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Report on DELP 1984 Cruises in the Middle Okinawa Trough Part III: Measurement of the Three Components of the Geomagnetic Field

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Abstract

Shipboard three component geomagnetic field measurements in the middle Okinawa Trough, conducted throughout the DELP-84 WAKASHIO cruise, detected magnetic anomalies, with amplitudes exceeding 300 nT, associated with the topographic highs near the Iheya Deep that are lineated in the N60°E—N85°E direction.

1. Method of measurement

The geomagnetic total field was measured by a proton precession magnetometer, and the three components of the geomagnetic field were measured by the shipboard three components magnetometer (STCM), which we developed (ISEZAKI *et al.*, 1981; ISEZAKI, 1985). The STCM is a fluxgate type magnetometer. The three sensors, assembled perpendicular to each other, are hung with an almost frictionless fulcrum and set on the roof of the ship's laboratory by a tripod. We also measured the ship's heading direction and the rolling and pitching angles by a gyrocompass and a vertical gyroscope, respectively. Data sampling was controlled by a microcomputer and observed values were stored in a minifloppy disk every one minute.

2. Deta processing

The values measured by the STCM are not real three components of the geomagnetic field, because they are influenced by the magnetic field induced by the ship's body. In order to remove the components of the induced field, we assumed that the measured three components of the magnetic field were the vector sum of the following three magnetic fields, (1) the geomagnetic field, (2) the magnetic field caused by the remanent magnetic moments of the ship's body, and (3) the magnetic field due to

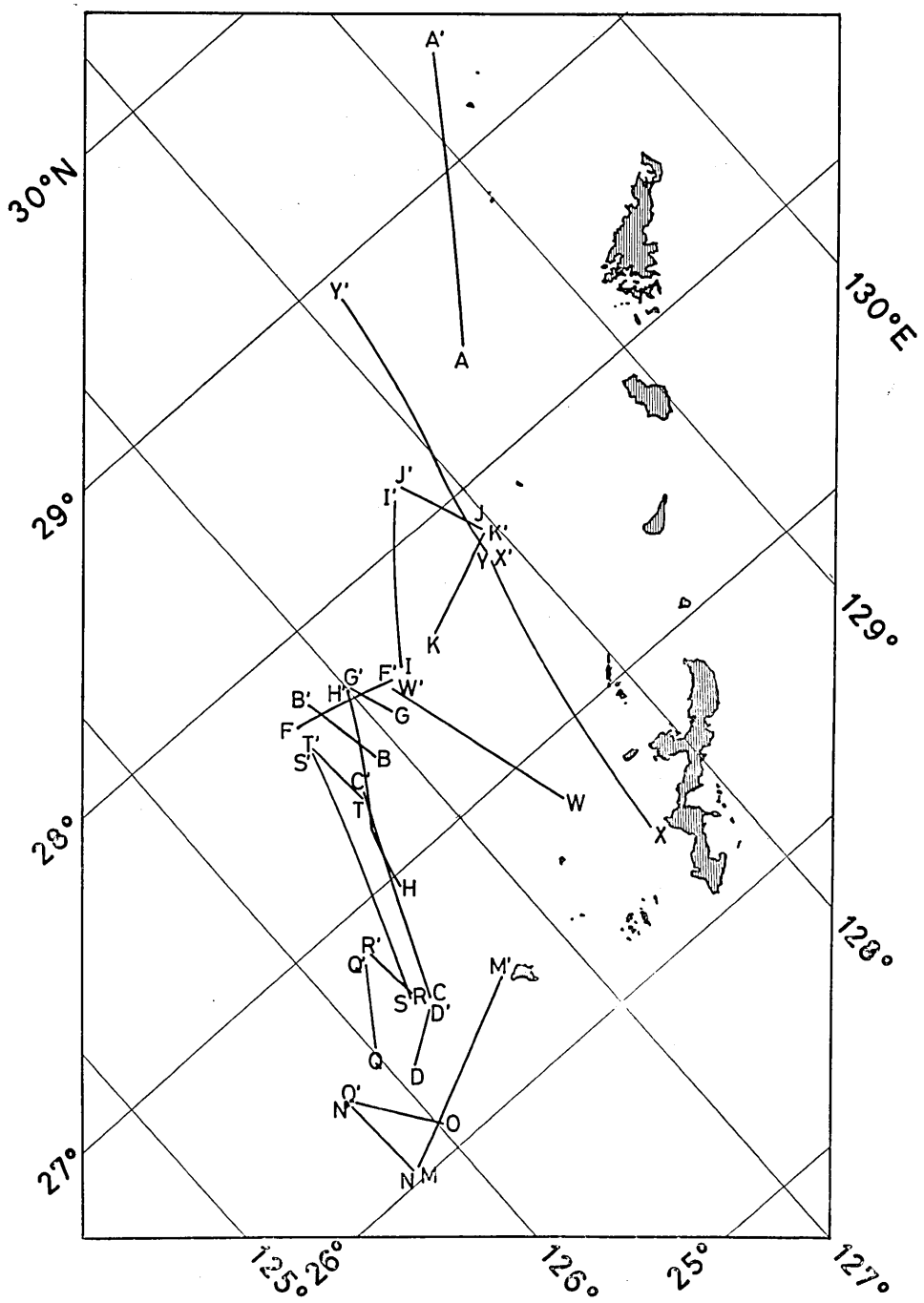

Fig. III-1 (a) Location of magnetic anomaly profiles in the middle Okinawa Trough.

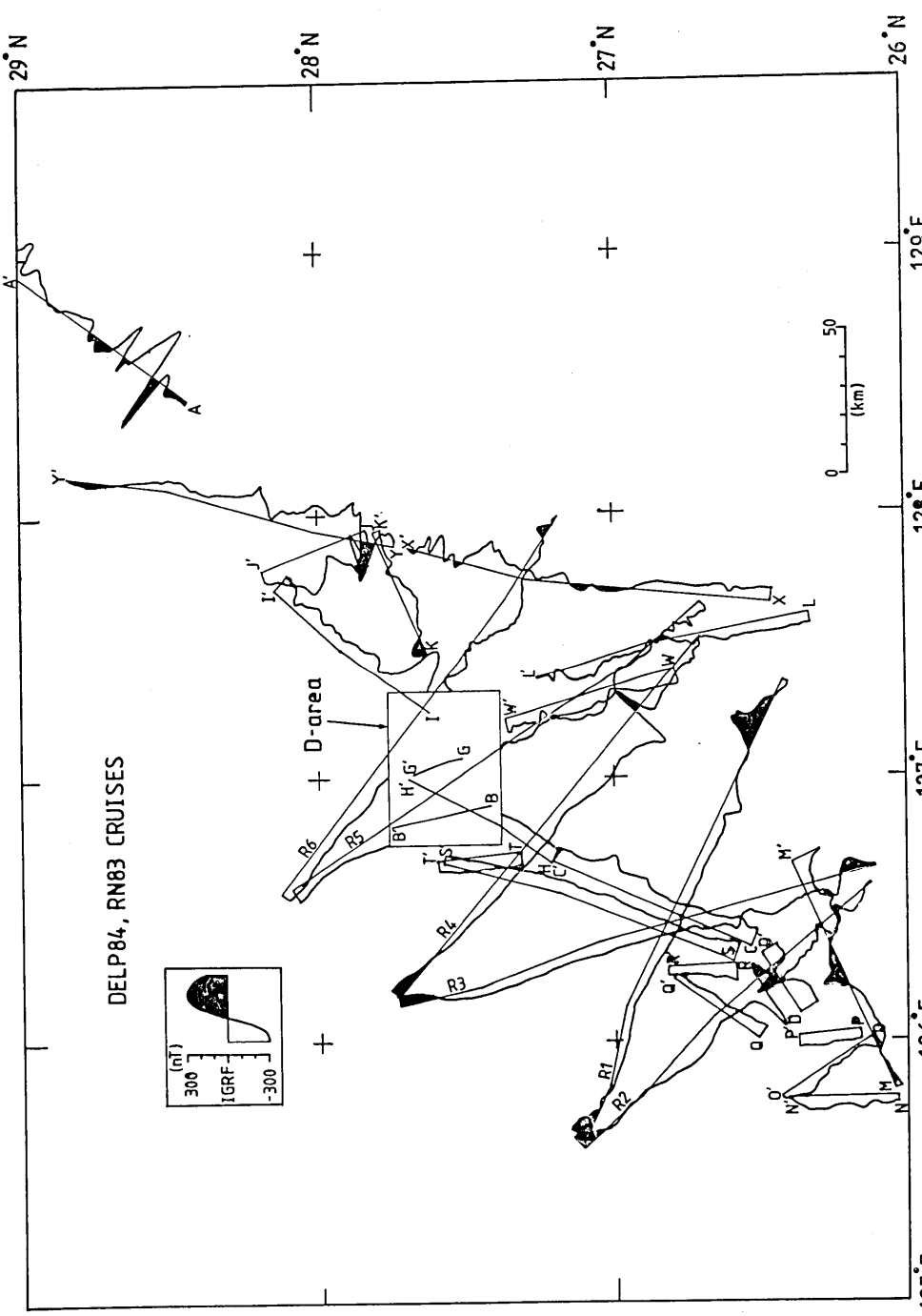

Fig. III-1 (b) Magnetic anomaly profiles projected on the ship tracks. Those of the RN83 cruise (R1 to R6) conducted by R/V Nagasaki-maru in 1983 are added.

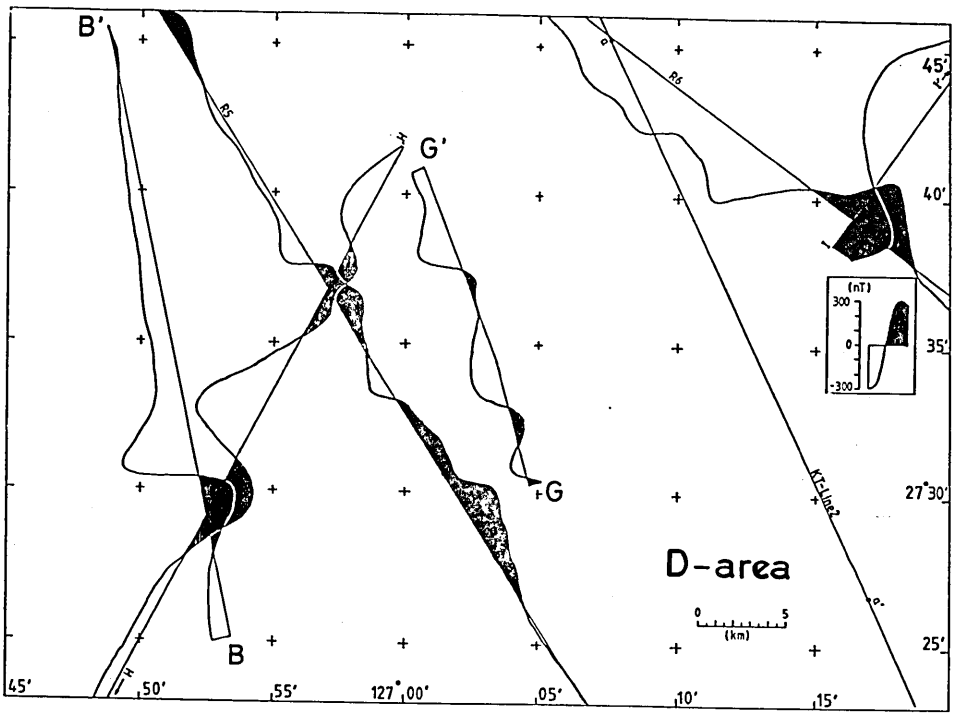

Fig. III-1 (c) Magnetic anomaly profiles in the D-area shown in Fig. III-1 (b) where an amplitude of anomalies is greater than in other areas.

the ship's magnetic moments induced by the real geomagnetic field. As the STCM sensors were fixed to the ship, the magnetic field (2) is constant. Spacial distribution of the induced magnetic moments is complicated, but the strength of induced magnetic moments is generally proportional to the intensity of the real geomagnetic field. Thus, the induced field can be regarded to be linear to the real geomagnetic field. If we rotate the ship at one point where the three components of the geomagnetic field are known, and measure the magnetic field, the ship's heading direction and the rolling and pitching angles, we can obtain the relation between the real geomagnetic field and the observed magnetic field. During this cruise (DELP-84 WAKASHIO), in order to obtain this relation, rotating observations were carried out at six points. Fig. III-1 (a) shows the locations of the lines for the magnetic profiles. Figs. III-1 (b) and (c) show the magnetic anomaly profiles projected on the ship tracks. No daily variation correction is conducted on all magnetic data in this report. However it should be conducted if anomalies whose wavelength is longer than a few hundred kilometers because the amplitudes of anomalies are generally as small as those of a daily variation in the Okinawa Trough

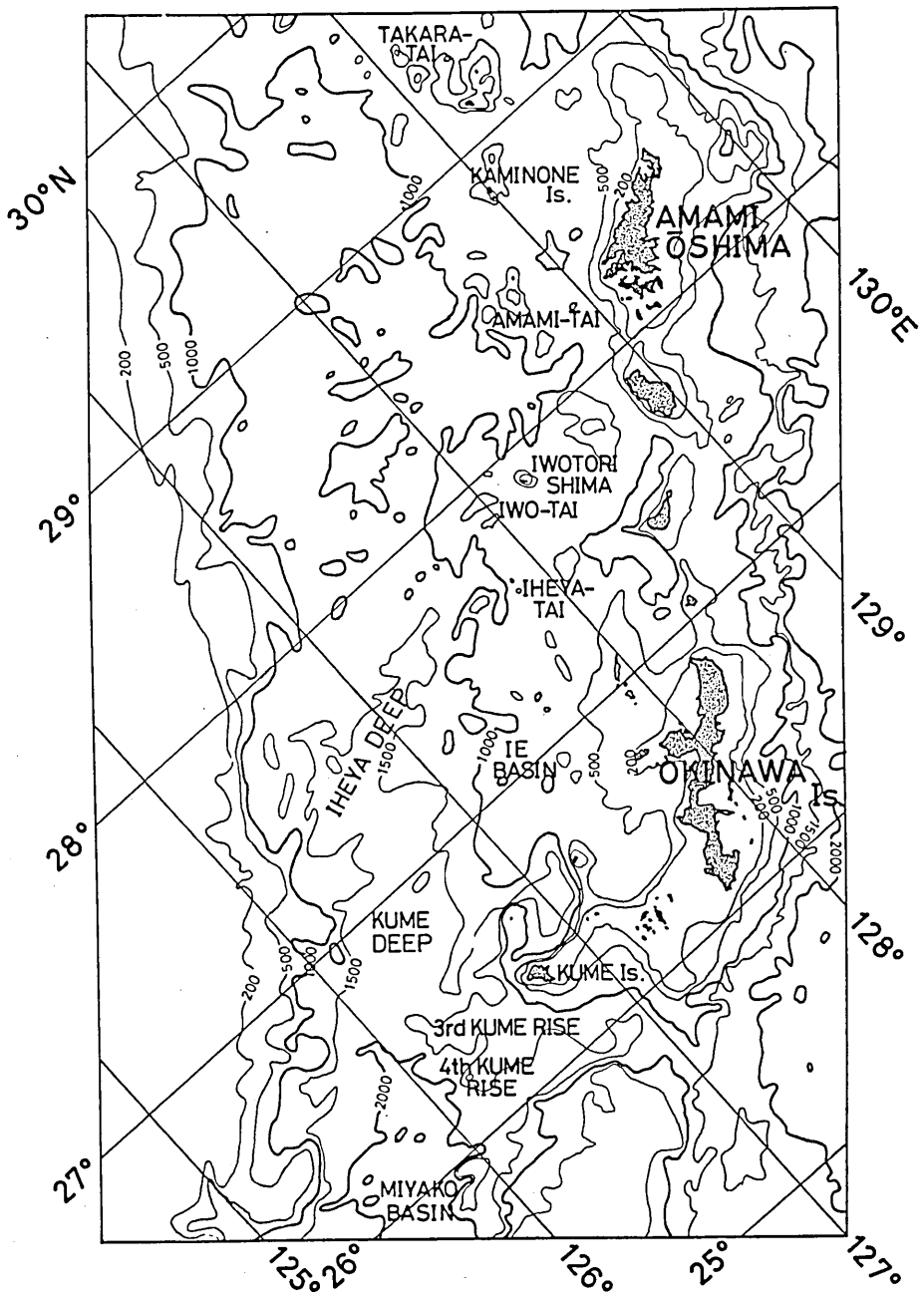

Fig. III-2. Sea bottom topography in and around the middle Okinawa Trough (after KIMURA, 1983).

area. In this report anomalies whose wavelength is less than a few tens of kilometers are mainly studied.

Fig. III-2 shows the bathymetric contours in the region of the middle Okinawa Trough.

Because the calibration of the coefficients to obtain the real geomagnetic field is not sufficiently accurate, on almost all the profiles there are low amplitude (less than 25 nT) and short wave length discrepancies between cT and pT. Here cT and pT are anomalies of the total geomagnetic force calculated from three components and measured by a proton precession magnetometer, respectively.

