$H = 0.30651$
Reduction to 1895.0 = −2207
„ „ sea level = 124
$H = 0.30630$

248. KUSIMOTO.

At Pasture Ground (牧 場 内)

DECLINATION (δ)
Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 23rd 9h 14m	4° 10′ 4″	Nakamura	Tomoda
„ „ 9 45	„ 11 39	„	Nakamura
„ „ 10 36	„ 13 49	Tomoda	„
„ „ 11 47	„ 15 40	„	„
„ „ 12 48	„ 16 20	Nakamura	Tomoda
„ „ 13 43	„ 15 29	Tomoda	Nakamura
„ „ 14 47	„ 13 49	Nakamura	Tomoda
„ „ 16 5	„ 12 21	Tomoda	Nakamura
„ „ 16 59	„ 11 22	Nakamura	„
„ „ 17 56	„ 11 9	Tomoda	Tomoda
„ „ 18 50	„ 10 22	„	„
„ „ 20 27	„ 10 8	Nakamura	„
„ „ 21 26	„ 10 27	Tomoda	Nakamura
„ „ 22 47	„ 10 32	„	Tomoda
„ 24th 3 58	„ 9 24	„	„
„ „ 5 39	„ 9 4	„	„
„ „ 6 10	„ 8 10	„	„
„ „ 7 14	„ 7 14	Nakamura	„
„ „ 8 5	„ 7 32	„	Nakamura
„ „ 9 5	„ 9 22	„	„
„ „ 9 54	„ 11 27	Tomoda	„
Mean	4° 11′ 6″		

$\delta = 4° 11′10$
Reduction to 1895.0 = −0.66
„ „ sea level = 0.00
$\delta = 4° 10′4$

DIP (θ)
Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 23rd 11h 24m	—	46° 50′3	Nakamura	Tomoda
„ „ 15 21	—	„ 53.6	Tomoda	„
„ „ 22 20	—	„ 57.9	„	„
„ 24th 6 48	—	„ 58.4	„	„
„ „ 9 29	—	„ 59.8	Nakamura	Nakamura
Mean		46° 56′0		

$\theta = 46° 56′0$
Reduction to 1895.0 = 0.33
„ „ sea level = 0.00
$\theta = 46° 56′3$

HORIZONTAL INTENSITY (H)
Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 23rd 13h 22m	0.30762	418.76	32°3C	5.8065	32°4C	5°52′31″2	13°18′36″9	32°1C	Tomoda	Nakamuaa
„ „ 17 31	0.30729	419.05	29.4	5.8077	29.8	5 53 23.7	13 20 49.4	29.0	„ / Nakamura	„ / Tomoda
„ „ 22 5	0.30701	420.22	26.1	5.8013	26.1	5 54 26.9	13 22 53.8	26.1	Tomoda	Nakamura
„ 24th 7 47	0.30729	419.68	28.0	5.8024	27.9	5 53 40.6	13 21 11.9	28.1	„ / Nakamura	„ / Tomoda
„ „ 10 30	0.30736	418.88	31.5	5.8075	31.4	5 52 47.5	13 19 5.6	31.7	Tomoda	Nakamura
Mean	0.30731									

$H = 0.30731$
Reduction to 1895.0 = −2218
„ „ sea level = 000
$H = 0.30709$

249. ARIMA.

DECLINATION (δ)
Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 26th 9h 53m	4° 18′ 29″	Tomoda	Nakamura
„ „ 10 29	„ 19 43	„	„
„ „ 11 14	„ 20 38	Nakamura	Tomoda
„ „ 11 52	„ 21 11	Tomoda	Nakamura
„ „ 12 44	„ 21 4	Nakamura	Tomoda
„ „ 13 38	„ 20 45	Tomoda	Nakamura
„ „ 14 42	„ 19 28	Nakamura	„
„ „ 15 39	„ 17 50	„	Tomoda
„ „ 16 40	„ 16 28	Tomoda	Nakamura
„ „ 17 43	„ 15 58	Nakamura	„
„ „ 18 37	„ 16 12	Tomoda	Tomoda
„ „ 19 49	„ 16 46	Nakamura	„
„ „ 20 53	„ 16 59	Tomoda	Nakamura
„ „ 22 3	„ 17 11	Nakamura	Tomoda
„ „ 23 27	„ 16 30	„	Nakamura
„ 27th 3 22	„ 16 6	„	„
„ „ 5 1	„ 15 30	„	„
„ „ 5 49	„ 15 0	„	„
„ „ 6 50	„ 13 1	Tomoda	„
„ „ 7 48	„ 13 0	„	Tomoda
„ „ 8 46	„ 13 53	„	„
„ „ 9 46	„ 16 43	Nakamura	„
„ „ 10 54	„ 19 21	Tomoda	Nakamura
Mean	4° 16′ 50″		

$\delta = 4° 16′83$
Reduction to 1895.0 = −0.91
„ „ sea level = 0.00
$\delta = 4° 15′9$

DIP θ
Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 26th 12h 22m	—	47° 26′9	Tomoda	Nakamura
„ „ 16 3	—	„ 26.7	Nakamura	Tomoda
„ „ 21 40	—	„ 26.0	Tomoda	Nakamura
„ 27th 6 20	—	„ 28.5	Nakamura	„
Mean		47° 27′0		

$\theta = 47° 27′0$
Reduction to 1895.0 = 0.50
„ „ sea level = 0.00
$\theta = 47° 27′5$

HORIZONTAL INTENSITY (H)
Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 26th 13h 19m	0.30570	417.68	35°2C	5.8332	35°7C	5°53′45″0	13°21′15″6	34°8C	Tomoda	Nakamura
„ „ 17 25	0.30572	419.31	29.3	5.8204	29.4	5 55 3.8	13 24 14.4	29.3	„ / Nakamura	„ / Tomoda
„ „ 20 28	0.30579	419.41	28.1	5.8188	28.0	5 55 18.1	13 25 5.6	28.2	Tomoda	Nakamura
„ 27th 7 19	0.30569	420.56	25.3	5.8123	25.6	5 56 19.4	13 27 8.8	25.1	„ / Nakamura	„ / Tomoda
Mean	0.30573									

$H = 0.30573$
Reduction to 1895.0 = −2115
„ „ sea level = 000
$H = 0.30552$

250. NAGASIMA.

DECLINATION (δ)
Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 29th 17h 12m	4° 23′ 54″	Nakamura	Tomoda
„ „ 17 53	„ 23 40	„	„
„ „ 19 20	„ 24 9	Tomoda	„
„ „ 20 8	„ 23 58	Nakamura	Nakamura
„ „ 21 1	„ 23 45	Tomoda	„
„ „ 22 6	„ 23 37	„	Tomoda
„ 30th 2 6	„ 22 42	„	„
„ „ 5 12	„ 20 6	„	„
„ „ 6 15	„ 19 20	„	„
„ „ 7 28	„ 18 10	Nakamura	Nakamura
„ „ 9 6	„ 19 56	„	Tomoda
„ „ 10 10	„ 22 49	„	Nakamura
„ „ 10 56	„ 24 59	„	„
„ „ 11 57	„ 26 8	„	„
„ „ 12 59	„ 27 36	„	„
„ „ 13 56	„ 26 24	Tomoda	„
„ 31st 11 23	„ 23 15	Nakamura	„
„ „ 12 17	„ 24 7	Tomoda	„
„ „ 13 18	„ 23 37	Nakamura	Tomoda
„ „ 14 24	„ 22 34	Tomoda	„
„ „ 15 23	„ 20 32	Nakamura	„
„ „ 16 10	„ 18 58	Tomoda	Nakamura
„ „ 17 18	„ 18 36	„	Tomoda
„ „ 17 42	„ 18 36	Nakamura	„
Mean	4° 22′ 59″		

$\delta = 4° 22′98$
Reduction to 1895.0 = −1.08
„ „ sea level = 0.00
$\delta = 4° 21′9$

DIP (θ)
Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 29th 20h 36m	—	47° 50′0	Nakamura	Nakamura
„ 30th 7 2	—	„ 45.4	Tomoda	Tomoda
„ „ 11 39	—	„ 48.5	Nakamura	Nakamura
„ 31st 15 8	—	„ 47.7	Tomoda	„
Mean		47° 47′9		

$\theta = 47° 47′9$
Reduction to 1895.0 = 0.50
„ „ sea level = 0.00
$\theta = 47° 48′4$

HORIZONTAL INTENSITY (H)
(* *Value deduced from Vibration only by assuming Value of M.*)
Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 29th 18h 48m	0.30418	419.15	28°1C	5.8368 s	28°4C	5°56′54″4	13°28′33″8	27°8C	Tomoda	Nakamura
„ „ 21 41	0.30435	419.87	25.8	5.8293	25.8	5 57 20.6	13 29 40.6	25.8	„ / Nakamura	„ / Tomoda
„ 30th 8 12	*0.30410	419.96	25.4	5.8311	25.4	(5 57 44.4	13 30 13.8	25.6)	Tomoda	Nakamura
„ 31st 13 0	0.30439	417.58	34.2	5.8455	34.7	5 55 5.7	13 24 20.7	33.8	„ / Nakamura	„ / Tomoda
„ „ 16 45	0.30422	418.29	30.9	5.8435	31.7	5 56 6.2	13 26 36.2	30.1	Tomoda	Nakamura
Mean	0.30425									

$H = 0.30425$
Reduction to 1895.0 = −2046
„ „ sea level = 000
$H = 0.30405$

251. MATUSAKA.

Racing Ground (競馬場内)

DECLINATION (δ)
Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 2nd 20h 1m	4° 25′ 6″	Nakamura	Tomoda
„ „ 20 38	„ 24 42	Tomoda	Nakamura
„ „ 21 55	„ 23 53	Nakamura	Tomoda
„ „ 23 15	„ 24 22	„	Nakamura
„ 3rd 2 31	„ 24 9	„	„
„ „ 4 37	„ 23 35	„	„
„ „ 5 28	„ 22 44	„	„
„ „ 6 12	„ 21 58	„	„
„ „ 7 11	„ 21 24	„	Tomoda
„ „ 8 17	„ 22 40	Tomoda	„
„ „ 9 19	„ 23 44	„	„
„ „ 10 20	„ 26 45	„	„
„ „ 11 27	„ 29 22	„	„
„ „ 12 19	„ 30 11	Nakamura	„
„ „ 13 9	„ 30 8	Tomoda	Nakamura
„ „ 14 27	„ 28 0	Nakamura	Tomoda
„ „ 15 24	„ 26 12	Tomoda	„
„ „ 16 18	„ 25 23	„	„
„ „ 17 25	„ 25 13	„	Nakamura
„ „ 18 17	„ 24 51	Nakamura	Tomoda
„ „ 19 8	„ 24 52	Tomoda	Nakamura
Mean	4° 25′ 7″		

$\delta = 4° 25′12$
Reduction to 1895.0 = −1.31
„ „ sea level = 0.00
$\delta = 4° 23′8$

DIP (θ)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 2nd 22h 35m	—	48° 11′2	Nakamura	Nakamura
,, 3rd 6 33	—	,, 9.3	,,	,,
,, ,, 11 1	—	,, 9.6	Tomoda	Tomoda
,, ,, 16 52	—	,, 7.8	,,	,,
Mean		48° 9′5		

$\theta = 48°\ 9'5$

Reduction to 1895.0 = 0.67

,, ,, sea level = 0.00

$\theta = 48°\ 10'2$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the Kinki Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 2nd 21h 33m	0.30328	419.43	25°5C	5.8432 s	25°9C	5°58′21″2	13°32′ 1.9	25°2 C	Tomoda	Nakamura
,, 3rd 7 52	0.30344	419.36	27.3	5.8403	26.6	5 57 43.1	13 30 28.8	28.1	,, / Nakamura	,, / Tomoda
,, ,, 13 48	*0.30340	419.16	26.6	5.8433	26.6	(5 57 28.8	13 31 18.1	26.2)	Tomoda	Nakamura
,, ,, 13 57	0.30343	419.20	26.3	5.8433	26.6	5 57 56.3	13 31 5.0	26.1	Nakamura	Tomoda
,, ,, 17 57	0.30340	419.35	26.2	5.8425	26.5	5 58 9.4	13 31 38.1	25.9	Tomoda	Nakamura
Mean	0.30339									

$H = 0.30339$

Reduction to 1895.0 = −1990

,, ,, sea level = 000

$H = 0.30319$

252. MIHARA.

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
July 1st 9h 10m	4′ 35′ 54″	Tanakadate	Sutō
,, ,, 9 52	,, 37 6	Sutō	Sano
,, ,, 10 37	,, 38 57	Sano	Sutō
,, ,, 12 28	,, 41 47	Sutō	Sano
,, ,, 14 26	,, 42 55	Tanakadate	Sutō
,, ,, 14 50	,, 42 55	,,	,,
,, ,, 16 49	,, 40 57	Sutō	Sano
,, ,, 18 11	,, 40 9	,,	,,
,, ,, 19 36	,, 40 2	Sano	Sutō
,, ,, 21 28	,, 40 17	Tanakadate	Tanakadate
,, ,, 23 39	,, 39 44	,,	,,
,, 2nd 2 7	,, 39 20	,,	,,
,, ,, 5 23	,, 38 52	,,	,,
,, ,, 7 15	,, 36 16	,,	,,
,, ,, 8 23	,, 35 19	,,	Sano
,, ,, 9 10	,, 35 45	,,	,,
Mean	4° 39′ 46″		

$\delta = 4°\ 39'77$

Reduction to 1895.0 = −0.52

,, ,, sea level = 0.00

$\delta = 4°\ 39'2$

DIP (θ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 1st 12h 7m	2	48° 23′7	Sutō	Sano
,, ,, 19 0	2	,, 24.3	Sano	Sutō
,, 2nd 6 33	1	,, 17.8	Tanakadate	Tanakadate
Mean		48° 21′9		

$\theta = 48° 21′9$
Reduction to 1895.0 = 3.45
,, ,, sea level = 0.00
$\theta = 48° 25′4$

HORIZONTAL INTENSITY (H)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 1st 13h 51m	0.30847	408.02	29°3C	5.9417 s	30°0C	5°43′48″8	12°57′45″0	28°7C	Sutō / Tanakadate	Tanakadate / Sutō
,, ,, 16 3	0.30921	408.53	26.8	5.9297	27.0	5 43 48.7	12 58 26.2	26.6	Sano / Sutō	,, / Sano
,, ,, 20 46	*0.30888	409.33	24.4	5.9264	24.4	(5 44 23.7	13 2 27.5	24.0)	,, / Tanakadate	Tanakadate / Sutō
,, 2nd 8 4	0.30936	409.69	23.5	5.9193	23.6	5 44 37.5	13 0 17.5	23.4	Sano / Tanakadate	Tanakadate / Sano
Mean	0.30898									

$H = 0.30898$
Reduction to 1895.0 = −3077
,, ,, sea level = 000
$H = 0.30867$

253. HIROSIMA.

Park (公 園 地)

DECLINATION (δ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 2nd 18h 28	4° 33′ 44″	Tanakadate	Sutō
,, ,, 19 27	,, 33 31	Sutō	Tanakadate
,, ,, 20 57	,, 33 17	Sano	Sano
,, 3rd 1 26	,, 33 28	,,	,,
,, ,, 3 29	,, 32 50	,,	,,
,, ,, 4 49	,, 32 25	,,	,,
,, ,, 6 19	,, 30 47	Tanakadate	Sutō
,, ,, 7 47	,, 30 22	,,	,,
,, ,, 9 21	,, 31 16	Sutō	Tanakadate
,, ,, 10 25	,, 32 55	,,	,,
,, ,, 11 22	,, 35 1	,,	,,
,, ,, 12 3	,, 36 20	Tanakadate	Sutō
,, ,, 13 56	,, 36 2	Sano	Sano
,, ,, 15 32	,, 35 35	Sutō	,,
,, ,, 17 9	,, 34 54	,,	,,
,, ,, 18 45	,, 34 3	Tanakadate	,,
,, 4th 0 41	,, 33 35	,,	Tanakadate
Mean	4° 33′ 31″		

$\delta = 4° 33′52$
Reduction to 1895.0 = −0.35
,, ,, sea level = −0.00
$\delta = 4° 33′2$

DIP (θ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 2nd 17h 54m	2	48° 27′9	Sutō	Sano
,, 3rd 8 55	2	,, 24.0	Tanakadate	Sutō
,, ,, 18 4	2	,, 24.5	Sano	Tanakadate
Mean		48° 25′5		

$\theta = 48°\ 25'5$
Reduction to 1895.0 = 4.21
,, ,, sea level = 0.00
$\theta = 48°\ 29'7$

HORIZONTAL INTENSITY (H)
(* *Value deduced from Vibration only by assuming Value of M.*)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 3rd 7h 10m	0.30963	409.59	23°3C	5.9175 s	23°3C	5°44′ 6″2	12°58′53″7	23°3 C	Sutō / Tanakadate	Tanakadate / Sutō
,, ,, 12 41	*0.30934	408.97	25.9	5.9026	26.1	(5 43 35.0	12 57 16.2	25.9)	,, / Sutō	,, / Tanakadate
,, ,, 19 41	0.30972	409.92	23.0	5.9147	23.3	5 44 23.1	12 59 33.7	22.8	Sano / Tanakadate	,, / Sano
Mean	0.30956									

$H = 0.30956$
Reduction to 1895.0 = −3309
,, ,, sea level = 000
$H = 0.30923$

Hirosima Syuttyō (廣 島 出 張)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 4th —h —m	*0.31086	409.30	24°8C	5.9164 s	24°8C	—	—	—	Sano	Tanakadate
,, ,, 9 10	*0.30830	409.74	23.3	5.9351	23.3	—	—	—	,,	,,
,, ,, — —	*0.31029	409.84	22.9	5.9180	22.9	—	—	—	,,	,,
Mean	0.30982									

254. SITATA.

Hatiman Zinsya (下田八幡神社)

DECLINATION (δ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 5th 11h 48m	4° 36′ 19″	Tanakadate	Sano / Sutō
,, ,, 13 36	,, 37 36	,,	Sano
,, ,, 15 24	,, 35 18	,,	Sutō
,, ,, 16 35	,, 32 59	,,	,,
,, ,, 17 33	,, 31 31	Sutō	Sano
,, ,, 18 16	,, 33 9	,,	,,
,, ,, 20 35	,, 30 16	Tanakadate	Tanakadate
,, ,, 22 13	,, 32 59	,,	Sano
,, ,, 22 34	,, 32 43	Sano	,,
,, 6th 4 0	,, 31 36	Tanakadate	,,
,, ,, 5 41	,, 29 40	,,	,,
,, ,, 7 47	,, 27 41	Sutō	Sutō
Mean	4° 31′ 58″		

$\delta = 4°\ 31'97$
Reduction to 1895.0 = −0.03
,, ,, sea level = 0.00
$\delta = 4°\ 31'9$

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 5th 16h 12m	2	47° 57′7	Sano	Sutō
,, ,, 17 5	2	,, 56.6	Sutō	Sano
,, 6th 8 39	2	,, 56.5	,,	,,
Mean		47° 56′9		

	θ = 47°	56′9
Reduction to	1895.0 =	3.92
,, ,,	sea level =	0.00
	θ = 48°	0′8

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections. φ_1	Mean Deflections. φ_2	Temp. t_D	Observer	Recorder
July 5th 13h 8m	*0.31034	407.59	28°4C	s 5.9033	28°2C	(5°41′43″1	12°53′ 7″5	28°5C)	Sano / Sutō	Sutō / Sano
,, ,, 18 59	*0.31020	409.51	23.6	5.9125	23.6	(5 42 40.0	12 56 20.6	22.9)	,, / Tanakadate	Tanakadate / Sutō
,, 6th 6 41	0.31076	408.94	24.7	5.9113	24.6	5 42 23.7	12 55 11.2	24.8	Sano / Tanakadate	Tanakadate / Sano
Mean	0.31043									

	H =	0.31043
Reduction to	1895.0 =	−3350
,, ,,	sea level =	000
	H =	0.31009

255. MURODZUMI.

Common School (小學校)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 7th 9h 11m	4° 30′ 29″	Tanakadate	Sutō
,, ,, 10 49	,, 32 41	Sutō	Sano
,, ,, 11 41	,, 34 25	Tanakadate	Sutō
,, ,, 13 17	,, 36 53	Sano	Sano
,, ,, 14 26	,, 37 32	Sutō	Tanakadate
,, ,, 15 32	,, 36 12	,,	Sano
,, ,, 16 36	,, 34 5	Tanakadate	Sutō
,, ,, 17 43	,, 33 6	Sutō	Tanakadate
,, ,, 18 30	,, 32 22	,,	Sano
,, ,, 20 6	,, 32 54	Tanakadate	Tanakadate
,, ,, 22 40	,, 32 57	Sano	,,
,, 8th 3 4	,, 32 2	,,	Sano
,, ,, 4 44	,, 31 12	,,	,,
,, ,, 6 33	,, 30 42	,,	,,
,, ,, 7 39	,, 31 7	Tanakadate	Sutō
,, ,, 8 45	,, 30 17	,,	,,
,, ,, 9 22	,, 31 16	Sutō	Tanakadate
Mean	4° 32′ 57″		

	δ = 4°	32′95
Reduction to	1895.0 =	0.12
,, ,,	sea level =	0.00
	δ = 4°	33′1

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 7th 10h 0m	2	47° 59′4	Sutō	Sano
,, ,, 13 57	2	,, 59.1	Sano	,,
,, ,, 21 56	2	48 0.6	Tanakadate	Sutō
,, 8th 8 29	2	47 59.6	,,	Sano
				Sutō
Mean		47° 59′7		

	θ =	47° 59′7
Reduction to	1895.0 =	4.25
,, ,,	sea level =	0.00
	θ =	48° 4′0

HORIZONTAL INTENSITY (H)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 7th 12h 43m	0.31055	407.17	30°8C	5.9272 s	31°2C	5°40′50″6	12°51′13″7	30° C	Sutō	Tanakadate
									Tanakadate	Sutō
,, ,, 19 38	0.31092	408.40	27.1	5.9146	27.4	5 41 42.5	12 53 25.6	26.8	Sano	,,
									Sutō	Sano
,, 8th 8 14	0.31100	409.27	24.2	5.9068	24.4	5 42 21.2	12 54 55.0	24.1	Tanakadate	Sutō
									Sutō	Tanakadate
Mean	0.31082									

	H =	0.31082
Reduction to	1895.0 =	−3499
,, ,,	sea level =	000
	H =	0.31047

Murodzumi Syuttyō (室積出張)

Observations of the Seto Sea Party, 1896.

Hayanaga Hatiman (早長八幡)

Date and Hour (Mean Local Time)	Needle No.	θ	Observer	Recorder
July 8th 15h 18m	2	48° 1′5	Sutō	Sano

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 8th 14h 40m	*0.31084	409.85	22.5C	5.9040 s	22°5C	—	—	—	Tanakadate	Sutō
									Sutō	Tanakadate

256. YAMAGUTI.

Play ground of Yamaguti High School (山口高等學校運動場)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 9th 11h 43m	4° 34′ 26″	Tanakadate	Sutō
,, ,, 12 50	,, 34 10	Sutō	Sano
,, ,, 14 14	,, 34 4	Tanakadate	,,
,, ,, 15 17	,, 33 23	Sano	Sutō
,, ,, 16 42	,, 32 15	Sutō	Tanakadate
,, ,, 17 42	,, 31 21	,,	,,
,, ,, 19 47	,, 30 39	Tanakadate	Sano
,, ,, 21 53	,, 32 8	Sutō	Sutō
,, ,, 22 56	,, 31 38	,,	,,
,, 10th 3 48	,, 31 3	Tanakadate	Tanakadate
,, ,, 6 12	,, 28 50	,,	,,
,, ,, 6 53	,, 28 6	,,	,,
,, ,, 8 20	,, 29 31	Sutō	Sano
,, ,, 9 48	,, 31 36	Sano	Sutō
,, ,, 10 38	,, 32 24	Sutō	Sano
,, ,, 14 1	,, 34 0	Tanakadate	Tanakadate
,, ,, 15 0	,, 33 38	,,	Sano
Mean	4° 31′ 42″		

$\delta = 4°\ 31'.70$

Reduction to 1895.0 = 0.15

,, ,, sea level = 0.00

$\delta = 4°\ 31'.9$

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 9th 12h 30m	2	48° 18′.7	Sutō	Sano
,, ,, 19 13	2	,, 19.8	Tanakadate	,,
,, 10th 9 11	2	,, 19.1	Sano	Sutō, Sano
Mean		48° 19′.2		

$\theta = 48°\ 19'.2$

Reduction to 1895.0 = 4.86

,, ,, sea level = 0.00

$\theta = 48°\ 24'.1$

HORIZONTAL INTENSITY (H)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 9th 13h 37m	0.31105	409.37	23°.3C	s 5.9059	23°.6C	5°42′18″.8	12°54′41″.3	23°.1C	Udziie, Tanakadate	Tanakadate, Udziie
,, ,, 21 14	0.31090	409.98	21.8	5.9032	22.3	5 43 7.5	12 56 35.0	21.3	,, Sutō	Sutō, Tanakadate
,, 10th 7 46	0.31101	409.76	23.0	5.9023	22.7	5 42 40.6	12 55 40.0	23.4	Tanakadate, ,,	,, Sutō
Mean	0.31065									

$H = 0.31065$

Reduction to 1895.0 = −3694

,, ,, sea level = 51

$H = 0.31029$

Yamaguti Syuttyō (山口出張)

Observations of the Seto Sea Party, 1896.

