

丹後地方地震調査要項

Geophysical Investigations on the Severe Earthquake in the Province of Tango

A severe earthquake took place, after the recent one in Tajima, on the north-eastern part of Central Japan, in the province of Tango on March 7th, 1927. The staffs and assistants of this Institute were at once sent to the affected districts for investigating it in its geophysical, geological, and architectural bearings.

Among other things various investigations of the after effects of the earthquake were and are still being conducted as described below.

(1) Seismometry:—Seismometers were installed under the direction of Prof. Imamura at three spots, namely Maizuru, Ine, and Kinokuni (see the appended map) encircling the epicentre of the first severe shock. The observation was started on March 11th, and is still continued. A preliminary report thereon has been published in the Proceedings of the Imperial Academy, Vol. 3, No. 4 (1927).

(2) Observations of the tilting of land:—The Ishimoto tiltmeters¹⁾ were installed under the direction of Ass. Prof. Ishimoto at Miyazu on March 11th, and at Kawabe on May 26th. (see the map). The observation is still on.

(3) Precise levelling and triangulation:—The work of levelling and triangulation in the disturbed area and the surrounding districts has been entrusted to the Land Survey Department of the Army. The routes for the levelling and the stations for the triangulation are shown in the map. The levelling has been started on April 23rd, and the triangulation on May 18th. Both measurements are to be repeated, say three times within one year, for investigating the after-working of the land. The results of the levelling done along the E-W route are published in this Bulletin (p. 167) as the first report of the work.

(4) Sounding of the sea:—The work of sounding the sea facing the disturbed district has been entrusted to the Hydrographic Department of the Navy and is being done.

The reports will be published in the Bulletin.

(The Director.)

一、該地方地震被害其他の調査に従事する本所々員其他の職員

(イ)、地震計測及震災地踏査

所員 今村明恒、松澤武雄、囑託員 那須信治

1) M. Ishimoto. This Bulletin, Vol. II.

(ロ)、地殻傾斜計測

所員 石本巳四雄、助手 坪井忠二、高橋龍太郎

(ハ)、地形及地質調査

所員 山崎直方、坪井誠太郎、多田文男、助手 津屋弘達

(ニ)、地割に関する調査

所員 藤原咲平、助手 高山威雄

(ホ)、構造物に関する調査

所長 末廣恭二、助手 谷口忠、囑託員 齊田時太郎

二、餘震の観測は最も必要なるを以て震災直後京都府下舞鶴町、同伊根村、兵庫縣下城崎町の三點に地震計を据付け比較観測を三月十一日より開始目下繼續中（観測地點は附圖に示す、⊗印）

