

丹後震災地一二等三角點移動檢測成果報告

陸 地 測 量 部

*Horizontal Displacements of the Primary and Secondary
Triangulation Points, observed after the Earthquake
of March 7, 1927, in Tango Districts.*

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After the destructive earthquake which occurred in Tango districts on March 7, 1927, a revision of the triangulation in the disturbed region was promptly planned and carried out within a period from the beginning of May to the beginning of June. A second survey was also made during the period, from the beginning of August to the beginning of September, in order to detect any further change which might have taken place.

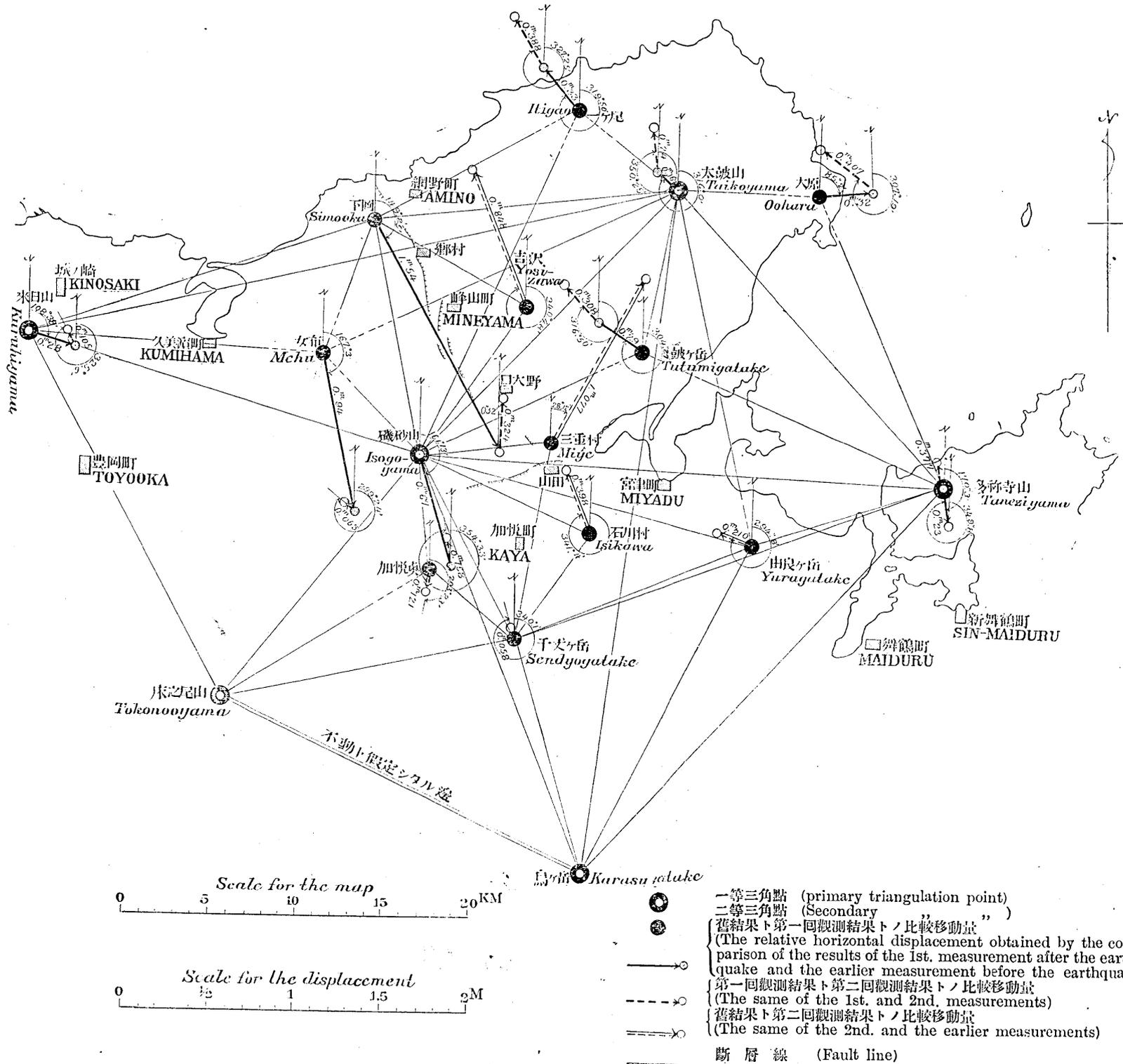
The results of these surveys were compared with those of the earlier surveys as well as with each other. The amounts of the relative horizontal displacements thus obtained of a number of primary and secondary triangulation points are shown in the synoptic map reproduced in the annexed Plate (PI. LII).