The magnetic and bathymetric data for every ten minutes, including the date, time and location of measurement, are listed in the last part of the report.

3. Profiles of magnetic anomalies and water depths

In the following figures, X, Y and Z are the profiles of north, east and vertical components of anomalies of the geomagnetic field respectively and cT and pT are as defined above. If cT and pT agree, it can be said that the three components of the geomagnetic field were measured correctly. Each magnetic profile is made of the running mean of nine bits of data. The IGRF-80 fields were subtracted from all the data.

In the following, we show the profiles of the survey lines in the middle Okinawa Trough area. The positions of the tracks and their relations with bottom topography are briefly described with reference to Figs. III-1 and III-2. For the profiles B-B′, G-G′, H-H′, and Y-Y′, we show the projections of the horizontal component anomalies in various directions in order to check the distribution of magnetic sources.

Profile A-A′ (Fig. III-3)

This line runs northeast from the Amami-tai to the Takara-tai passing by Kaminone Island (Figs. III-1 and III-2). The two highs seen on the left-hand side of the bathymetric profile are seamounts of the northern part of Amami-tai. Above them large anomalies are seen on all the magnetic profiles. The small peak near the center of the topographic profile is the extension of the uplift of Kaminone Is., and the height seen on the right-hand side is the southernmost part of Takara-tai. Magnetic anomalies corresponding to them are observed. From all of the magnetic anomaly profiles, it is clear that these features are all magnetized in the normal direction.

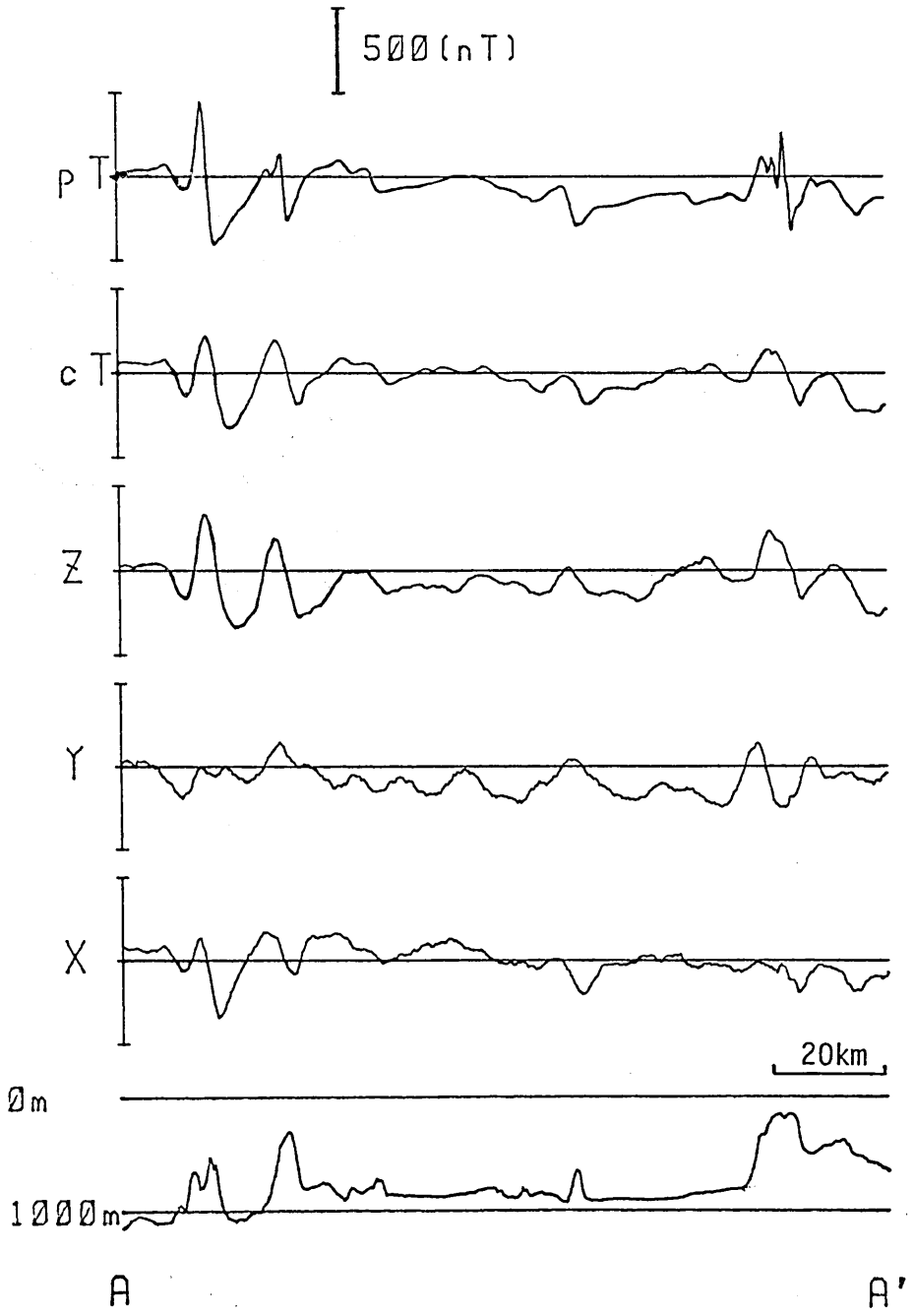

Fig. III-3. Magnetic and bathymetric profiles near the Takara Islands.

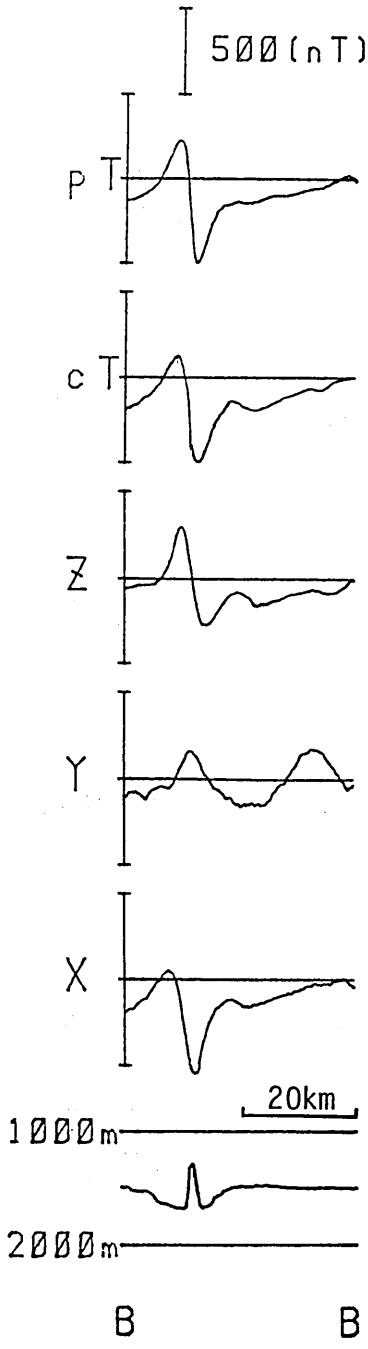

Fig. III-4 (a) Magnetic and bathymetric profiles across the Iheya Deep.

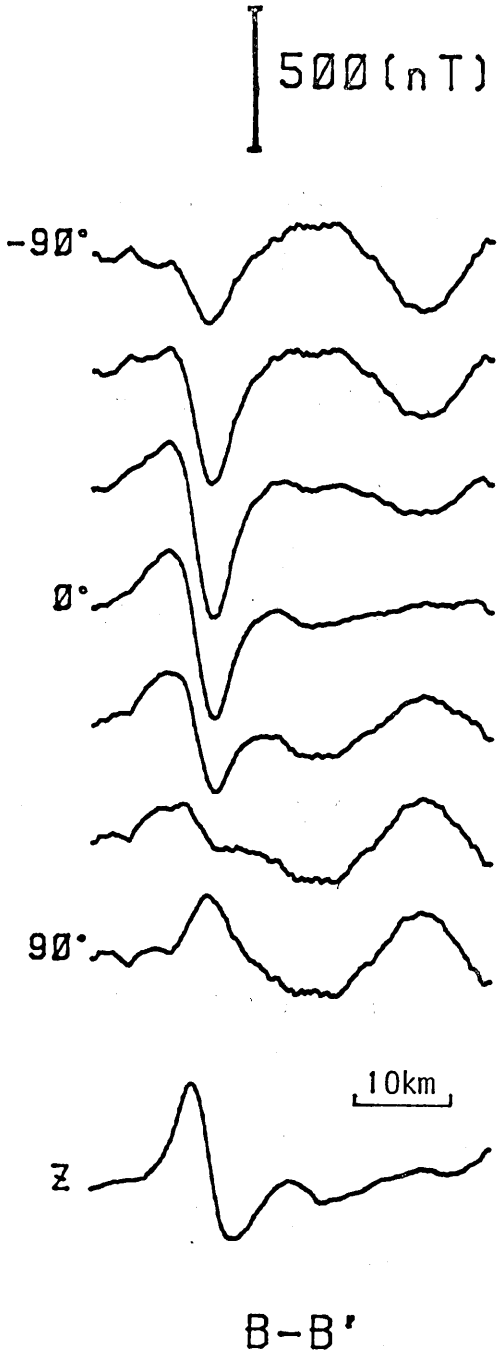

Fig. III-4 (b). Projections of the horizontal component anomaly in variable directions. The lowest profile shows Z component anomaly.

Profile B-B′ (Fig. III-4)

Fig. III-4 (a) shows the profiles crossing the Iheya Deep. The sea-beam survey by R/V JEAN CHARCOT revealed that the steep high of the bathymetric profile is a ridge-like feature elongated in the N70°E direction (see Fig. IV-5 of this report). On both sides of the ridge there are depressions similar to a moat. Every component has large anomalies corresponding to this high. The Y component anomaly has comparatively small amplitudes. The anomaly patterns indicate that this ridge is normally magnetized. The anomaly of the right-hand side of the Y component profile may not be a real anomaly but a noise due to rapid change of the ship's heading.

Fig. III-4 (b) shows the projections of the horizontal component of anomalies into directions at 30° intervals between −90° (westward) and 90° (eastward). The projection in the direction of about 65° shows minimum amplitude of the anomalies over the ridge. This indicates that the magnetic sources are elongated along the trend of 65°. In addition, the vertical component anomalies (Z) appear to have a 90° phase shift of the horizontal component anomalies which have a maximum amplitude in −25° direction. This also supports the idea that these anomalies are produced by two dimensional sources.

Profile C-C′ (Fig. III-5)

This line is along an oblique crossing of the Kume Deep. There is no remarkable anomaly, but there are two small negative anomalies with the amplitude of about 100 nT in the middle of the total force anomaly profiles. The right one of these two anomalies correspond to a small topographic high, but the left one has no corresponding topography. On the left-hand side of the topographic profile, we can see the edge of The Third Kume Rise (Fig. III-2).

Profile D-D′ (Fig. III-6)

This line shows the crossing of the Third Kume Rise. There is a positive peak on the total anomaly profiles. From all of the anomaly profiles, the topographic high is considered to have normal magnetization.

Profile F-F′ (Fig. III-7)

This line runs through the flat feature of the north side of the Iheya Deep. A seamount, 800 m in height, is seen on the northern edge of this depression. There is a negative anomaly in the middle of the total force anomaly profiles. Due to the rapid change of heading and insufficient correction, the left-hand side part of the Y component profile is so much disturbed that it is omitted from the profile.

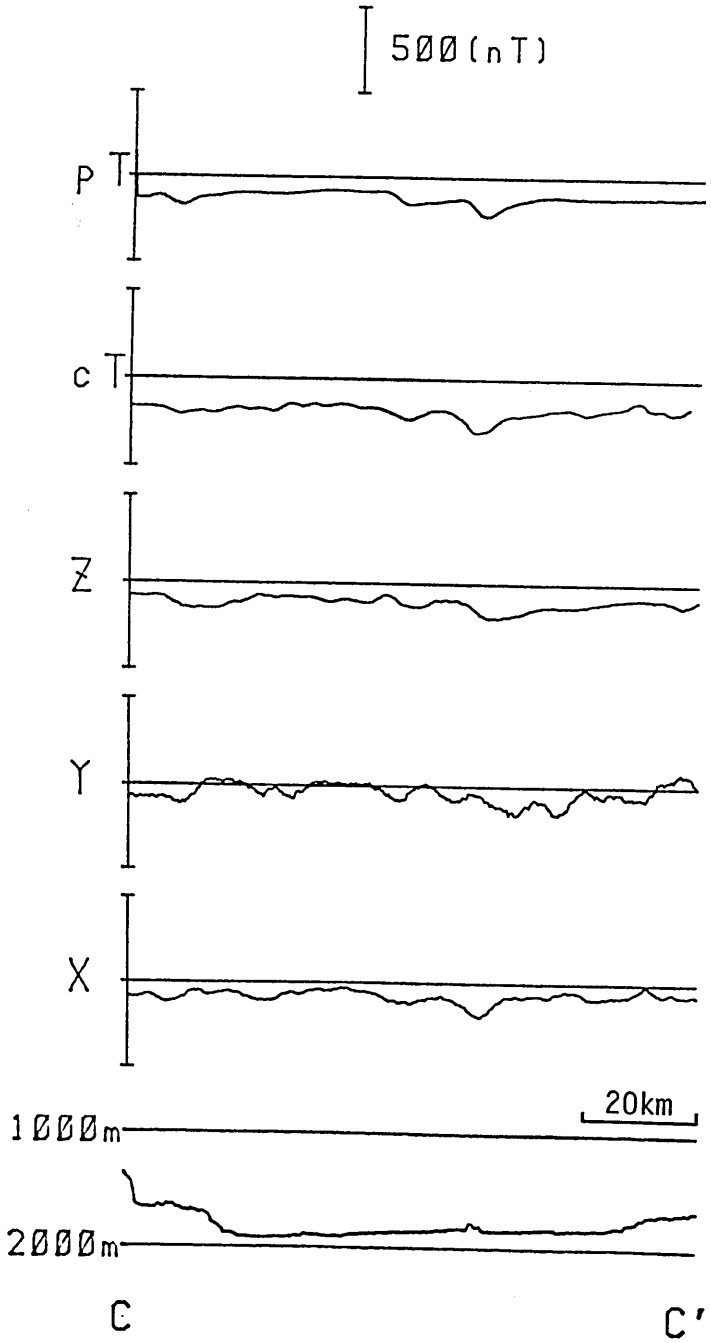

Fig. III-5. Magnetic and bathymetric profiles across the Kume Deep.

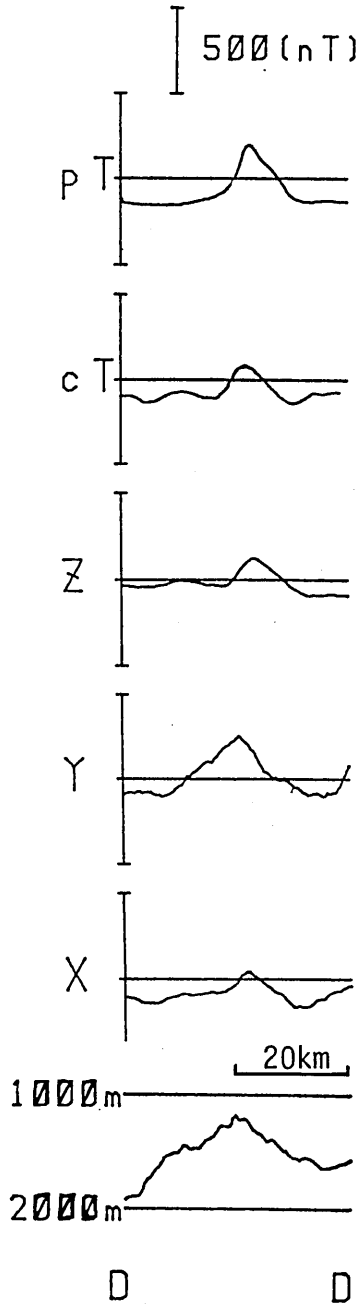

Fig. III-6. Magnetic and bathymetric profiles across the Third Kume Rise.