(平井ノ大場)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 10th 19h 18m	2	48° 25′.1	Tanakadate	Sano

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 10th 18h 50m	*0.30987	409.66	22°.9C	5.9147 s	22°.9C	—	—	—	Sutō	Tanakadate

257. TUWANO

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 12th 6h 24m	4° 35′ 48″	Sano	Sano
,, ,, 7 9	,, 35 3	Tanakadate	Sutō
,, ,, 8 21	,, 34 9	Sutō	Tanakadate
,, ,, 9 33	,, 36 42	,,	,,
,, ,, 10 39	,, 38 53	Tanakadate	,,
,, ,, 11 30	,, 41 25	Sutō	,,
,, ,, 12 37	,, 44 50	Sano	Sutō
,, ,, 14 2	,, 45 20	Sutō	Sano
,, ,, 15 25	,, 45 51	,,	,,
,, ,, 16 25	,, 44 28	,,	,,
,, ,, 17 0	,, 43 21	Tanakadate	Sutō
,, ,, 17 46	,, 40 55	,,	Sano
,, ,, 18 50	,, 40 27	Sano	Tanakadate
,, ,, 20 6	,, 40 56	Sutō	Sutō
,, ,, 22 51	,, 40 53	Tanakadate	Tanakadate
,, 13th 3 21	,, 39 7	,,	,,
,, ,, 5 45	,, 38 8	,,	,,
,, ,, 6 21	,, 36 58	,,	Sano
Mean	4° 40′ 25″		

	$\delta = 4°\ 40'.42$
Reduction to 1895.0 =	−0.06
,, ,, sea level =	−0.01
	$\delta = 4°\ 40'.3$

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour Mean Local Time.	Needle No.	θ	Observer	Recorder
July 12th 8h. 54m	2	48° 39′.7	Tanakadate	Sutō
,, ,, 14 55	2	,, 42.4	Sutō	Sano
Mean		48° 41′.0		

	$\theta = 48°\ 41'.0$
Reduction to 1895.0 =	5.20
,, ,, sea level =	−0.03
	$\theta = 48°\ 46'.2$

HORIZONTAL INTENSITY (H)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 12th 7h 53m	0.31066	408.92	24°6C	s 5.9093	23°1C	5°42′ 8″8	12°54′37″5	26°1C	Tanakadate / Sutō	Sutō / Tanakadate
„ „ 13 37	0.31013	407.37	29.6	5.9307	29.6	5 41 38.7	12 53 26.2	29.6	Sano / Sutō	Sutō / Sano
„ „ 19 16	0.30982	409.58	22.4	5.9163	22.8	5 43 46.9	12 57 50.0	22.1	Sano / Tanakadate	Tanakadate / Sano
Mean	0.31020									

H =	0.31020
Reduction to 1895.0 =	−3698
„ „ sea level =	205
H =	0.30985

258. HAGI.

Hagimati, Kikugahama (萩町字菊ヶ濱)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 14th 11h 31m	4° 33′ 39″	Tanakadate	Sutō
„ „ 12 37	„ 35 1	„	Tanakadate
„ „ 14 31	„ 35 29	Sutō	Sano
„ „ 15 33	„ 36 1	Tanakadate	Sutō
„ „ 16 50	„ 33 31	Sutō	Sano
„ „ 18 27	„ 32 3	Sano	Sutō
„ „ 19 14	„ 32 43	Tanakadate	Tanakadate
„ „ 21 38	„ 32 54	„	„
„ 15th 0 28	„ 32 36	„	„
„ „ 4 24	„ 31 48	„	„
„ „ 5 53	„ 30 29	„	„
„ „ 7 47	„ 29 16	„	„
„ „ 10 8	„ 31 46	Sutō	Sano
„ „ 12 32	„ 37 35	„	Sutō
„ „ 14 36	„ 37 29	„	„
„ „ 16 0	„ 36 1	„	Sano
„ „ 17 46	„ 33 8	„	Sutō
„ „ 19 14	„ 32 23	„	„
Mean	4° 33′ 2″		

δ =	4° 33′03
Reduction to 1895.0 =	0.15
„ „ sea level =	0.00
δ =	4° 33′2

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder.
July 14th 17h 46m	2	48° 28′2	Sutō	Sano
„ 15th 10 51	2	„ 34.1	Sano	„
„ „ 17 15	2	„ 33.8	Sutō	„
Mean		48° 32′0		

θ =	48° 32′0
Reduction to 1895.0 =	5.39
„ „ sea level =	0.00
θ =	48° 37′4

HORIZONTAL INTENSITY (H)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 14th 13h 38m	0.31202	407.93	28°8C	5.9081	29°3C	5'40' 1''3	12'49'23''7	28°3C	Sutō / Tanakadate	Tanakadate / Sutō
,, ,, 19 39	0.31180	409.02	24.5	5.9017	24.9	5 41 13.7	12 52 10.6	24.0	Sano / Sutō	,, / Sano
,, 15th 9 36	0.31166	408.14	27.2	5.9077	26.7	5 40 27.5	12 50 31.2	27.8	Sano / Sutō	Sutō / Sano
Mean	0.31183									

H= 0.31183

Reduction to 1895.0 = −3812

,, ,, sea level = 13

H= 0.31145

Hagi Syuttyō (萩 出 張)

Observations of the Seto Sea Party, 1896.

North side of Sumiyosi Zinsya (住吉神社ノ北方)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer.	Recorder
July 15th 20h 9m	2	48° 29'9	Tanakadate	Sano

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 15th 18h 48m	*0.31156	409.07	24°0C	5.9027	24°0C	—	—	—	Sano	Tanakadate

259. AWANO.

River side near Ferry (粟野村字渡場, 河原ノ中)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 17th 5h 36m	4° 32' 10''	Tanakadate	Sutō
,, ,, 6 51	,, 31 49	Sutō	Tanakadate
,, ,, 7 28	,, 31 28	Tanakadate	Sutō
,, ,, 8 48	,, 32 3	,,	Tanakadate
,, ,, 9 54	,, 33 5	Sutō	,,
,, ,, 10 51	,, 33 46	,,	,,
,, ,, 11 49	,, 34 30	Tanakadate	Sutō
,, ,, 12 42	,, 35 26	Sano	Tanakadate
,, ,, 14 1	,, 36 58	Sutō	Sano
,, ,, 15 23	,, 36 31	Sano	Sutō
,, ,, 16 37	,, 35 33	Sutō	,,
,, ,, 18 19	,, 34 10	,,	Sano
,, ,, 19 26	,, 33 48	Tanakadate	Tanakadate
,, ,, 21 23	,, 33 56	,,	Sutō
,, ,, 22 30	,, 33 58	,,	Tanakadate
,, 18th 0 39	,, 33 20	,,	,,
,, ,, 2 47	,, 32 58	,,	,,
,, ,, 4 31	,, 33 24	,,	,,
,, ,, 5 43	,, 32 50	,,	,,
,, ,, 7 17	,, 31 24	,,	,,
Mean	4° 33' 55''		

δ = 4° 33'92

Reduction to 1895.0 = 0.35

,, ,, sea level = 0.00

δ = 4° 34'3

DIP (θ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 17th 6h 26m	2	48° 36′2	Sutō	Tanakadate
,, ,, 11 25	2	,, 36.0	Tanakadate	Sutō
,, ,, 17 33	2	,, 29.8	Sano	,,
,, 18th 6 40	2	,, 36.4	Sutō	Sano
Mean		48° 34′6		

$\theta = 48° 34′6$
Reduction to 1895.0 = 5.70
,, ,, sea level = 0.00
$\theta = 48° 40′3$

HORIZONTAL INTENSITY (H)
(**Value deduced from Vibration only by assuming Value of M.*)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 17th 8h 23m	*0.31147	407.49	29°4C	5.9057 s	27°6C	(5°40′ 3′′8	12°49′26′′2	29°4C)	Sutō / Tanakadate	Tanakadate / Sutō
,, ,, 13 38	0.31166	406.57	31.9	5.9212	32.4	5 39 18.8	12 48 0.0	31.5	Sano / Sutō	,, / Sano
,, ,, 20 56	0.31134	408.28	26.0	5.9106	26.0	5 40 55.0	12 51 22.5	26.1	,, / Tanakadate	Tanakadate / Sutō
Mean	0.31149									

$H = 0.31149$
Reduction to 1895.0 = −3963
,, ,, sea level = 000
$H = 0.31109$

260. HAMADA.

West side of Hamade River (濱田川西岸，畑中)

DECLINATION (δ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 21st 18h 21m	4° 43′ 8′′	Tanakadate	Sutō
,, ,, 19 57	,, 42 33	Sano	Tanakadate
,, ,, 21 32	,, 42 32	Sutō	,,
,, 22nd 0 4	,, 41 38	Tanakadate	,,
,, ,, 1 40	,, 41 2	,,	,,
,, ,, 4 2	,, 41 3	,,	,,
,, ,, 6 30	,, 38 20	,,	,,
,, ,, 7 29	,, 39 1	,,	,,
,, ,, 8 54	,, 41 31	Sutō	Sano
,, ,, 10 28	,, 42 56	,,	,,
,, ,, 11 26	,, 43 33	,,	,,
,, ,, 13 2	,, 43 55	Tanakadate	Tanakadate
,, ,, 14 23	,, 44 26	,,	Sutō
,, ,, 15 38	,, 43 23	Sutō	,,
,, ,, 16 27	,, 42 27	,,	,,
,, ,, 17 37	,, 42 6	,,	,,
,, ,, 18 51	,, 42 39	Tanakadate	,,
,, ,, 23 31	,, 43 8	,,	Tanakadate
,, 23rd 4 10	,, 42 3	,,	,,
,, ,, 6 6	,, 39 33	,,	,,
,, ,, 7 47	,, 39 30	,,	,,
Mean	4° 42′ 9′′		

$\delta = 4° 42′15$
Reduction to 1895.0 = −0.42
,, ,, sea level = 0.00
$\delta = 4° 41′7$

DIP (θ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 21st 22h 47m	2	49° 41′.5	Sutō	Tanakadate
,, 22nd 10 0	2	,, 36.8	Sano	Sutō
,, ,, 15 9	2	,, 38.0	Tanakadate	,,
,, ,, 18 29	2	,, 44.3	Sutō	,,
Mean		49° 40′.2		

$\theta = 49°\ 40'.2$
Reduction to 1895.0 = 5.15
,, ,, sea level = 0.00
$\theta = 49°\ 45'.4$

HORIZONTAL INTENSITY (H)
(* *Value deduced from Vibration only by assuming Value of M.*)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 21st 20h 40m	*0.30381	408.06	26°.3 C	5.9852 s	26°.3 C	—	—	—	Sano	Tanakadate
,, 22nd 8 18	0.30374	407.54	27.5	5.9900	27.6	5°48′57″.5	13°10′ 1″.2	27°.4 C	,, / Sutō	Sutō / Sano
,, ,, 14 4	0.30413	405.79	34.0	5.9993	33.9	5 46 53.8	13 5 21.2	34.0	Tanakadate	Tanakadate / Sutō
,, 23rd 7 22	0.30392	407.15	29.9	5.9885	28.7	5 48 3.8	13 7 58.8	31.0	Sutō / Tanakadate	Tanakadate / Sutō
Mean	0.30390									

$H = 0.30390$
Reduction to 1895.0 = −3610
,, ,, sea level = 000
$H = 0.30354$

Hamada Syuttyō (濱 田 出 張)

Observations of the Seto Sea Party, 1896.

(1) **Station, 1887** (千八百八十七年ノ觀測點)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 23rd 11h 14m	2	49° 54′.0	Sutō	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 23rd — —	*0.30268	404.51	38°.3 C	6.0233 s	38°.3 C	—	—	—	Sutō	Tanakadate

(2) **Common School** (濱田尋常小學校)

Date and Hour (Mean Local Time.)	Needle No.	θ	Obseirver	Recorder
July. 23rd 13h 0m	2	49° 37′.2	Tanakadate	Sutō

(3) **Near Station, 1887** (千八百八十七年觀測點ノ傍ナル畑中, 觀音堂前)

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observar	Recorder
July 23rd 10h 25m	*0.30271	404.90	37°.1 C	6.0199 s	37°.1 C	—	—	—	Tanakadate	Sutō

261. ITIKI.

Itiki-mura No. 2073, (市木村二千七十三番地)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 24th 13h 1m	4° 45′ 2″	Tanakadate	Sutō
,, ,, 14 39	,, 46 1	,,	,,
,, ,, 16 22	,, 43 4	Sutō	Sano
,, ,, 17 43	,, 42 6	,,	,,
,, ,, 18 51	,, 42 41	,,	Sutō
,, ,, 20 33	,, 43 25	,,	Sano
,, 25th 1 24	,, 41 42	Sano	,,
,, ,, 3 48	,, 41 6	,,	,,
,, ,, 5 53	,, 40 10	,,	,,
,, ,, 7 2	,, 39 3	Tanakadate	Tanakadate
,, ,, 8 26	,, 39 2	,,	,,
,, ,, 10 0	,, 40 53	,,	,,
,, ,, 11 27	,, 43 58	,,	Sano
,, ,, 12 23	,, 46 6	,,	Tanakadate
,, ,, 13 43	,, 47 0	,,	Sano
Mean	4° 42′ 36″		

δ = 4° 42′.60

Reduction to 1895.0 = −0.58

,, ,, sea level = −0.02

δ = 4° 42′.0

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 24th 15h 51m	2	49° 13′.7	Sano	Sutō
,, ,, 23 31	2	,, 14.1	Sutō	,,
,, 25th 9 21	2	,, 15.9	Tanakadate	Tanakadate
Mean		49° 14′.6		

θ = 49° 14′.6

Reduction to 1895.0 = 4.99

,, ,, sea level = −0.04

θ = 49° 19′.6

HORIZONTAL INTENSITY (*H*)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 24th 14h 14m	0.30771	405.29	35°.0 C	s 5.9687	35°.4 C	5°42′22″.5	12°54′45″.0	34.6 C	Sutō / Tanakadate	Tanakadate / Sutō
,, ,, 20 9	0.30746	408.69	24.4	5.9463	25.2	5 45 54.4	13 2 57.5	23.7	Sano / Sutō	,, / Sano
,, 25th 8 2	0.30767	408.27	26.6	5.9441	25.8	5 45 0.6	13 1 7.5	27.4	,, / Tanakadate	Tanakadate / Sutō
,, ,, 14 20	*0.30779	406.71	30.6	5.9564	30.6	—	—	—	Sano	Tanakadate
Mean	0.30766									

H = 0.30766

Reduction to 1895.0 = −3519

,, ,, sea level = 358

H = 0.30734

Itiki Syuttyō (市 木 出 張)

Observations of the Seto Sea Party 1896.

Kwannondō (觀 音 堂 前)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 25th 15h 0m	2	49° 8′.1	Tanakadate	Tanakadate

262. MIYOSI.

Nanukaiti-gawara (馬洗川南岸七日市河原)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 26th 19h 0m	4° 56′ 34″	Tanakadate	Sano
,, ,, 21 37	,, 57 33	,,	Sutō
,, ,, 23 19	,, 57 49	Sutō	,,
,, 27th 2 13	,, 57 5	,,	,,
,, ,, 4 17	,, 56 23	,,	,,
,, ,, 5 13	,, 55 26	,,	,,
,, ,, 6 37	,, 54 5	Tanakadate	Sano
,, ,, 7 54	,, 54 15	,,	,,
,, ,, 9 17	,, 55 16	Sano	Tanakadate
,, ,, 10 40	,, 57 57	Tanakadate	Sano
,, ,, 12 22	,, 61 8	Sutō	,,
,, ,, 14 22	,, 63 0	,,	,,
,, ,, 16 8	,, 59 25	,,	,,
,, ,, 17 59	,, 56 26	Sano	,,
,, ,, 21 8	,, 58 36	Sutō	,,
Mean	4° 57′ 38″		

$\delta = 4°\ 57'.63$

Reduction to 1895.0 = −0.74

,, ,, sea level = −0.01

$\delta = 4°\ 56'.9$

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 27th 15h 1m	2	49° 3′.9	Sano	Sutō
,, ,, 15 51	2	,, 7.0	,,	,,
,, ,, 22 8	2	,, 9.3	Sutō	Sano
Mean		49° 6′.7		

$\theta = 49°\ 6'.7$

Reduction to 1895.0 = 4.40

,, ,, sea level = −0.02

$\theta = 49°\ 11'.1$

HORIZONTAL INTENSITY (H)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 26th 21h 6m	0.30565	408.26	25°.4C	5.9657 s	25°.6C	5°47′16″.2	13° 5′53″.1	25°.3C	Sano, Tanakadate	Tanakadate, Sano
,, 27th 7 29	0.30612	408.73	24.4	5.9565	23.9	5 47 12.5	13 6 6.2	25.0	Sano, Tanakadate	Tanakadate, Sano
,, ,, 13 34	0.30594	404.46	36.0	5.9917	36.0	5 43 43.8	12 58 8.8	35.9	Sano, Sutō	Sutō, Sano
Mean	0.30590									

$H = 0.30590$

Reduction to 1895.0 = −3327

,, ,, sea level = 192

$H = 0.30559$

Miyosi Syuttyō (三次出張)

Observations of the Seto Sea Party, 1896.

(1) **High Common School** (高等小學校運動場)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 27th 20h 19m	2	49° 30′.6	Sutō	Sutō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 27th 17h 23m	*0.30280	405.32	34°.3C	6.0157 s	34°.3C	—	—	—	Sano	Sutō

(2) **Matubara** (字 松 原)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 27th 22h 3m	2	49° 14′.1	Sano	Sutō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 27th 19h 16m	*0.30398	407.45	27°.8C	5.9880 s	27°.8C	—	—	—	Sano	Sutō

263. AI.

Common School (阿井尋常小學校)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	θ	Observer	Recorder
July 29th 1h 43m	4° 55′ 35″	Tanakadate	Tanakadate
,, ,, 4 0	,, 54 48	,,	,,
,, ,, 5 16	,, 54 11	,,	,,
,, ,, 7 13	,, 51 59	,,	,,
,, ,, 8 51	,, 52 55	,,	,,
,, ,, 10 13	,, 55 19	,,	,,
,, ,, 12 10	,, 57 58	,,	Sano
,, ,, 12 47	,, 58 45	Sutō	,,
,, ,, 15 9	,, 58 42	,,	,,
,, ,, 16 19	,, 57 19	,,	,,
,, ,, 18 47	,, 56 53	,,	Sutō
,, ,, 19 57	,, 56 43	,,	Sano
,, ,, 21 38	,, 56 48	,,	,,
Mean	4° 56′ 1″		

$\delta = 4°\ 56'.02$

Reduction to 1895.0 = −0.93

,, ,, sea level = −0.03

$\delta = 4°\ 55'.1$

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 28th 6h 42m	2	49° 32′.5	Tanakadate	Tanakadate
,, 29th 15 53	2	,, 31.4	Sutō	Sano
,, ,, 19 17	2	,, 33.0	Sano	Sutō
Mean		49° 32′.3		

$\theta = 49°\ 39'.3$

Reduction to 1895.0 = 4.90

,, ,, sea level = −0.04

$\theta = 49°\ 37'.2$

HORIZONTAL INTENSITY (H)

Observations of the Seto Sea Party, 1895.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 29th 8h 22m	0.30765	406.51	27°.4C	5.9587 s	27°.2C	5°44′47″.5	13° 0′32″.5	27°.7C	Sutō / Tanakadate	Tanakadate / Sutō
„ „ 14 40	0.30740	404.85	35.2	5.9751	35.7	5 42 26.2	12 55 6.9	34.8	Sano / Sutō	„ / Sano
„ „ 21 19	0.30770	407.52	26.4	5.9517	26.7	5 44 42.5	13 0 33.8	26.1	Sano / Sutō	Sutō / Sanō
Mean	0.30758									

H =	0.30758
Reduction to 1895.0 =	−3371
„ „ sea level =	413
H =	0.30728

Ai Syuttyō (阿 井 出 張)

Observations of the Seto Sea Party, 1896.

(阿井尋常小學校ノ下流ニアル河原，堤防ヲ距ル三間餘)

Date and Hour (Mean Local Time).	Needle No.	θ	Observer	Recorder
July 29th 8h 2m	2	49° 37′.3	Sutō	Sano

Date and Hour (Mean Local Time)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 29th 10h 10m	*0.30651	405.61	32°.7C	5.9769 s	32°.7C	—	—	—	Sano	Sutō

264. IMAITI.

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 31st 8h 48m	4° 48′ 52″	Tanakadate	Sutō
„ „ 9 51	„ 50 15	„	Sano
„ „ 11 38	„ 52 38	Sutō	Sutō
„ „ 12 32	„ 54 18	Tanakadate	„
„ „ 13 52	„ 55 35	„	„
„ „ 14 36	„ 55 10	Sutō	Sano
„ „ 15 54	„ 53 58	„	„
„ „ 17 1	„ 52 45	Sutō	Sano
„ „ 19 22	„ 51 23	Sano	Sutō
„ „ 21 21	„ 51 8	Tanakadate	Tanakadate
„ „ 23 26	„ 50 59	„	„
Aug 1st 0 49	„ 50 50	„	„
„ „ 2 29	„ 50 29	„	„
„ „ 5 10	„ 50 6	„	„
„ „ 7 11	„ 47 51	„	„
„ „ 8 38	„ 48 44	„	Sutō / Sano
„ „ 9 40	„ 50 10	„	Tanakadata
Mean	4° 51′ 24″		

δ =	4° 51′.40
Reduction to 1895.0 =	−1.04
„ „ sea level =	0.00
δ =	4° 50′.4

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 31st 10h 52m	2	50° 3′4	Sutō	Sano
,, ,, 15 21	1	49 54.6	Sano	Sutō
,, ,, 17 42	2	,, 58.7	Sutō	Sano
Aug. 1st 6 19	2	50 1.7	Tanakadate	Tanakadate
Mean		49° 59′6		

$\theta = 49°\ 59'6$

Reduction to 1895.0 = 5.06

,, ,, sea level = 0.00

$\theta = 50°\ 4'7$

HORIZONTAL INTENSITY (H)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 31st 13h 25m	0.30282	406.70	29°1C	6.0057 s	29°3C	5°49′12″5	13°10′27″5	28°9C	Sutō / Tanakadate	Tanakadate / Sutō
,, ,, 21 49	0.30307	407.27	27.9	5.9991	27.2	5 49 31.2	13 11 16.2	26.8	Sano / Sutō	,, / Sano
Aug. 1st 8 12	0.30296	407.26	27.9	5.9996	27.8	5 49 28.8	13 11 3.8	27.9	,, / Tanakadate	Tanakadate / Sutō
Mean	0.30295									

$H = 0.30295$

Reduction to 1895.0 = −3381

,, ,, sea level = 000

$H = 0.30261$

Imaiti Syuttyō (今市出張)

Observations of the Seto Sea Party, 1896.