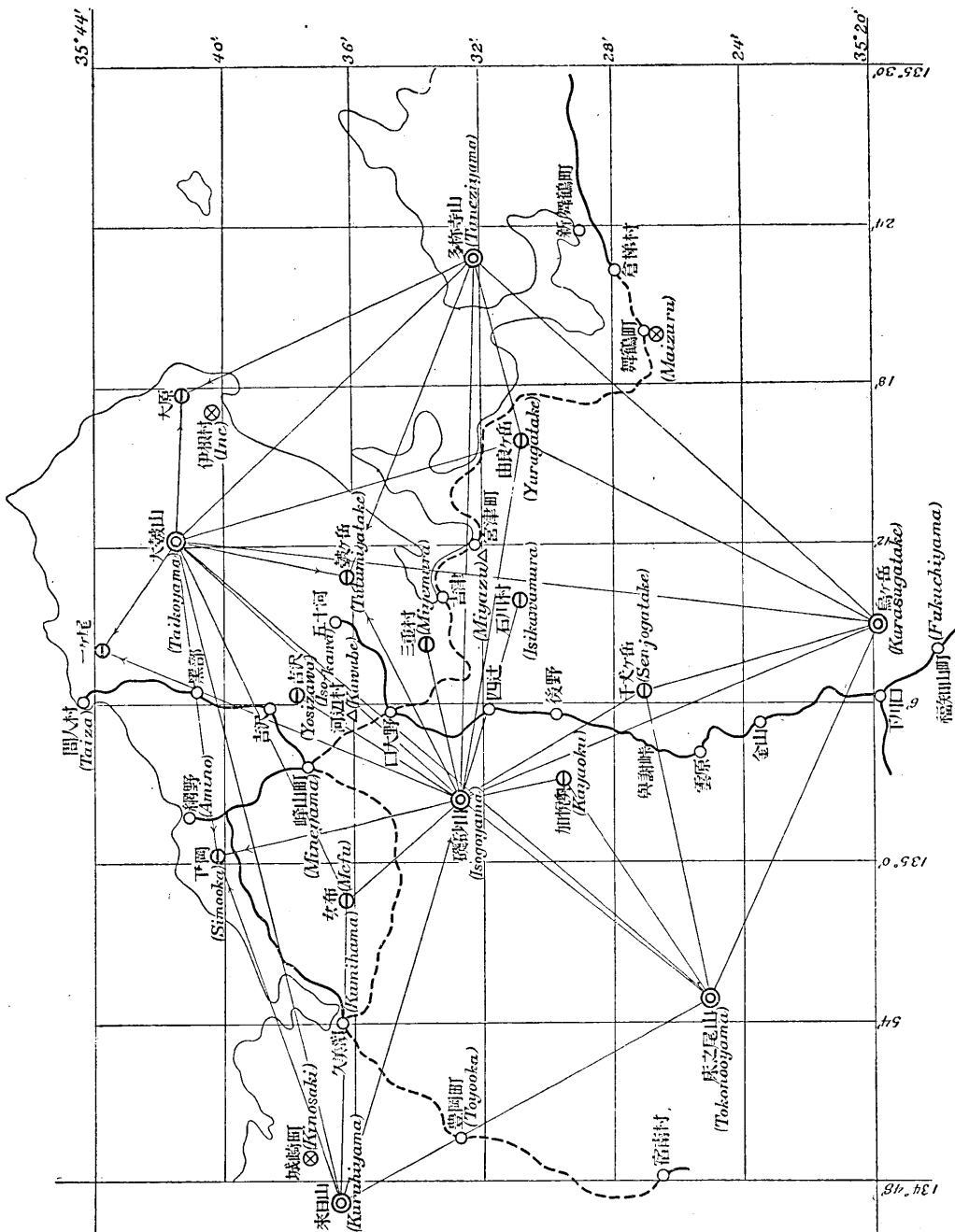
此観測結果概要は帝國學士院記事第三卷第四號に掲載せらる

三、地震直後に於て地殻の變動を調査するは最も緊要なるを以て京都府下宮津町、同河邊村に傾斜計を据付け宮津は三月十一日より河邊村は五月二十六日より観測を開始目下繼續中（地點は附圖參照、△印）

四、地震直後に於ける土地の變動調査のため水準及三角測量するの必要あり、之が作業を陸地測量部に委託して連續測定を開始し第一回水準測量は諸般の準備を整へ丹後國倉梯村より但馬國宿南村間（既設線）の観測を四月廿三日より又丹後國間人村より丹後國福知山間（新設線）の観測を五月三十日より開始せり、同観測は四回乃至五回繰返へし施行の豫定（線路は附圖に掲ぐ）、第一回報告は第百六十七頁に掲ぐ、

第一回三角測量は造標其他の諸般の準備を整へ一等點は丹後國磯砂山を基點として來日岳、床之尾山、烏ヶ岳、多稱寺山、大鼓山の六點を二等點は一ヶ尾、鼓ヶ岳、大原、吉澤、女布、下岡、千丈ヶ岳、由良ヶ岳、加悦奥、石川、三重嶽等の諸點を撰びて五月十八日より観測を開始せり。本観測も三回乃至四回繰返へし施行の豫定（観測點は別圖に示す）

五、丹後地震後に於ける海底變動を調査するの必要あり、之が作業を海軍水路部に委託して同地近海海深測量を四月より開始し目下作業中なり。



既設水準線路
 (Existing Route for Levelling)
 新設水準線路
 (New Route for Levelling)

△ 三角測量一等点 (First class Stations for Triangulation)
 ○ 三角測量二等点 (Second class Stations for Triangulation)

⊗ 地震計据附地点 (Places where Seismometers are installed)
 △ 傾斜計据附地点 (Places where Tiltmeters are installed)