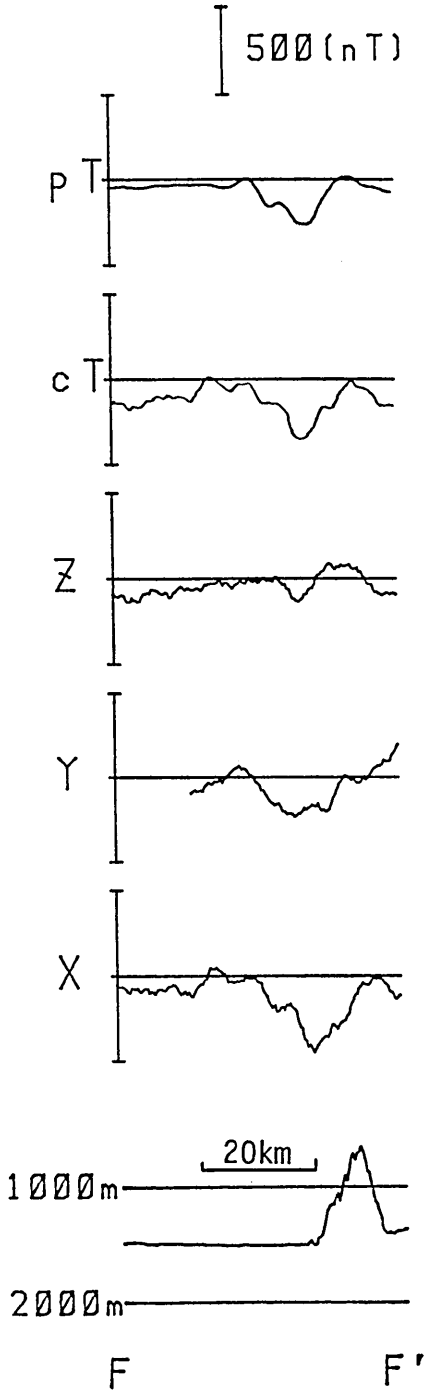

Fig. III-7. Magnetic and bathymetric profiles near the Iheya Deep.

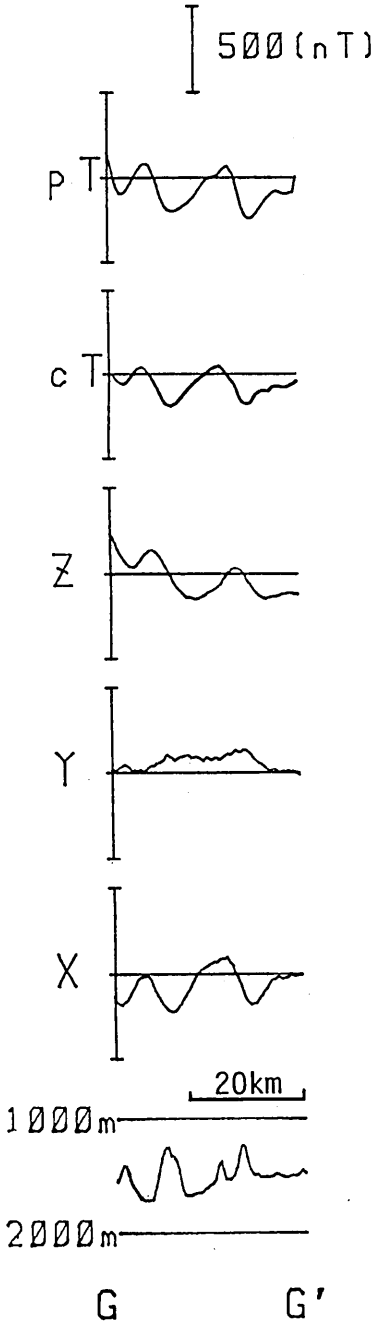

Fig. III-8 (a). Magnetic and bathymetric profiles across the Iheya Deep.

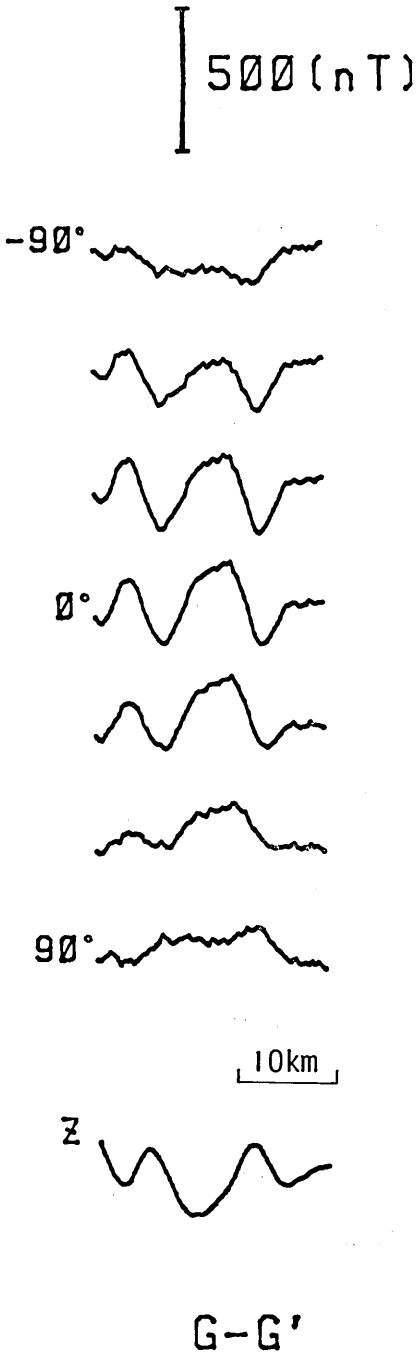

Fig. III-8 (b) Projections of the horizontal component anomaly in variable directions. The lowest profile shows Z component anomaly.

Profile G-G′ (Fig. III-8)

Fig. III-8 (a) shows the almost north-south profiles of the Iheya Deep. Several mountains or ridge-like features are seen in the bathymetric profile. The anomaly profile of Y component has comparatively small amplitudes although the other have several significant lows and highs.

Fig. III-8 (b) shows the projections of the horizontal component of anomalies into directions at 30° intervals from −90°E to +90°E. Minimum amplitude of variations is expected to be found on projection to about +85°E direction. From this, it is considered that the magnetic sources producing these anomalies are lineated approximately in a east-west direction.

Profile H-H′ (Fig. III-9)

Fig. III-9 (a) shows the profiles for the crossing of the northern part of the Kume Deep and the whole of the Iheya deep. The left half of this line is almost the same as the right half of line C-C′ (Fig. III-5). The largest peak on the right side of the bathymetric profile is the same as the ridge in B-B′ (Fig. III-4). Almost the same anomaly patterns are seen in corresponding segments.

Fig. III-9 (b). The projection in the direction of 60°E shows minimum amplitude of the horizontal component anomalies over the same ridge as in B-B′. This proves the elongation of the magnetic sources with the trend of about 60°.

Profile I-I′ (Fig. III-10)

This line runs northeast from the center of the Iheya Deep. The seamount on the left-hand side of the profile is intensely magnetized judging from the large anomalies, but the other topographic highs of almost the same magnitude on the right-hand side of the profile have small anomalies, indicating their weak magnetization. As we have seen in B-B′ (Fig. III-4), G-G′ (Fig. III-8), and H-H′ (Fig. III-9), the anomalies over the seamounts in the Iheya Deep are larger than those of seamounts elsewhere in the Middle Okinawa Trough region.

Profile J-J′ (Fig. III-11)

This line passes by Iwo-tai which is located to the west of Iwotori-shima. Anomalies vary with the ragged topography. Iwo-tai is represented by the highs in the left-hand side of the bathymetric profile and there are anomalies corresponding to it on all the magnetic profiles.

Profile K-K′ (Fig. III-12)

This line is on the eastward extension of the Iheya Deep, between

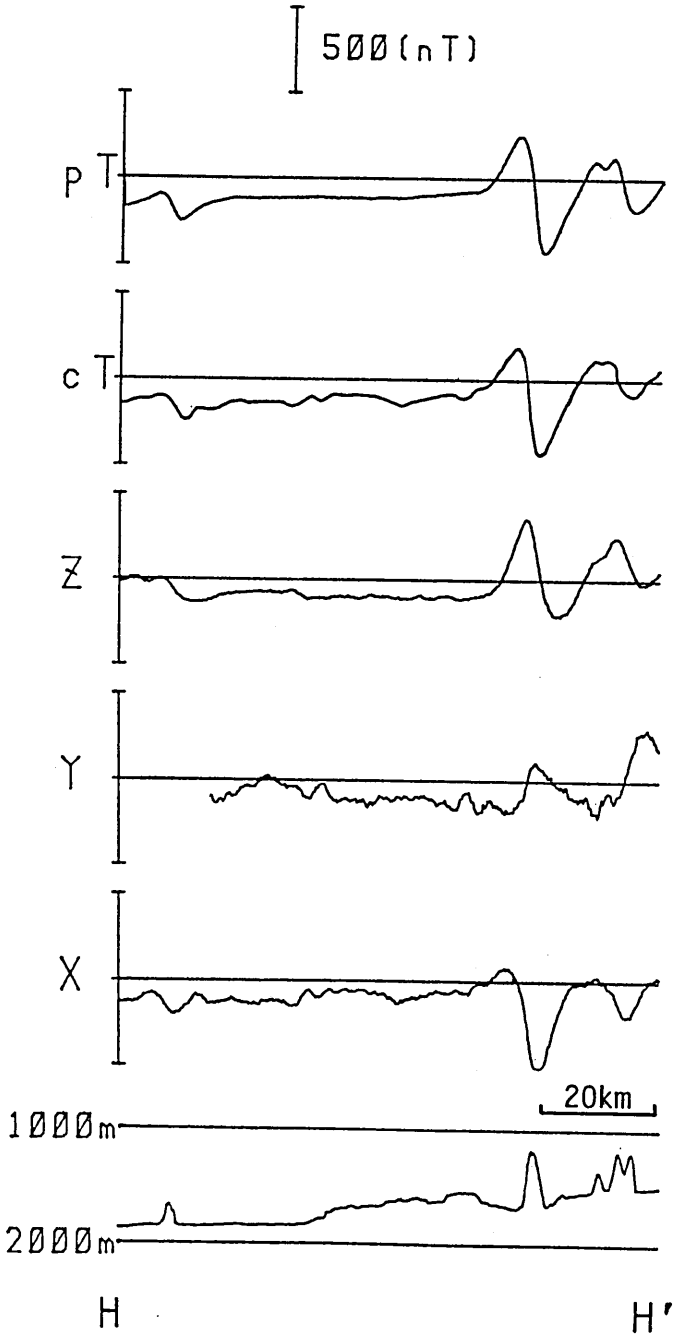

Fig. III-9 (a) Magnetic and bathymetric profiles across the Iheya Deep and the Kume Deep.

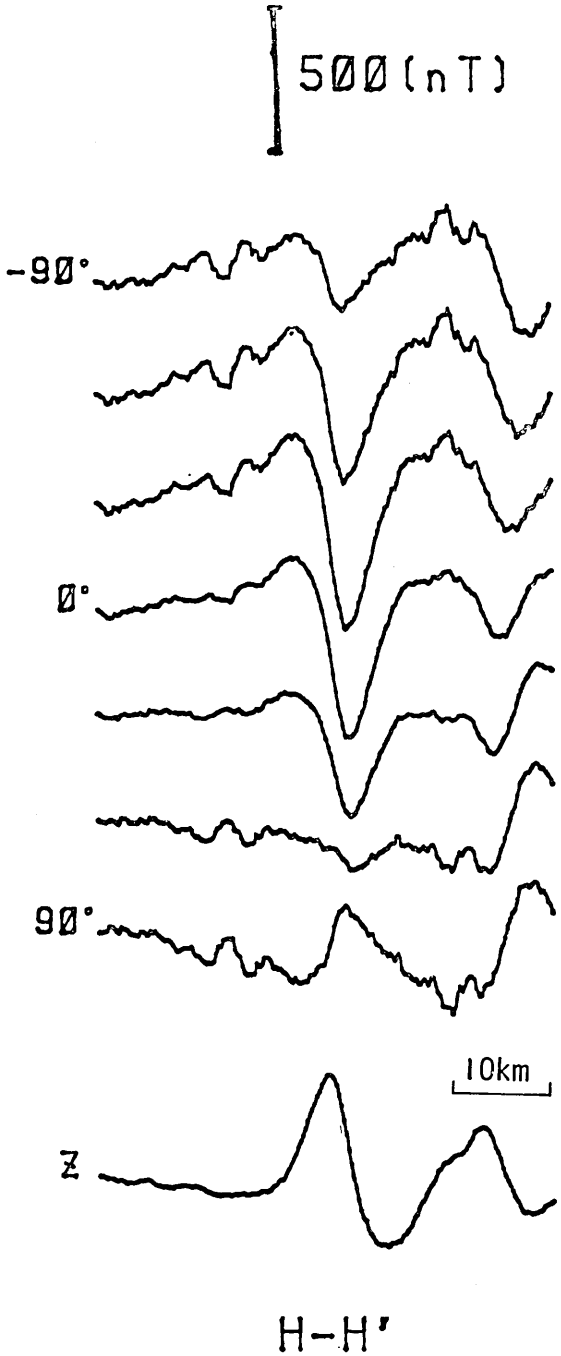

Fig. III-9 (b). Projections of the horizontal component anomaly in variable directions. The lowest profile shows Z component anomaly.

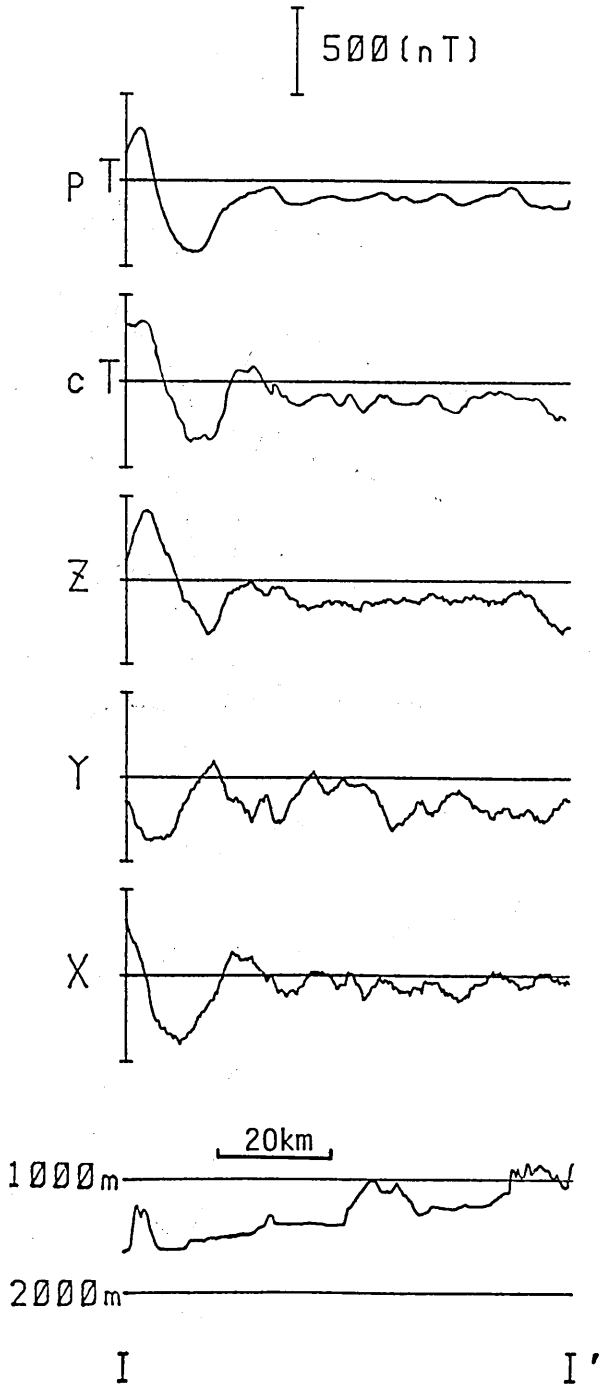

Fig. III-10. Magnetic and bathymetric profiles near the Iheya Deep.

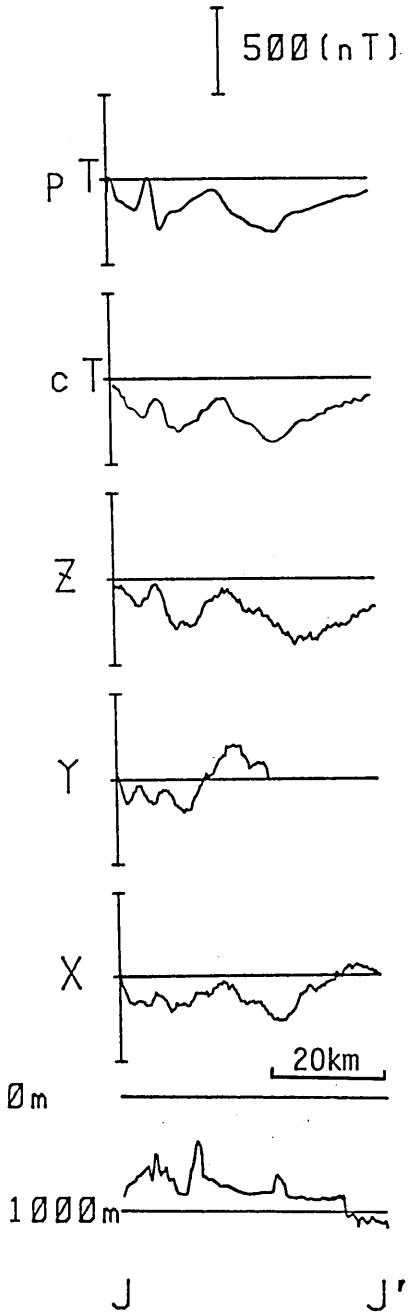

Fig. III-11. Magnetic bathymetric profiles near Iwo-tai.