昭和二年三月丹後震災後直に同地方に於ける三角網の變動を検する爲、測量作業を開始し、五月上旬より六月上旬に亙る期間に於て第一回觀測を終了したり、其後更に持續する移動の有無を検する爲に、第二回檢測を行ひ八月上旬より九月上旬に至る期間に於て此れを終了したり。

此二回の測量成果を地震以前に於ける舊測量成果と比較し、又新しき二回の成果を相互比較して得たる相對的水平移動の狀況を別紙要圖 (PI. LII) に圖示す。

Map showing the Horizontal Displacement of the Primary and Secondary Triangulation Points, observed after the Earthquake of March 7, 1927 in Tango Districts.

丹後震災地一二等三角點移動要圖(第二回)



説明

Explanation

- 本圖ハ昭和二年六月及八月ノ二回地震研究所委託ニ係ル丹後震災地三角測量實施ノ結果新舊各成果ノ比較移動量ヲ圖示セルモノナリ
- 新舊各觀測時期次ノ如シ

舊觀測	明治十七年十二月ヨリ	明治二十一年十月ニ至ル
第一回觀測	昭和二年五月上旬ヨリ	同年六月上旬ニ至ル
第二回觀測	昭和二年八月上旬ヨリ	同年九月上旬ニ至ル
- 觀測ハ新舊共一等點ハ獨逸「カール・パンベルヒ」製二十七種測微經緯儀ヲ用ヒ各二十四回觀測値ノ中數ヲ採用シ二等點ハ舊觀測ニアリテハ獨逸「カール・パンベルヒ」製二十一種測微經緯儀ヲ用ヒ新觀測ハ同二十七種測微經緯儀ヲ用ヒ各十二回觀測値ノ中數ヲ採用ス但シ視準點ハ一等點全部及遠距離ノ二等點ニアリテハ回照器ヲ用ヒ其ノ他ハ視標觀測ヲ行フ
- 一等點ノ中數方向ニ對スル誤差ハ次ノ如シ

舊觀測	0.454
第一回觀測	0.354
第二回觀測	0.541
- 本計算中一等三角點、烏ヶ岳、床之尾山ノ邊及方向ヲ不動ト假定シ新舊共觀測方向及條件式ヲ可及的ニ同一ナラシメタリ
二等點、千丈ヶ岳、山良ヶ岳、石川村、三重村、加悦奥ノ五點ハ第一回觀測ヲ實施セズ但シ吉澤二等點ハ第一回觀測ヲ實施セシモ唯一方向ナリシヲ以テ第二回ニ於テ觀測方向ヲ二方向ニ改メタリ

- The map shows the relative displacements of the triangulation points obtained by the comparison of the results of the 1st. and 2nd. surveys carried out in June and August, 1927, respectively with the earlier results.
- The periods of the surveys are:

Earlier survey	Dec., 1884—Oct., 1888.
First survey after eqk.	Beginning of May—Beginning of June, 1927.
Second " " "	" " Aug— " " Sept., 1927.
- For the primary point the mean value of 21 observations is taken and for the secondary point the mean value of 12 observations.
- The provable errors for the mean values of the observed angles are

For the earlier survey	0."454
" " first " after eqk.	0. 354
" " second " " "	0. 541
- In the present reduction, the line Karasugatake—Tokonooyama is assumed unchanged.

(震研彙報第四號、圖版、陸地測量部)