Sanzyūsangasyo Kwannondō (三十三所觀音堂)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 1st 10h 23m	2	50° 1′4	Sutō	Sano

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 1st 9h 55m	*0.30129	406.36	29°8C	6.0231 s	29°8C	—	—	—	Sano	Sutō

265. MATUE.

Near Kentyō (島根縣廳對岸)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 1st 23h 52m	4° 52′ 10″	Sutō	Sutō
,, 2nd 0 30	,, 51 57	,,	,,
,, ,, 2 11	,, 50 23	,,	,,
,, ,, 4 51	,, 50 13	,,	,,
,, ,, 5 58	,, 49 23	,,	,,
,, ,, 6 34	,, 48 41	Tanakadate	Sano
,, ,, 8 9	,, 50 42	,,	,,
,, ,, 8 58	,, 52 33	,,	,,
,, ,, 10 25	,, 53 42	Sano	Tanakadate
,, ,, 11 3	,, 54 26	Tanakadate	Sano
	To be continued		

Continued

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 2nd 12h 5m	4° 56′ 51″	Tanakadate	Sano
,, ,, 13 29	,, 59 8	Sutō	Sutō
,, ,, 14 31	,, 57 36	,,	,,
,, ,, 15 33	,, 56 6	,,	,,
,, ,, 16 36	,, 54 6	,,	,,
,, ,, 18 1	,, 52 38	Sano	Sano
,, ,, 18 46	,, 50 24	,,	,,
,, ,, 19 9	,, 56 32	Tanakadate	,,
,, ,, 20 6	,, 54 11	,,	Sutō
,, ,, 21 12	,, 53 32	,,	,,
,, ,, 23 21	,, 53 1	,,	,,
Mean	4° 53′ 14″		

δ = 4° 53′.23
Reduction to 1895.0 = −1.19
,, ,, sea level = 0.00
δ = 4° 52′.0

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 2nd 9h 47m	2	49° 48′.4	Tanakadate	Sano
,, ,, 14 8	2	,, 48.8	Sutō	Sutō
,, 3rd 9 35	2	,, 48.1	Sano	,,
Mean		49° 48′.4		

θ = 49° 48′.4
Reduction to 1895.0 = 4.75
,, ,, sea level = 0.00
θ = 49° 53′.2

HORIZONTAL INTENSITY (*H*)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 2nd 8h 36m	0.30258	406.55	28°.6C	6.0084 s	28°.4C	5°49′30″.0	13°11′30″.0	28°.8C	Sano / Tanakadate	Tanakadate / Sano
,, ,, 12 37	*0.30256	405.11	33.9	6.0187	33.9	(5 48 20.0	13 8 26.2	33.9)	Sano / Tanakadate	Tanakadate / Sano
,, ,, 17 48	*0.30252	406.72	28.5	6.0080	28.5	—	—	—	Sutō	Tanakadate
,, ,, 22 55	0.30214	407.10	26.7	6.0080	27.0	5 50 23.8	13 13 10.0	26.4	,,	,,
Mean	0.30245									

H = 0.30245
Reduction to 1895.0 = −3283
,, ,, sea level = 000
H = 0.30212

Matue Syuttyō (松江出張)

Observations of the Seto Sea Party, 1896.

Near Electric lightning Plant (電燈會社附近)

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1 °	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 2nd 19h 9m	*0.30840	406.87	28°.0C	5.9493 s	28°.0C	—	—	—	Sutō	Tanakadate
,, ,, 19 30	*0.30095	406.87	27.9	6.0224	27.9	—	—	—	,,	,,
Mean	0.28217									

266. KUROSAKA.

Indigo Field (藍 畑 中)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 4th 12h 35m	4° 55′ 52″	Sutō	Sano
,, ,, 13 10	,, 56 26	Tanakadate	,,
,, ,, 14 27	,, 55 58	Sutō	Tanakadate
,, ,, 15 34	,, 55 20	,,	Sano
,, ,, 16 42	,, 54 37	,,	,,
,, ,, 17 33	,, 54 14	,,	,,
,, ,, 19 58	,, 54 18	,,	,,
,, ,, 22 3	,, 53 44	,,	Tanakadate
,, ,, 23 6	,, 53 29	Tanakadate	,,
,, 5th 3 5	,, 53 35	,,	,,
,, ,, 6 59	,, 51 13	,,	,,
,, ,, 8 22	,, 52 19	Sutō	,,
,, ,, 9 28	,, 53 54	,,	Sutō
,, ,, 10 37	,, 55 39	,,	,,
,, ,, 11 44	,, 55 35	,,	,,
,, ,, 12 57	,, 56 39	Tanakadate	,,
Mean	4° 53′ 59″		

$\delta = 4°\ 53'.98$

Reduction to 1895.0 = −1.15

,, ,, sea level = −0.01.

$\delta = 4°\ 52'.8$

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 4th 19h 11m	2	49° 26′.2	Sano	Tanakadate
,, 5th 7 10	2	,, 28.3	Tanakadate	Sutō
,, ,, 12 34	2	,, 27.6	Sutō	Tanakadate
Mean		49° 27′.4		

$\theta = 49°\ 27'.4$

Reduction to 1895.0 = 4.30

,, ,, sea level = + 0.01

$\theta = 49°\ 31'.7$

HORIZONTAL INTENSITY (H)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 4th 13h 55m	0.30496	406.27	29°.3C	s 5.9868	29°.2C	5°46′12″.5	13°3′ 26″.2	29°.5C	Tanakadate / Sutō	Sutō / Tanakadate
,, ,, 22 20	0.30540	407.63	24.8	5.9727	24.8	5 47 25.0	13 6 36.2	24.8	,, / Tanakadate	,, / Sutō
,, 5th 8 57	0.30536	406.54	28.5	5.9803	28.1	5 46 13.8	13 3 58.8	29.0	Sutō / Tanakadate	Tanakadate / Sutō
Mean	0.30524									

$H = 0.30524$

Reduction to 1895.0 = −3214

,, ,, sea level = 116

$H = 0.30493$

Kurosaka Syuttyō (黒坂出張)
Hiziri Zinsya (聖神社)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 5th 15h 13m	2	49° 34′0	Tanakadate	Sutō

Date and Hour (Mean Local Time)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 5th — —	*0.30399	405.50	31°.9C	s 6.0026	31°.9C	—	—	—	Sutō	Tanakadate

267. TŌZYŌ.

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Aug. 6th 18h 12m	4° 42′ 54″	Tanakadate	Sutō
,, ,, 20 33	,, 42 34	,,	,,
,, ,, 21 17	,, 42 34	Sutō	Tanakadate
,, ,, 22 45	,, 42 29	Tanakadate	Sutō
Mean	4° 42′ 36″		

$\delta = 4°\ 42'.60$
Reduction to 1895.0 = −0.83
,, ,, sea level = −0.02
$\delta = 4°\ 41'.7$

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No	θ	Observer	Recorder
Aug. 6th 19h 51m	2	48° 49′.2	Sutō	Sutō

$\theta = 48°\ 49'.2$
Reduction to 1895.0 = 4.16
,, ,, sea level = −0.04
$\theta = 48°\ 53'.3$

HORIZONTAL INTENSITY (H)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 6th 22h 48m	0.30955	407.95	23°.3C	s 5.9308	23°.8C	5°43′ 5″.0	12°56′46″.2	22°.8C	Sutō / Tanakadate	Tanakadate / Sutō

$H = 0.30955$
Reduction to 1895.0 = −3226
,, ,, sea level = 371
$H = 0.30926$

268. HUKUYAMA.

Middle School (福山尋常中學校)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 8th 12h 36m	4° 45′ 26″	Tanakadate	Sutō
,, ,, 13 16	,, 44 42	,,	,,
,, ,, 14 15	,, 44 5	,,	Tanakadate
,, ,, 15 12	,, 43 22	Sutō	,,
,, ,, 16 8	,, 42 42	,,	,,
,, ,, 17 31	,, 41 32	Tanakadate	Sutō
,, ,, 18 41	,, 41 11	Sutō	Tanakadate
,, ,, 19 34	,, 42 43	,,	Sutō
,, ,, 20 28	,, 42 28	Tanakadate	Tanakadate
,, ,, 23 7	,, 41 46	Sutō	Sutō
,, 9th 1 30	,, 41 4	,,	,,
,, ,, 3 45	,, 40 32	,,	,,
,, ,, 6 6	,, 38 23	,,	,,
,, ,, 7 27	,, 38 1	Tanakadate	Tanakadate
,, ,, 8 21	,, 37 39	,,	,,
,, ,, 8 56	,, 39 3	,,	Sutō
,, ,, 9 28	,, 39 55	Sutō	Tanakadate
,, ,, 10 3	,, 40 59	,,	Sutō
,, ,, 10 35	,, 42 1	,,	Tanakadate
,, ,, 11 12	,, 43 41	Tanakadate	Sutō
,, ,, 11 43	,, 44 38	Sutō	Tanakadate
,, ,, 12 19	,, 45 6	,,	,,
,, ,, 12 59	,, 44 57	,,	,,
,, ,, 13 47	,, 44 27	Tanakadate	Sutō
,, ,, 14 12	,, 43 44	Sutō	Tanakadate
,, ,, 14 41	,, 43 49	,,	,,
,, ,, 15 11	,, 44 13	Tanakadate	Sutō
,, ,, 15 44	,, 43 47	,,	,,
,, ,, 16 25	4° 43 8	Sutō	Tanakadate
,, ,, 17 24	,, 41 49	Tanakadate	Sutō
,, ,, 17 52	,, 41 44	Sutō	Tanakadate
,, ,, 18 41	,, 42 33	,,	,,
,, ,, 19 9	,, 42 11	Tanakadate	,,
,, ,, 21 4	,, 41 51	,,	,,
,, ,, 23 7	,, 40 47	,,	,,
,, 10th 1 11	,, 40 23	,,	,,
,, ,, 4 58	,, 39 32	,,	,,
,, ,, 7 18	,, 37 2	,,	,,
,, ,, 9 7	,, 37 32	Sutō	Sutō
,, ,, 9 28	,, 38 21	,,	,,
,, ,, 10 23	,, 40 57	Tanakadate	,,
,, ,, 11 29	,, 44 2	Sutō	Tanakadate
,, ,, 12 15	,, 46 7	Tanakadate	Sutō
,, ,, 13 18	,, 46 42	,,	,,
,, ,, 14 39	,, 44 59	Sutō	Tanakadate
,, ,, 15 47	,, 42 26	Tanakadate	Sutō
,, ,, 16 36	,, 42 44	Sutō	Tanakadate
Mean	4° 41′ 26″		

	δ = 4°	41′.43
Reduction to	1895.0 =	−0.74
,, ,,	sea level =	0.00
	δ = 4°	40′.7

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 8th 18h 1m	2	48° 27′.9	Tanakadate	Sutō
,, 9th 6 56	2	,, 30.6	Sutō	,, Tanakadate
,, 10th 14 8	2	,, 28.5	Tanakadate	Sutō
,, ,, 15 17	2	,, 27.7	Sutō	Tanakadate
Mean		48° 28′.7		

	θ = 48°	48′.7
Reduction to	1895.0 =	3.70
,, ,,	sea level =	0.00
	θ = 48°	32′.4

HORIZONTAL INTENSITY (H)
(*Vulue deduced from Vidration only by assuming Value of M.)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 8th 9h 30m	*0.30798	406.99	26°6C	5.9523 s	26°6C	—	—	—	Tanakadate	Sutō
„ „ 22 19	0.30774	407.71	24.6	5.9503	25.1	5°44′17″5	12°58′38.8	24.1C	„ Sutō	„ Tanakadate
„ 10th 8 0	*0.30770	407.12	26.2	5.9540	26.2	—	—	—	„	„
„ „ 8 29	0.30821	406.58	27.8	5.9521	27.3.	5 43 0.0	12 56 27.5	28.3	„ Tanakadate	„ Sutō
„ „ 12 55	0.30748	404.78	33.6	5.9739	33.5	5 42 3.8	12 53 57.5	33.7	Sutō Tanakadate	Tanakakate Sutō
Mean	0.30782									

H= 0.30782
Reduction to 1895.0= −3184
„ „ sea level= 000
H= 0.30750

Hukuyama Syuttyō (福山出張)

Observations of the Seto Sea Party, 1896.
(多治木川口街道)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 10th 18h 34m	2	48° 26′6	Tanakadate	Sutō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 10th 17h 58m	*0.30777	406.58	27°8C	5.9576 s	27°8C	—	—	—	Sutō	Tanakadate

269. HAMABATA.

Hamahata No. 1281. (松山村字濱畑千二百八十一番地)

DIP (θ)
Observations of the Seto Sea Party, 1896.

Date and Horur (Mean Local Time.)	Needle No	θ	Observer	Recorder
Aug. 11th 15h 13m	2	48° 47′8	Sutō	Tanakadate

θ=48° 47′8
Reduction to 1895.0= 3.71
„ „ sea level= −0.01
θ=48° 51′5

270. TAKAHASI.

Near Epidemic Asylum (高梁避病院附近ノ畑中)

DECLINATION (δ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 11th 14h 19m	4° 51′ 36″	Tanakadate	Sutō
„ „ 15 42	„ 48 56	„	„
„ „ 16 54	„ 46 58	Sutō	Tanakadate
„ „ 17 39	„ 46 11	„	Sutō
„ „ 19 45	„ 47 27	Tanakadate	Tanakadate
„ „ 21 15	„ 47 1	„	Sutō
„ „ 22 44	„ 46 47	Sutō	„
„ 12th 1 35	„ 46 32	„	„
„ „ 4 34	„ 45 51	„	„
	To be continued		

Continued

Date and Hour. (Mean Local Time.)	δ	Observer	Recorder
Aug. 12th 5 38	4° 44′ 53″	Sutō	Sutō
,, ,, 6 34	,, 43 2	,,	,,
,, ,, 7 39	,, 42 16	Tanakadate	,,
,, ,, 9 8	,, 42 17	,,	Tanakadate
,, ,, 10 19	,, 45 1	,,	,,
,, ,, 11 35	,, 48 47	Sutō	,,
,, ,, 12 49	,, 51 7	Tanakadate	Sutō
,, ,, 14 9	,, 50 11	,,	Tanakadate
,, ,, 15 13	,, 49 23	,,	,,
Mean	4° 46′ 30″		

δ = 4° 46′.50
Reduction to 1895.0 = −1.05
,, ,, sea level = 0.01
δ = 4° 45′.4

DIP (θ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 11th 22h 5m	2	48° 44′.7	Tanakadate	Sutō
,, 12th 8 24	2	,, 46′.3	,,	,,
Mean		48° 45′.5		

θ = 48° 45′.5
Reduction to 1895.0 = 3.70
,, ,, sea level = −0.01
θ = 48° 49′.2

HORIZONTAL INTENSITY (*H*)
(**Value deduced from Vibration only by assuming Value of M.*)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 11st 19h 13m	0.30699	406.80	26°.2C	5.9628 s	26°.4C	5′44′47″.5	13° 0′36″.2	25°.9C	Sutō / Tanakadate	Tanakadate / Sutō
,, 12th 7 23	0.30697	406.84	25.3	5.9633	25.4	5 44 50.0	13 0 46.3	25.3	,, / Sutō	,, / Tanakadate
,, ,, 13 24	*0.30697	403.78	35.3	5.9867	35.3	—	—	—	,,	,,
,, ,, 13 45	0.30708	403.97	34.7	5.9837	34.5	5 42 3.8	12 54 28.8	34.9	,, / Tanakadate	,, / Sutō
Mean	0.30700									

H = 0.30700
Reduction to 1895.0 = −3097
,, ,, sea level = 102
H = 0.30670

Takahashi Syuttyō (高梁出張)

Observations of the Seto Sea Party, 1896.

Play ground of Common School (高梁尋常小學校運動場)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug 12th 16h 58m	2	48° 44′.8	Sutō	Sutō

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Maan Deflections φ_1	Maan Deflections φ_2	Temp. t_D	Observer	Recorver
Aug. 12th 16h 22m	*0.30707	402.92	38°.0C	5.9921 s	38°.0C	—	—	—	Sutō	Tanakadate

271. TOKUSIMA.

Adakemura No. 6. (德嶋市安宅村第六號字百間地東)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 14th 13h 29m	4° 33′ 55″	Tanakadate	Sutō
,, ,, 13 43	,, 33 53	,,	,,
,, ,, 15 7	,, 32 47	,,	,,
,, ,, 16 30	,, 31 17	Sutō	,,
,, ,, 17 31	,, 30 38	,,	,,
,, ,, 19 23	,, 30 43	Tanakadate	Tanakadate
,, ,, 21 26	,, 30 43	,,	Sutō
,, ,, 22 59	,, 30 13	,,	,,
,, 15th 0 30	,, 29 46	,,	Tanakadate
,, ,, 4 53	,, 28 55	,,	,,
,, ,, 6 24	,, 28 11	,,	,,
,, ,, 7 35	,, 27 2	Sutō	,,
,, ,, 8 52	,, 27 1	,,	Sutō
,, ,, 9 50	,, 28 52	,,	,,
,, ,, 11 6	,, 32 2	,,	,,
,, ,, 12 48	,, 33 45	Tanakadate	,,
,, ,, 13 57	,, 32 30	,,	,,
,, ,, 15 6	,, 32 3	Sutō	Tanakadate
,, ,, 16 10	,, 32 6	,,	Sutō
Mean	4° 30′ 11″		

	δ = 4°	30′18
Reduction to	1895.0 =	−0.78
,, ,,	sea level =	0.00
	δ = 4°	29′4

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 14th 18h 37m	2	47° 50′0	Sutō	Tanakadate
,, 15th 7 2	2	,, 45.2	Tanakadate	Sutō
,, ,, 12 3	2	,, 47.4	Sutō	,,
Mean		47° 47′5		

	θ = 47°	47′5
Reduction to	1895.0 =	2.12
,, ,,	sea level =	0.00
	θ = 47°	49′6

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections. φ_1	Mean Deflections. φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 14th 22h 28m	0.30834	406.43	26°6C	5.9537	26°9C	5′43′ 1″2	12°56′37″5	26°3C	Sutō	Tanakadate
,, 15th 8 20	*0.30818	404.93	31.3	5.9580	30.6	(5 41 46.2	12 53 45.0	31.3)	Tanakadate / Sutō	Sutō / Tanakadate
,, ,, 13 29	0.30836	405.94	28.0	5.9559	27.6	5 42 20.0	12 54 59.4	28.4	,, / Tanakadate	,, / Sutō
Mean	0.30829									

	H =	0.30829
Reduction to	1895.0 =	−2693
,, ,,	sea level =	000
	H =	0.30802

Tokusima Syuttyō (徳 嶋 出 張)

Observations of the Seto Sea Party, 1896.

Hukusima, Miya no Nisi (福島町宮ノ西, 畑ノ中央)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 15th 17h 45m	2	47° 47′7	Tanakadate	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 15th 16h 45m	*0.30857	405.56	29°.3C	5.9576	29°.3C	—	—	—	Tanakadate	Sutō
,, ,, — —	*0.30844	405.50	29.5	5.9592	29.5	—	—	—	Sutō	Tanakadate
Mean	0.30851									

272. WAKIMATI.

Uenohara (上 野 原)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 17th 16 5	4° 32′ 3″	Tanakadate	Sano
,, ,, 17 5	,, 31 56	Sutō	,,
,, ,, 19 3	,, 31 1	,,	,,
,, ,, 21 7	,, 30 56	Tanakadate	Sutō
,, ,, 23 8	,, 30 29	Sutō	,,
,, 18th 0 43	,, 30 24	,,	,,
,, ,, 2 9	,, 29 26	,,	,,
,, ,, 4 3	,, 27 23	,,	,,
Mean	4° 29′ 32″		

$\delta = 4°\ 29'.53$

Reduction to 1895.0 = −0.72

,, ,, sea level = 0.00

$\theta = 4°\ 28'.8$

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 19th 9h 49m	4° 31′ 10″	Tanakadate	Sutō
,, ,, 10 34	,, 33 15	Sutō	Tanakadate
,, ,, 11 7	,, 33 48	,,	Sano
,, ,, 12 46	,, 35 28	,,	,,
,, ,, 14 15	,, 33 42	Tanakadate	,,
,, ,, 15 16	,, 32 5	Sutō	Tanakadate
,, ,, 16 43	,, 31 27	,,	,,
,, ,, 17 39	,, 31 13	,,	,,
,, ,, 18 40	,, 31 4	,,	,,
,, ,, 21 12	,, 31 20	Sano	Sano
,, ,, 22 35	,, 30 29	,,	,,
,, 20th 2 26	,, 29 40	,,	,,
,, ,, 4 39	,, 29 22	,,	,,
,, ,, 5 50	,, 29 20	,,	,,
,, ,, 7 14	,, 28 24	Tanakadate	Sutō
,, ,, 8 21	,, 28 30	Sutō	,,
,, ,, 9 20	,, 29 48	,,	,,
Mean	4° 31′ 5″		

$\delta = 4°\ 31'.08$

Reduction to 1895.0 = −0.72

,, ,, sea level = 0.00

$\delta = 4°\ 30'.4$

DIP (θ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 17th 18h 26m	2	47° 45′3	Sutō	Sano
„ 19th 12 15	2	„ 52.6	Sano	Sutō
„ „ 17 13	2	„ 50.7	Sutō	Tanakadate
„ 20th 6 47	2	„ 51.0	Sano	Sano, Sutō
„ „ 9 33	2	„ 50.2	Tanakadate	Tanakadate
Mean		47° 50′0		

$\theta = 47°\ 50'0$
Reduction to 1995.0 = 2.45
„ „ sea level = −0.01
$\theta = 47°\ 52'4$

HORIZONTAL INTENSITY (H)
(*Value deduced from Vibration only by assuming Value of M.)
Observations of the Seto Sea Party 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 17th 20h 30m	0.30875	406.27	26°7C	5.9512 s	27°1C	5°42′27″5	12°55′20″0	26°3C	Sano, Tanakadate	Tanakadate, Sano
„ 18th 13 54	0.30861	404.38	32.8	5.9675	33.6	5 40 58.8	12 51 57.5	32.0	Sano, Tanakadate	Tanakadate, Sano
„ 19th 6 15	*0.30825	406.10	27.2	5.9657	27.9	(5 42 37.5	12 55 30.6	27.2)	Tanakadate	Sutō
„ 20th 7 50	0.30854	407.10	23.9	5.9452	23.6	5 43 15.0	12 57 10.0	24.3	Sutō, Tanakadate	Tanakadate, Sutō
Mean	0.30854									

$H = 0.30854$
Reduction to 1895.0 = −2841
„ „ sea level = 63
$H = 0.30826$

273. ŌSATO.

Ōsatomura (大里村)

DECLINATION (δ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 21st 21h 1m	4° 24′ 5″	Tanakadate	Sutō
„ „ 22 59	„ 23 55	„	Tanakadate
„ 2nd 0 33	„ 23 0	„	„
„ „ 2 0	„ 21 53	„	„
„ „ 4 57	„ 20 20	„	„
„ „ 6 20	„ 19 16	„	Sutō
„ „ 7 21	„ 19 36	Sutō	Sano
„ „ 8 47	„ 22 16	„	„
„ „ 10 2	„ 25 14	Sano	Sutō
„ „ 11 8	„ 27 4	Sutō	Sano
„ „ 12 28	„ 26 53	„	„
„ „ 13 41	„ 25 9	Tanakadate	„
„ „ 15 17	„ 23 48	Sutō	Sutō
„ „ 16 10	„ 23 21	„	„
„ „ 17 41	„ 22 45	„	Sano
„ „ 19 0	„ 21 58	„	„
Mean	4° 23′ 2″		

$\delta = 4°\ 23'03$
Reduction to 1895.0 = −0.43
„ „ sea level = 0.00
$\delta = 4°\ 22'6$

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 21st 18h 55m	2	47° 15′5	Sano	Sutō
,, 22nd 11 53	2	,, 16.3	Sutō	Sano
,, ,, 17 17	2	,, 14.7	,,	,,
Mean		47° 15′5		

	θ =	47° 15′5
Reduction to	1895.0 =	1.80
,, ,,	sea level =	0.00
	θ =	47° 17′3

HORIZONTAL INTENSITY (H)

(*Value deduced from Vibration only by assuming Value of M.)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 22nd 8h 1m	0.30951	406.42	26°1C	5.9410 s	25°6C	5°41′18″8	12°52′22″5	26.7C	Sano / Sutō	Sutō / Sano
,, ,, 13 0	*0.31027	405.38	29.0	5.9434	29.0	—	—	—	,,	Tanakadate
,, ,, 13 21	0.31040	405.08	29.7	5.9431	29.6	5 3930.0	12 48 40.0	29.9	,, / Tanakadate	,, / Sutō
,, ,, 17 54	*0.30980	405.88	27.4	5.9432	27.4	—	—	—	Sano	,,
,, ,, 18 31	0.30936	406.01	26.7	5.9471	27.2	5 41 23.8	12 52 41.2	26.3	,, / Sutō	,, / Sano
Mean	0.30987									

	H =	0.30987
Reduction to	1895.0 =	−2823
,, ,,	sea level =	000
	H =	0.30959

274. NAWARI.

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Aug. 24th 1h 30m	4° 17′ 58″	Tanakadate	Tanakadate
,, ,, 4 52	,, 18 33	,,	,,
,, ,, 5 48	,, 17 50	,,	,,
,, ,, 6 36	,, 16 45	,,	,,
,, ,, 7 23	,, 16 30	,,	,,
,, ,, 8 47	,, 17 28	,,	Sutō
,, ,, 10 58	,, 22 25	Sutō	Sano
,, ,, 11 40	,, 23 17	,,	,,
,, ,, 12 56	,, 24 41	,,	,,
,, ,, 14 47	,, 22 29	Tanakadate	,,
,, ,, 15 45	,, 21 13	,,	,,
,, ,, 17 14	,, 20 13	Sano	,,
,, ,, 18 24	,, 20 8	,,	,,
,, ,, 19 23	,, 20 10	Tanakadate	,,
,, ,, 20 59	,, 19 29	,,	,,
,, ,, 22 40	,, 20 13	,,	Sutō
,, 25th 0 13	,, 19 30	,,	,,
,, ,, 1 30	,, 19 5	Sutō	Tanakadate
Mean	4° 19′ 52″		

	δ =	4° 19′87
Reduction to	1895.0 =	−0.31
,, ,,	sea level =	0.00
	δ =	4° 19′6

DIP (θ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 24th 10h 11m	2	47° 6′4	Sutō	Sano
,, ,, 13 53	2	,, 8.5	Tanakadate	Sutō
,, ,, 23 25	2	,, 6.8	Sutō	Tanakadate
Mean		47° 7′2		

$\theta = 47° 7'2$
Reduction to 1895.0 = 1.98
,, ,, sea level = 0.00
$\theta = 47° 9'2$

HORIZONTAL INTENSITY (H)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 24th 8h 24m	0.31037	405.33	29°5C	5.9403 s	29°4C	5°39′32″5	12°48′25″0	29°6C	Sutō / Tanakadate	Tanakadate / Sutō
,, ,, 12 22	0.31046	404.76	31.2	5.9457	31.5	5 39 3.1	12 47 23.8	30.9	Sano / Sutō	,, / Sano
,, ,, 20 33	0.31062	406.46	25.3	5.9315	25.6	5 40 32.5	12 50 55.0	25.0	Sano / Tanakadate	Tanakadate / Sano
Mean	0.31048									

$H = 0.31048$
Reduction to 1895.0 = −2930
,, ,, sea level = 000
$H = 0.31019$

Nawari Syuttyō (奈半利出張)

Observations of the Seto Sea Party, 1896.