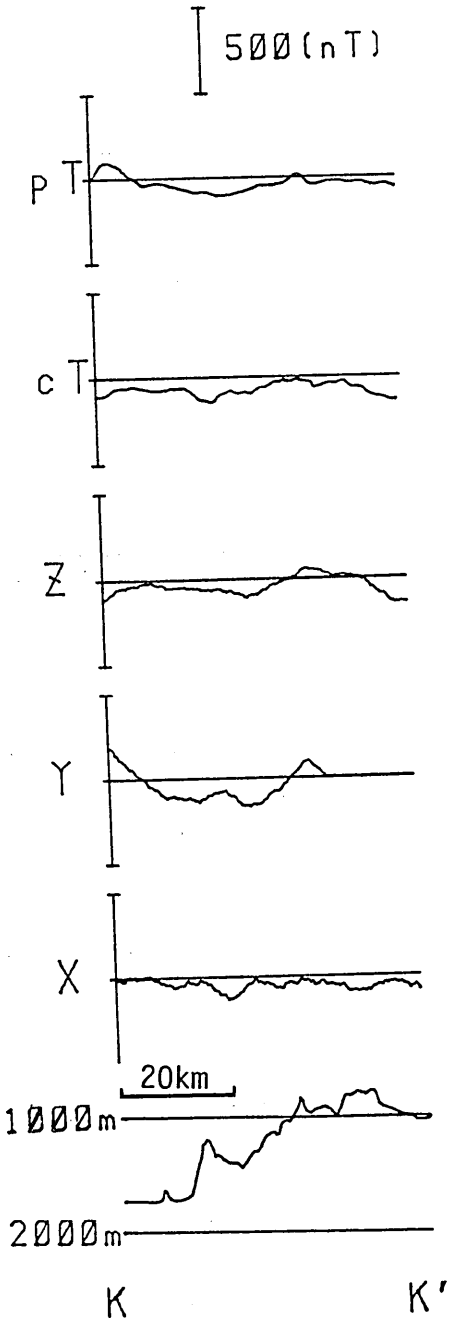

Fig. III-12. Magnetic and bathymetric profiles near Iheya-Deep.

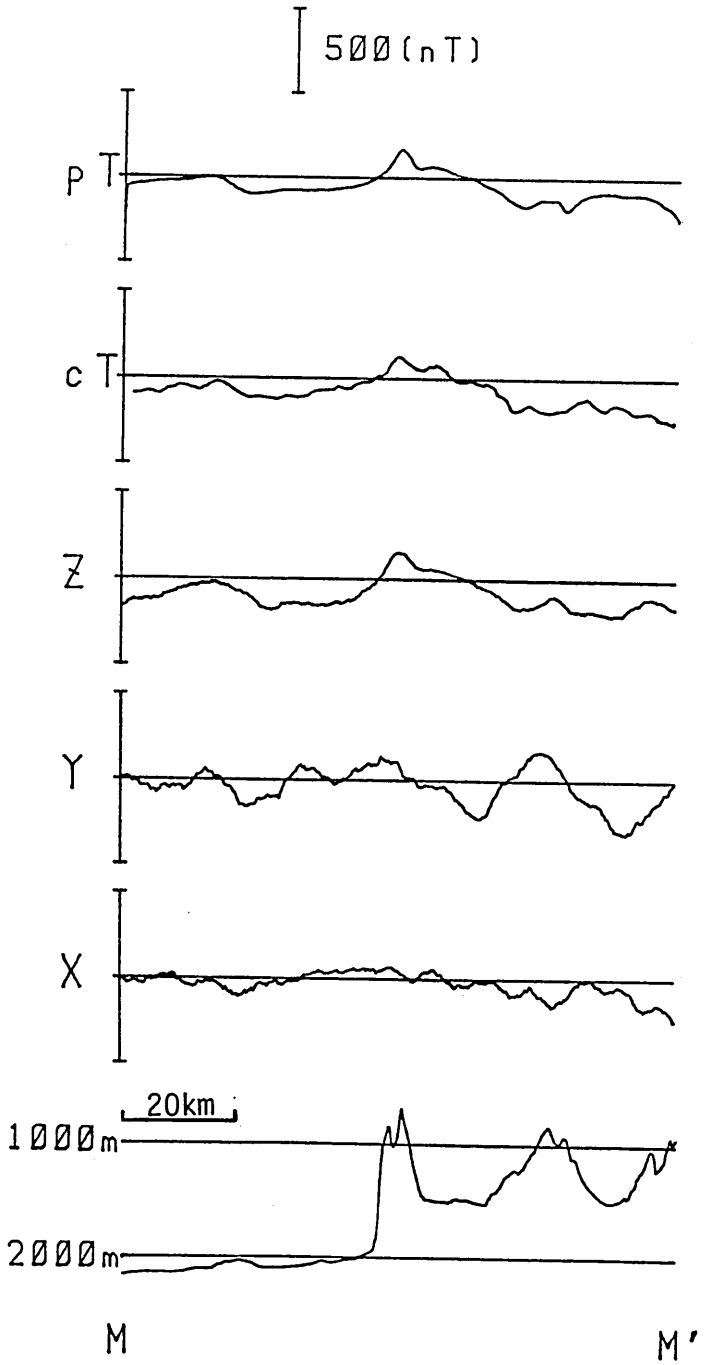

Fig. III-13. Magnetic and bathymetric profiles across the Miyako Basin and Kume Rises.

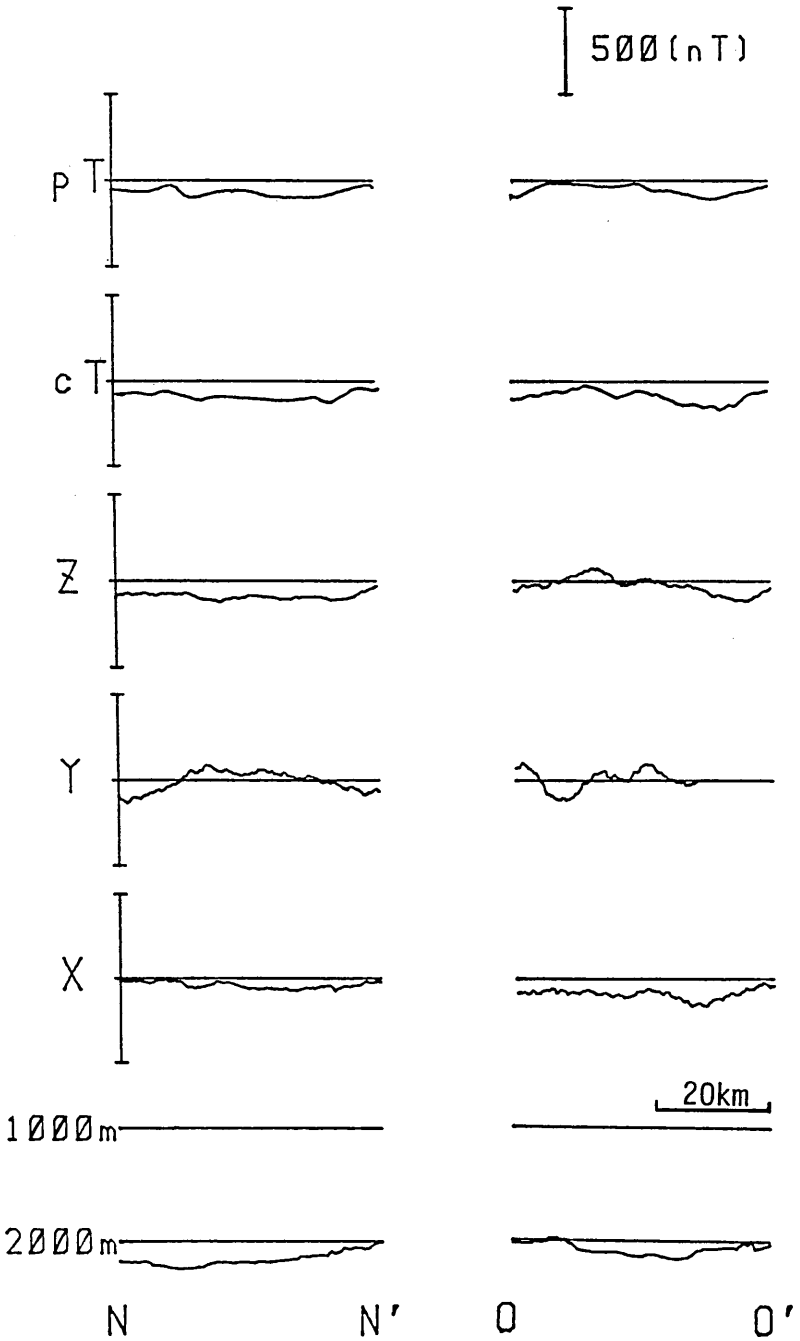

Fig. III-14. Magnetic and bathymetric profiles across the Miyako Basin.

127.5°E and 128°E. There is little change on each anomaly profile in spite of abrupt changes of bathymetry. Therefore, this is in contrast with the fact that the seamounts in the Iheya Deep have large anomalies, possibly reflecting the difference in their petrologic characters.

Profile M-M′ (Fig. III-13)

This line runs from the center of the Miyako Basin to Kume Island. The two uplifts on the bathymetric profile are The Fourth and The Third Kume Rises. Above the approximate 1000 m height of The Fourth Kume Rise, there are small anomalies with amplitudes of merely 150 nT on the total force, Z, and Y component anomaly profiles, which suggests very weak magnetization. The Third Kume Rise is almost non-magnetic.

Profile N-N′, O-O′ (Fig. III-14)

These lines cross the northern part of the Miyako Basin. Both the topography and magnetic anomalies are relatively subdued.

Profile Q-Q′ (Fig. III-15)

This line runs from the southernmost edge of the Kume Deep parallel to the trough axis. There are no anomalies.

Profile R-R′ (Fig. III-15)

This line crosses the Kume Deep and there are no anomalies. The Y component is omitted for the same reason as part of F-F′ (Fig. 7).

Profile S-S′ (Fig. III-16)

This line is an oblique crossing of the whole of the Kume Deep and the western part of the Iheya Deep. Anomalies are not notable.

Profile T-T′ (Fig. III-17)

This line also crosses the Iheya Deep. There are no large anomalies. The ridge seen in B-B′ (Fig. III-4) does not reach here.

Profile W-W′ (Fig. III-18)

This line runs from the southern side of the Iheya Deep to the Ie Basin. The large anomaly in the middle of Y component profile is due to the rapid change of ship's heading, so it is not real.

Profile X-X′ (Fig. III-19)

This line runs almost northward from the Okinawa Island to the north side of the Iheya-tai. The topographic features on the left half of the profile do not produce magnetic anomalies. The magnetic anomalies on

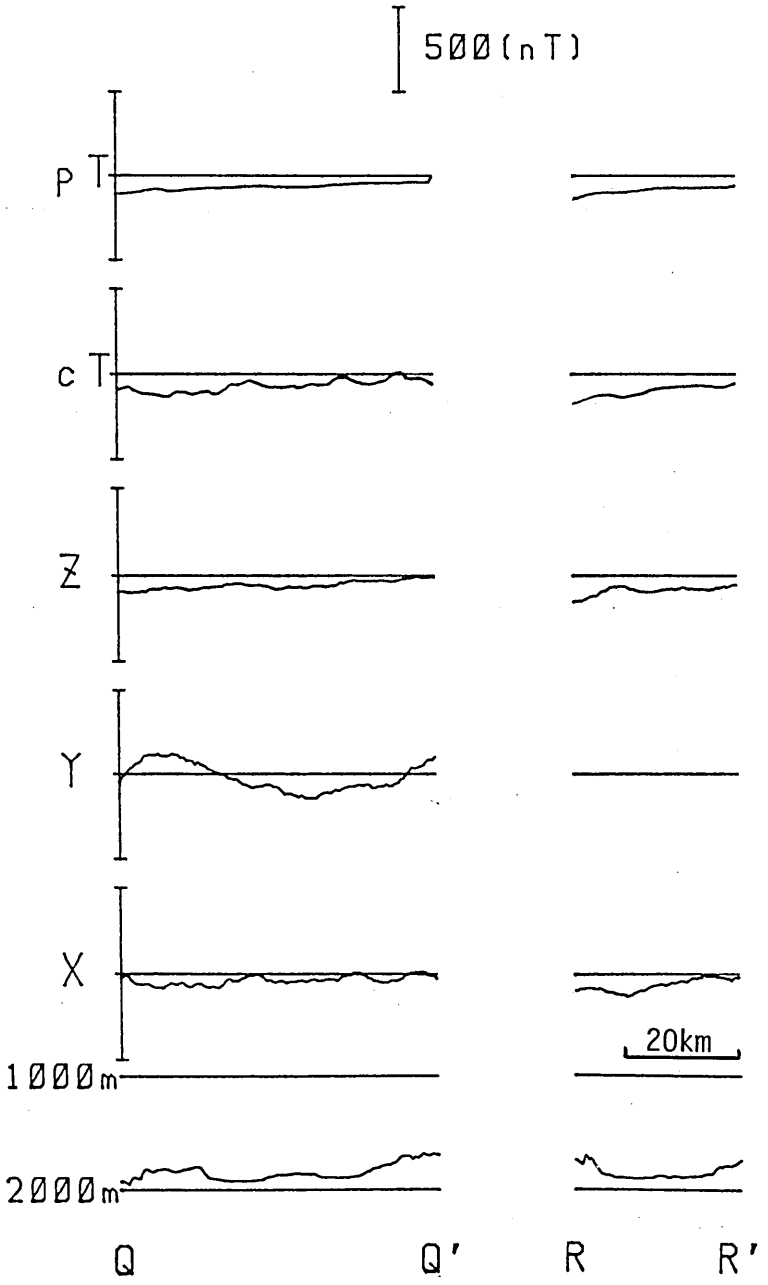

Fig. III-15. Magnetic and bathymetric profiles across the Kume Deep.

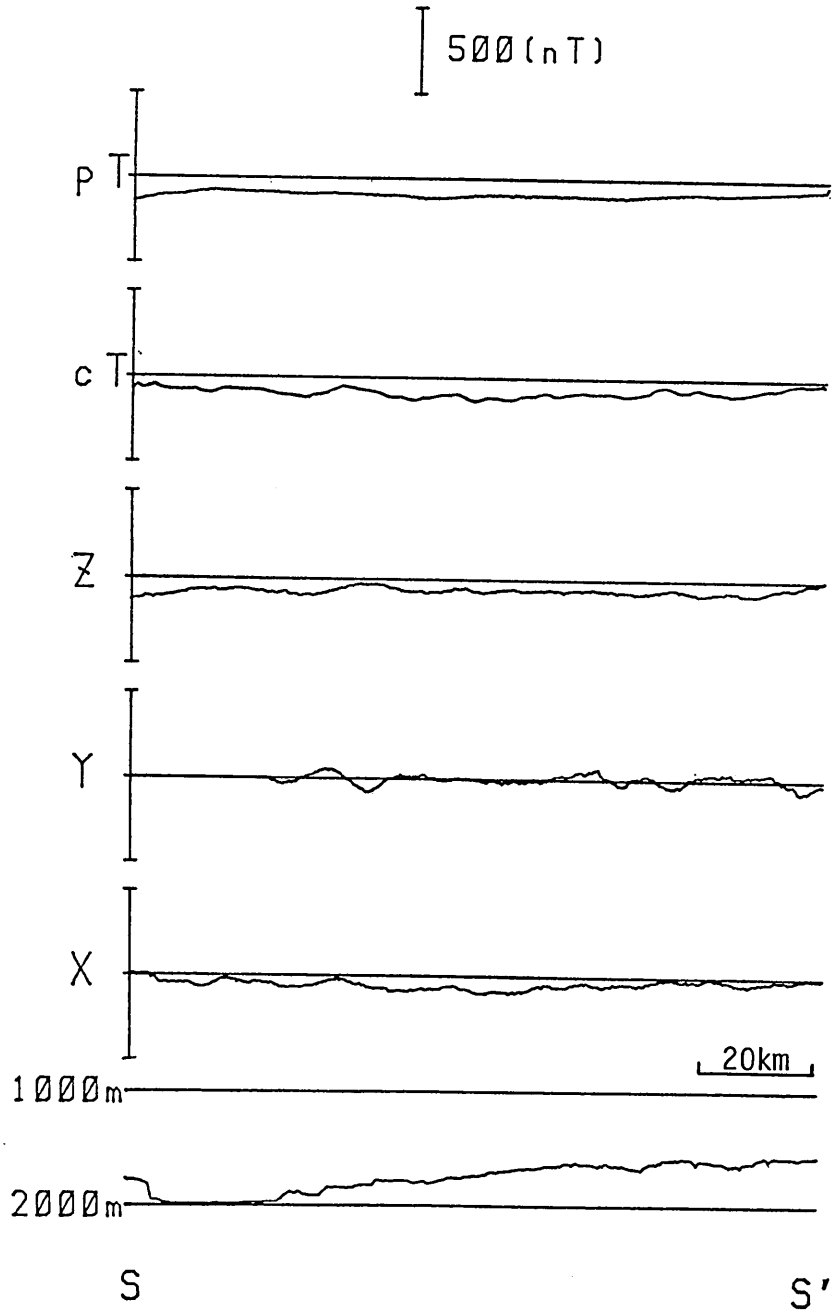

Fig. III-16. Magnetic and bathymetric profiles across the Kume Deep.

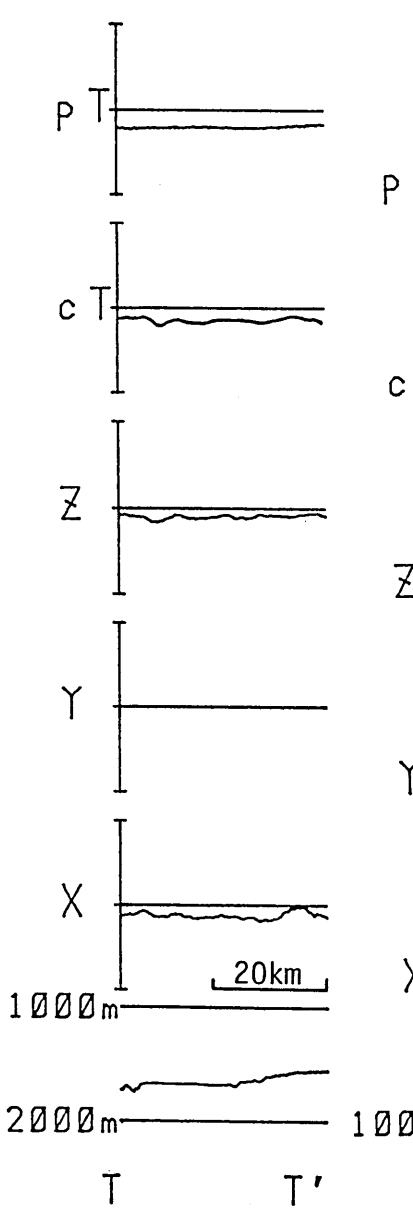

Fig. III-17. Magnetic and bathymetric profiles across the Iheya Deep.

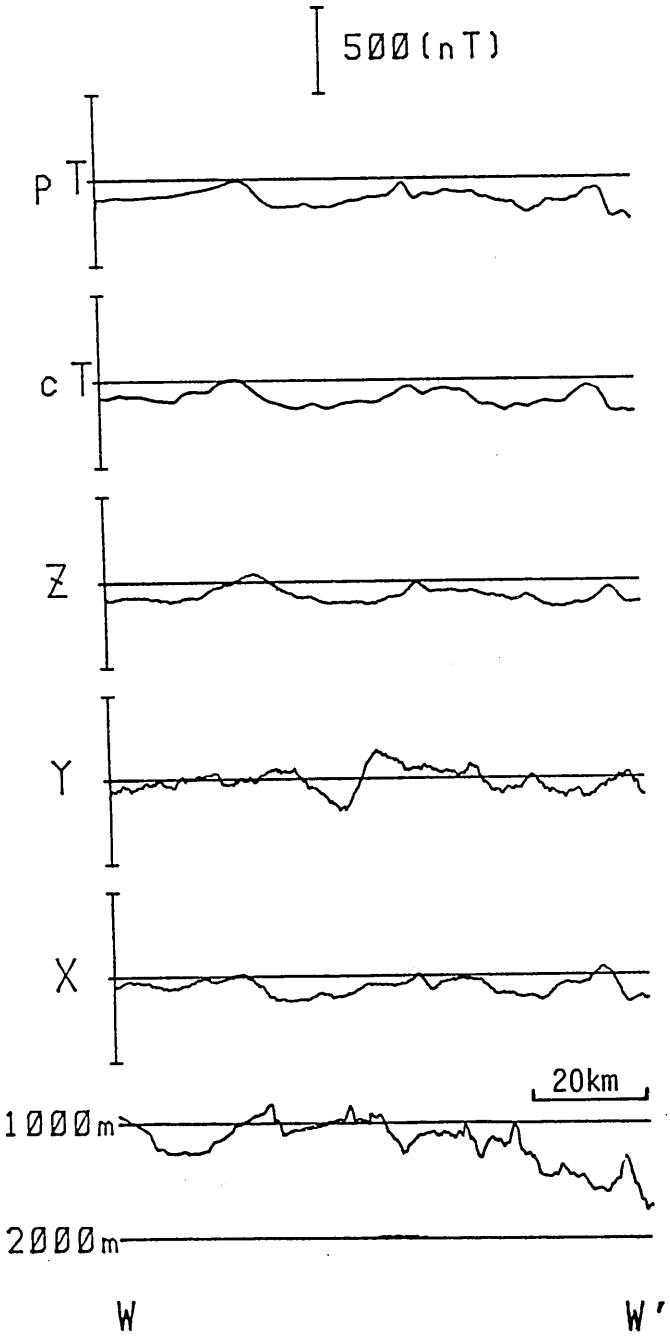

Fig. III-18. Magnetic and bathymetric profiles across the Ie Basin.

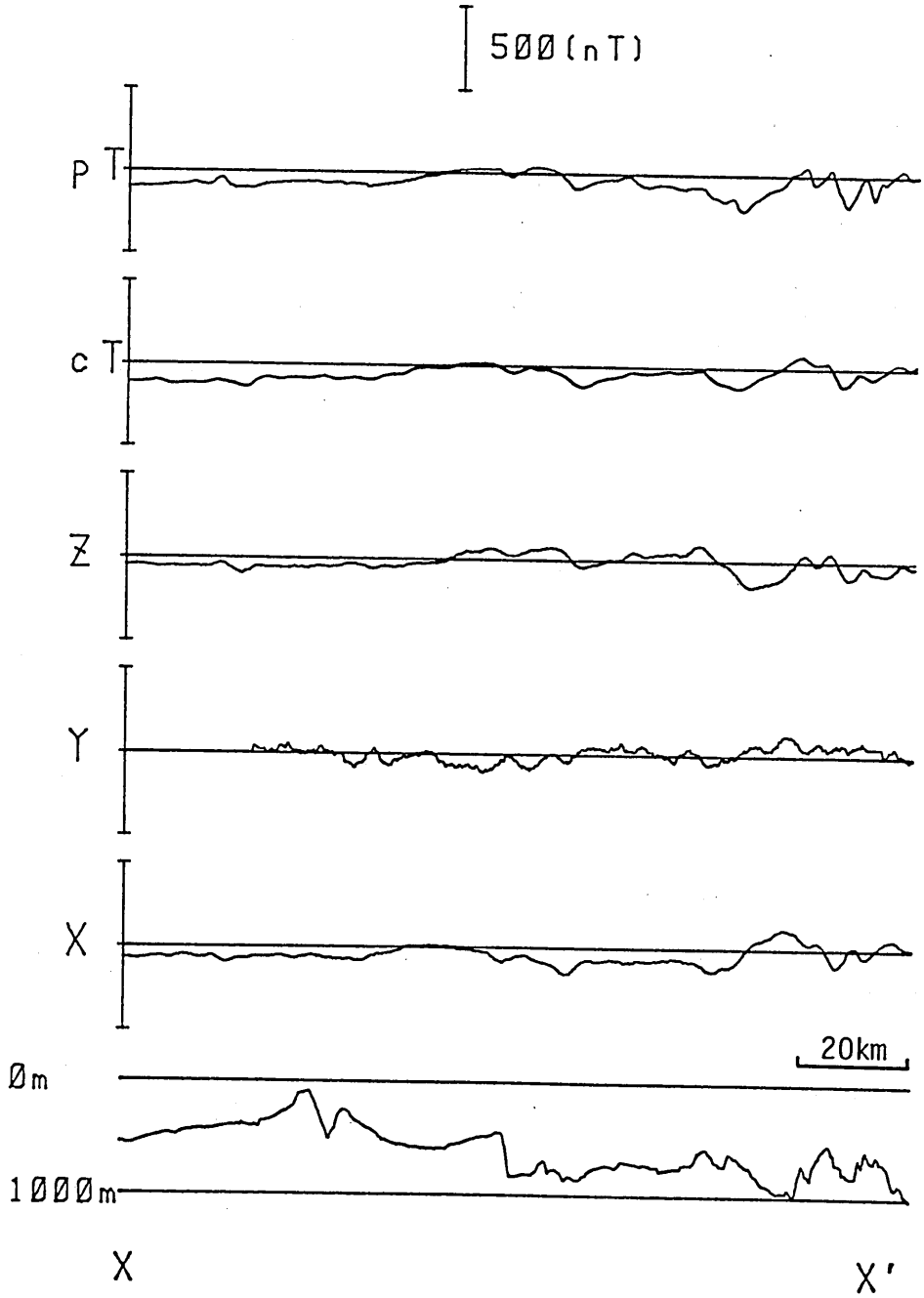

Fig. III-19. Magnetic and bathymetric profiles running from the Okinawa Island to Iwo-tai.

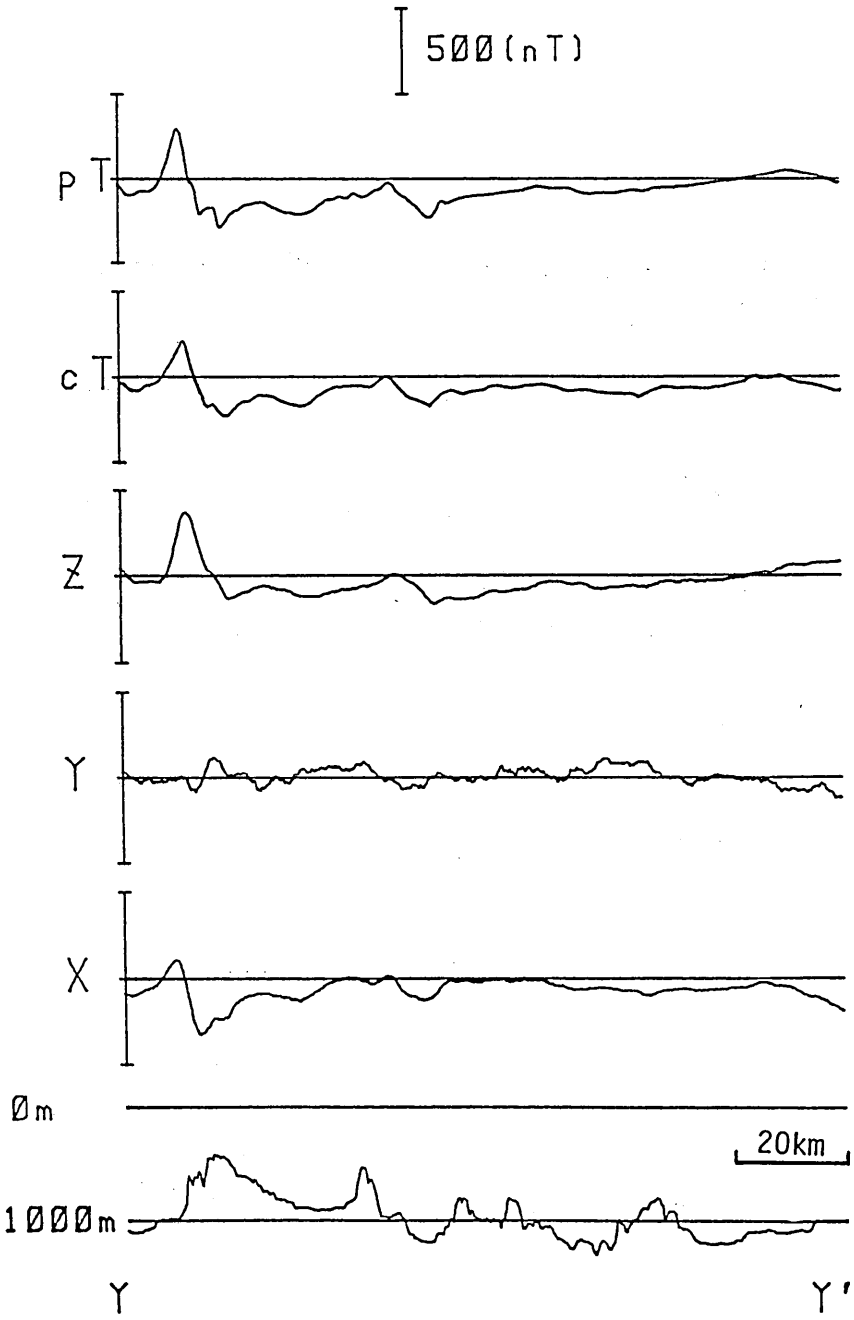

Fig. III-20 (a). Magnetic and bathymetric profiles running northward from Iwo-tai.

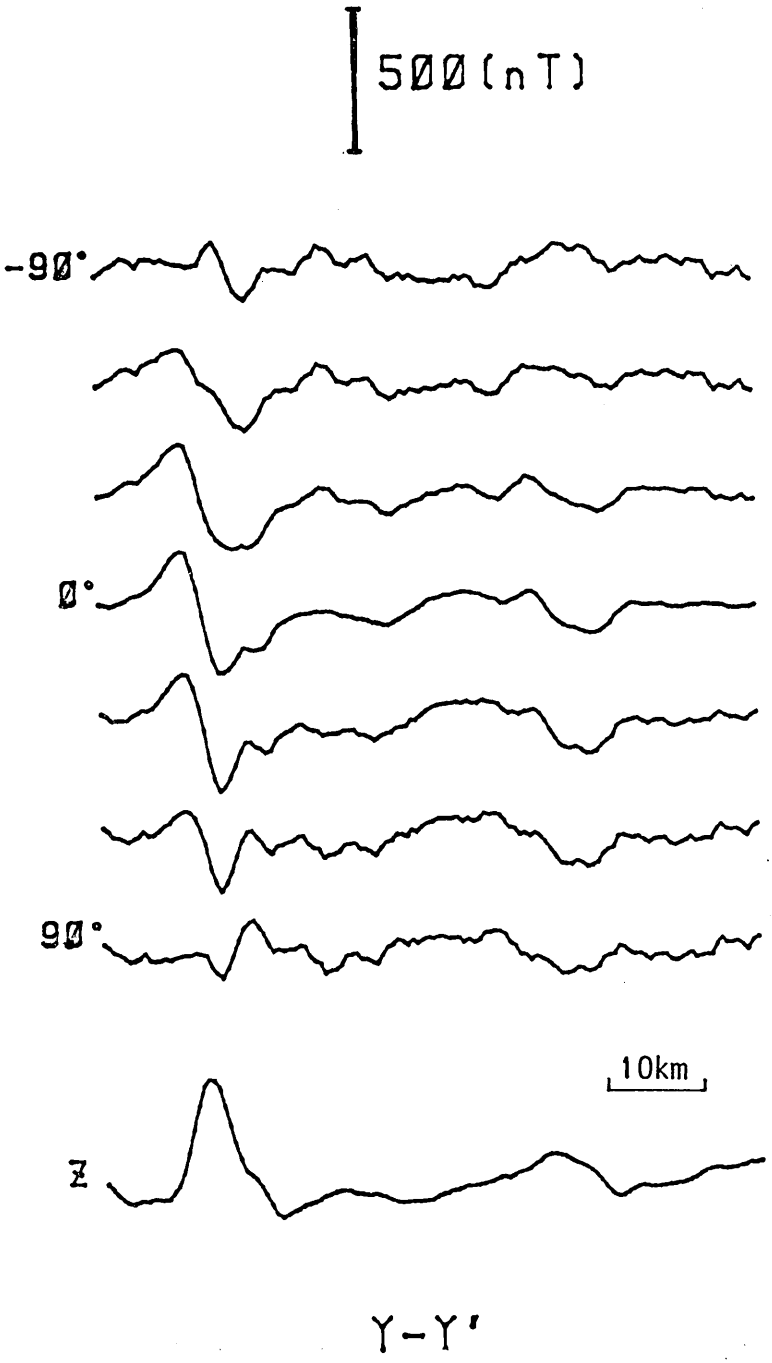

Fig. III-20 (b). Projections of the horizontal component anomaly in variable directions. The lowest profile shows Z component anomaly.

the right half of the profiles are associated with the rugged topographic features off Iheya Island. The Iheya-tai consists of the highs near the right edge of the bathymetric profile.

Profile Y-Y′ (Fig. III-20)

Fig. III-20 (a) shows profiles along the line Y-Y′ which is the northward extension of X-X′ and goes through the Iwo-tai which is the highest seamount on the left-hand side of the bathymetric profile. The Iwo-tai has large magnetic anomalies. From these anomalies it is clear that the Iwo-tai is normally magnetized. The right-hand side of the magnetic profile indicates that the seafloor has little magnetization.

Fig. III-20 (b). The projection in the direction of 80°E appears to have minimum amplitude of the horizontal component anomalies in the left half section of the profile. Throughout the section, the magnetic sources are elongated with the trend of 80°E.