Grave yard near Tenzinmatubara (天神松原新平民墓地)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 24th 17h 51m	2	47° 5′9	Tanakadate	Sutō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 24th 18h 51m	*0.31017	406.03	26°6C	5.9384 s	27°1C	—	—	—	Tanakadate	Sutō

275. KŌTI.

Bōtutumi (浦戸港棒堤)

DECLINATION (δ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 26th 8h 59m	4° 23′ 50″	Tanakadate	Sano
,, ,, 9 31	,, 24 47	,,	,,
,, ,, 10 37	,, 26 38	,,	,,
,, ,, 12 33	,, 27 48	,,	,,
,, ,, 14 4	,, 27 1	,,	,,
,, ,, 15 45	,, 24 10	Sano	,,
,, ,, 17 1	,, 23 13	Tanakadate	,,
,, ,, 19 14	,, 24 2	,,	,,
	To be continued		

Continued

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 26th 21h 15m	4° 23′ 52″	Tanakadate	Tanakadate
,, ,, 23 25	,, 23 27	,,	,,
,, 27th 1 19	,, 23 12	Sano	Sano
,, ,, 5 20	,, 22 28	,,	,,
,, ,, 6 30	,, 20 37	Tanakadate	,,
,, ,, 7 44	,, 20 32	,,	Tanakadate
,, ,, 9 30	,, 23 14	,,	,,
,, ,, 10 20	,, 25 48	,,	,,
Mean	4° 23′ 50″		

δ = 44 23⁄83
Reduction to 1895.0 = −0.23
,, ,, sea level = 0.00
δ = 40° 23.6

DIP (θ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 26th 12h 2m	2.	47′ 13⁄8	Tanakadate	Sano
,, ,, 18 9	2	,, 15.2	Sano	Tanakadate
,, 27th 8 39	2	,, 15.3	Tanakadate	,,
Mean		47° 14⁄8		

θ = 47° 14⁄8
Reduction to 1895.0 = 2.64
,, ,, sea level = 0.00
θ = 47° 17⁄4

HORIZONTAL INTENSITY (H)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 26th 13h 38m	0.31117	404.12	33°4C	5.9435 s	33°6C	5°37′40″6	12°44′11″9	33°2C	Sano / Tanakadate	Tanakadate / Sano
,, ,, 20 34	0.31090	405.95	26.4	5.9328	26.8	5 39 37.5	12 48 38.8	26.0	Sano	Tanakadate
,, 27th 7 19	0.31093	406.58	25.2	5.9273	25.3	5 40 7.5	12 49 45.0	25.1	,, / Tanakadate	,, / Sano
Mean	0.31100									

H = 0.31100
Reduction to 1895.0 = −3139
,, ,, sea level = 000
H = 0.31069

276. ŌTOTI

DECLINATION (δ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 28th 12 16	4° 31′ 50″	Tanakadate	Sano
,, ,, 13 29	,, 31 20	,,	,,
,, ,, 14 23	,, 30 23	,,	,,
,, ,, 15 43	,, 27 44	,,	,,
,, ,, 16 30	,, 26 15	,,	,,
,, ,, 17 48	,, 25 2	,,	,,
,, ,, 19 21	,, 25 18	,,	,,
,, ,, 21 50	,, 24 41	,,	,,
,, 29th 1 10	,, 24 55	,,	Tanakadate
,, ,, 2 9	,, 24 38	,,	,,
,, ,, 5 22	,, 23 23	,,	,,
,, ,, 6 36	,, 21 28	,,	,,
,, ,, 6 58	,, 21 2	,,	,,
,, ,, 8 12	,, 20 33	,,	Sano
,, ,, 10 3	,, 24 26	,,	,,
,, ,, 10 53	,, 26 26	,,	Tanakadate
,, ,, 11 33	,, 27 36	,,	,,
Mean	4° 25′ 23″		

δ = 4° 25⁄38
Reduction to 1895.0 = −0.43
,, ,, sea level = −0.02
δ = 4° 24⁄9

DIP (θ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 28th 15h 8m	2	47° 30′8	Tanakadate	Sano
,, 29th 1 16	2	,, 30.1	Sano	Tanakadate
,, ,, 9 10	2	,, 29.0	Tanakadate	Sano
Mean		47° 30′0		

$\theta = 47° 30′0$
Reduction to 1895.0 = 2.49
,, ,, sea level = −0.06
$\theta = 47° 32′4$

HORIZONTAL INTENSITY (H)
(*Value deduced from Vibration only by assuming Value of M.)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 28th 13h 7m	0.30992	404.23	31°6C	5.9544 s	31°6C	5′39′13″1	12°47′51″2	31°5C	Sano / Tanakadate	Tanakadate / Sano
,, ,, 22 17	0.30987	407.18	22.4	5.9340	23.1	5 42 2.5	12 54 15.0	21.7	Sana / Tanakadate	Tanakadate / Sano
,, 29th 7 52	0.31000	407.08	24.1	5.9315	23.4	5 41 20.6	12 52 28.8	24.8	Sano / Tanakadate	Tanakadate / Sano
,, ,, — —	*0.31009	404.99	29.4	5.9471	29.4	—	—	—	Sano	Tanakadate
Mean	0.30997									

$H = 0.30997$
Reduction to 1895.0 = −3038
,, ,, sea level = 434
$H = 0.30971$

Ōtoti Syuttyō (大 栃 出 張)

Observations of the Seto Sea Party, 1896.

Hatiozimiya (八王子宮境内)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 29th 13h 20m	2	47° 31′3	Tanakadate	Sano

277. SUSAKI.

Sea Shore (海 濱 ノ 松 原)

DECLINATION (δ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Aug. 31st 7h 46m	4° 16′ 56″	Tanakadate	Sano
,, ,, 8 57	,, 18 53	,,	,,
,, ,, 10 40	,, 24 33	,,	,,
,, ,, 11 36	,, 25 59	,,	,,
,, ,, 13 24	,, 24 49	,,	,,
,, ,, 15 17	,, 22 13	,,	,,
,, ,, 16 27	,, 20 52	Sano	Tanakadate
,, ,, 18 10	,, 21 0	Tanakadate	Sano
,, ,, 20 15	,, 20 33	,,	,,
,, ,, 21 55	,, 20 1	,,	Tanakadate
,, ,, 23 49	,, 20 39	,,	,,
Sept. 1st 1 18	,, 20 11	Sano	Sano
,, ,, 3 54	,, 19 43	,,	,,
,, ,, 6 4	,, 17 43	,,	,,
,, ,, 6 55	,, 17 31	,,	,,
,, ,, 7 54	,, 17 13	Tanakadate	Tanakadate
,, ,, 8 56	,, 18 56	,,	,,
,, ,, 9 10	,, 19 29	,,	,,
,, ,, 12 16	,, 25 14	,,	Sano
Mean	4° 20′ 50″		

$\delta = 4° 20′83$
Reduction to 1895.0 = −0.05
,, ,, sea level = 0.00
$\delta = 4° 20′8$

DIP (θ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 31st 9h 48m	2	47° 15′6	Sano	Tanakadate
,, ,, 14 28	2	,, 13.2	Tanakadate	Sano
,, ,, 19 48	2	,, 14.3	,,	,,
Mean		47° 14′4		

$\theta = 47° 14′4$
Reduction to 1895.0 = 2.84
,, ,, sea level = 0.00
$\theta = 47° 17′2$

HORIZONTAL INTENSITY (H)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 31st 6h 36m	0.31086	405.29	29°9C	5.9351 s	28°7C	5°38′45″0	12°46′38″1	31°0C	Sano / Tanakadate	Tanakadate / Sano
,, ,, 12 0	0.31128	404.01	33.9	5.9449	34.8	5 37 41.2	12 44 20.0	33.0	Sano / Tanakadate	Tanakadate / Sano
,, ,, 22 22	0.31073	406.45	24.1	5.9305	24.6	5 40 22.5	12 50 25.0	23.7	Sano / Tanakadate	Tanakadate / Sano
Mean	0.31096									

$H = 0.31096$
Reduction to 1895.0 = −3280
,, ,, sea level = 000
$H = 0.31063$

Susaki Syuttyō (須崎出張)

Observations of the Seto Sea Party, 1896.
Revenue office (收稅署前芝地)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 1st 15h 21m	2	47° 14′9	Sano	Tanakadate

Date and Heur (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflection φ_1	Mean Deflection φ_2	Temp. t_D	Observer	Recorder
Sept. 1st 15h 5m	*0.31159	404.84	29°0C	5.9336 s	29°0C	—	—	—	Sano	Tanakadate

278. NAKAMURA.

Nakamura, Ōsima (中村大字大嶋)

DECLINATION (δ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 3rd 12h 14m	4° 16′ 30″	Tanakadate	Sano
,, ,, 13 13	,, 16 47	,,	,,
,, ,, 14 26	,, 14 50	,,	,,
,, ,, 15 44	,, 12 35	,,	,,
,, ,, 18 1	,, 11 49	,,	,,
,, ,, 19 0	,, 11 50	Sano	,,
,, ,, 19 30	,, 11 40	Tanakadate	,,
,, ,, 21 0	,, 11 55	,,	,,
	To be continued		

Continued

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Sept. 3rd 23h 9m	4° 11′ 22″	Tanakadate	Tanakadate
,, 4th 1 24	,, 9 56	,,	,,
,, ,, 5 19	,, 9 0	,,	,,
,, ,, 6 29	,, 6 31	,,	,,
,, ,, 7 56	,, 6 58	,,	Sano
,, ,, 9 1	,, 10 17	Sano	,,
,, ,, 11 18	,, 15 14	,,	,,
,, ,, 12 39	,, 16 14	,,	,,
,, ,, 14 6	,, 14 43	,,	,,
Mean	4° 11′ 28″		

δ = 4° 11′47
Reduction to 1895.0 = 0.33
,, ,, sea level = 0.00
δ = 4° 11′8

DIP. (θ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Eime.)	Needle No.	θ	Observer	Recorder
Sept. 3rd 14h 59m	2	46° 46′0	Sano	Tanakadate
,, ,, 22 16	2	,, 42.9	Tanakadate	,,
,, 4th 10 38	2	,, 43.4	Sano	Sano
Mean		46° 44′1		

θ = 46° 44′1
Reduction to 1895.0 = 2.68
,, ,, sea level = 0.00
θ = 46° 46′8

HORIZONTAL INTENSITY (*H*)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 3rd 13h 53m	0.31336	404.52	30°1C	s 5.9203	30°5C	5°35′53″8	12°40′17″5	29°7C	Sano, Tanakadate	Tanakadate, Sano
,, ,, 20 34	0.31317	405.75	24.8	5.9123	25.1	5 37 10.0	12 43 11.2	24.6	Sano, Tanakadate	Tanakadate, Sano
,, 4th 7 32	0.31306	405.84	25.2	5.9119	25.4	5 37 15.0	12 43 17.5	25.1	Sano, Tanakadate	Tanakadate, Sano
Mean	0.31320									

H = 0.31320
Reduction to 1895.0 = −3432
,, ,, sea level = 000
H = 0.31286

279. UWAZIMA.

High Common School (宇和嶋高等小學校)

DECLINATION (δ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Sept. 6th 23h 6m	4° 14′ 16″	Tanakadate	Sano
,, 7 5 55	,, 12 54	Sano	,,
,, ,, 6 24	,, 12 29	,,	,,
,, ,, 7 22	,, 12 15	,,	,,
,, ,, 8 35	,, 12 55	Tanakadate	,,
,, ,, 9 34	,, 16 35	,,	,,
,, ,, 10 53	,, 19 31	,,	Tanakadate
,, ,, 11 51	,, 19 54	,,	,,
,, ,, 13 2	,, 19 9	,,	,,
	To be continued		

Continued

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Sept. 7th 15h 14m	4° 15′ 34″	Tanakadate	Tanakadate
,, ,, 16 35	,, 14 31	,,	,,
,, ,, 17 40	,, 14 39	,,	,,
,, ,, 19 49	,, 15 30	,,	,,
,, ,, 20 14	,, 15 30	,,	,,
,, ,, 22 53	,, 14 55	,,	,,
,, 8th 1 0	,, 14 28	,,	,,
,, ,, 3 14	,, 14 5	,,	,,
,, ,, 4 40	,, 13 52	,,	,,
,, ,, 6 46	,, 11 14	,,	,,
,, ,, 8 6	,, 10 28	,,	,,
,, ,, 8 38	,, 10 50	,,	,,
Mean	4° 15′ 13″		

δ = 4° 15′.22
Reduction to 1895.0 = 0.34
,, ,, sea level = 0.00
δ = 4° 15′.6

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 7th 10h 18m	2	47° 5′.1	Tanakadate	Tanakadate
,, ,, 14 10	2	,, 4.0	,,	,,
,, ,, 23 55	2	,, 3.4	,,	,,
Mean		47° 4′.2		

θ = 47° 4′.2
Reduction to 1895.0 = 3.37
,, ,, sea level = 0.00
θ = 47° 7′.6

HORIZONTAL INTENSITY (*H*)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 7th 8h 8m	*0.31220	405.78	25°.1C	5.9207 s	25°.1C	(5°38′27″.5	12°45′29″.4	25°.9C)	Sano / Tanakadate	Tanakadate / Sano
,, ,, 12 38	0.31260	404.66	29.1	5.9241	28.4	5 36 32.5	12 41 42.5	29.9	Sano / Tanakadate	Tanakadate / Sano
,, 8th 7 11	0.31243	405.35	26.0	5.9221	26.2	5 37 40.0	12 44 27.5	25.8	Tanakadate	Tanakadate
Mean	0.31241									

H = 0.31241
Reduction to 1895.0 = −.3606
,, ,, sea level = .000
H = 0.31205

Uwazima Syuttyō (宇和島出張)

Observations of the Seto Sea Party, 1896.

Mikotama Zinsya (和靈神社)

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 8th 11h 8m	*0.31237	405.28	26°.7C	5.9229 s	26°.7C	—	—	—	Tanakadate	Tanakadate

280. WAKAMIYA.

Kitamura, Wakamiya (喜多村大字若宮)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)				δ			Observer	Recorder
Sept.	9th	8h	17m	4°	15′	16″	Tanakadate	Sano
,,	,,	8	54	,,	16	32	,,	,,
,,	,,	10	19	,,	20	7	,,	,,
,,	,,	11	42	,,	23	1	,,	,,
,,	,,	13	7	,,	23	25	,,	,,
,,	,,	13	38	,,	23	9	,,	,,
,,	,,	15	17	,,	21	2	Sano	Tanakadate
,,	,,	16	27	,,	19	53	Tanakadate	Sano
,,	,,	17	54	,,	20	18	,,	,,
,,	,,	19	50	,,	20	23	,,	,,
,,	,,	22	48	,,	20	46	,,	,,
,,	10th	3	11	,,	19	52	Sano	,,
,,	,,	4	15	,,	19	25	,,	,,
,,	,,	6	21	,,	18	2	,,	,,
,,	,,	6	58	,,	16	36	Tanakadate	,,
,,	,,	8	7	,,	14	43	,,	,,
,,	,,	8	50	,,	14	47	,,	,,
Mean				4°	20′	2″		

$\delta = 4°\ 20'.03$

Reduction to 1895.0 = 0.14

,, ,, sea level = 0.00

$\delta = 4°\ 20'.2$

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)				Needle No.	θ		Observer	Recorder
Sept.	9th	9h	45m	2	47°	25′.5	Tanakadate	Sano
,,	,,	14	28	2	,,	24.4	,,	,,
,,	,,	21	50	2	,,	20.1	Sano	,,
Mean					47°	23′.3		

$\theta = 47°\ 23'.3$

Reduction to 1895.0 = 3.71

,, ,, sea level = 0.00

$\theta = 47°\ 27'.0$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)				H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept.	9th	12h	41m	0.31180	403.29	32°.7 C	5.9435 s	32°.8 C	5°36′28″.8	12°41′23″.8	32°.6 C	Sano / Tanakadate	Tanakadate / Sano
,,	,,	19	20	0.31165	405.37	26.4	5.9296	26.6	5 38 17.5	12 45 33.1	26.2	Sano / Tanakadate	Tanakadate / Sano
,,	10th	7	40	0.31185	405.49	25.9	5.9256	25.6	5 38 10.6	12 45 28.1	26.3	Sano / Tanakadate	Tanakadate / Sano
,,	,,	9	50	*0.31183	404.63	28.8	5.9329	28.8	—	—	—	Sano	Tanakadate
Mean				0.31178									

$H = 0.31178$

Reduction to 1895.0 = −3644

,, ,, sea level = 13

$H = 0.31142$

281 YAHATAHAMA

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 12th 9h 39m	2	47° 31′.8	Tanakadate	Sano
,, ,, 10 39	2	,, 30.2	,,	,,
Mean		47° 31′.0		

$\theta = 47°\ 31'.0$

Reduction to 1895.0 = 3.91

,, ,, sea level = 0.00

$\theta = 47°\ 34'.9$

HORIZONTAL INTENSITY (H)

(**Value deduced from Vibration only by assuming Value of M.*)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Locnl Time)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 12th 9h58m	*0.31166	405.75	25°.2C	s 5.9261	25°.2C	—	—	—	Sano	Tanakadate
,, ,, 10 14	*0.31140	405.75	25.2	5.9286	25.2	—	—	—	,,	,,
Mean	0.31153									

$H = 0.31153$

Reduction to 1895.0 = −3736

,, ,, sea level = 000

$H = 0.31116$

282 SAGANOSEKI

Garandō (伽藍堂)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Sept. 12th 23h 32m	4° 13′ 38″	Tanakadate	Tanakadate
,, 13th 1 43	,, 13 30	,,	,,
,, ,, 4 10	,, 12 41	,,	,,
,, ,, 6 10	,, 11 36	,,	,,
,, ,, 6 46	,, 11 25	,,	,,
,, ,, 7 53	,, 10 5	,,	Sano
,, ,, 10 43	,, 14 45	Sano	,,
,, ,, 10 59	,, 16 7	,,	,,
,, ,, 11 24	,, 17 4	,,	,,
,, ,, 11 56	,, 17 50	,,	,,
,, ,, 12 28	,, 18 42	,,	,,
,, ,, 13 39	,, 18 44	Tanakadate	,,
,, ,, 15 19	,, 18 33	,,	,,
,, ,, 15 28	,, 17 16	,,	,,
,, ,, 16 29	,, 14 11	,,	,,
,, ,, 17 14	,, 13 10	,,	,,
,, ,, 19 5	,, 13 17	Sano	,,
,, ,, 20 43	,, 13 10	Tanakadate	,,
,, ,, 23 18	,, 13 13	,,	,,
Mean	4° 13′ 54″		

$\delta = 4°\ 13'.90$

Reducation to 1895.0 = 0.61

,, ,, sea level = 0.00

$\delta = 4°\ 14'.5$

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 13th 9h 2m	2	47° 4′.4	Sano	Sano
,, ,, 14 26	2	,, 8.9	Tanakadate	,,
,, ,, 17 51	2	,, 2.7	,,	,,
,, ,, 22 21	2	,, 7.3	,,	,,
Mean		47° 5′.8		

$\theta = 47°\ 5'.8$

Reduction to 1895.0 = 4.08

,, ,, sea level = 0.00

$\theta = 47°\ 9'.9$

HORIZONTAL INTENSITY (H)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 13th 7h 30m	0.31435	406.64	22°.2C	5.8931 s	21°.7C	5°36′28″.1	12°41′35″.0	22°.8C	Sano / Tanakadate	Tanakadate / Sano
„ „ 13 16	0.31422	404.15	30.6	5.9151	31.1	5 34 33.8	12 37 4.4	30.0	Sano / Tanakadate	Tanakadate / Sano
„ „ 20 14	0.31413	406.11	23.7	5.9008	24.0	5 36 27.5	12 41 33.8	23.4	Sano / Tanakadate	Tanakadate / Sano
Mean	0.31423									

H= 0.31423
Reduction to 1895.0 = −3913
„ „ sea level = 000
H= 0.31384

Saganoseki Syuttyō (佐賀關出張)

Observations of the Seto Sea Party, 1896.

(1) **Sea Shore** (海岸)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 14th 13h 14m	2	47° 5′.5	Tanakadate	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 14th 13h 13m	*0.31455	405.50	26°.0C	5.9008 s	26°.0C	—	—	—	Tanakadate	Tanakadate

(2) **Zyūninzuka** (十人塚)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 14th 18h 6m	2	48° 19′.9	Tanakadate	Tanakadate

283 SAIKI

DECLINATION (δ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 15th 17h 16m	4° 8′ 27″	Tanakadate	Sano
„ „ 18 8	„ 8 49	„	„
„ „ 19 21	„ 8 30	„	„
„ „ 21 45	„ 7 42	„	„
„ „ 23 23	„ 8 16	„	„
„ 16th 2 10	„ 7 24	Sano	„
„ „ 5 29	„ 8 5	„	„
„ „ 5 58	„ 7 24	„	„
„ „ 6 53	„ 5 57	„	„
„ „ 7 34	„ 5 12	Tanakadate	„
„ „ 8 46	„ 5 57	„	„
„ „ 9 55	„ 8 14	„	Tanakadate
„ „ 10 58	„ 11 52	„	„
„ „ 11 46	„ 14 2	„	„
„ „ 12 11	„ 14 1	„	Sano
„ „ 13 6	„ 12 46	„	„
„ „ 14 22	„ 11 4	„	„
„ „ 15 43	„ 9 2	Sano	„
„ „ 17 6	„ 8 38	„	„
„ „ 17 40	„ 8 57	„	„
Mean	4° 8′ 31″		

δ=4° 8′.52
Reduction to 1895.0 = 0.84
„ „ sea level = 0.00
δ=4° 9′.4

DIP (θ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 15th 21h 55m	2	46° 50′3	Sano	Tanakadate
„ 16th 10 1	2	„ 56.4	Tanakadate	„
„ „ 14 40	2	„ 56.3	„	Sano
Mean		46° 54′3		

$\theta = 46°\ 54'3$
Reduction to 1895.0 = 3.93
„ „ sea level = 0.00
$\theta = 46°\ 58'2$

HORIZONTAL INTENSITY. (H)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 15th 18h 53m	0.31342	406.12	22°7C	s 5.9069	23°1C	5°37′11″9	12°43′10″0	22°4C	Sano / Tanakadate	Tanakadate / Sano
„ 16th 8 24	0.31331	406.24	23.7	5.9052	23.0	5 37 2.5	12 42 37.5	24.4	Sano / Tanakadate	Tanakadate / Sano
„ „ 12 44	0.31339	403.57	31.3	5.9268	31.9	5 35 2.5	12 38 15.7	30.7	Sano / Tanakadate	Tanakadate / Sano
Mean	0.31337									

$H = 0.31337$
Reduction to 1895.0 = −3982
„ „ sea level = 000
$H = 0.31297$

Saiki Syuttyō (佐伯出張)

Observations of the Seto Sea Party, 1896.