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DELP 1984年度中部沖縄トラフ研究航海報告

III. 地磁気三成分測定

神戸大学理学部 北原康夫 伊勢崎修弘 片尾浩

DELP-84 航海で地磁気三成分測定を行った．目的は沖縄トラフ海底の持つ磁化に起因する地磁気異常を得ることである．地球磁場はベクトル量であるため，大きさと方向が同時に得られる地磁気測定を行なうのが望ましい．測定には船上三成分磁力計を用いた．地球磁場を三つの独立したセンサーで測定し，北向き・東向き・鉛直下向きの地磁気三成分異常を求めた．沖縄トラフ中部域周辺の 20 測線で地磁気三成分異常のプロファイルが得られた．沖縄トラフ内では伊平屋海凹周辺で，地形の高まりに対応した 300nT 以上の顕著な地磁気異常が観測された．それらは三成分異常から，N60°E から N85°E の走向を持つ二次元的磁化の分布によるものであることがわかった．その他のトラフ内では 100nT 以上の地磁気異常はほとんど得られなかった．

Components on the Following Data

1. Three (north, east, and downward) component anomalies and total intensity of geomagnetic field in nano-tesla merged with the sea depth every ten minutes.
2. 1 record (68 characters) includes the following data.

year	:	year of time of measurement	(I2)
month	:	month of time of measurement	(I3)
day	:	day of time of measurement	(I3)
hour	:	hour of time of measurement	(I3)
minute	:	minute of time of measurement	(I3)
x	:	north component anomaly	(I7)
y	:	east component anomaly	(I7)
z	:	downward component anomaly	(I7)
f	:	total intensity	(F7.1)
lat 1	:	degree of latitude	(I3)
lat 2	:	minute of latitude	(F5.2)
lon 1	:	degree of longitude	(I4)
lon 2	:	minute of longitude	(F5.2)
depth	:	sea depth in meters	(I6)

3. When data are not available the spaces are filled with "9"s.
4. Ship positions were fixed by LORAN-C (5970 and 9970 chains).

84	8	22	9	12	999999	999999	999999	45841.0	30	53.71	130	23.95		281
84	8	22	9	22	999999	999999	999999	45818.0	30	53.09	130	22.48		250
84	8	22	9	32	999999	999999	999999	45820.0	30	52.41	130	20.94		246
84	8	22	9	42	999999	999999	999999	45825.0	30	51.77	130	19.43		239
84	8	22	9	52	999999	999999	999999	45819.0	30	51.17	130	17.94		204
84	8	22	10	2	999999	999999	999999	45814.0	30	50.68	130	16.34		194
84	8	22	10	12	999999	999999	999999	45812.0	30	50.20	130	14.63		194
84	8	22	10	22	999999	999999	999999	45796.0	30	48.91	130	13.62		235
84	8	22	10	32	999999	999999	999999	45723.0	30	47.32	130	12.78		267
84	8	22	10	42	999999	999999	999999	45729.0	30	45.91	130	11.75		292
84	8	22	10	52	999999	999999	999999	45673.0	30	44.62	130	10.56		287
84	8	22	11	2	999999	999999	999999	45630.0	30	43.32	130	9.35		222
84	8	22	11	12	999999	999999	999999	45558.0	30	42.03	130	8.16		155
84	8	22	11	22	999999	999999	999999	45550.0	30	40.83	130	6.95		127
84	8	22	11	32	999999	999999	999999	45569.0	30	39.56	130	5.69		122
84	8	22	11	42	999999	999999	999999	45839.0	30	38.31	130	4.45		167
84	8	22	11	52	999999	999999	999999	45841.0	30	37.03	130	3.21		195
84	8	22	12	2	999999	999999	999999	45993.0	30	35.88	130	1.95		169
84	8	22	12	12	999999	999999	999999	46654.0	30	34.30	130	1.07		191
84	8	22	12	22	999999	999999	999999	45879.0	30	32.67	130	0.29		555
84	8	22	12	32	999999	999999	999999	45757.0	30	31.03	129	59.47		602
84	8	22	12	42	999999	999999	999999	45716.0	30	29.38	129	58.70		625
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84	8	22	20	59	-7	142	25	45357.0	29	14.89	129	6.93	339
84	8	22	21	10	-57	-120	-62	45247.0	29	13.26	129	5.68	798
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84	8	22	21	40	41	-146	-12	45226.0	29	8.84	129	2.39	884
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84	8	22	22	41	0	-21	-36	45201.0	28	59.53	128	55.16	907
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84	8	22	23	21	53	-108	-24	45241.0	28	53.40	128	50.17	808
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84	8	22	23	51	94	-160	-86	45167.0	28	48.86	128	46.22	868
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84	8	23	0	11	-5	-134	-122	45109.0	28	45.76	128	43.42	860
84	8	23	0	21	59	-87	-6	45237.0	28	44.39	128	42.30	810
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84	8	24	20	15	999999	999999	999999	44648.0	27	44.55	127	9.60	1539
84	8	24	20	25	999999	999999	999999	44764.0	27	45.45	127	9.65	1533
84	8	24	20	35	999999	999999	999999	44885.0	27	46.69	127	9.39	1470
84	8	24	20	45	999999	999999	999999	44929.0	27	48.02	127	9.36	1341
84	8	24	20	55	999999	999999	999999	44940.0	27	48.78	127	8.54	1279
84	8	24	21	10	999999	999999	999999	44966.0	27	49.40	127	6.85	1245
84	8	24	21	20	999999	999999	999999	44982.0	27	49.79	127	5.57	1259
84	8	24	21	30	999999	999999	999999	44994.0	27	50.00	127	4.19	1258
84	8	24	21	40	999999	999999	999999	45002.0	27	50.16	127	2.90	1266
84	8	24	21	50	999999	999999	999999	45008.0	27	50.41	127	1.73	1255
84	8	24	22	0	999999	999999	999999	45006.0	27	50.49	127	0.45	1249
84	8	24	22	10	999999	999999	999999	45006.0	27	50.70	126	59.21	1237
84	8	24	22	20	999999	999999	999999	44996.0	27	50.91	126	58.29	1229

84	8	24	22	30	999999	999999	999999	44981.0	27	51.09	126	56.86	1281
84	8	24	22	40	999999	999999	999999	44962.0	27	51.32	126	55.16	1280
84	8	24	22	50	999999	999999	999999	44954.0	27	51.08	126	53.95	1308
84	8	24	23	0	999999	999999	999999	44972.0	27	50.26	126	53.18	1317
84	8	24	23	10	999999	999999	999999	44986.0	27	49.33	126	52.09	1149
84	8	24	23	20	999999	999999	999999	44990.0	27	48.45	126	51.14	1240
84	8	24	23	30	999999	999999	999999	44908.0	27	47.53	126	50.31	1473
84	8	24	23	40	999999	999999	999999	44960.0	27	46.46	126	49.19	1507
84	8	24	23	50	999999	999999	999999	45009.0	27	45.73	126	48.29	1502
84	8	25	0	1	999999	999999	999999	45026.0	27	45.65	126	48.55	1503
84	8	25	0	11	-1	-42	-40	45126.0	27	44.76	126	48.68	1492
84	8	25	0	22	-26	128	-80	45050.0	27	42.74	126	49.31	1494
84	8	25	0	32	-40	156	-69	45005.0	27	41.34	126	49.85	1491
84	8	25	0	42	-82	24	-95	44957.0	27	39.88	126	50.94	1489
84	8	25	0	52	-119	-114	-142	44932.0	27	37.93	126	50.66	1479
84	8	25	1	2	-152	-136	-134	44879.0	27	36.47	126	50.96	1481
84	8	25	1	12	-120	-125	-87	44865.0	27	34.83	126	51.40	1487
84	8	25	1	22	-182	-51	-232	44789.0	27	32.98	126	51.74	1581
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84	8	25	2	12	999999	999999	999999	44787.0	27	24.87	126	53.66	1475
84	8	25	2	22	999999	999999	999999	44793.0	27	23.42	126	53.26	1473
84	8	25	2	33	999999	999999	999999	44792.0	27	22.73	126	51.23	1538
84	8	25	2	43	999999	999999	999999	44790.0	27	22.13	126	49.45	1579
84	8	25	2	53	999999	999999	999999	44783.0	27	21.38	126	47.44	1625
84	8	25	3	3	999999	999999	999999	44782.0	27	20.80	126	45.72	1653
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84	8	25	3	23	-65	68	-117	44760.0	27	18.35	126	43.80	1679
84	8	25	3	33	-55	29	-89	44752.0	27	16.89	126	43.11	1692
84	8	25	3	43	-33	-67	-83	44743.0	27	15.38	126	42.34	1726
84	8	25	3	53	-75	-55	-92	44731.0	27	13.91	126	41.60	1811
84	8	25	4	3	-79	-65	-106	44720.0	27	12.48	126	40.89	1833
84	8	25	4	13	-74	-13	-129	44712.0	27	10.99	126	40.16	1835
84	8	25	4	23	-41	-126	-133	44706.0	27	9.39	126	39.16	1836
84	8	25	4	34	-78	-106	-133	44698.0	27	7.74	126	38.31	1824
84	8	25	4	44	-70	-117	-149	44676.0	27	6.33	126	37.64	1833
84	8	25	4	54	-79	-148	-183	44642.0	27	4.85	126	36.89	1839
84	8	25	5	4	-141	-99	-192	44582.0	27	3.34	126	36.10	1841
84	8	25	5	14	-181	-43	-148	44560.0	27	1.87	126	35.37	1771
84	8	25	5	24	-102	-85	-92	44631.0	27	0.20	126	34.36	1828
84	8	25	5	34	-83	-25	-93	44610.0	26	58.71	126	33.61	1845
84	8	25	5	44	-99	-10	-134	44588.0	26	57.22	126	32.78	1852
84	8	25	5	55	-114	-80	-105	44577.0	26	55.57	126	31.94	1855
84	8	25	6	6	-66	-15	-85	44632.0	26	54.09	126	31.37	1867
84	8	25	6	16	-50	13	-104	44617.0	26	52.50	126	30.58	1876
84	8	25	6	26	-30	15	-93	44613.0	26	50.99	126	29.92	1895
84	8	25	6	36	-41	16	-99	44603.0	26	49.40	126	29.14	1886
84	8	25	6	46	-63	-24	-82	44585.0	26	47.89	126	28.51	1898
84	8	25	6	56	-67	-59	-76	44560.0	26	46.21	126	27.64	1907
84	8	25	7	6	-106	-32	-76	44547.0	26	44.64	126	26.94	1911
84	8	25	7	16	-85	-17	-93	44541.0	26	42.93	126	26.06	1904
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84	8	25	7	56	-107	-101	-117	44422.0	26	36.29	126	22.80	1629
84	8	25	8	6	-92	-83	-74	44461.0	26	34.64	126	22.01	1660
84	8	25	8	16	-87	-74	-78	44442.0	26	32.96	126	21.20	1497
84	8	25	8	26	999999	999999	999999	44438.0	26	31.28	126	20.39	1390
84	8	25	8	36	-48	11	-88	44424.0	26	29.98	126	19.09	1586
84	8	25	8	46	-118	-82	-89	44418.0	26	28.99	126	17.39	1613
84	8	25	8	56	-140	-20	-19	44466.0	26	27.89	126	15.59	1537
84	8	25	9	6	-17	76	112	44661.0	26	26.90	126	13.90	1369
84	8	25	9	16	-27	220	1	44519.0	26	25.87	126	12.15	1180
84	8	25	9	26	-82	98	-24	44415.0	26	24.94	126	10.56	1387
84	8	25	9	36	-89	-45	-5	44380.0	26	23.95	126	8.91	1480
84	8	25	9	46	-136	-74	-38	44376.0	26	22.85	126	7.17	1693
84	8	25	9	56	-103	-91	-30	44387.0	26	21.99	126	5.66	1919
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84	8	25	10	16	999999	999999	999999	99999.9	26	20.17	126	2.59	2057
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84	8	25	10	36	999999	999999	999999	99999.9	26	20.20	126	2.62	2057
84	8	25	10	46	999999	999999	999999	99999.9	26	20.20	126	2.65	2059
84	8	25	10	57	999999	999999	999999	44409.0	26	20.19	126	2.31	2068
84	8	25	11	7	999999	999999	999999	44428.0	26	21.38	126	1.33	2106
84	8	25	11	17	999999	999999	999999	44442.0	26	22.55	125	59.87	2096
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84	8	25	11	37	999999	999999	999999	44483.0	26	24.92	125	56.73	2020
84	8	25	11	47	999999	999999	999999	44517.0	26	26.19	125	55.19	1964
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84	8	25	12	17	999999	999999	999999	44651.0	26	29.76	125	50.09	1727
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84	8	25	14	41	999999	999999	999999	44590.0	26	38.17	126	1.56	1889
84	8	25	14	51	999999	999999	999999	44592.0	26	38.86	126	3.86	1903
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84	8	25	15	33	999999	999999	999999	99999.9	26	39.20	126	6.82	1909
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84	8	25	15	54	999999	999999	999999	44600.0	26	39.32	126	7.16	1904
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84	8	25	16	34	999999	999999	999999	44557.0	26	40.47	126	15.16	1914
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84	8	25	18	6	999999	999999	999999	99999.9	26	40.78	126	30.43	1689
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84	8	25	18	36	-79	999999	-27	44513.0	26	41.76	126	30.55	1762
84	8	25	18	46	-165	999999	-25	44494.0	26	43.41	126	31.10	1903
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84	8	25	19	6	-82	999999	-94	44524.0	26	46.73	126	32.21	1897
84	8	25	19	16	-51	13	-73	44571.0	26	48.38	126	32.73	1899
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84	8	25	19	56	-169	-10	-70	44570.0	26	55.02	126	35.10	1826
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84	8	26	2	11	999999	999999	999999	44887.0	27	30.59	126	43.78	1604
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84	8	26	7	57	999999	999999	999999	44884.0	27	36.79	127	15.63	1507
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84	8	26	8	47	999999	999999	999999	44874.0	27	39.69	127	25.40	1659
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84	8	26	22	10	-54	122	33	44997.0	27	37.50	127	2.11	1242
84	8	26	22	20	-79	35	-148	44800.0	27	39.00	127	1.48	1509
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84	8	26	22	40	999999	999999	999999	45102.0	27	41.90	127	0.01	1476
84	8	26	22	51	7	274	11	44941.0	27	41.05	126	59.27	1501
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84	8	26	23	11	-198	-27	193	44887.0	27	38.69	126	57.92	1339
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84	8	26	23	41	-10	-99	-27	45001.0	27	35.31	126	56.26	1549
84	8	26	23	51	-67	-35	-188	44831.0	27	34.20	126	55.71	1572
84	8	27	0	1	-302	-5	-201	44639.0	27	32.89	126	54.72	1639
84	8	27	0	11	-554	80	63	44554.0	27	31.75	126	54.14	1343
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84	8	27	0	52	-11	-180	-87	44875.0	27	27.02	126	51.12	1601
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84	8	27	4	42	-80	999999	-1	44660.0	27	0.65	126	35.78	1850
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84	8	27	6	52	999999	999999	999999	44643.0	27	7.73	126	44.26	1812
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84	8	27	7	22	999999	999999	999999	44702.0	27	12.32	126	48.16	1799
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84	8	30	13	5	999999	999999	999999	45025.0	27	41.52	127	32.20	1486
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84	8	30	18	10	999999	999999	999999	44810.0	27	36.48	127	18.43	1787
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84	8	30	18	52	999999	999999	999999	44837.0	27	37.94	127	20.17	1774
84	8	30	19	2	999999	999999	999999	44827.0	27	38.03	127	20.86	1781
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84	9	2	1	42	-88	999999	-79	44516.0	27	6.73	127	24.81	493
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84	9	2	18	34	999999	999999	999999	44202.0	26	25.38	126	43.50	317
84	9	2	18	45	999999	999999	999999	44159.0	26	24.56	126	41.32	550
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84	9	2	19	6	-156	-140	-105	44292.0	26	23.12	126	38.00	1218
84	9	2	19	16	-156	-223	-141	44326.0	26	22.21	126	36.23	1237
84	9	2	19	26	-44	-302	-201	44326.0	26	20.83	126	34.03	1458
84	9	2	19	37	-52	-176	-193	44336.0	26	20.51	126	32.68	1495

84	9	2	19	47	-13	-120	-180	44323.0	26	19.57	126	30.85	1364
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84	9	2	21	18	58	-36	63	44477.0	26	14.14	126	16.76	1498
84	9	2	21	29	-8	4	77	44472.0	26	13.51	126	15.06	1296
84	9	2	21	39	49	109	161	44581.0	26	12.39	126	13.01	746
84	9	2	21	49	46	141	24	44467.0	26	11.41	126	11.04	1013
84	9	2	22	0	54	76	-64	44394.0	26	10.74	126	9.24	1972
84	9	2	22	11	33	9	-131	44361.0	26	10.45	126	7.82	2023
84	9	2	22	22	27	16	-152	44347.0	26	9.82	126	6.12	2041
84	9	2	22	33	20	57	-139	44344.0	26	9.61	126	4.86	2068
84	9	2	22	44	-6	9	-143	44348.0	26	8.48	126	2.78	2088
84	9	2	22	55	-24	-103	-183	44340.0	26	7.40	126	0.78	2096
84	9	2	23	5	-71	-147	-126	44327.0	26	7.61	125	59.98	2076
84	9	2	23	15	-93	-108	-71	44338.0	26	6.99	125	58.53	2032
84	9	2	23	26	-36	18	-29	44404.0	26	6.13	125	56.78	2068
84	9	2	23	36	-30	39	-24	44425.0	26	5.04	125	54.97	2107
84	9	2	23	46	-33	-55	-51	44406.0	26	5.16	125	54.18	2122
84	9	2	23	56	9	-48	-89	44399.0	26	3.43	125	51.77	2144
84	9	3	0	7	5	-55	-124	44400.0	26	3.68	125	51.02	2139
84	9	3	0	17	-17	-12	-117	44394.0	26	2.64	125	49.23	2150
84	9	3	0	27	999999	999999	999999	44372.0	26	0.78	125	46.66	2169
84	9	3	0	38	999999	999999	999999	44379.0	26	2.29	125	46.61	2175
84	9	3	0	49	-18	-107	-75	44385.0	26	4.56	125	46.80	2178
84	9	3	1	0	-14	-44	-72	44421.0	26	7.78	125	47.89	2223
84	9	3	1	11	-54	59	-72	44408.0	26	9.65	125	47.63	2232
84	9	3	1	21	-20	68	-107	44420.0	26	11.53	125	47.49	2180
84	9	3	1	32	-48	36	-96	44464.0	26	12.85	125	46.54	2180
84	9	3	1	42	-64	59	-87	44471.0	26	14.37	125	46.07	2171
84	9	3	1	52	-59	47	-107	44460.0	26	15.99	125	45.61	2163
84	9	3	2	2	-59	23	-93	44473.0	26	18.90	125	46.57	2135
84	9	3	2	12	-43	-12	-98	44483.0	26	21.05	125	46.65	2079
84	9	3	2	22	-42	-37	-100	44527.0	26	22.44	125	46.05	2050
84	9	3	2	32	-19	-60	-43	44566.0	26	24.53	125	46.13	2020
84	9	3	2	42	999999	999999	999999	44585.0	26	27.14	125	46.62	1955
84	9	3	2	52	-48	999999	-54	44574.0	26	25.09	125	46.07	2038
84	9	3	3	2	-57	999999	-113	44549.0	26	25.14	125	49.12	2029
84	9	3	3	12	-85	999999	-98	44506.0	26	23.85	125	50.03	2055
84	9	3	3	22	-121	999999	-83	44472.0	26	21.17	125	49.61	2062
84	9	3	3	32	-151	-20	-36	44478.0	26	19.75	125	50.62	2114
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84	9	3	3	52	-76	53	-4	44468.0	26	17.15	125	52.96	2118
84	9	3	4	3	-75	44	-14	44488.0	26	15.45	125	53.36	2130
84	9	3	4	14	-93	23	2	44458.0	26	13.89	125	54.51	2095
84	9	3	4	24	-87	37	68	44452.0	26	12.28	125	55.32	2096
84	9	3	4	34	-79	-61	32	44445.0	26	11.00	125	56.42	2074
84	9	3	4	44	-70	-114	-4	44439.0	26	10.36	125	58.16	1977
84	9	3	4	55	-74	0	-22	44395.0	26	8.61	125	59.00	2015
84	9	3	5	5	-81	94	-41	44340.0	26	7.58	126	0.20	2025

84	9	3	5	15	999999	999999	999999	44336.0	26	6.54	126	1.56	1998
84	9	3	5	26	999999	999999	999999	44349.0	26	7.77	126	2.02	2020
84	9	3	5	36	999999	999999	999999	44385.0	26	9.60	126	1.82	1972
84	9	3	5	46	-44	999999	-59	44385.0	26	11.36	126	1.58	2063
84	9	3	5	57	-33	999999	-11	44393.0	26	12.89	126	1.28	2074
84	9	3	6	7	-54	999999	-14	44403.0	26	15.46	126	1.72	2141
84	9	3	6	17	-55	999999	-34	44403.0	26	16.98	126	1.27	2143
84	9	3	6	27	-69	999999	-40	44421.0	26	18.42	126	0.70	2150
84	9	3	6	37	-68	999999	-8	44447.0	26	20.31	126	0.70	2191
84	9	3	6	47	-80	999999	-25	44461.0	26	22.20	126	0.45	2189
84	9	3	6	58	999999	999999	999999	44465.0	26	23.98	126	0.55	2159
84	9	3	7	8	999999	999999	999999	44470.0	26	23.32	125	59.90	2199
84	9	3	7	18	999999	999999	999999	44453.0	26	22.30	125	59.35	2233
84	9	3	7	28	999999	999999	999999	44443.0	26	20.42	125	57.90	2209
84	9	3	7	38	999999	999999	999999	44442.0	26	19.62	125	57.63	2184
84	9	3	7	48	999999	999999	999999	44441.0	26	18.01	125	56.50	2168
84	9	3	18	2	999999	999999	999999	44467.0	26	22.49	125	59.69	2105
84	9	3	18	12	999999	999999	999999	44479.0	26	24.15	125	59.74	2028
84	9	3	18	22	999999	999999	999999	44492.0	26	26.09	125	59.79	1897
84	9	3	18	32	999999	999999	999999	44502.0	26	27.82	125	59.65	1831
84	9	3	18	42	999999	999999	999999	44504.0	26	29.43	125	59.29	1924
84	9	3	18	52	-38	32	-97	44521.0	26	31.46	126	0.89	1904
84	9	3	19	2	-79	121	-79	44558.0	26	32.84	126	1.81	1822
84	9	3	19	12	-76	79	-79	44562.0	26	34.79	126	3.41	1815
84	9	3	19	22	-80	19	-64	44586.0	26	36.37	126	4.64	1910
84	9	3	19	32	-21	-58	-46	44601.0	26	37.71	126	5.53	1924
84	9	3	19	42	-42	-66	-68	44617.0	26	39.78	126	7.21	1877
84	9	3	19	52	-35	-134	-67	44621.0	26	41.71	126	8.84	1864
84	9	3	20	3	-29	-111	-61	44637.0	26	43.38	126	10.32	1894
84	9	3	20	13	7	-61	-29	44656.0	26	44.43	126	10.83	1871
84	9	3	20	23	-50	-60	-30	44662.0	26	45.74	126	12.03	1783
84	9	3	20	33	18	32	-7	44670.0	26	47.97	126	14.15	1725
84	9	3	20	43	999999	999999	999999	44678.0	26	49.78	126	15.75	1675
84	9	3	20	53	999999	999999	999999	44666.0	26	49.82	126	16.43	1734
84	9	3	21	3	-23	999999	-68	44651.0	26	47.74	126	16.28	1790
84	9	3	21	14	-22	999999	-82	44630.0	26	45.94	126	16.37	1875
84	9	3	21	24	-42	999999	-77	44615.0	26	44.26	126	16.54	1895
84	9	3	21	35	-62	999999	-93	44592.0	26	42.60	126	17.05	1880
84	9	3	21	45	-104	999999	-80	44563.0	26	40.92	126	17.30	1902
84	9	3	21	55	-107	999999	-69	44537.0	26	38.68	126	16.81	1895
84	9	3	22	5	-78	999999	-123	44521.0	26	37.74	126	17.83	1754
84	9	3	22	15	999999	999999	999999	44482.0	26	35.52	126	17.37	1731
84	9	3	22	25	999999	999999	999999	44486.0	26	34.09	126	16.89	1715
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84	9	3	22	45	-41	999999	-104	44538.0	26	38.09	126	18.88	1954
84	9	3	22	56	-45	999999	-83	44549.0	26	40.01	126	19.67	1987
84	9	3	23	6	-57	999999	-68	44575.0	26	42.36	126	21.12	1985
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84	9	3	23	26	-41	999999	-67	44591.0	26	45.38	126	21.84	1971
84	9	3	23	37	-55	-19	-85	44603.0	26	47.60	126	22.97	1968
84	9	3	23	47	-63	-9	-98	44610.0	26	49.55	126	23.89	1890
84	9	3	23	57	-40	47	-86	44630.0	26	51.47	126	24.83	1910
84	9	4	0	8	-22	5	-47	44642.0	26	53.44	126	25.64	1840
84	9	4	0	18	-64	-80	-33	44651.0	26	55.34	126	26.46	1822
84	9	4	0	28	-88	5	-53	44661.0	26	57.04	126	27.03	1787

84	9	4	0	38	-74	18	-68	44666.0	26	58.98	126	27.98	1778
84	9	4	0	48	-74	7	-72	44673.0	27	0.99	126	29.02	1802
84	9	4	0	58	-56	6	-52	44694.0	27	2.95	126	29.80	1747
84	9	4	1	8	-97	-4	-68	44716.0	27	4.74	126	30.46	1735
84	9	4	1	18	-88	-18	-57	44733.0	27	6.67	126	31.26	1703
84	9	4	1	28	-89	-13	-64	44740.0	27	8.82	126	32.40	1678
84	9	4	1	38	-41	1	-60	44760.0	27	10.49	126	32.71	1664
84	9	4	1	48	-57	18	-61	44774.0	27	12.39	126	33.55	1643
84	9	4	1	59	-44	48	-48	44782.0	27	14.66	126	34.77	1628
84	9	4	2	9	-35	-7	-66	44794.0	27	16.53	126	35.34	1625
84	9	4	2	19	-48	5	-75	44818.0	27	18.32	126	35.72	1661
84	9	4	2	29	-23	-10	-65	44841.0	27	20.21	126	36.26	1622
84	9	4	2	39	-23	-41	-54	44859.0	27	21.97	126	36.59	1594
84	9	4	2	49	-21	19	-86	44878.0	27	24.07	126	37.44	1631
84	9	4	2	59	-25	31	-62	44890.0	27	26.04	126	37.96	1616
84	9	4	3	9	-46	26	-83	44903.0	27	28.01	126	38.48	1655
84	9	4	3	19	-27	39	-58	44925.0	27	29.93	126	38.86	1576
84	9	4	3	29	-21	-24	-45	44945.0	27	32.13	126	39.76	1573
84	9	4	3	39	-6	-42	-16	44965.0	27	34.17	126	40.28	1568
84	9	4	3	50	999999	999999	999999	44983.0	27	36.42	126	40.94	1552
84	9	4	4	0	-60	999999	-37	44969.0	27	35.92	126	41.48	1554
84	9	4	4	10	-15	999999	-36	44945.0	27	34.31	126	41.33	1561
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84	9	4	4	30	-88	999999	-41	44904.0	27	31.46	126	41.81	1610
84	9	4	4	40	-68	999999	-55	44889.0	27	30.05	126	42.05	1649
84	9	4	4	50	-62	999999	-44	44878.0	27	28.53	126	42.09	1691
84	9	4	5	0	-62	999999	-50	44865.0	27	26.91	126	42.02	1683
84	9	4	5	11	-76	999999	-60	44854.0	27	25.43	126	42.63	1673
84	9	4	5	21	-50	999999	-37	44832.0	27	23.88	126	42.69	1674
84	9	4	5	31	-63	999999	-78	44817.0	27	22.38	126	42.83	1670
84	9	4	5	41	-29	999999	-47	44804.0	27	20.99	126	43.25	1677
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84	9	4	6	1	999999	999999	999999	44771.0	27	17.85	126	43.33	1709
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84	9	4	6	21	-110	999999	-34	44791.0	27	19.90	126	45.91	1722
84	9	4	6	31	-100	999999	-83	44803.0	27	21.46	126	47.03	1699
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84	9	4	7	11	103	999999	125	45051.0	27	28.06	126	51.81	1733
84	9	4	7	21	999999	999999	999999	45194.0	27	29.83	126	53.26	1759
84	9	4	7	31	3	999999	142	45038.0	27	30.86	126	54.81	1270
84	9	4	7	41	-6	999999	-7	44890.0	27	31.79	126	56.94	1121
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84	9	4	8	1	9	999999	-88	44864.0	27	33.36	127	0.64	1323
84	9	4	8	11	-72	999999	-229	44760.0	27	34.15	127	2.58	1601
84	9	4	8	21	999999	999999	999999	44798.0	27	34.91	127	4.43	1734
84	9	5	1	31	-142	-88	-126	44707.0	27	34.14	127	8.90	1754
84	9	5	1	41	-157	26	-105	44688.0	27	33.25	127	9.83	1493
84	9	5	1	51	-21	-27	-44	44843.0	27	31.88	127	10.31	1498
84	9	5	2	1	26	-96	-120	44794.0	27	30.52	127	10.75	1585
84	9	5	2	12	-45	-62	-133	44737.0	27	29.06	127	11.29	1481
84	9	5	2	22	-43	-95	-147	44734.0	27	27.63	127	11.58	1459
84	9	5	2	32	-102	-65	-131	44661.0	27	26.40	127	12.16	1450
84	9	5	2	42	-126	21	-78	44666.0	27	25.19	127	12.67	1394

84	9	5	2	52	-123	-53	-114	44688.0	27	23.73	127	12.62	1254
84	9	5	3	2	-105	-89	-91	44699.0	27	22.66	127	13.71	1182
84	9	5	3	12	-76	-22	-73	44717.0	27	21.08	127	13.68	1134
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84	9	5	3	42	-35	38	-56	44663.0	27	16.63	127	14.46	1091
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84	9	5	4	52	-122	-128	-122	44488.0	27	6.93	127	18.11	972
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84	9	5	5	53	16	-10	0	44543.0	26	58.36	127	20.78	989
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84	9	5	6	23	-24	-1	-93	44439.0	26	54.29	127	22.33	1258
84	9	5	6	33	-66	-25	-113	44418.0	26	52.97	127	22.83	1247
84	9	5	6	43	-68	-10	-93	44397.0	26	51.59	127	23.22	1263
84	9	5	6	53	-37	-20	-87	44377.0	26	50.10	127	23.44	1201
84	9	5	7	4	-34	-41	-87	44370.0	26	48.57	127	23.89	1019
84	9	5	7	15	-55	-65	-99	44348.0	26	47.14	127	24.57	942
84	9	6	13	32	999999	999999	999999	44060.0	26	15.75	127	38.34	71
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84	9	6	13	53	999999	999999	999999	44069.0	26	17.93	127	38.21	92
84	9	6	14	3	999999	999999	999999	44076.0	26	20.04	127	38.55	150
84	9	6	14	13	999999	999999	999999	44089.0	26	21.20	127	38.59	345
84	9	6	14	24	999999	999999	999999	44096.0	26	22.73	127	38.75	277
84	9	6	14	34	999999	999999	999999	44103.0	26	24.29	127	39.00	280
84	9	6	14	45	999999	999999	999999	44114.0	26	24.74	127	38.42	398
84	9	6	14	56	999999	999999	999999	44124.0	26	27.17	127	39.03	537
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84	9	6	15	17	-69	999999	-44	44156.0	26	29.79	127	39.09	529
84	9	6	15	28	-55	999999	-54	44177.0	26	31.10	127	39.07	484
84	9	6	15	38	-60	999999	-52	44194.0	26	32.64	127	39.27	470
84	9	6	15	48	-55	999999	-50	44223.0	26	34.18	127	39.41	436
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84	9	6	16	31	-57	41	-48	44252.0	26	40.36	127	39.72	396
84	9	6	16	41	-59	14	-54	44281.0	26	41.82	127	39.87	352
84	9	6	16	51	-55	29	-55	44301.0	26	43.33	127	40.09	294
84	9	6	17	1	-58	-4	-50	44315.0	26	44.78	127	40.45	205
84	9	6	17	11	-52	-5	-43	44325.0	26	45.85	127	40.24	90
84	9	6	17	21	-65	1	-47	44335.0	26	47.47	127	40.87	415
84	9	6	17	32	-71	-55	-30	44343.0	26	48.62	127	40.49	262
84	9	6	17	42	-78	-54	-41	44344.0	26	50.08	127	40.86	349
84	9	6	17	53	-40	-1	-44	44360.0	26	51.49	127	40.99	431
84	9	6	18	3	-30	-41	-47	44384.0	26	52.80	127	41.12	528
84	9	6	18	14	8	1	-29	44419.0	26	54.20	127	41.22	560