(1)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 16th 18h 16m	2	46° 55′0	Tanakadate	Tanakadate

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 16th 18h 53m	*0.31233	405.46	25°4C	s 5.9216	25°4C	—	—	—	Tanakadate	Tanakadate
„ „ 19 14	*0.31256	405.96	23.8	5.9156	23.8	—	—	—	„	„
Mean	0.31245									

(2) **Ubutama Zinsya** (鶴ヶ岡字坂浦産靈神社鳥居前)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 17th 9h 4m	2	46° 52′4	Tanakadate	Sano

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Tecorder
Sept. 17th 9h 55m	*0.31310	405.96	23°6C	s 5.9107	23°6C	—	—	—	Sano	Tanakadate

284. OITA.

DECLINATION (δ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 17th 20h 44m	4° 15′ 47″	Tanakadate	Tanakadate
„ „ 22 6	„ 15 47	„	„
„ 18th 0 36	„ 15 42	„	„
„ „ 2 24	„ 15 15	„	„
„ „ 4 31	„ 14 58	„	„
„ „ 5 13	„ 15 52	„	„
„ „ 6 4	„ 15 42	„	„
„ „ 7 17	„ 12 16	„	Sano
„ „ 8 15	„ 10 18	„	„
„ „ 8 49	„ 11 20	„	„
„ „ 10 23	„ 16 8	Sano	„
„ „ 12 14	„ 20 53	„	„
„ „ 13 24	„ 22 0	Tanakadate	„
„ „ 14 44	„ 18 55	„	„
„ „ 15 49	„ 15 51	Sano	„
„ „ 16 45	„ 16 45	„	„
„ „ 17 22	„ 15 35	„	„
„ „ 17 48	„ 18 15	„	„
„ „ 18 6	„ 20 0	„	„
„ „ 18 37	„ 13 56	„	„
„ „ 20 13	„ 16 42	Tanakadate	Tanakadate
Mean	4° 15′ 58″		

$\delta = 4°\ 15'.97$
Reduction to 1895.0 = 0.77
„ „ sea level = 0.00
$\delta = 4°\ 16'.7$

DIP (θ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 18th 0h 40m	2	47° 14′.5	Tanakadate	Tanakadate
„ „ 10 27	2	„ 15.1	Sano	Sano
„ „ 14 29	2	„ 19.9	Tanakadate	„
Mean		47° 16′.5		

$\theta = 47°\ 16'.5$
Reduction to 1895.0 = 4.47
„ „ sea level = 0.00
$\theta = 47°\ 21'.0$

HORIZONTAL INTENSITY (H)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 18th 8h 52m	0.31210	406.35	20°.7C	s 5.9149	19°.6C	5°38′45″.0	12°47′ 3″.8	21°.9C	Sano / Tanakadate	Tanakadate / Sano
„ „ 12 58	0.31146	403.64	30.5	5.9458	31.7	5 37 16.2	12 43 20.6	29.4	Sano / Tanakadate	Tanakadate / Sano
„ „ 19 32	0.31004	406.13	22.2	5.9394	22.5	5 40 55.0	12 51 38.8	22.0	Sano / Tanakadate	Tanakadate / Sano
Mean	0.31120									

$H = 0.31120$
Reduction to 1895.0 = −4082
„ „ sea level = 000
$H = 0.31079$

Oita Syuttyō (大分出張)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 18th — —	2	47° 20′.7	Tanakadate	Sano

285. MATUYAMA.

Dōgomura, Motida (道後村字持田)

DECLINATION(δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 19th 17h 58m	4° 27′ 56″	Tanakadate	Sano
,, ,, 19 26	,, 27 59	,,	,,
,, ,, 20 57	,, 27 49	,,	,,
,, ,, 22 18	,, 28 6	Sano	,,
,, ,, 22 57	,, 27 22	,,	,,
,, 20th 1 16	,, 27 22	,,	,,
,, ,, 1 50	,, 27 26	,,	,,
,, ,, 4 36	,, 26 26	,,	,,
,, ,, 5 5	,, 26 3	,,	,,
,, ,, 6 8	,, 25 34	,,	,,
,, ,, 6 41	,, 24 50	,,	,,
,, ,, 7 34	,, 23 15	Tanakadate	,,
,, ,, 7 48	,, 22 59	,,	,,
,, ,, 8 56	,, 22 57	,,	,,
,, ,, 10 17	,, 26 24	,,	Tanakadate
,, ,, 10 37	,, 26 29	,,	,,
,, ,, 11 51	,, 29 58	,,	,,
,, ,, 12 21	,, 31 29	,,	Sano
,, ,, 13 15	,, 32 4	,,	,,
,, ,, 14 47	,, 31 41	,,	,,
,, ,, 16 1	,, 29 21	,,	,,
,, ,, 17 45	,, 28 27	,,	Tanakadate
,, ,, 19 10	,, 28 47	,,	,,
Mean	4° 27′ 43″		

δ = 4° 27′72

Reduction to 1895.0 = 0.22

,, ,, sea level = 0.00

δ = 4° 27′9

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 20th 10h 36m	2	47° 48′2	Tanakadate	Tanakadate
,, ,, 14 48	2	,, 44.9	Sano	,,
,, ,, 18 4	2	,, 47.1	Tanakadate	Sano
Mean		47° 46′7		

θ = 47° 46′7

Reduction to 1895.0 = 3.78

,, ,, sea level = 0.00

θ = 47° 50′5

HORIZONTAL INTENSITY (*H*)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time for 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 19th 20h 34m	0.31033	406.97	19°7C	s 5.9301	20°0C	5′41′23″1	12°52′50″0	19°4C	Sano / Tanakadate	Tanakadate / Sano
,, 20th 8 36	0.31051	405.99	24.1	5.9345	23.8	5 40 3.8	12 49 43.8	24.4	Sano / Tanakadate	Tanakadate / Sano
,, ,, 12 54	0.31010	403.66	31.9	5.9571	32.2	5 38 18.8	12 45 23.1	31.7	Sano / Tanakadate	Tanakadate / Sano
Mean	0.31031									

H = 0.31031

Reduction to 1895.0 = −3578

,, ,, sea level = 000

H = 0.30995

Matuyama Syuttyō (松山出張)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 21st 10h 4m	*0.31011	407.07	20°2C	5.9307 s	20°2C	—	—	—	Tanakadate	Tanakadate

286. KUZU.

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 21st 23h 15m	4° 22′ 59″	Tanakadate	Tanakadate
,, 22nd 1 29	,, 21 28	,,	,,
,, ,, 2 21	,, 21 16	,,	,,
,, ,, 6 1	,, 21 1	,,	,,
,, ,, 7 30	,, 19 38	Sano	Sano
,, ,, 8 40	,, 20 39	,,	,,
,, ,, 10 4	,, 24 37	,,	,,
,, ,, 11 49	,, 27 40	,,	,,
,, ,, 12 42	,, 27 38	,,	,,
,, ,, 14 47	,, 24 21	,,	,,
,, ,, 15 55	,, 23 16	,,	,,
,, ,, 17 45	,, 23 36	,,	,,
,, ,, 19 20	,, 23 2	,,	,,
,, ,, 21 18	,, 22 34	,,	,,
,, ,, 23 58	,, 21 53	,,	,,
,, 23rd 0 22	,, 21 47	,,	,,
,, ,, 3 0	,, 20 26	,,	,,
,, ,, 5 16	,, 20 8	,,	,,
,, ,, 6 26	,, 20 25	,,	,,
,, ,, 7 8	,, 20 22	,,	,,
,, ,, 7 48	,, 19 22	Tanakadate	,,
,, ,, 9 1	,, 22 36	,,	Tanakadate
,, ,, 13 35	,, 24 21	,,	Sano
Mean	4° 22′ 43″		

$\delta = 4°\ 22'.72$

Reduction to 1865.0 = −0.05

,, ,, sea level = −0.02

$\delta = 4°\ 22'.7$

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 23rd 10h 23m	2	47° 29′.0	Tanakadate	Tanakadate
,, ,, 11 40	2	,, 27′.6	,,	,,
Mean		47° 28′.3		

$\theta = 47°\ 28'.3$

Reduction to 1895.0 = 3.28

,, ,, sea level = −0.06

$\theta = 47°\ 31'.5$

HORIZONTAL INTENSITY (H)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 23rd 8h 32m	0.31059	406.29	21°4C	5.9311 s	21°0C	5°40′ 6″.2	12°49′32″.5	21°8C	Sano	Tanakadate
									Tanakadate	Sano
,, ,, 13 16	0.31136	405.27	24.2	5.9320	24.4	5 38 44.4	12 46 50.0	24.0	Sano	Tanakadate
									Tanakadate	Sano
Mean	0.31098									

$H = 0.31098$

Reduction to 1895.0 = −3508

,, ,, sea level = 409

$H = 0.31067$

287. KUMA.

Race Course (久萬町村舊馬場)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 24th 8h 42m	4° 25′ 48″	Tanakadate	Sano
,, ,, 9 43	,, 28 21	,,	,,
,, ,, 10 42	,, 30 26	,,	,,
,, ,, 11 41	,, 30 31	,,	,,
,, ,, 13 28	,, 30 16	,,	,,
,, ,, 14 59	,, 28 42	,,	,,
,, ,, 16 12	,, 27 39	,,	,,
,, ,, 16 31	,, 27 32	,,	,,
,, ,, 17 11	,, 27 34	,,	,,
Mean	4° 26′ 52″		

$\delta = 4°\ 26'.87$

Reduction to 1895.0 = −0.10

,, ,, sea level = −0.03

$\delta = 4°\ 26'.7$

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 24th 10h 46m	2	47° 35′.8	Tanakadate	Sano
,, ,, 15 17	2	,, 29.2	Sano	Tanakadate
Mean		47° 32′.5		

$\theta = 47°\ 32'.5$

Reduction to 1895.0 = 3.63

,, ,, sea level = −0.10

$\theta = 47°\ 36'.0$

HORIZONTAL INTENSITY (H)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 24th 9h 21m	0.31041	406.05	22°.2C	5.9352 s	22°.0C	5°40′ 8″.1	12°49′36″.9	22°.3C	Sano / Tanakadate	Tanakadate / Sano
,, ,, 13 0	0.31032	405.18	23.9	5.9421	25.6	5 39 36.2	12 48 39.4	22.3	Sano / Tanakadate	Tanakadate / Sano
Mean	0.31037									

$H = 0.31037$

Reduction to 1895.0 = −3583

,, ,, sea level = 663

$H = 0.31008$

288. IMABARU.

Hukiage Zinsya, Old Castle (今治舊城內吹揚神社)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 25th 16h 29m	4° 33′ 12″	Tanakadate	Sano
,, ,, 18 20	,, 34 13	,,	,,
,, ,, 19 57	,, 34 27	,,	,,
,, ,, 21 25	,, 33 54	,,	,,
,, ,, 23 42	,, 33 1	,,	Tanakadate
,, 26th 3 37	,, 32 7	,,	,,
,, ,, 6 18	,, 32 36	,,	,,
,, ,, 7 6	,, 33 13	,,	Sano
,, ,, 8 14	,, 32 40	,,	,,
,, ,, 9 40	,, 32 37	Sano	,,
,, ,, 11 0	,, 32 52	,,	,,
,, ,, 12 22	,, 34 1	,,	Tanakadate
	To be continued		

Continued

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 26th 13h 21m	4° 34′ 48″	Tanakadate	Sano Tanakadate
,, ,, 14 1	,, 34 59	,,	
,, ,, 15 7	,, 34 57	,,	,,
,, ,, 16 14	,, 33 51	,,	,,
,, ,, 16 33	,, 33 43	,,	,,
,, ,, 18 10	,, 32 54	,,	,,
,, ,, 18 53	,, 33 0	,,	,,
,, ,, 22 0	,, 33 24	,,	,,
,, 27th 2 5	,, 36 52	,,	,,
,, ,, 3 16	,, 36 6	,,	,,
,, ,, 5 8	,, 34 2	,,	,,
,, ,, 7 18	,, 32 37	,,	,,
Mean	4° 33′ 13″		

δ = 4° 33′22
Reduction to 1895.0 = −0.40
,, ,, sea level = 0.00
δ = 4° 32′8

DIP (θ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 26th 10h 24m	2	47° 59′2	Sano Tanakadate	Sano Tanakadate
,, ,, 15 10	2	48 0.8	,,	,,
,, ,, 20 23	2	,, 1.5		
Mean		48° 0′5		

θ = 48° 0′5
Reduction to 1895.0 = 3.82
,, ,, sea level = 0.00
θ = 48° 4′3

HORIZONTAL INTENSITY (H)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 25th 20h 57m	0.30977	406.28	21°3 C	5.9405 s	21°3C	5°41′21″2	12°52′42″5	21°3C	Sano / Tanakadate	Tanakadate / Sano
,, 26th 7 46	0.30955	406.66	19.2	5.9389	19.1	5 41 48.8	12 53 40.0	19.3	Sano / Tanakadata	Tanakadate / Sano
,, ,, 13 5	0.30948	406.55	19.6	5.9412	19.9	5 41 46.2	12 53 23.1	19.3	Sano / Tanakadate	Tanakadate / Sano
Mean	0.30960									

H = 0.30960
Reduction to 1895.0 = −3559
,, ,, sea level = 000
H = 0.30924

289. KAWANOE.

Sea Side Embankment (海濱ノ堤防)

DECLINATION (δ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 28th 12h 56m	4° 33′ 9″	Tanakadate	Sano
,, ,, 14 2	,, 33 19	,,	,,
,, ,, 15 1	,, 33 3	,,	,,
,, ,, 16 21	,, 31 37	,,	,,
,, ,, 17 48	,, 30 49	,,	,,
,, ,, 18 44	,, 31 1	,,	,,
,, ,, 20 3	,, 31 1	,,	,,
,, 29th 0 15	,, 30 32	Sano	,,
,, ,, 3 28	,, 30 12	,,	,,
	To be continued		

Continued

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 29th 5h 40m	4° 30′ 19″	Sano	Sano
,, ,, 5 57	,, 30 20	,,	,,
,, ,, 7 0	,, 29 34	,,	,,
,, ,, 7 47	,, 28 22	Tanakadate	,,
,, ,, 9 9	,, 27 24	,,	Tanakadate
,, ,, 9 40	,, 27 49	,,	,,
,, ,, 11 36	,, 31 57	,,	,,
,, ,, 12 27	,, 32 59	Sano	Sano
,, ,, 13 9	,, 34 2	,,	,,
Mean	4° 30′ 52″		

	δ=4° 30′87
Reduction to 1895.0=	−0.59
,, ,, sea level=	0.00
	δ=4° 30′3

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 28th 16h 14m	2	47° 51′8	Tanakadate	Sano
,, 29th 2 4	2	,, 52.6	Sano	,,
,, ,, 10 43	2	,, 52.9	Tanakadate	Tanakadate
Mean		47° 52′4		

	θ=47° 52′4
Reduction to 1895.0=	3.14
,, ,, sea level=	0.00
	θ=47° 55′5

HORIZONTAL INTENSITY (*H*)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Sept. 28th 13h 38m	0.30919	405.86	21°1C	5.9495	21°7C	5°41′50″0	12°54′ 1″2	20°6C	Sano / Tanakadate	Tanakadate / Sano
,, ,, 19 37	0.30910	407.18	16.8	5.9400	17.3	5 43 0.6	12 56 34.4	16.4	Sano / Tanakadate	Tanakadate / Sano
,, 29th 8 20	*0.30957	405.58	22.1	5.9468	22.1	—	—	—	Sano	Tanakadate
,, ,, 8 42	0.30942	405.49	23.7	5.9475	22.9	5 40 39.4	12 50 58.1	24.6	,, / Tanakadate	,, / Sano
Mean	0.30932									

	H= 0.30932
Reduction to 1895.0=	−3316
,, ,, sea level=	000
	H= 0.30899

Kawanoe Syuttyō (川ノ江出張)

Observations of the Seto Sea Party, 1896.

Syōhatiman (正八幡)

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Sept. 29th — —	*0.30979	404.80	24°5C	5.9508	24°5C	—	—	—	Tanakadate	Tanakadate

290. MARUGAME.

Middle School (丸龜常尋中學校)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Sept. 29th 23h 31m	4° 31′ 30″	Tanakadate	Tanakadate
,, 30th 0 5	,, 31 21	,,	,,
,, ,, 2 14	,, 30 10	,,	,,
,, ,, 6 8	,, 30 50	,,	,,
,, ,, 7 10	,, 30 15	,,	Sano
,, ,, 7 52	,, 30 3	,,	,,
,, ,, 9 0	,, 29 8	,,	,,
,, ,, 10 50	,, 32 7	Sano	,,
,, ,, 12 16	,, 34 32	,,	Tanakadate
,, ,, 13 22	,, 35 17	Tanakadate	,,
,, ,, 14 0	,, 34 56	,,	,,
,, ,, 15 41	,, 33 42	,,	,,
,, ,, 17 5	,, 32 18	,,	,,
,, ,, 18 32	,, 32 18	,,	Tanakadate Sano
,, ,, 19 58	,, 32 14	,,	,,
,, ,, 22 32	,, 32 0	,,	Tanakadate
Mean	4° 31′ 49″		

	δ = 4°	31′82
Reduction to	1895.0 =	−0.80
,, ,,	sea level =	0.00
	δ = 4°	31′0

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Sept. 30th 10h 38m	2	48° 5′2	Sano	Sano
,, ,, 15 37	2	,, 8.0	Tanakadate	Tanakadate
,, ,, 21 33	2	,, 7.8	,,	,,
Mean		48° 7′0		

	θ = 48°	7′0
Reduction to	1895.0 =	3.15
,, ,,	sea level =	0.00
	θ = 48°	10′2

HORIZONTAL INTENSITY (*H*)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Sept. 30th 8h 37m	0.30895	404.80	23°4C	5.9577 s	22°9C	5°40′49″4	12°51′33″8	24°0C	Sano Tanakadate	Tanakadate Sano
,, ,, 12 57	0.30888	404.10	25.4	5.9653	25.6	5 40 16.2	12 50 1.9	25.2	Sano Tanakadate	Tanakadate Sano
,, ,, 19 28	0.30898	406.01	19.4	5.9497	19.6	5 41 58.8	12 54 6.2	19.1	Sano Tanakadate	Tanakadate Sano
Mean	0.30894									

	H =	0.30894
Reduction to	1895.0 =	−3232
,, ,,	sea level =	000
	H =	0.30862

291. TAKAMATU.

Old Castle (舊 城 內)

DECLINATION (δ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 1st 12h 34m	4° 40′ 57″	Tanakadate	Sano
,, ,, 14 4	,, 40 51	,,	,,
,, ,, 16 20	,, 40 19	,,	Tanakadate
,, ,, 17 26	,, 40 6	,,	,,
,, ,, 18 59	,, 39 35	,,	Sano
,, ,, 20 19	,, 38 16	Sano	,,
,, ,, 23 25	,, 38 19	,,	,,
,, 2nd 1 52	,, 37 1	,,	,,
,, ,, 5 18	,, 36 43	,,	,,
,, ,, 6 12	,, 37 52	,,	,,
,, ,, 6 33	,, 38 3	,,	,,
,, ,, 9 59	,, 37 52	,,	,,
,, ,, 7 40	,, 37 19	,,	,,
,, ,, 8 52	,, 37 19	Tanakadate	Tanakadate
,, ,, 9 32	,, 37 28	,,	,,
,, ,, 11 3	,, 38 21	,,	,,
,, ,, 12 15	,, 40 0	,,	Sano
,, ,, 12 57	,, 40 19	,,	,,
Mean	4° 38′ 23″		

$\delta = 4° 38'.38$

Reduction to 1895.0 = −0.91

,, ,, sea level = 0.00

$\delta = 4° 37'.5$

DIP (θ)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Oct. 1st 16h 0m	2	48° 9′.6	Tanakadate	Sano, Tanakadate
,, ,, 22 26	2	,, 11.0	Sano	Sano
,, 2nd 10 51	2	,, 14.1	,,	,,
Mean		48° 11′.6		

$\theta = 48° 11'.6$

Reduction to 1895.0 = 2.97

,, ,, sea level = 0.00

$\theta = 48° 14'.6$

HORIZONTAL INTENSITY (H)

Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Oct. 1st 13h 39m	0.30835	403.07	27°.3C	s 5.9781	27°.4C	5°40′21″.9	12°50′55″.0	27°.2C	Sano, Tanakadate	Tanakadate, Sano
,, ,, 19 43	0.30813	405.18	21.4	5.9643	21.6	5 42 16.2	12 54 53.8	21.2	Sano, Tanakadate	Tanakadate, Sano
,, 2nd 8 24	0.30794	404.94	23.2	5.9676	23.2	5 42 5.0	12 54 18.8	23.2	Sano, Tanakadate	Tanakadate, Sano
Mean	0.30814									

$H = 0.30814$

Reduction to 1895.0 = −3115

,, ,, sea level = 000

$H = 0.30783$

292. TONOSYŌ.

DECLINATION (δ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Oct. 3rd 9h 41m	4° 37′ 56″	Tanakadate	Sano
,, ,, 11 35	,, 39 18	,,	,,
,, ,, 12 37	,, 40 46	,,	,,
,, ,, 14 2	,, 41 40	,,	,,
,, ,, 15 7	,, 41 25	,,	,,
,, ,, 16 24	,, 40 36	Sano	,,
,, ,, 18 3	,, 39 50	Tanakadate	,,
,, ,, 19 30	,, 39 37	,,	,,
,, ,, 20 28	,, 39 36	,,	Tanakadate
,, ,, 23 13	,, 38 53	,,	,,
,, 4th 0 41	,, 39 31	,,	,,
,, ,, 3 48	,, 40 0	,,	,,
,, ,, 6 49	,, 39 56	,,	Sano
,, ,, 7 47	,, 37 56	,,	,,
,, ,, 9 4	,, 38 1	,,	,,
,, ,, 9 54	,, 38 46	,,	,,
,, ,, 12 43	,, 43 33	,,	,,
,, ,, 15 0	,, 41 32	,,	,,
,, ,, 16 15	,, 40 3	,,	,,
Mean	4° 39′ 41″		

	$\delta = 4°\ 39'.68$
Reduction to 1895.0 =	−1.09
,, ,, sea level =	0.00
	$\delta = 4°\ 38'.6$

DIP (θ)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Oct. 3rd 11h 25m	2	48° 20′.9	Tanakadate	Sano
,, ,, 15 27	2	,, 23.2	Sano	Tanakadate
,, ,, 22 1	2	,, 18.9	Tanakadate	,,
Mean		48° 21′.0		

	$\theta = 48°\ 21'.0$
Reduction to 1895.0 =	2.98
,, ,, sea level =	0.00
	$\theta = 48°\ 24'.0$

HORIZONTAL INTENSITY (H)
Observations of the Seto Sea Party, 1896.

Date and Hour (Mean Local Time)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Oct. 3rd 13h 32m	0.30667	405.09	22°.4C	5.9789 s	22°.6C	5°43′36″.9	12°57′45″.6	22°.3C	Sano / Tanakadate	Tanakadate / Sano
,, ,, 19 55	0.30678	404.87	22.1	5.9795	22.1	5 43 30.0	12 57 48.8	22.1	Sano / Tanakadate	Tanakadate / Sano
,, 4th 8 41	0.30677	405.57	21.4	5.9743	21.4	5 44 0.6	12 58 46.2	21.4	Sano / Tanakadate	Tanakadate / Sano
Mean	0.30674									

	$H =$ 0.30674
Reduction to 1895.0 =	−3059
,, ,, sea level =	000
	$H =$ 0.30643

Tonosyō Syuttyō (土ノ庄出張)

Observations of the Seto Sea Party, 1896.