84	9	6	18	25	13	15	-23	44453.0	26	55.76	127	41.61	585
84	9	6	18	35	3	-45	-14	44481.0	26	57.14	127	41.81	585
84	9	6	18	46	-9	-62	33	44511.0	26	58.68	127	42.04	550
84	9	6	18	57	-19	-69	47	44530.0	27	0.25	127	42.25	510
84	9	6	19	8	-45	-92	66	44542.0	27	1.94	127	42.92	479
84	9	6	19	18	-73	-7	27	44509.0	27	3.31	127	43.20	444
84	9	6	19	28	-49	-79	44	44561.0	27	4.58	127	42.92	826
84	9	6	19	38	-75	-66	65	44586.0	27	6.00	127	43.32	816
84	9	6	19	48	-102	-2	72	44574.0	27	7.35	127	43.31	745
84	9	6	19	58	-153	-47	18	44498.0	27	8.79	127	43.70	822
84	9	6	20	8	-83	38	-38	44517.0	27	10.09	127	43.56	857
84	9	6	20	18	-81	41	-15	44560.0	27	11.50	127	43.81	764
84	9	6	20	28	-67	43	3	44577.0	27	12.99	127	44.09	731
84	9	6	20	38	-83	27	44	44600.0	27	14.47	127	44.45	695
84	9	6	20	48	-75	56	24	44556.0	27	15.78	127	44.41	723
84	9	6	20	58	-74	10	39	44580.0	27	17.25	127	44.74	744
84	9	6	21	8	-55	-36	47	44575.0	27	18.66	127	45.17	761
84	9	6	21	18	-71	40	63	44591.0	27	20.21	127	46.00	721
84	9	6	21	28	-98	-33	79	44569.0	27	21.51	127	45.77	609
84	9	6	21	38	-124	-45	-4	44528.0	27	23.04	127	46.50	678
84	9	6	21	48	-100	-11	-70	44508.0	27	24.58	127	47.14	612
84	9	6	21	58	2	55	-152	44551.0	27	26.03	127	47.29	723
84	9	6	22	8	58	42	-130	44624.0	27	27.47	127	47.55	865
84	9	6	22	18	109	102	-102	44674.0	27	29.01	127	48.30	949
84	9	6	22	28	107	110	-4	44765.0	27	30.47	127	48.68	954
84	9	6	22	38	33	50	14	44710.0	27	31.92	127	48.89	791
84	9	6	22	48	18	55	42	44796.0	27	33.39	127	49.62	587
84	9	6	22	58	-94	59	-52	44627.0	27	34.77	127	49.75	697
84	9	6	23	9	17	65	-56	44747.0	27	36.46	127	50.61	816
84	9	6	23	19	999999	999999	999999	44665.0	27	37.90	127	50.93	655
84	9	6	23	29	52	9	-69	44796.0	27	39.37	127	51.24	702
84	9	6	23	40	33	21	-7	44853.0	27	40.93	127	52.29	895
84	9	6	23	50	999999	999999	999999	44855.0	27	42.61	127	52.70	1056
84	9	7	0	0	999999	999999	999999	44835.0	27	44.21	127	53.28	1071
84	9	7	0	10	999999	999999	999999	44766.0	27	45.71	127	53.40	1101
84	9	7	0	20	999999	999999	999999	44801.0	27	47.22	127	53.61	1010
84	9	7	0	30	999999	999999	999999	44907.0	27	48.73	127	53.43	981
84	9	7	0	40	999999	999999	999999	45196.0	27	50.32	127	53.93	676
84	9	7	0	50	999999	999999	999999	44871.0	27	51.85	127	54.32	695
84	9	7	1	0	999999	999999	999999	44756.0	27	53.36	127	54.48	438
84	9	7	1	10	999999	999999	999999	44676.0	27	54.87	127	54.94	563
84	9	7	1	20	999999	999999	999999	44773.0	27	56.41	127	55.63	646
84	9	7	1	30	999999	999999	999999	44818.0	27	57.92	127	55.84	742
84	9	7	1	40	999999	999999	999999	44808.0	27	59.76	127	56.45	818
84	9	7	1	50	999999	999999	999999	44783.0	28	1.29	127	56.64	890
84	9	7	2	0	999999	999999	999999	44787.0	28	2.47	127	57.04	907
84	9	7	2	10	999999	999999	999999	44843.0	28	4.24	127	57.53	907
84	9	7	2	20	999999	999999	999999	44897.0	28	5.51	127	57.72	853
84	9	7	2	30	999999	999999	999999	44926.0	28	7.08	127	58.37	533
84	9	7	2	40	999999	999999	999999	44935.0	28	8.34	127	58.81	872
84	9	7	2	50	999999	999999	999999	44998.0	28	9.82	127	59.25	953
84	9	7	3	0	999999	999999	999999	44989.0	28	10.91	127	59.87	1124
84	9	7	3	10	999999	999999	999999	44926.0	28	12.23	128	0.26	1190
84	9	7	3	20	999999	999999	999999	44851.0	28	13.55	128	0.62	1120
84	9	7	3	30	999999	999999	999999	44955.0	28	14.93	128	1.38	837

84	9	7	3	40	999999	999999	999999	44984.0	28	16.32	128	1.95	918
84	9	7	3	50	999999	999999	999999	45013.0	28	17.65	128	2.17	998
84	9	7	4	0	999999	999999	999999	45031.0	28	19.04	128	2.74	978
84	9	7	4	10	999999	999999	999999	45053.0	28	20.41	128	3.24	891
84	9	7	4	20	999999	999999	999999	45078.0	28	21.82	128	3.83	1011
84	9	7	4	30	999999	999999	999999	45111.0	28	23.26	128	4.24	1062
84	9	7	4	40	999999	999999	999999	45110.0	28	24.68	128	4.54	1198
84	9	7	4	50	999999	999999	999999	45122.0	28	26.10	128	4.92	1175
84	9	7	5	0	999999	999999	999999	45103.0	28	27.56	128	5.54	1263
84	9	7	5	10	999999	999999	999999	45117.0	28	28.98	128	5.89	1214
84	9	7	5	20	999999	999999	999999	45128.0	28	30.44	128	6.19	1059
84	9	7	5	30	999999	999999	999999	45160.0	28	31.89	128	6.49	888
84	9	7	5	40	999999	999999	999999	45168.0	28	33.31	128	6.63	810
84	9	7	5	50	999999	999999	999999	45196.0	28	34.76	128	7.12	932
84	9	7	6	0	999999	999999	999999	45213.0	28	36.21	128	7.49	1118
84	9	7	6	10	999999	999999	999999	45234.0	28	37.64	128	7.55	1196
84	9	7	6	20	999999	999999	999999	45260.0	28	39.07	128	7.90	1197
84	9	7	6	30	999999	999999	999999	45284.0	28	40.47	128	8.21	1169
84	9	7	6	40	999999	999999	999999	45307.0	28	41.90	128	8.38	1099
84	9	7	6	50	999999	999999	999999	45337.0	28	43.32	128	8.50	1073
84	9	7	7	0	999999	999999	999999	45365.0	28	44.73	128	8.73	1104
84	9	7	7	11	999999	999999	999999	45397.0	28	46.25	128	8.69	1073
84	9	7	7	21	999999	999999	999999	45398.0	28	47.65	128	8.89	990
84	9	7	7	31	999999	999999	999999	45399.0	28	49.05	128	9.03	988
84	9	7	7	41	999999	999999	999999	45372.0	28	50.49	128	9.37	999
84	9	7	7	51	999999	999999	999999	45301.0	28	51.77	128	8.03	1036
84	9	7	8	1	999999	999999	999999	45273.0	28	51.88	127	56.03	1075
84	9	7	8	11	999999	999999	999999	45282.0	28	50.69	127	37.40	1084
84	9	7	8	21	999999	999999	999999	45292.0	99	99.99	999	99.99	1064
84	9	7	8	31	999999	999999	999999	45300.0	29	41.29	127	30.70	1066
84	9	7	8	43	999999	999999	999999	45308.0	29	23.44	127	50.23	1075
84	9	7	8	54	999999	999999	999999	45335.0	28	53.00	128	18.45	1080
84	9	7	9	4	999999	999999	999999	45349.0	28	55.67	128	17.88	1094
84	9	7	11	15	999999	999999	999999	45570.0	29	21.71	128	20.84	1082
84	9	7	11	25	-10	-87	91	45579.0	29	23.40	128	21.46	1070
84	9	7	11	35	-6	-63	88	45582.0	29	24.97	128	22.09	1059
84	9	7	11	45	-1	-91	79	45588.0	29	26.56	128	22.72	1055
84	9	7	11	55	-3	-121	75	45594.0	29	28.15	128	23.35	1057
84	9	7	12	5	-7	-123	59	45598.0	29	29.76	128	24.02	1072
84	9	7	12	16	-11	51	-3	45608.0	29	31.53	128	24.70	1069
84	9	7	12	27	-22	34	-16	45613.0	29	33.64	128	25.64	1068
84	9	7	12	37	1	89	-38	45621.0	29	35.24	128	26.36	1065
84	9	7	12	47	29	97	-28	45638.0	29	36.83	128	27.10	1049
84	9	7	12	57	38	115	-33	45662.0	29	38.46	128	27.88	1047
84	9	7	13	7	40	94	-19	45693.0	29	40.11	128	28.67	1038
84	9	7	13	17	48	106	-7	45716.0	29	41.57	128	29.44	1028
84	9	7	13	27	67	82	40	45739.0	29	43.41	128	30.34	908
84	9	7	13	37	51	110	57	45778.0	29	44.71	128	31.01	828
84	9	7	13	47	58	137	85	45831.0	29	46.51	128	31.93	870
84	9	7	13	57	46	154	164	45889.0	29	48.01	128	32.71	890
84	9	7	14	8	-10	129	113	45807.0	29	49.80	128	33.62	922
84	9	7	14	19	29	120	135	45888.0	29	51.56	128	34.49	936
84	9	7	14	30	-11	85	185	45901.0	29	53.33	128	35.36	935
84	9	7	14	40	-15	28	160	45884.0	29	54.94	128	36.08	935
84	9	7	14	51	8	-45	124	45907.0	29	56.69	128	36.93	943

84	9	7	15	1	24	-106	111	45932.0	29	58.28	128	37.60	948
84	9	7	15	12	43	-173	126	45969.0	29	60.03	128	38.34	960
84	9	7	15	23	14	-191	140	46000.0	29	61.78	128	39.06	954
84	9	7	15	33	-37	-131	138	45985.0	29	63.42	128	39.67	957
84	9	7	15	43	-86	-89	111	45944.0	29	65.01	128	40.40	956
84	9	7	15	53	-90	-92	115	45938.0	30	6.65	128	41.04	952
84	9	7	16	4	-118	-106	92	45906.0	30	8.49	128	41.77	941
84	9	7	16	14	-79	-83	50	45881.0	30	10.13	128	42.50	922
84	9	7	16	24	-50	-8	29	45923.0	30	11.76	128	43.18	913
84	9	7	16	34	-51	9	59	45956.0	30	13.39	128	43.83	884
84	9	7	16	44	-73	5	37	45953.0	30	15.06	128	44.50	755
84	9	7	16	54	-31	-17	17	45975.0	30	16.62	128	45.22	889
84	9	7	17	4	-48	-36	25	46001.0	30	18.26	128	45.92	820
84	9	7	17	14	-73	-53	50	45992.0	30	19.85	128	46.63	816
84	9	7	17	25	-68	-23	34	45986.0	30	21.64	128	47.29	817
84	9	7	17	36	-60	-12	13	45985.0	30	23.41	128	48.01	812
84	9	7	17	46	-61	-42	2	45977.0	30	24.98	128	48.71	808
84	9	7	17	56	-51	-58	-16	45988.0	30	26.56	128	49.37	799
84	9	7	18	6	-24	9	3	46007.0	30	28.13	128	49.99	802
84	9	7	18	16	-74	83	-33	46011.0	30	29.68	128	50.55	801
84	9	7	18	26	-76	71	-11	46041.0	30	31.24	128	51.04	799
84	9	7	18	37	-94	41	-29	46023.0	30	32.82	128	51.69	781
84	9	7	18	48	-85	29	-43	46024.0	30	34.34	128	52.29	766
84	9	7	18	58	-92	34	-75	46020.0	30	35.80	128	52.76	746
84	9	7	19	8	-62	64	-45	46051.0	30	37.27	128	53.21	732
84	9	7	19	18	-69	103	-55	46070.0	30	38.77	128	53.65	723
84	9	7	19	28	-70	112	-56	46083.0	30	40.30	128	54.00	721
84	9	7	19	38	-59	93	-53	46100.0	30	41.78	128	54.41	718
84	9	7	19	48	-61	127	-58	46119.0	30	43.28	128	54.72	717
84	9	7	19	58	-22	150	-63	46139.0	30	44.72	128	54.90	716
84	9	7	20	9	47	14	25	46173.0	30	46.36	128	55.15	713
84	9	7	20	19	42	3	46	46207.0	30	47.92	128	55.46	711
84	9	7	20	29	39	21	30	46236.0	30	49.42	128	55.80	717
84	9	7	20	39	35	84	72	46250.0	30	50.91	128	56.13	745
84	9	7	20	49	0	35	93	46236.0	30	52.36	128	56.37	744
84	9	7	20	59	-28	71	64	46217.0	30	53.81	128	56.68	656
84	9	7	21	10	-49	999999	18	46225.0	30	55.41	129	-2.91	668
84	9	7	21	20	-13	999999	-47	46229.0	30	56.87	129	-2.74	617
84	9	7	21	30	6	999999	-76	46250.0	30	58.25	129	-2.52	634
84	9	7	21	40	21	999999	-216	46290.0	30	59.66	129	-2.38	635
84	9	7	21	50	-13	999999	-102	46312.0	30	61.12	129	-2.23	711
84	9	7	22	1	55	57	-37	46331.0	30	62.67	129	-2.02	714
84	9	7	22	11	40	43	-32	46346.0	30	64.02	129	-1.86	684
84	9	7	22	21	24	47	-36	46355.0	30	65.30	129	-1.57	677
84	9	7	22	31	30	47	-42	46367.0	31	6.58	129	-1.36	768
84	9	7	22	41	31	33	-21	46371.0	31	7.85	129	-1.15	711
84	9	7	22	51	45	50	-85	46377.0	31	9.10	129	-0.80	701
84	9	7	23	1	35	94	-71	46382.0	31	10.32	129	-0.44	705
84	9	7	23	11	19	69	-69	46386.0	31	11.55	129	-0.12	703
84	9	7	23	21	52	34	-38	46391.0	31	12.82	129	0.17	696
84	9	7	23	31	53	28	3	46406.0	31	14.07	129	0.55	688
84	9	7	23	42	77	-16	34	46436.0	31	15.51	129	0.99	681
84	9	7	23	53	94	-22	76	46464.0	31	16.94	129	1.35	684
84	9	8	0	4	103	85	19	46493.0	31	18.37	129	1.79	716
84	9	8	0	14	124	58	32	46536.0	31	19.74	129	2.15	725

84	9	8	0	24	161	22	74	46603.0	31	21.03	129	2.61	718
84	9	8	0	34	161	-47	151	46686.0	31	22.39	129	2.98	718
84	9	8	0	44	135	-147	240	46740.0	31	23.71	129	3.44	717
84	9	8	0	54	112	-250	235	46726.0	31	25.05	129	3.96	718
84	9	8	1	4	111	-208	260	46769.0	31	26.42	129	4.33	727
84	9	8	1	15	88	-237	326	46833.0	31	27.92	129	4.84	731
84	9	8	1	26	0	-220	455	46956.0	31	29.59	129	5.44	735
84	9	8	1	37	-324	113	414	46704.0	31	31.08	129	6.08	730
84	9	8	1	47	-460	241	200	46426.0	31	32.31	129	6.50	707
84	9	8	1	57	-351	62	-297	46009.0	31	33.61	129	7.07	689
84	9	8	2	8	-18	-30	-287	46339.0	31	35.06	129	7.67	674
84	9	8	2	19	70	-81	-240	46470.0	31	36.53	129	8.16	682
84	9	8	2	30	141	-25	-204	46566.0	31	37.95	129	8.83	690
84	9	8	2	40	154	-67	-182	46625.0	31	39.30	129	9.43	709
84	9	8	2	51	200	-118	-113	46682.0	31	40.78	129	10.07	725
84	9	8	3	1	178	-112	-68	46727.0	31	42.13	129	10.62	740
84	9	8	3	11	240	-72	-52	46776.0	31	43.44	129	11.25	769
84	9	8	3	21	254	-8	-37	46826.0	31	44.71	129	11.88	772
84	9	8	3	32	271	5	18	46893.0	31	46.19	129	12.42	791
84	9	8	3	43	300	-14	125	46971.0	31	47.94	129	13.19	809
84	9	8	3	53	301	-3	212	47043.0	31	49.33	129	13.71	835
84	9	8	4	4	272	62	284	47103.0	31	50.85	129	14.32	870
84	9	8	4	15	167	-9	282	47116.0	31	52.07	129	14.75	873
84	9	8	4	26	133	-142	300	47105.0	31	53.52	129	15.30	865
84	9	8	4	38	40	-147	327	47059.0	31	55.10	129	15.82	842
84	9	8	4	49	-113	16	231	46902.0	31	56.51	129	16.42	846
84	9	8	4	59	-99	354	264	46918.0	31	57.89	129	16.78	785
84	9	8	5	9	-209	566	230	46843.0	31	59.37	129	17.18	749
84	9	8	5	19	-301	662	13	46655.0	31	61.58	129	17.14	739
84	9	8	5	29	-290	643	-163	46491.0	31	63.41	129	17.49	728
84	9	8	5	39	-219	587	-364	46410.0	31	64.78	129	17.86	678
84	9	8	5	49	999999	999999	999999	46454.0	32	6.24	129	18.29	576