Saikōzi (四光寺)

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Oct. 4th 15h 37m	*0.30667	405.43	21°.2C	5.9761 s	21°.2C	—	—	—	Sano	Tanakadate
,, ,, 15 59	*0.30676	405.55	20.9	5.9745	20.9	—	—	—	Tanakadate	Sano
Mean	0.30672									

293. ZAIKŌZI.

Zaikōzihara (富高村大字財光寺字小狭間財光寺原)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 7th 9h 12m	3° 56′ 34″	Imamura	Hattori
,, ,, 9 58	,, 57 47	,,	Imamura
,, ,, 11 19	,, 59 4	Sinzyō	Hattori
,, ,, 11 51	,, 59 38	,,	,,
,, ,, 13 9	4 2 19	,,	,,
,, ,, 13 51	,, 3 34	Imamura	Sinzyō
,, ,, 14 31	,, 3 14	Sinzyō	Hattori
,, ,, 15 23	,, 2 46	Imamura	Sinzyō
,, ,, 16 33	,, 1 23	Hattori	Imamura
,, ,, 17 21	,, 0 25	Imamura	,,
,, ,, 18 22	,, 0 22	,,	,,
,, ,, 19 39	,, 0 39	,,	,,
,, ,, 20 53	,, 0 26	,,	,,
,, ,, 22 25	,, 0 31	Sinzyō	Sinzyō
,, 8th 1 8	,, 0 19	,,	,,
,, ,, 3 58	3 59 42	,,	,,
,, ,, 5 23	,, 58 37	,,	,,
,, ,, 6 2	,, 58 3	,,	Imamura
,, ,, 7 4	,, 57 34	Imamura	,,
,, ,, 8 11	,, 57 34	,,	,,
Mean	4° 0′ 5″		

	δ = 4° 0′.08
Reduction to	1895.0 = 1.11
,, ,,	sea level = 0.00
	δ = 4° 1′.2

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 7th 13h 34m	1	46° 13′.0	Imamura	Sinzyō
,, ,, 15 57	1	,, 10.4	Hattori	Imamura
,, ,, 22 3	1	,, 10.3	Sinzyō	Sinzyō
Mean		46° 11′.2		

	θ = 46° 11′.2
Reduction to	1895.0 = 3.03
,, ,,	sea level = 0.00
	θ = 46° 14′.2

HORIZONTAL INTENSITY (H)
Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 7th 12h 39m	0.31579	421.09	37°2C	5.7625 s	37°1C	5°43′47″5	13° 2′32″5	37°4C	Sinzyō / Imamura	Imamura / Sinzyō
„ „ 14 59	0.31639	421.37	35.8	5.7568	36.3	5 43 54.4	13 3 16.9	35.4	„ / Sinzyō	„ / Imamura
„ 8th 18 38	0.31645	424.15	25.5	5.7349	25.3	5 46 20.0	13 9 18.8	25.8	Imamura / Sinzyō	Sinzyō / Imamura
Mean	0.31621									

H = 0.31621
Reduction to 1895.0 = −3530
„ „ sea level = 000
H = 0.31586

Zaikōzi Syuttyō (財光寺出張)

Observations of the South West Party, 1896.
Station, 1887 in Hitiya (日知屋舊觀測點)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 7th 14h 18m	1	46° 14′4	Sinzyō	Sinzyō

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 7th 18h 4m	*0.31576	422.65	31°2C	5.7528 s	31°2C	—	—	—	Hattori	Sinzyō
„ „ 18 16	*0.31582	422.65	31.3	5.7523	31.3	—	—	—	„	„
Mean	0.31579									

294. MIYAZAKI.

Play Ground of Normal School (宮崎尋常師範學校運動場)

DECLINATION (δ)
Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 9th 7h 34m	3° 55′ 26″	Imamura	Sinzyō
„ „ 7 47	„ 55 36	Sinzyō	„
„ „ 9 18	„ 57 43	Imamura	„
„ „ 10 3	„ 58 34	Sinzyō	Hattori
„ „ 11 12	4 0 12	Hattori	Sinzyō
„ „ 12 12	„ 0 49	Imamura	Hattori
„ „ 13 1	„ 0 16	Sinzyō	„
„ „ 14 6	3 59 41	„	„
„ „ 15 24	„ 58 41	Hattori	Sinzyō
„ „ 16 42	„ 58 8	Imamura	„
„ „ 17 54	„ 57 26	„	Imamura
„ „ 19 13	„ 56 17	Hattori	Hattori
„ „ 20 9	„ 55 48	„	„
„ „ 20 44	„ 56 48	„	„
„ „ 21 45	„ 57 48	„	„
„ „ 23 1	„ 57 23	„	„
„ „ 23 38	„ 57 39	„	„
„ 10th 1 38	„ 57 26	„	„
„ „ 3 21	„ 56 49	„	„
„ „ 4 56	„ 56 29	„	„
„ „ 6 14	„ 54 38	„	„
Mean	3° 57′ 36″		

δ = 3° 57′60
Reduction to 1895.0 = 1.37
„ „ sea level = 0.00
δ = 3° 59′0

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 9th 9h 48m	1	45° 36′8	Sinzyō	Imamura
,, ,, 14 46	1	,, 36.3	Hattori	Sinzyō
,, ,, 18 5	1	,, 38.5	Imamura	,,
Mean		45° 37′2		

$\theta = 45°\ 37'2$

Reduction to 1895.0 = 2.74

,, ,, sea level = 0.00

$\theta = 45°\ 39'9$

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 9th 8h 59m	0.31797	424.35	26°5C	s 5.7177	25°6C	5°44′19″4	13° 4′16″9	27°4C	Sinzyō Imamura	Imamura Sinzyō
,, ,, 13 42	0.31814	423.26	28.0	5.7264	28.0	5 43 41.3	13 3 0.6	28.0	,, Sinzyō	,, Imamura
,, ,, 18 1	0.31707	424.17	24.4	5.7306	24.6	5 45 28.8	13 6 41.3	24.1	Hattori Sinzyō	Sinzyō Hattori
Mean	0.31773									

$H = 0.31773$

Reduction to 1895.0 = −3572

,, ,, sea level = 000

$H = 0.31737$

295. MIYAKONOZYŌ.

Prefecture (郡 役 所)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 10th 20h 3m	3° 39′ 36″	Imamura	Imamura
,, ,, 20 23	,, 39 20	,,	,,
,, ,, 22 24	,, 39 8	,,	,,
,, 11th 0 5	,, 40 6	,,	,,
,, ,, 4 24	,, 38 24	,,	,,
,, ,, 5 56	,, 37 26	,,	,,
,, ,, 7 5	,, 35 36	Sinzyō	Hattori
,, ,, 8 28	,, 34 38	Hattori	Sinzyō
,, ,, 9 35	,, 37 40	Sinzyō	Hattori
,, ,, 10 53	,, 40 26	Hattori	Imamura
,, ,, 11 47	,, 41 15	Imamura	Hattori
,, ,, 12 21	,, 42 29	Sinzyō	,,
,, ,, 13 56	,, 41 33	,,	,,
,, ,, 15 2	,, 40 16	,,	Sinzyō
,, ,, 16 1	,, 40 32	Hattori	,,
,, ,, 17 14	,, 38 25	Sinzyō	,,
,, ,, 17 59	,, 38 16	,,	Hattori
,, ,, 19 27	,, 38 28	,,	,,
Mean	3° 39′ 6″		

$\delta = 3°\ 39'10$

Reduction to 1895.0 = 1.74

,, ,, sea level = −0.01

$\delta = 3°\ 40'8$

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 11th 9h 11m	1	45° 20′8	Sinzyō	Hattori
„ „ 12 8	1	„ 19.8	Imamura	„
„ „ 16 50	1	„ 21.4	Hattori	Sinzyō
Mean		45° 20′7		

	θ = 45°	20′7
Reduction to	1895.0 =	3.05
„ „	sea level =	−0.03
	θ = 45°	23′7

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 11th 7h 44m	0.31863	425.01	23°6C	5.7163	23°6C	5°44′ 8″8	13° 3′16″3	23°7C	Sinzyō	Hattori
„ „ 13 24	0.31918	422.92	33.1	5.7211	33.6	5 41 21.9	12 56 3.1	32.6	Hattori	Sinzyō
„ „ 18 56	0.31803	423.24	25.9	5.7285	26.3	5 43 27.5	13 1 40.0	25.5	Imamura	„
									Hattori	Sinzyō
									Sinzyō	Hattori
Mean	0.31861									

	H =	0.31861
Reduction to	1895.0 =	−3739
„ „	sea level =	168
	H =	0.31825

296. NAKAMATI.

Play Ground of Common School (福嶋中町尋常小學校運動場)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 12th 22h 46m	3° 38′ 40″	Imamura	Sinzyō
„ „ 23 24	„ 38 14	„	Imamura
„ 13th 1 9	„ 37 53	„	„
„ „ 4 55	„ 36 47	„	„
„ „ 6 26	„ 34 27	„	„
„ „ 7 25	„ 34 51	Sinzyō	Hattori
„ „ 8 31	„ 35 9	Hattori	Sinzyō
„ „ 9 2	„ 36 15	Sinzyō	Hattori
„ „ 9 19	„ 36 27	„	„
„ „ 10 21	„ 37 41	„	„
„ „ 11 59	„ 39 51	„	„
„ „ 12 50	„ 41 44	„	Imamura
„ „ 14 11	„ 42 16	Imamura	Sinzyō
„ „ 15 40	„ 41 0	Hattori	„
„ „ 16 18	„ 40 22	Sinzyō	Hattori
„ „ 17 31	„ 38 23	Imamura	Sinzyō
„ „ 18 26	„ 38 12	Sinzyō	„
Mean	3° 38′ 10″		

	δ = 3°	38′17
Reduction to	1895.0 =	1.81
„ „	sea level =	0.00
	δ = 3°	40′0

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 13th 9h 59m	1	45° 4′7	Sinzyō	Hattori
,, ,, 15 9	1	44 59.9	Hattori	Sinzyō
,, ,, 17 47	1	45 5.2	Imamura	,,
Mean		45° 3′3		

	θ = 45°	3′3
Reduction to	1895.0 =	2.60
,, ,,	sea level =	0.00
	θ = 45°	5′9

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 13th 8h 21m	0.31892	423.57	27°4C	s 5.7154	26°8C	5°42′43″8	13° 0′32″5	28°1C	Sinzyō Hattori	Hattori Sinzyō
,, ,, 14 53	0.31973	423.35	27.5	5.7115	27.5	5 42 1.3	12 59 5.6	27.5	Sinzyō Imamura	Imamura Sinzyō
,, ,, 16 59	0.31981	423.58	25.4	5.7091	25.4	5 42 26.3	13 0 30.0	25.4	,, Sinzyō	,, Imamura
Mean	0.31949									

	H =	0.31949
Reduction to	1895.0 =	−3672
,, ,,	sea level =	000
	H =	0.31912

297. KŌYAMA.

Common School (高山村小學校)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 14th 20h 17m	3° 38′ 49″	Imamura	Hattori
,, 20 41	,, 38 40	Hattori	,,
,, ,, 21 37	,, 38 54	Sinzyō	Sinzyō
,, ,, 23 10	,, 39 2	,,	,,
,, 15th 0 37	,, 38 50	,,	,,
,, ,, 1 45	,, 38 29	,,	,,
,, ,, 3 13	,, 38 17	,,	,,
,, ,, 4 57	,, 37 29	,,	,,
,, ,, 6 29	,, 38 25	,,	Hattori
,, ,, 6 50	,, 38 2	,,	Sinzyō
,, ,, 9 20	,, 38 40	Hattori	Hattori
,, ,, 10 31	,, 40 0	,,	,,
,, ,, 14 36	,, 45 25	Sinzyō	,,
,, ,, 15 19	,, 44 39	,,	,,
,, ,, 16 25	,, 42 58	,,	,,
,, ,, 17 13	,, 42 13	,,	Sinzyō
,, ,, 18 17	,, 41 14	,,	,,
Mean	3° 40′ 31″		

	δ = 3°	40′52
Reduction to	1895.0 =	2.03
,, ,,	sea level =	−0.01
	δ = 3°	42′5

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 15th 8h 36m	1	44° 52′5	Imamura	Imamura
,, ,, 14 58	1	,, 49.4	Hattori	Sinzyō
,, ,, 16 51	1	,, 49.7	Sinzyō	,,
Mean		44° 50′5		

$\theta = 44°\ 50'50$

Reduction to 1895.0 = 2.77

,, ,, sea level = −0.03

$\theta = 44°\ 53'2$

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 15th 7h 57m	0.32059	423.22	26°9C	5.7039 s	26°7C	5°40′52″5	12°56′23″8	27°2C	Sinzyō	Hattori
									Hattori	Sinzyō
,, ,, 16 10	0.32120	420.94	33.6	5.7167	34.2	5 39 5.0	12 53 5.0	33.1	,,	,,
									Sinzyō	Hattori
,, ,, 17 47	0.32040	422.81	29.7	5.7106	30.2	5 40 42.5	12 55 36.3	29.3	,,	,,
									Hattori	Sinzyō
Mean	0.32073									

$H = 0.32073$

Reduction to 1895.0 = −3796

,, ,, sea level = 120

$H = 0.32036$

298. KAGOSIMA.

Play Ground of High Common School (尋常中學校高等小學校運動場)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 16th 18h 24m	3° 35′ 12″	Imamura	Sinzyō
,, ,, 18 42	,, 34 22	Sinzyō	,,
,, ,, 20 9	,, 34 50	,,	,,
,, ,, 20 30	,, 34 57	,,	,,
,, ,, 22 9	,, 35 32	,,	,,
,, ,, 23 24	,, 35 17	,,	,,
,, 17th 0 24	,, 35 26	,,	,,
,, ,, 3 49	,, 34 12	,,	,,
,, ,, 4 30	,, 34 8	,,	,,
,, ,, 5 27	,, 34 52	,,	,,
,, ,, 7 20	,, 32 12	Hattori	Hattori
,, ,, 7 48	,, 32 32	Imamura	,,
,, ,, 9 41	,, 33 16	,,	,,
,, ,, 11 5	,, 34 33	Hattori	,,
,, ,, 11 41	,, 35 22	Sinzyō	,,
,, ,, 13 19	,, 36 22	Hattori	Sinzyō
,, ,, 14 33	,, 37 18	Sinzyō	,,
,, ,, 15 7	,, 37 6	,,	Imamura
,, ,, 15 46	,, 36 41	,,	Sinzyō
,, ,, 16 41	,, 35 32	Imamura	,,
,, ,, 17 29	,, 35 28	,,	,,
Mean	3° 34′ 47″		

$\delta = 3°\ 34'78$

Reduction to 1895.0 = 2.11

,, ,, sea level = 0.00

$\delta = 3°\ 36'9$

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 17th 6h 17m	1	45° 27′4	Sinzyō	Sinzyō
,, ,, 12 18	1	,, 23.1	Hattori	Imamura
,, ,, 15 33	1	,, 24.0	Imamura	Sinzyō
Mean		45° 24′8		

$\theta = 45°\ 24'8$

Reduction to 1895.0 = 3.39

,, ,, sea level = 0.00

$\theta = 45°\ 28'2$

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections. φ_1	Mean Deflections. φ_2	Temp. t_D	Observer	Recorder
July 17th 9h 21m	0.31859	420.69	32°9C	5.7371 s	31°9C	5°40′33″1	12°55′38″1	34°0C	Hattori / Imamura	Imamura / Hattori
,, ,, 14 11	0.31914	422.01	33.0	5.7261	33.0	5 41 30.6	12 57 58.8	33.0	Sinzyō / Hattori	,, / Sinzyō
,, ,, 16 14	0.31887	422.34	30.2	5.7265	30.4	5 42 6.9	12 59 19.4	30.1	Imamura / Sinzyō	,, / Imamura
Mean	0.31887			°						

$H = 0.31887$

Reduction to 1895.0 = −3963

,, ,, sea level = 000

$H = 0.31847$

299. ITIKI.

Sea Shore in murayakuba (村役塲裏海濱)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 18th 15h 21m	3° 57′ 9″	Imamura	Imamura
,, ,, 15 55	,, 56 48	,,	Sinzyō
,, ,, 16 59	,, 57 2	Sinzyō	,,
,, ,, 17 55	,, 56 5	Imamura	Hattori
,, ,, 18 50	,, 56 17	Sinzyō	Imamura
,, ,, 19 36	,, 55 58	Hattori	Hattori
,, ,, 21 23	,, 55 52	Sinzyō	,,
,, ,, 21 45	,, 55 53	,,	Sinzyō
,, ,, 23 49	,, 55 13	,,	,,
,, 19th 1 27	,, 55 4	,,	,,
,, ,, 3 5	,, 54 28	Hattori	Hattori
,, ,, 5 9	,, 55 5	Sinzyō	Sinzyō
,, ,, 5 35	,, 54 59	,,	,,
,, ,, 6 48	,, 53 48	Hattori	Hattori
,, ,, 8 12	,, 54 22	Imamura	Imamura
,, ,, 9 21	,, 54 8	,,	,,
,, ,, 10 18	,, 53 22	,,	,,
,, ,, 11 20	,, 53 48	Hattori	Hattori
,, ,, 12 21	,, 55 45	Sinzyō	,,
,, ,, 12 53	,, 56 38	Imamura	Sinzyō
Mean	3° 55′ 20″		

$\delta = 3°\ 55'33$

Reduction to 1895.0 = 2.14

,, ,, sea level = 0.00

$\delta = 3°\ 57'5$

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 18th 17h 39m	1	45° 4′6	Sinzyō	Imamura
„ 19th 7 54	1	„ 3.9	Hattori	„
„ „ 12 2	1	„ 7.2	Imamura	Sinzyō
Mean		45° 5′2		

	θ = 45°	5′2
Reduction to	1895.0 =	3.88
„ „	sea level =	0.00
	θ = 45°	9′1

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 18th 18h 23m	0.32366	421.84	32°1C	5.6889 s	32°8C	5°36′45″0	12°46′50″0	31°4 C	Imamura	Sinzyō
„ 19th 6 8	0.32355	424.14	25.5	5.6716	25.3	5 38 33.8	12 51 6.3	25.7	Sinzyō / Hattori	Hattori / Sinzyō
„ „ 14 22	0.32360	421.68	32.7	5.6889	32.9	5 36 26.2	12 46 5.0	32.6	„ / Imamura	Imamura / Hattori
Mean	0.32360									

	H =	0.32360
Reduction to	1895.0 =	−4071
„ „	sea level =	000
	H =	0.32319

300. MAKURAZAKI.

Common School (枕崎小學校運動場)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 20th 18h 17m	3° 41′ 57″	Imamura	Hattori
„ „ 18 52	„ 41 45	Sinzyō	Sinzyō
„ „ 20 28	„ 43 54	Imamura	Imamura
„ „ 22 2	„ 43 38	Hattori	Hattori
„ „ 23 6	„ 43 32	„	Imamura
„ 21st 1 13	„ 42 32	„	Hattori
„ „ 3 10	„ 42 10	„	„
„ „ 5 25	„ 41 20	„	„
„ „ 7 7	„ 40 7	Sinzyō	Sinzyō
„ „ 8 18	„ 40 38	„	„
„ „ 9 12	„ 41 47	„	Hattori
„ „ 10 12	„ 42 48	„	„
„ „ 11 44	„ 43 54	„	Sinzyō
„ „ 12 25	„ 43 29	Hattori	„
„ „ 14 0	„ 42 57	„	„
Mean	3° 42′ 23″		

	δ = 3°	42′38
Reduction to	1895.0 =	2.53
„ „	sea level =	0.00
	δ = 3°	44′9

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 20th 22h 38m	1	45° 15′3	Imamura	Hattori
„ 21st 8 45	1	„ 7.2	Sinzyō	Sinzyō
„ „ 9 54	1	„ 7.8	Hattori	„
„ „ 11 10	2	„ 6.8	Sinzyō	Hattori
Mean		45° 9′3		

	θ = 45°	9′3
Reduction to	1895.0 =	3.41
„ „	sea level =	0.00
	θ = 45°	12′7

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 20th 21h 15m	0.31995	422.98	28°8C	5.7123 s	28°9C	5°41′27″5	12°57′45″0	28°8 C	Imamura	Hattori
„ 21st 6 48	0.32017	422.71	29.2	5.7117	29.1	5 40 57.5	12 56 40.0	29.3	Hattori / Imamura	Imamura / Hattori
„ „ 13 36	0.31994	421.37	33.3	5.7237	33.4	5 40 0.0	12 54 16.3	33.3	Hattori / Sinzyō	Sinzyō / Hattori
Mean	0.32002									

	H =	0.32002
Reduction to	1895.0 =	−4100
„ „	sea level =	000
	H =	0.31961

301. KASEDA.

Common School (加世田小學校運動場)

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time)	Needle No.	θ	Observer	Recorder
July 22th 9h 57m	1	45° 7′5	Sinzyō	Sinzyō

	θ = 45°	7′5
Reduction to	1895.0 =	3.43
„ „	sea level =	0.00
	θ = 45°	10′9

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 22nd 6h 19m	*0.32122	421.87	31°8C	5.7085 s	31°8 C	—	—	—	Sinzyō	Sinzyō
„ „ 9 26	*0.32095	421.85	32.0	5.7110	32.0	—	—	—	Hattori	Hattori
Mean	0.32108									

	H =	0.32108
Reduction to	1895.0 =	−4092
„ „	sea level =	000
	H =	0.32067

302. YOKOGAWA.

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 24th 18h 27m	3° 56′ 26″	Imamura	Sinzyō
,, ,, 18 35	,, 56 9	,,	,,
,, ,, 19 39	,, 55 46	Hattori	,,
,, ,, 21 28	,, 56 49	Imamura	,,
,, ,, 22 23	,, 56 4	,,	,,
,, 25th 0 30	,, 55 33	Sinzyō	,,
,, ,, 3 42	,, 54 52	Imamura	Imamura
,, ,, 5 49	,, 54 18	,,	,,
,, ,, 6 54	,, 53 3	Sinzyō	Sinzyō
,, ,, 7 50	,, 53 28	Imamura	Hattori
,, ,, 8 59	,, 53 52	Hattori	,,
,, ,, 9 53	,, 55 24	,,	,,
,, ,, 10 56	,, 57 26	Imamura	Sinzyō
,, ,, 11 47	,, 58 57	Sinzyō	Imamura
,, ,, 13 7	4 0 41	,,	Hattori
,, ,, 13 53	,, 0 26	,,	Sinzyō
,, ,, 14 28	3 59 28	,,	Hattori
Mean	3° 56′ 14″		

δ = 3° 56′.23
Reduction to 1895.0 = 1.86
,, ,, sea level = −0.01
δ = 3° 58′.1

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 24th 21h 0m	1	45° 6′.5	Sinzyō	Sinzyō
,, 25th 8 32	1	,, 6.2	Hattori	Hattori
,, ,, 11 12	1	,, 3.9	Imamura	Imamura
Mean		45° 5′.5		

θ = 45° 5′.5
Reduction to 1895.0 = 3.59
,, ,, sea level = −0.04
θ = 45° 9′.1

HORIZONTAL INTENSITY (*H*)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	*H*	*M*	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 24th 10h 6m	0.31749	423.87	25°.4C	5.7287 s	25°.6C	5°44′50″.0	13° 5′21″.3	25°.2C	Sinzyō / Imamura	Imamura / Sinzyō
,, 25th 7 35	0.31752	423.90	26.6	5.7233	25.1	5 44 5.0	13 3 26.2	28.1	,, / Sinzyō	,, / Imamura
,, ,, 12 38	0.31788	419.71	36.9	5.7512	36.2	5 40 30.0	12 55 26.2	37.7	Hattori / Imamura	,, / Hattori
Mean	0.31763									

H = 0.31763
Reduction to 1895.0 = −3988
,, ,, sea level = 218
H = 0.31725

303. HITOYOSI.

Nakagawara (人吉中河原兩橋上流)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 26th 18h 18m	4° 6′ 34″	Imamura	Sinzyō
,, ,, 18 43	,, 6 31	Sinzyō	Hattori
,, ,, 19 41	,, 7 35	Hattori	,,
,, ,, 21 38	,, 7 35	Sinzyō	,,
,, ,, 22 30	,, 8 18	,,	,,
,, ,, 23 31	,, 7 43	,,	Sinzyō
,, 27th 1 37	,, 7 36	,,	,,
,, ,, 5 3	,, 5 56	Hattori	,,
,, ,, 5 33	,, 6 31	Sinzyō	Hattori
,, ,, 6 38	,, 4 39	,,	,,
,, ,, 7 46	,, 4 49	Imamura	Imamura
,, ,, 8 47	,, 5 34	Hattori	Sinzyō
,, ,, 9 48	,, 7 10	Sinzyō	Hattori
,, ,, 10 34	,, 8 15	,,	,,
,, ,, 11 55	,, 9 50	,,	,,
,, ,, 12 17	,, 10 44	Hattori	Sinzyō
,, ,, 12 30	,, 11 14	Sinzyō	,,
,, ,, 13 45	,, 11 49	,,	Hattori
,, ,, 14 21	,, 11 50	,,	Sinzyō
Mean	4° 7′ 50″		

	δ = 4°	7′83
Reduction to	1895.0 =	1.62
,,	,, sea level =	−0.01
	δ = 4°	9′4

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder.
July 26th 22h 9m	1	45° 58′3	Sinzyō	Hattori
,, 27th 7 30	1	,, 56.3	Imamura	Imamura
,, ,, 11 7	1	,, 55.9	Hattori	Hattori
Mean		45° 56′8		

	θ = 45°	56′8
Reduction to	1895.0 =	3.77
,,	,, sea level =	−0.03
	θ = 46°	0′5

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 26th 19h 15m	0.31739	422.75	27°0C	s 5.7381	27°5C	5°44′17″5	13° 4′25″0	26°5C	Imamura / Sinzyō	Sinzyō / Imamura
,, 27th 6 13	0.31760	423.80	23.7	5.7260	23.2	5 44 41.3	13 5 26.3	24.2	,, / Hattori	Hattori / Sinzyō
,, ,, 13 29	0.31717	418.73	37.1	5.7657	36.7	5 40 35.0	12 55 35.0	37.4	,, / Sinzyō	,, / Hattori
Mean	0.31739									

	H =	0.31739
Reduction to	1895.0 =	−3988
,,	,, sea level =	146
	H =	0.31701

304. YUNOMAE.

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 27th 22h 1m	3° 59′ 25″	Imamura	Sinzyō
„ „ 22 59	„ 59 40	„	„
„ 28th 0 22	„ 58 59	Sinzyō	Imamura
„ „ 4 43	„ 57 28	Imamura	„
„ „ 6 48	„ 55 20	Sinzyō	Sinzyō
„ „ 7 47	„ 54 43	Imamura	Imamura
„ „ 8 49	„ 55 31	„	„
„ „ 9 59	„ 58 48	Sinzyō	Sinzyō
„ „ 10 47	4 0 30	Imamura	„
„ „ 11 42	„ 2 29	Sinzyō	Imamura
„ „ 12 37	„ 4 41	Imamura	„
„ „ 13 44	„ 4 44	„	„
Mean	3° 59′ 22″		

$\delta = 3°\ 59'.37$

Reduction to 1895.0 = 1.51

„ „ sea level = −0.04

$\delta = 4°\ 0'.8$

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 28th 0h 3m	1	45° 58′.3	Sinzyō	Sinzyō
„ „ 8 21	1	46 0.2	Imamura	Imamura
„ „ 10 25	1	45 53.6	Sinzyō	„
Mean		45° 57′.4		

$\theta = 45°\ 57'.4$

Reduction to 1895.0 = 3.61

„ „ sea level = −0.15

$\theta = 46°\ 0'.9$

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 27th 22h 45m	0.31697	423.45	24°.5C	s 5.7376	25°.2C	5°45′16″.3	13° 0′25″.0	23°.8C	Sinzyō / Imamura	Imamura / Sinzyō
„ 28th 7 34	0.31720	423.20	25.5	5.7349	25.4	5 44.31.2	13 4 40.0	25.6	„ / Sinzyō	„ / Imamura
„ „ 11 16	0.31744	420.19	34.1	5.7515	33.3	5 41 31.2	12 58 0.0	34.9	Imamura / Sinzyō	Sinzyō / Imamura
Mean	0.31720									

$H = 0.31720$

Reduction to 1895.0 = −3899

„ „ sea level = 805

$H = 0.31689$

305. YATUSIRO.

Common School (小 學 校)

DECLINATION (δ)
Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
July 29th 16h 56m	4° 0′ 45″	Imamura	Hattori
,, ,, 17 45	3 59 50	,,	,,
,, ,, 18 48	4 0 28	,,	Sinzyō
,, ,, 19 32	3 59 56	Sinzyō	,,
,, ,, 20 46	4 0 15	Hattori	Hattori
,, ,, 22 11	3 59 59	,,	,,
,, ,, 23 21	4 0 9	,,	,,
,, 30th 0 12	3 59 5	,,	,,
,, ,, 2 58	,, 58 26	,,	,,
,, ,, 5 35	,, 57 50	,,	,,
,, ,, 6 28	,, 57 24	,,	,,
,, ,, 7 10	,, 56 46	Sinzyō	Imamura
,, ,, 8 1	,, 56 5	,,	Sinzyō
,, ,, 8 55	,, 56 19	,,	,,
,, ,, 10 3	,, 57 56	,,	,,
,, ,, 10 59	,, 58 51	Imamura	,,
,, ,, 12 31	4 0 49	Sinzyō	Hattorl
,, ,, 13 11	,, 1 19	,,	Sinzyō
,, ,, 14 14	,, 1 46	,,	,,
,, ,, 15 10	,, 1 18	Imamura	Imamura
Mean	3° 59′ 22″		

	δ = 3°	59′37
Reduction to	1895.0 =	1.55
,, ,,	sea level =	0.00
	δ = 4°	0′9

DIP (θ)
Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
July 29th 21h 41m	1	46° 26′1	Hattori	Hattori
,, 30th 8 19	1	,, 27.4	Imamura	Sinzyō
,, ,, 12 55	1	,, 27.7	,,	,,
Mean		46° 27′1		

	θ = 46°	27′1
Reduction to	1895.0 =	4.11
,, ,,	sea level =	0.00
	θ = 46°	31′2

HORIZONTAL INTENSITY (H)
Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
July 29th 19h 14m	0.31729	420.85	31°8C	s 5.7508	31°8C	5°42′32″5	13° 0′16″3	31°7C	Sinzyō / Imamura	Imamura / Sinzyō
,, 30th 7 44	0.31737	420.32	33.2	5.7500	32.0	5 41 33.8	12 58 5.0	34.4	,, / Sinzyō	,, / Imamura
,, ,, 12 13	0.31742	419.20	38.1	5.7599	37.7	5 40 35.0	12 55 30.0	38.6	Hattori / Sinzyō	Sinzyō / Hattori
,, ,, 13 44	0.31751	419.18	37.6	5.7623	38.2	5 40 56.3	12 56 26.3	36.9	,, / Imamura	Imamura / Sinzyō
Mean	0.31753									

	H =	0.31753
Reduction to	1895.0 =	−4040
,, ,,	sea level =	000
	H =	0.31713

306. MINAMATA.

DECLINATION (δ)

Observations of the South Wast Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 1st 9h 18m	3° 52′ 56″	Imamura	Sinzyō
,, ,, 10 19	,, 54 56	,,	,,
,, ,, 11 9	,, 56 12	,,	,,
,, ,, 12 17	,, 59 47	,,	,,
,, ,, 13 11	,, 59 56	Sinzyō	Imamura
,, ,, 14 6	4 0 14	Hattori	Sinzyō
,, ,, 15 9	3 59 59	Sinzyō	Hattori
,, ,, 16 24	,, 57 48	Imamura	,,
,, ,, 17 30	,, 57 8	Sinzyō	Sinzyō
,, ,, 18 24	,, 56 49	Imamura	Hattori
,, ,, 19 32	,, 56 17	,,	,,
,, ,, 20 38	,, 56 23	Hattori	,,
,, ,, 22 19	,, 57 38	,,	,,
,, ,, 22 55	,, 57 24	,,	,,
,, 2nd 1 7	,, 56 53	,,	,,
,, ,, 3 47	,, 55 9	,,	,,
,, ,, 4 59	,, 55 8	,,	,,
,, ,, 5 17	,, 54 33	,,	,,
,, ,, 5 54	,, 54 21	Sinzyō	Imamura
Mean	3° 56′ 24″		

$\delta = 3°\ 56'.40$

Reduction to 1895.0 = 1.87

,, ,, sea level = 0.00

$\delta = 3°\ 58'.3$

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 1st 9h 53m	1	46° 3′.7	Sinzyō	Sinzyō
,, ,, 14 34	1	,, 3.5	Imamura	,,
,, ,, 16 49	2	45 58.5	Sinzyō	,,
Mean		46° 1′.9		

$\theta = 46°\ 1'.9$

Reduction to 1895.0 = 4.11

,, ,, sea level = 0.00

$\theta = 46°\ 6'.0$

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 1st 10h 54m	0.32094	420.93	30°.8 C	5.7161 s	30°.4 C	5°38′37″.5	21°51′21″.2	31°.3 C	Imamura / Sinzyō	Sinzyō / Imamura
,, ,, 13 45	0.32141	420.09	35.0	5.7203	35.4	5 37 45.0	12 49 10.0	34.6	,, / Hattori	Hattori / Sinzyō
,, ,, 19 3	0.32077	421.72	27.8	5.7139	28.0	5 39 33.8	12 53 18.8	27.7	,, / Imamura	Imamura / Hattori
Mean	0.32104									

$H = 0.32104$

Reduction to 1895.0 = −4147

,, ,, sea level = 000

$H = 0.32063$

307. SIMABARA.

Old Castle (島 原 舊 城)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 2nd 18h 12m	4° 4′ 34″	Imamura	Hattori
,, ,, 20 0	,, 6 0	Hattori	,,
,, ,, 22 20	,, 5 6	Sinzyō	Sinzyō
,, ,, 23 50	,, 5 23	,,	,,
,, 3rd 1 16	,, 4 49	,,	,,
,, ,, 2 53	,, 4 48	,,	,,
,, ,, 4 5	,, 4 35	,,	,,
,, ,, 5 37	,, 3 16	,,	,,
,, ,, 6 38	,, 3 4	,,	,,
,, ,, 7 33	,, 2 14	Hattori	Hattori
,, ,, 8 34	,, 3 32	,,	Imamura
,, ,, 9 21	,, 5 16	Imamura	Hattori
,, ,, 10 33	,, 6 44	Hattor	Sinzyō
,, ,, 11 31	,, 7 16	Sinzyō	Imamura
,, ,, 12 12	,, 9 2	,,	Hattori
,, ,, 13 32	,, 9 5	,,	,,
,, ,, 14 33	,, 7 59	Imamura	,,
,, ,, 15 30	,, 7 5	Sinzyō	,,
,, ,, 16 35	,, 6 10	,,	,,
,, ,, 17 26	,, 5 12	,,	,,
,, ,, 17 47	,, 5 11	Imamura	Sinzyō
Mean	4° 5′ 34″		

	δ = 4°	5′57
Reduction to	1895.0 =	1.62
,, ,,	sea level =	0.00
	δ = 4°	7′2

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 3rd 6h 23m	1	46° 51′1	Sinzyō	Sinzyō
,, ,, 9 21	1	,, 50.8	Hattori	Imamura
,, ,, 14 16	1	,, 49.6	Imamura	Hattori
Mean		46° 50′5		

	θ = 46°	50′5
Reduction to	1895.0 =	4.76
,, ,,	sea level =	0.00
	θ = 46°	55′3

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 3rd 8h 15m	0.31419	420.96	30°4C	s 5.7773	30°0C	5°46′ 5′0	13° 8′48″8	30°8C	Imamura / Hattori	Hattori / Imamura
,, ,, 13 17	0.31411	417.95	38.1	5.7999	38.0	5 43 18.8	13 1 55.0	38.3	,, / Sinzyō	Sinzyō / Hattori
,, ,, 17 3	0.31452	420.24	32.6	5.7808	32.6	5 45 0.0	13 5 52.5	32.5	,, / Imamura	Imamura / Sinzyō
Mean	0.31427									

	H =	0.31427
Reduction to	1895.0 =	−4227
,, ,,	sea level =	000
	H =	0.31385

308. NAGASAKI.

Sakura no Baba (櫻 ノ 馬 場)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 4th 19h 45m	4° 23′ 13″	Imamura	Sinzyō
,, ,, 20 7	,, 22 57	Sinzyō	Hattori
,, ,, 22 45	,, 23 9	Imamura	Imamura
,, ,, 23 43	,, 22 47	,,	,,
,, 5th 1 32	,, 22 52	,,	,,
,, ,, 3 50	,, 22 51	,,	,,
,, ,, 5 16	,, 21 48	,,	,,
,, ,, 6 12	,, 20 26	,,	,,
,, ,, 7 8	,, 20 18	,,	,,
,, ,, 8 3	,, 20 59	Sinzyō	Hattori
,, ,, 9 16	,, 22 7	,,	,,
,, ,, 10 35	,, 23 56	Hattori	Sinzyō
,, ,, 11 35	,, 23 46	Sinzyō	Hattori
,, ,, 12 59	,, 24 42	,,	,,
,, ,, 14 8	,, 24 22	Hattori	Sinzyō
,, ,, 15 19	,, 23 47	Imamura	Imamura
,, ,, 16 14	,, 23 32	,,	Sinzyō
,, ,, 17 19	,, 23 32	,,	,,
,, ,, 18 0	,, 23 29	,,	,,
Mean	4° 22′ 58″		

	$\delta = 4°\ 22'.97$
Reduction to 1895.0 =	1.83
,, ,, sea level =	0.00
	$\delta = 4°\ 24'.8$

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 5th 9h 1m	1	47° 11′.5	Sinzyō	Hattori
,, ,, 12 26	1	,, 11.7	Hattori	Sinzyō
,, ,, 16 0	1	,, 13.4	Imamura	,,
Mean		47° 12′.2		

	$\theta = 47°\ 12'.2$
Reduction to 1895.0 =	5.25
,, ,, sea level =	0.00
	$\theta = 47°\ 17'.5$

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 5th 7h 43m	0.31877	420.57	31°.1 C	5.7372 s	30°.5 C	5°40′22″.5	12°55′ 5″.0	31°.8 C	Imamura / Sinzyō	Sinzyō / Imamura
,, ,, 13 48	0.31934	419.02	36.1	5.7473	37.0	5 38 57.5	12 51 52.5	35.3	,, / Hattori	Hattori / Sinzyō
,, ,, 17 1	0.31912	419.95	32.7	5.7437	34.0	5 40 3.8	12 54 18.8	31.5	,, / Imamura	Imamura / Hattori
Mean	0.31908									

	H = 0.31908
Reduction to 1895.0 =	−4415
,, ,, sea level =	000
	H = 0.31864

309. SASEBO.

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 6th 16h 30m	4° 10′ 45″	Imamura	Sinzyō
„ „ 17 22	„ 9 47	Sinzyō	Imamura
„ „ 18 23	„ 8 53	„	„
„ „ 19 20	„ 8 48	Hattori	Hattori
„ „ 21 2	„ 8 55	„	„
„ „ 22 14	„ 8 51	„	„
„ „ 23 43	„ 8 35	„	„
„ 7th 1 35	„ 8 38	„	„
„ „ 3 54	„ 5 18	„	„
„ „ 5 5	„ 5 40	„	„
„ „ 5 49	„ 4 18	„	„
„ „ 7 20	„ 7 51	Sinzyō	Imamura
„ „ 7 44	„ 7 51	„	„
„ „ 8 28	„ 7 40	„	„
„ „ 9 7	„ 8 17	Imamura	Sinzyō
„ „ 10 9	„ 10 35	„	„
„ „ 10 37	„ 12 27	Sinzyō	Hattori
„ „ 11 14	„ 13 5	Imamura	„
„ „ 11 58	„ 12 6	„	Sinzyō
„ „ 12 19	„ 13 15	„	Hattori
„ „ 13 12	„ 13 57	„	„
„ „ 13 48	„ 14 51	Sinzyō	„
Mean	4° 9′ 14″		

$\delta = 4°\ 9'.23$

Reduction to 1895.0 = 1.79

„ „ sea level = 0.00

$\delta = 4°\ 11'.0$

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 6th 18h 44m	1	47° 25′.7	Imamura	Sinzyō
„ 7th 6 28	1	„ 23.4	Hattori	Hattori
„ „ 10 59	1	„ 25.4	Sinzyō	„
Mean		47° 24′.8		

$\theta = 47°\ 24'.8$

Reduction to 1895.0 = 6.08

„ „ sea level = 0.00

$\theta = 47°\ 30'.9$

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 6th 18h 10m	0.31519	421.10	28°.9 C	5.7693 s	29°.3 C	5°45′11″.2	13° 6′21″.2	28°.5 C	Imamura / Sinzyō	Sinzyō / Imamura
„ 7th 8 13	0.31517	420.65	30.2	5.7706	30.0	5 44 40.0	13 5 17.5	30.5	„ / Imamura	„ / Sinzyō
„ „ 12 59	0.31482	418.57	34.8	5.7879	34.5	5 43 8.8	13 1 40.0	35.2	Hattori / Imamura	Imamura / Hattori
Mean	0.31506									

$H = 0.31506$

Reduction to 1895.0 = −4592

„ „ sea level = 000

$H = 0.31460$

310. MATIYAMAGUTI.

Conmon School (尋常小學校)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 9th 5h 25m	3° 51′ 10″	Imamura	Hattori
,, ,, 5 54	,, 50 40	Hattori	Imamura
,, ,, 6 30	,, 50 8	Sinzyō	Sinzyō
,, ,, 7 49	,, 49 23	,,	Imamura
,, ,, 8 24	,, 49 30	Imamura	Sinzyō
,, ,, 9 34	,, 51 42	,,	,,
,, ,, 10 47	,, 54 50	,,	Imamura
,, ,, 12 0	,, 56 2	,,	Sinzyō
,, ,, 13 6	,, 56 22	Sinzyō	,,
,, ,, 14 5	,, 55 48	,,	,,
,, ,, 14 52	,, 56 9	Imamura	,,
,, ,, 15 40	,, 55 33	Sinzyō	,,
,, ,, 16 42	,, 54 8	Imamura	Imamura
,, ,, 17 34	,, 53 32	,,	Sinzyō
,, ,, 18 12	,, 53 24	,,	Imamura
,, ,, 18 57	,, 54 5	Sinzyō	Sinzyō
,, ,, 20 50	,, 54 25	,,	,,
,, ,, 21 36	,, 54 34	,,	,,
,, ,, 23 42	,, 53 48	,,	,,
,, 10th 4 37	,, 52 40	,,	,,
,, ,, 5 31	,, 52 10	,,	Imamura
Mean	3° 53′ 33″		

	$\delta = 3°\ 53'.55$
Reduction to 1895.0 =	1.90
,, ,, sea level =	0.00
	$\delta = 3°\ 55'.5$

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 9th 8h 59m	1	46° 24′.8	Imamura	Sinzyō
,, ,, 13 33	1	,, 20.8	Sinzyō	Imamura
,, ,, 17 53	1	,, 23.1	Imamura	Sinzyō
Mean		46° 22′.9		

	$\theta = 46°\ 22'.9$
Reduction to 1895.0 =	4.81
,, ,, sea level =	0.00
	$\theta = 46°\ 27'.7$

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 9th 7h 32m	0.31750	420.67	28°.6C	5.7485 s	28°.2C	5°42′18″.8	13° 0′10″.0	29°.0C	Imamura / Sinzyō	Sinzyō / Imamura
,, ,, 12 50	0.31734	421.52	26.9	5.7447	26.7	5 42 52.5	13 0 53.8	27.1	,, / Imamura	,, / Sinzyō
,, ,, 17 17	0.31741	420.67	30.2	5.7553	31.7	5 42 51.3	13 1 2.5	28.6	,, / Sinzyō	,, / Imamura
Mean	0.31742									

	$H = 0.31742$
Reduction to 1895.0 =	−4334
,, ,, sea level =	000
	$H = 0.31699$

311. KUMAMOTO.

Fifth High School (第五高等學校)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 10th 17h 44m	4° 7′ 34″	Imamura	Sinzyō
,, ,, 18 18	,, 7 50	Sinzyō	Hattori
,, ,, 19 24	,, 8 29	,,	,,
,, ,, 22 52	,, 7 44	Imamura	Imamura
,, ,, 23 29	,, 7 19	,,	,,
,, 11th 1 53	,, 7 4	,,	,,
,, ,, 4 54	,, 5 48	,,	,,
,, ,, 6 2	,, 4 58	,,	,,
,, ,, 7 12	,, 2 54	Sinzyō	Sinzyō
,, ,, 7 37	,, 3 45	,,	,,
,, ,, 7 58	,, 3 47	,,	Hattori
,, ,, 9 13	,, 4 58	,,	Sinzyō
,, ,, 10 20	,, 7 17	,,	,,
,, ,, 11 29	,, 9 3	,,	Imamura
,, ,, 12 23	,, 11 12	,,	Hattori
,, ,, 13 16	,, 12 42	Imamura	Sinzyō
,, ,, 14 10	,, 11 57	Sinzyō	Imamura
,, ,, 15 15	,, 10 17	Hattori	Hattori
,, ,, 16 32	,, 7 38	Sinzyō	Sinzyō
Mean	4° 7′ 36″		

	δ = 4°	7″60
Reduction to	1895.0 =	1.42
,, ,,	sea level =	0.00
	δ = 4°	9″0

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 11th 6h 51m	1	46° 47′1	Imamura	Sinzyō
,, ,, 12 54	1	,, 46.5	,,	,,
,, ,, 15 46	1	,, 47.1	Hattori	,,
Mean		46° 46′9		

	θ = 46°	46′9
Reduction to	1895.0 =	4.51
,, ,,	sea level =	0.00
	θ = 46°	51′4

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 10th 18h 59m	0.31393	421.71	26°6 C	s 5.7767	27°0 C	5°46′57″5	13°10′10″0	26.1C	Sinzyō Hattori	Hattori Sinzyō
,, 11th 8 42	0.31374	420.26	29.4	5.7832	28.2	5 45 18.8	13 6 25.0	30.7	,, Sinzyō	,, Hattori
,, ,, 8 47	0.31377	419.99	30.0	5.7832	28.2	5 44 57.5	13 5 46.3	31.9	Hattori Sinzyō	Sinzyō Hattori
,, ,, 13 49	0.31484	418.23	36.1	5.7929	36.6	5 43 11.2	13 1 48.8	35.5	Imamura Sinzyō	Sinzyō Imamura
Mean	0.31407									

	H =	0.31407
Reduction to	1895.0 =	−4173
,, ,,	sea level =	25
	H =	0.31365

312. MIYADI.

High Common School (阿蘇中部高等小學校運動場)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Aug. 13th 7h 58m	3° 44′ 51″	Imamura	Sinzyō
,, ,, 8 28	,, 45 40	Sinzyō	Hattori
,, ,, 9 46	,, 48 25	Hattori	Sinzyō
,, ,, 10 52	,, 53 37	Imamura	,,
,, ,, 11 1	,, 53 47	,,	,,
,, ,, 11 52	,, 54 31	,,	,,
,, ,, 13 15	,, 55 19	Hattori	,,
,, ,, 14 18	,, 54 59	,,	Imamura
,, ,, 15 18	,, 53 55	Sinzyō	,,
,, ,, 16 22	,, 52 29	,,	,,
,, ,, 17 22	,, 51 56	Imamura	Sinzyō
,, ,, 18 17	,, 51 24	,,	Imamura
,, ,, 18 46	,, 51 16	,,	,,
,, ,, 20 54	,, 50 37	Sinzyō	Sinzyō
,, ,, 22 37	,, 50 41	,,	,,
,, 14th 4 28	,, 49 11	,,	,,
,, ,, 5 52	,, 48 20	,,	,,
,, ,, 6 29	,, 46 59	,,	,,
,, ,, 6 55	,, 45 52	,,	,,
,, ,, 7 29	,, 45 17	,,	,,
Mean	3° 50′ 41″		

$\delta = 3°\ 50'.68$

Reduction to 1895.0 = 1.10

,, ,, sea level = −0.03

$\delta = 3°\ 51'.8$

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 13th 10h 30m	1	46° 58′.1	Hattori	Hattori, Imamura
,, ,, 14 53	1	,, 59.8	Sinzyō	,,
,, ,, 17 43	1	,, 59.8	Imamura	,,
Mean		46° 59′.2		

$\theta = 46°\ 59'.2$

Reduction to 1895.0 = 4.37

,, ,, sea level = −0.10

$\theta = 47°\ 3'.5$

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 13th 9h 15m	0.31519	421.04	28°.8C	5.7645	27°.5C	5°44′21″.3	13° 4′12″.5	30°.2C	Sinzyō, Hattori	Hattori, Sinzyō
,, ,, 13 53	0.31489	419.30	29.8	5.7826	29.7	5 43 51.3	13 3 20.0	29.9	,, mamura	Imamura, Hattori
,, ,, 17 12	0.31561	421.11	26.5	5.7653	27.0	5 44 48.8	13 5 28.8	26.1	,, Sinzyō	Sinzyō, Imamura
Mean	0.31523									

$H = 0.31523$

Reduction to 1895.0 = −4056

,, ,, sea level = 632

$H = 0.31489$

313. MAMIBARA.

Near Court of Justice (裁判所前ノ畑中)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 15th 6h 22	3° 43′ 17″	Imamura	Hattori
,, ,, 6 41	,, 42 23	Sinzyō	,,
,, ,, 7 25	,, 41 32	Hattori	Sinzyō
,, ,, 8 22	,, 41 23	Imamura	Hattori
,, ,, 9 34	,, 43 48	Sinzyō	,,
,, ,, 10 36	,, 46 22	,,	,,
,, ,, 11 28	,, 47 37	Hattori	Sinzyō
,, ,, 12 19	,, 48 33	Imamura	Imamura
,, ,, 13 16	,, 48 3	Sinzyō	Hattori
,, ,, 14 26	,, 46 32	,,	,,
,, ,, 15 25	,, 46 4	,,	,,
,, ,, 16 26	,, 45 57	,,	Sinzyō
,, ,, 17 16	,, 45 48	,,	Imamura
,, ,, 17 58	,, 45 29	,,	Sinzyō
,, ,, 19 6	,, 44 51	Imamura	Imamura
,, ,, 20 23	,, 43 54	,,	Sinzyō
,, ,, 21 50	,, 43 56	,,	Imamura
,, 16th 1 10	,, 43 4	,,	,,
,, ,, 3 15	,, 42 24	,,	,,
,, ,, 5 11	,, 41 58	,,	,,
,, ,, 5 47	,, 41 42	,,	,,
Mean	3° 44′ 21″		

$\delta = 3°\ 44'.35$

Reduction to 1895.0 = 1.20

,, ,, sea level = −0.03

$\delta = 3°\ 45'.5$

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 15th 9h 11m	1	47° 18′.7	Imamura	Imamura
,, ,, 11 56	1	,, 16.4	Hattori	Sinzyō
,, ,, 17 37	1	,, 19.5	Sinzyō	,,
Mean		47° 18′.2		

$\theta = 47°\ 18'.2$

Reduction to 1895.0 = 3.89

,, ,, sea level = −0.11

$\theta = 47°\ 22'.0$

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 15th 8h 3m	0.31513	421.16	27°.5 C	s 5.7666	27°.0 C	5°45′ 2″.5	13° 5′58″.8	28°.0 C	Imamura / Hattori	Hattori / Imamura
,, ,, 13 46	0.31480	419.11	31.0	5.7874	31.7	5 44 0.0	13 3 31.3	30.3	,, / Sinzyō	Sinzyō / Hattori
,, ,, 13 51	0.31487	419.30	30.4	5.7874	31.7	5 44 20.0	13 4 18.8	29.0	Hattori / Sinzyō	Sinzyō / Hattori
,, ,, 17 8	0.31521	420.79	27.3	5.7706	27.5	5 45 1.3	13 6 10.0	27.1	Sinzyō / Imamura	Imamura / Sinzyō
Mean	0.31500									

$H = 0.31500$

Reduction to 1895.0 = −3958

,, ,, sea level = 664

$H = 0.31467$

314. YANAGAWA.

Middle School, Densyūkwan (柳川尋常中學傳習舘運動場)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 17th 17h 0m	4° 10′ 31″	Imamura	Hattori
„ „ 18 10	„ 10 48	„	Imamura
„ „ 20 2	„ 10 14	Hattori	Hattori
„ „ 21 17	„ 10 20	„	„
„ „ 22 41	„ 10 6	„	„
„ 18th 0 15	„ 9 38	„	„
„ „ 2 17	„ 8 38	„	„
„ „ 4 16	„ 6 36	„	„
„ „ 5 4	„ 6 23	„	„
„ „ 6 6	„ 4 41	„	„
„ „ 7 4	„ 6 43	„	„
„ „ 8 28	„ 7 35	Sinzyō	Imamura
„ „ 8 42	„ 8 6	Imamura	Sinzyō
„ „ 9 47	„ 9 58	Sinzyō	„
„ „ 10 35	„ 12 43	„	„
„ „ 11 50	„ 15 53	„	Hattori
„ „ 12 58	„ 15 23	Imamura	Imamura
„ „ 14 7	„ 13 33	Sinzyō	Hattori
„ „ 15 14	„ 12 26	Hattori	Sinzyō
„ „ 16 2	„ 11 19	Sinzyō	„
Mean	4° 10′ 10″		

$\delta = 4°\ 10'.17$

Reduction to 1895.0 = 1.39

„ „ sea level = 0.00

$\delta = 4°\ 11'.6$

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 18th 8h 6m	1	47° 17′.7	Hattori	Sinzyō
„ „ 13 51	1	„ 17.0	Imamura	Imamura
„ „ 15 39	1	„ 16.6	Sinzyō	Sinzyō
Mean		47° 17′.1		

$\theta = 47°\ 17'.1$

Reduction to 1895.0 = 5.38

„ „ sea level = 0.00

$\theta = 47°\ 22'.5$

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 17th 19h 23m	0.31487	421.65	25°.3 C	s 5.7685	25°.7 C	5°46′ 1″.3	13° 8′15″.0	25°.0 C	Sinzyō Imamura	Imamura Sinzyō
„ 18th 9 23	0.31436	422.65	23.7	5.7653	23.8	5 46 53.8	13 9 33.8	23.7	„ Sinzyō	„ Imamura
„ „ 14 48	0.31486	420.57	27.6	5.7756	27.9	5 45 8.8	13 6 22.5	27.4	Hattori	Sinzyō
Mean	0.31469									

$H = 0.31469$

Reduction to 1895.0 = −4368

„ „ sea level = 000

$H = 0.31425$

315. HUKUOKA.

Play Ground, Syūyūkwan (修猷館運動場)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 19th 7h 53m	4° 19′ 56″	Imamura	Hattori
,, ,, 8 35	,, 20 35	Sinzyō	,,
,, ,, 9 27	,, 22 21	Imamura	Sinzyō
,, ,, 10 28	,, 25 12	,,	Hattori
,, ,, 11 30	,, 26 53	Hattori	Sinzyō
,, ,, 12 25	,, 27 25	Sinzyō	Hattori
,, ,, 13 35	,, 26 16	Hattori	Sinzyō
,, ,, 14 38	,, 24 31	,,	Hattori
,, ,, 15 46	,, 21 42	,,	,,
,, ,, 16 41	,, 21 21	,,	,,
,, ,, 17 42	,, 21 15	Sinzyō	Hattori
,, ,, 18 26	,, 21 43	Imamura	Sinzyō
,, ,, 20 12	,, 22 52	Sinzyō	,,
,, ,, 20 47	,, 23 3	,,	,,
,, ,, 23 4	,, 22 8	,,	,,
,, ,, 23 56	,, 22 16	,,	,,
,, 20th 4 40	,, 21 2	,,	,,
,, ,, 5 12	,, 19 27	Hattori	Hattori
,, ,, 6 8	,, 19 13	,,	,,
,, ,, 7 52	,, 20 1	,,	,,
Mean	4° 22′ 32″		

$\delta = 4°\ 22'.53$
Reduction to 1895.0 = 1.00
,, ,, sea level = 0.00
$\delta = 4°\ 23'.5$

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 19th 9h 48m	1	47° 56′.2	Sinzyō	Imamura
,, ,, 13 55	1	,, 54.7	Imamura	Hattori
,, ,, 17 13	1	,, 55.5	Hattori	Sinzyō
Mean		47° 55′.5		

$\theta = 47°\ 55'.5$
Reduction to 1895.0 = 5.54
,, ,, sea level = 0.00
$\theta = 48°\ 1'.0$

HORIZONTAL INTENSITY (H)

(* *Value deduced from Vibration only by assuming Value of M.*)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 19th 9h 10m	0.31219	420.70	28°.8C	5.7981	28°.6C	5°47′45″.0	13°11′56″.3	29°.0C	Imamura	Sinzyō
									Sinzyō	Imamura
,, ,, 13 4	*0.31288	418.45	34.9	5.8102	35.5	(5 45 35.0	13 7 23.8	34.3)	,,	Hattori
,, ,, 13 10	0.31300	418.58	34.9	5.8083	35.5	5 45 35.0	13 7 23.8	34.3	,,	,,
									Hattori	Sinzyō
,, ,, 18 11	0.31189	419.15	29.8	5.8161	31.0	5 47 27.5	13 11 28.8	28.5	,,	Imamura
									Imamura	Hattori
Mean	0.31249									

$H = 0.31249$
Reduction to 1895.0 = −.4281
,, ,, sea level = .000
$H = 0.31206$

Hukuoka Syuttyō (福岡出張)

Observations of the South West Party, 1896.

Station, 1887. (千八百八十七年ノ觀測點)

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 19th 14h 5m	1	47° 56′0	Imamura	Sinzyō
,, ,, 14 23	1	,, 57.3	Sinzyō	Imamura
Mean		47° 56′7		

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 19th 14h 56m	0.31265	420.20	29°7C	5.7980	29°7C	—	—	—	Imamura	Sinzyō
,, ,, 15 6	0.31290	419.47	31.3	5.8010	31.3	—	—	—	,,	,,
,, ,, 15 15	0.31279	419.00	33.1	5.8052	33.1	—	—	—	Sinzyō	Imamura
Mean	0.31278									

316. KOKURA.

Play Ground of High Common School (高等小學校運動場)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 20th 13h 25m	4° 47′ 25″	Imamura	Sinzyō
,, ,, 13 56	,, 47 2	Sinzyō	Hattori
,, ,, 15 11	,, 44 49	Imamura	Sinzyō
,, ,, 16 20	,, 43 20	Sinzyō	Hattori
,, ,, 17 21	,, 43 6	Hattori	Sinzyō
,, ,, 17 34	,, 43 25	,,	,,
,, ,, 17 47	,, 44 6	Imamura	Imamura
,, ,, 21 58	,, 44 44	,,	,,
,, ,, 23 22	,, 43 32	,,	,,
,, 21st 2 4	,, 42 29	,,	,,
,, ,, 5 17	,, 41 6	,,	,,
,, ,, 6 17	,, 40 14	,,	,,
,, ,, 7 44	,, 40 2	Sinzyō	Hattori
,, ,, 9 6	,, 42 12	,,	,,
,, ,, 10 10	,, 44 22	Hattori	,,
,, ,, 11 5	,, 45 56	,,	Sinzyō
,, ,, 11 56	,, 48 31	Sinzyō	,, Hattori
Mean	4° 43′ 26″		

δ = 4° 43′43
Reduction to 1895.0 = 0.71
,, ,, sea level = 0.00
δ = 4° 44′1

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 20th 15h 42m	1	48° 10′0	Sinzyō	Sinzyō Hattori
,, ,, 19 28	1	,, 11.3	Imamura	Imamura
,, 21st 5 43	1	,, 10.2	,,	,,
,, ,, 11 35	1	,, 10.4	Hattori	Sinzyō
Mean		48° 10′5		

θ = 48° 10′5
Reduction to 1895.0 = 5.58
,, ,, sea level = 0.00
θ = 48° 16′1

HORIZONTAL INTENSITY (H)
Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 20th 14h 57m	0.31249	418.81	34°2C	5.8096	34°3C	5°46′ 0″0	13° 8′ 7″5	34°1 C	Imamura	Sinzyō
„ „ 18 6	0.31201	420.44	29.9	5.8036	30.3	5 47 46.3	13 11 42.5	29.5	Sinzyō	Hattori
„ 21st 8 44	0.31218	419.41	31.6	5.8039	30.2	5 46 21.3	13 8 56.3	33.0	Hattori	Sinzyō
									„	„
									Sinzyō	Sinzyō
Mean	0.31223									

H= 0.31223
Reduction to 1895.0 = −4203
„ „ sea level = 000
H= 0.31181

317. NAKATU.

Nakatu Park (中津公園)

DECLINATION (δ)
Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 22nd 12h 36m	4° 29′ 54″	Imamura	Hattori
„ „ 13 16	„ 29 34	Sinzyō	„
„ „ 14 39	„ 27 28	Hattori	Sinzyō
„ „ 15 37	„ 26 58	Imamura	Hattori
„ „ 16 37	„ 25 42	Sinzyō	Imamura
„ „ 17 41	„ 25 4	Imamura	Sinzyō
„ „ 18 31	„ 23 54	Sinzyō	Hattori
„ „ 19 29	„ 25 53	Hattori	„
„ „ 19 50	„ 26 0	„	„
„ „ 21 27	„ 26 30	„	„
„ „ 23 30	„ 26 20	„	„
„ 23rd 0 39	„ 26 3	„	„
„ „ 3 23	„ 25 53	„	„
„ „ 4 56	„ 25 37	„	„
„ „ 5 55	„ 23 54	„	„
„ „ 6 59	„ 22 45	„	„
„ „ 8 14	„ 23 25	Sinzyō	Imamura
„ „ 9 16	„ 25 28	„	„
„ „ 10 23	„ 28 48	Imamura	„
„ „ 11 24	„ 30 2	„	Hattori
„ „ 12 8	„ 30 58	Sinzyō	„
„ „ 12 35	„ 31 23	„	„
„ „ 14 14	„ 30 14	„	Imamura
Mean	4° 26′ 20″		

δ = 4° 26′33
Reduction to 1895.0 = 0.71
„ „ sea level = 0.00
δ = 4° 27′0

DIP (θ)
Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 22nd 15h 16m	1	47° 51′9	Imamura	Sinzyō
„ „ 16 53	1	„ 55.0	Sinzyō	Imamura
„ 23rd 6 34	1	„ 54.0	Hattori	Hattori
Mean		47° 53′6		

θ = 47° 53′6
Reduction to 1895.0 = 4.92
„ „ sea level = 0.00
θ = 47° 58′5

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^n.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 22nd 14h 17m	0.31235	418.85	32°.7C	s 5.8106	32°.8C	5°46′20″.0	13° 9′ 5″.0	32°.6C	Hattori	Imamura
„ „ 18 6	0.31162	420.22	28.4	5.8080	28.7	5 48 27.5	13 14 1.3	28.2	Sinzyō / Imamura	„ / Sinzyō
„ 23rd 8 53	0.31149	421.33	25.6	5.8005	25.5	5 49 17.5	13 15 41.3	25.7	„ / Sinzyō	„ / Imamura
Mean	0.31182									

H =	0.31182
Reduction to 1895.0 =	−4102
„ „ sea level =	000
H =	0.31141

318. NAKAMATAMA.

Hamanisi (中眞玉村字濱西原野)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time)	δ	Observer	Recorder
Aug. 24th 18h 13m	4° 25′ 28″	Sinzyō	Hattori
„ „ 18 55	„ 25 37	Hattori	„
„ „ 19 39	„ 25 31	Sinzyō	Sinzyō
„ „ 20 59	„ 25 18	„	Hattori
„ „ 21 58	„ 25 26	„	„
„ „ 23 0	„ 25 41	„	„
„ 25th 0 53	„ 24 46	„	Sinzyō
„ „ 3 37	„ 23 57	Hattori	Hattori
„ „ 5 56	„ 21 58	Sinzyō	Sinzyō
„ „ 6 21	„ 21 4	„	„
„ „ 7 10	„ 20 34	„	Hattori
„ „ 8 33	„ 24 13	„	Sinzyō
„ „ 8 46	„ 24 44	„	„
„ „ 9 51	„ 27 56	Hattori	„
„ „ 10 46	„ 29 53	Sinzyō	Hattori
„ „ 11 41	„ 29 57	Hattori	Sinzyō
„ „ 12 45	„ 30 9	Sinzyō	Hattori
„ „ 14 7	„ 28 49	Hattori	Sinzyō
„ „ 15 8	„ 27 56	Sinzyō	Hattori
„ „ 16 5	„ 26 47	„	„
„ „ 16 49	„ 26 34	„	Sinzyō
Mean	4° 25′ 43″		

δ =	4° 25′.72
Reduction to 1895.0 =	0.54
„ „ sea level =	0.00
δ =	4° 26′.3

DIP. (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 25th 6h 56m	1	47° 46′.3	Sinzyō	Hattori
„ „ 10 24	1	„ 45.7	Hattori / Sinzyō	„ / Sinzyō
„ „ 14 42	1	„ 46.9	Hattori	„
Mean		47° 46′.3		

θ =	47° 46′.3
Reduction to 1895.0 =	4.79
„ „ sea level =	0.00
θ =	47° 51′.1

HORIZONTAL INTENSITY (H)
Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 24th 21h 35m	0.31215	421.18	24°6C	s 5.7969	25°1C	5°48′53″8	13°15′10″0	24°2C	Sinzyō / Hattori	Hattori / Sinzyō
„ 25th 8 13	0.31142	420.10	27.4	5.8102	27.4	5 48 27.5	13 13 56.3	27.4	„ / Sinzyō	„ / Hattori
„ „ 13 22	0.31271	417.79	36.0	5.8183	37.3	5 45 30.0	13 7 15.0	34.8	„	„
„ „ 13 51	0.31273	417.19	37.9	5.8200	38.3	5 44 36.3	13 5 11.3	37.5	Hattori	Sinzyō
Mean	0.31225									

H= 0.31225
Reduction to 1895.0= −3973
„ „ sea level= 000
H= 0.31185

319. KUMA.

Bank of the Tikugogawa （日田隈町筑後河々原）

DECLINATION (δ)
Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 27th 11h 31m	4° 36′ 26″	Sinzyō	Sinzyō
„ „ 11 56	„ 37 9	„	Hattori
„ „ 13 3	„ 37 6	Hattori	Sinzyō
„ „ 14 6	„ 36 36	„	Hattori
„ „ 15 37	„ 34 30	„	Sinzyō
„ „ 16 30	„ 33 39	Sinzyō	Hattori
„ „ 17 39	„ 33 30	„	Sinzyō
„ „ 18 25	„ 33 26	„	„
„ „ 19 15	„ 33 41	„	Hattori
„ „ 21 59	„ 34 15	Hattori	„
„ „ 23 4	„ 34 31	„	Sinzyō
„ „ 23 18	„ 34 36	„	„
„ 28th 0 43	„ 34 24	Sinzyō	„
„ „ 1 56	„ 34 0	„	„
„ „ 3 34	„ 33 56	„	„
„ „ 5 21	„ 33 15	Hattori	Hattori
„ „ 6 22	„ 31 14	Sinzyō	„
„ „ 7 3	„ 30 7	„	„
„ „ 7 59	„ 29 36	„	Sinzyō
„ „ 8 53	„ 32 37	Hattori	Hattori
„ „ 9 17	„ 34 7	Sinzyō	Sinzyō
„ „ 9 40	„ 35 31	„	„
Mean	4° 34′ 16″		

δ=4° 34′27
Reduction to 1895.0= 1.04
„ „ sea level= −0.01
δ=4° 35′3

DIP (θ)
Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 27th 16h 16m	1	46° 54′8	Sinzyō	Hattori
„ „ 23 53	1	„ 53.5	„	Sinzyō
„ 28th 8 32	1	„ 55.1	Hattori	Hattori
Mean		46° 54′4		

θ=46° 54′4
Reduction to 1895.0= 4.96
„ „ sea level= −0.02
θ=46° 59′3

HORIZONTAL INTENSITY (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vib^{n}.	Temp. t_V	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
				s						
Aug. 27th 13h 28m	0.31336	416.07	39.6C	5.8264	41.5C	5°43′20″0	13 1′56″3	37.7C	Sinzyō	Hattori
„ „ 14 41	0.31336	415.83	40.1	5.8264	41.5	5 42 57.5	13 1 8.8	38.8	„	„
„ „ 15 13	0.31326	415.64	41.0	5.8291	41.5	5 43 5.0	13 1 38.8	38.6	Hattori	Sinzyō
„ „ 20 15	0.31307	420.71	25.7	5.7887	25.1	5 46 50.0	13 10 1.3	26.4	Sinzyō	Hattori
„ „ 21 28	0.31319	420.74	24.8	5.7900	25.1	5 47 12.5	13 11 3.8	24.6	Hattori	Sinzyō
„ 28th 6 48	0.31310	420.99	24.6	5.7870	24.2	5 47 10.0	13 10 52.5	25.0	„ Sinzyō	„ Hattori
Mean	0.31322									

H = 0.31322

Reduction to 1895.0 = −4219

„ „ sea level = 100

H = 0.31281

320. KARATU.

Site of Daisyōin (唐津西ノ濱舊大聖院跡)

DECLINATION (δ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	δ	Observer	Recorder
Aug. 29th 17h 6m	4° 18′ 41″	Sinzyō	Hattori
„ „ 17 30	„ 17 57	„	„
„ „ 18 56	„ 17 56	„	„
„ „ 19 14	„ 17 41	„	Sinzyō
„ „ 20 25	„ 17 50	„	„
„ „ 21 46	„ 17 41	„	„
„ „ 23 39	„ 17 30	„	„
„ 30th 1 2	„ 17 29	Hattori	Hattori
„ „ 3 12	„ 15 11	Sinzyō	Sinzyō
„ „ 3 38	„ 14 54	„	„
„ „ 4 30	„ 14 31	„	Hattori
„ „ 6 36	„ 13 50	Hattori	„
„ „ 7 42	„ 12 7	Sinzyō	„
„ „ 8 39	„ 13 9	Hattori	„
„ „ 9 2	„ 16 16	„	„
„ „ 10 8	„ 17 30	Sinzyō	„
„ „ 10 37	„ 18 14	„	„
„ „ 11 37	„ 20 20	„	„
„ „ 12 34	„ 22 12	„	Sinzyō
„ „ 13 19	„ 21 34	„	Hattori
„ „ 13 30	„ 21 32	„	„
„ „ 15 2	„ 18 57	Hattori	Sinzyō
„ „ 15 41	„ 18 5	Sinzyō	Hattori
„ „ 16 39	„ 17 49	„	„
„ „ 17 9	„ 17 50	„	„
„ „ 17 31	„ 17 30	„	„
„ „ 17 59	„ 17 29	„	„
Mean	4° 17′ 22″		

δ = 4° 17′37

Reduction to 1895.0 = 1.46

„ „ sea level = 0.00

δ = 4° 18′8

DIP (θ)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	Needle No.	θ	Observer	Recorder
Aug. 30th 4h 13m	1	47° 46′2	Sinzyō	Hattori
„ „ 11 18	1	„ 47.7	Hattori	Sinzyō
„ „ 13 6	1	„ 49.5	Sinzyō	„
Mean		47° 47′8		

	θ =	47° 47′8
Reduction to	1895.0 =	6.35
„ „	sea level =	0.00
	θ =	47° 54′2

HORIZONTAL INTENSITY. (H)

Observations of the South West Party, 1896.

Date and Hour (Mean Local Time.)	H	M	Mean Temp.	Time of 1-Vibn.	Temp. t_v	Mean Deflections φ_1	Mean Deflections φ_2	Temp. t_D	Observer	Recorder
Aug. 29th 20h 3m	0.31299	420.49	26°3C	5.7941 s	26°8C	5°47′ 8″7	13°10′46″3	25°9C	Hattori / Sinzyō	Sinzyō / Hattori
„ 30th 7 28	0.31363	421.43	27.2	5.7785	26.6	5 46 45.0	13 9 48.8	27.8	Hattori / Sinzyō	Sinzyō / Hattori
„ „ 14 31	0.31346	419.54	28.8	5.7976	29.6	5 46 16.3	13 9 20.0	27.9	„ / Hattori	„ / Sinzyō
Mean	0.31336									

	H =	0.31336
Reduction to	1895.0 =	−4625
„ „	sea level =	C00
	H =	0.31290

Errata.

(N.B. Errata for the Appendix is given at its beginning.)

Frontispiece			for	Declimometer	read Declinometer.
Page vi	Line 15	from bottom,	„	was	„ were.
„ x	„ 8	„ top,	„	formula	„ formulæ.
„ xii	first line,		„	botton	„ bottom.
„ „	Line 6	from top,	„	(129)	„ 129.
„ 3	„ 15	„ bottom,	change the comma to a semicolumn.		
„ „	last line,		for	boardering	read bordering.
„ 5	Line 3	from bottom,	„	blancket	„ blanket.
„ 9	„ 6	„ top,	after Length, *insert* of magnet at 0°C.		
„ 15	„ 12	„ bottom,	for	transit	read transits.
„ 31	„ 13	„ „	„	Those	„ These.
„ „	„ 11	„ „	before pantograph, *insert* a.		
„ 33	Table VI, last column,		for	—6.′1	read —6.″1.
„ 87	to 117, foot notes,		„	horison	„ horizon.
„ 107	heading Altitude, *insert*		*		
„ 111	„		for	1835.0	read 1895.0.
„ 127	Line 2	from top, before by,	*insert*	effectually.	
„ 130	„ 7	„ bottom, before $\frac{1}{3}\Upsilon$	„	$\div$	
„ 135	end of the foot note,		„	Z.	
„ 140	Line 8	from top, after Gauss,	„	a comma.	
„ 145	„ 4	„ bottom, to the end of the line *insert* (10)			
„ 149	„ 14	„ „	for	assymptotic	read asymptotic.
„ 150	„ 8	„ „	„	„	„ „
„ 151	first line, change the full stop to a comma				
„ 152	Line 10	from top,	for	assymptotic	read asymptotic.
„ 156	Fig. 7 ,		„	$\frac{\partial Z'}{\partial Z}$	„ $\frac{\partial Z'}{\partial z}$
„ 157.	„ 9 ,			$\frac{\partial H'}{\partial Z}$	„ $\frac{\partial H'}{\partial z}$
„ 160	Line 2	from bottom,	for	layed	„ laid.
„ 164	„ 4	„ „	„	table	„ Table.
„ 165	„ 3	„ top,	„	then	„ them.
„ 166	„ 11	„ bottom,	after The, *insert* numerical.		
„ 167	„ 3	„ top,	for	convension	read convention.
„ 168	„ 9	„ „	„	$\frac{\partial Y'}{\mathrm{I}z}$	„ $\frac{\partial Y'}{\partial z}$
„ 173	„ 3	„ bottom,	„	existance	„ existence.
„ „	last line,		„	attension	„ attention.
„ „	„ „		„	scaler	„ scalar.
„ 174	Line 2	from top,	„	sitz	„ Sitz.
„ „	„ foot note,		„	Gauss Gesammelt	„ Gauss, Gesammelte.
„ 175	„ 6	from top,	„	asimuth	„ azimuth.
„ 176	„ 15	„ bottom,	„	occurrance	„ occurrence.
PL.XCVIa, heading,			„	Emperical	„ Empirical.