

丹後震災地水準測量第一回報告

First Report on the Precise Levelling across the Province of Tongo

As stated on p. 163, the Land Survey Department sent us the first report on the precise levelling done along the E-W route which crosses the area where the earthquake was severest and extends to the unaffected districts. The profile of the vertical displacements relative to the height of bench marks measured in 1887 and 1888 is shown in the annexed diagram. A map roughly showing the positions of the faults formed by the earthquake is appended thereto.¹⁾ The error of the observation is less than ± 3 mm. in proceeding back and forth over a distance of 2 km.. It is to be understood that at present we are not in a position to fix the line of no displacement, because the western part of the route was more or less disturbed by a strong earthquake which took place in that district two years ago. So that the eastern end where there was apparently no disturbance, was provisionally taken as unaffected and the assumed zero line was drawn on the diagram.

The real zero line will be determined before long, when the Land Survey Department shall extend the survey along this route as far as the Province of Noto.

The results of the second survey along the same route and of the first survey over the N-S line will be reported in the next volume of the Bulletin.

(The Director.)

別頁に掲げた種々の震災地調査の内、東西線に沿ての水準測量第一回報告を陸地測量部より受領したから其の成果を別圖に掲げる、東西線は明治二十一年及二十二年に計測せられた標高に對する地面の高さの變化である。

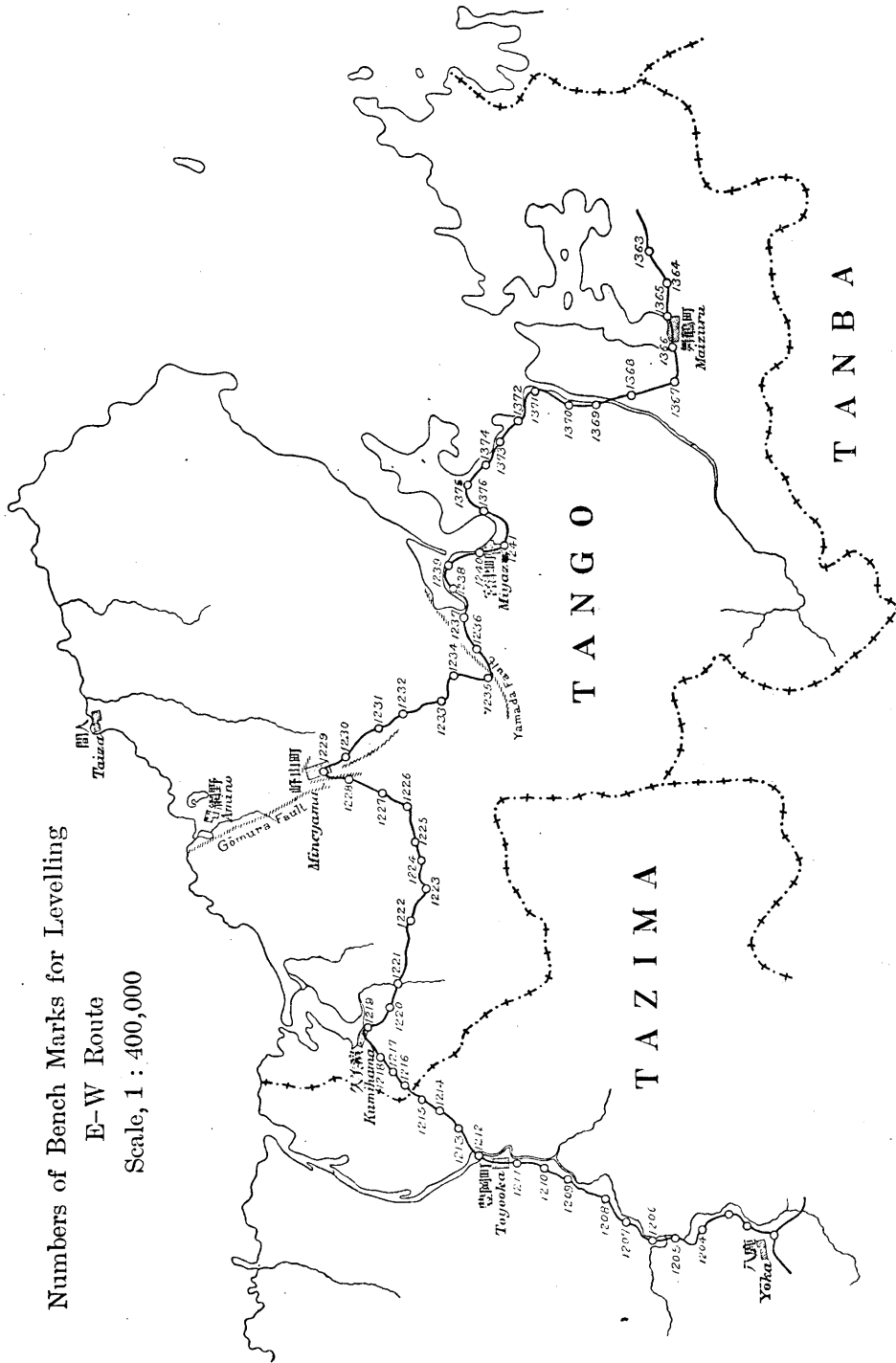
標高變化の零である地點としては假りに東端の舞鶴附近を撰定した、何となれば西端豊岡地方は但馬地震の爲めに地變があつたと想像し得るからである。

陸地測量部は追て此線に沿ふて能登輪嶋迄改測せられるそうであるから、其結果を俟たなければ眞の零線の決定する事は困難である併し以前の計測が四十年前のものであるから其間に永年の地面高低の變化を生じたとすれば改測後とても眞の零線は決定する事が困難であるかも知れぬ。

1) Yamasaki and Tada, Proc. Imp. Aca. Vol. 3, No. 4.

終りに臨で陸地測量部が本所の委嘱により地震直後より此の困難なる事業に着手せられ尙引續き本所の爲め測量に従事せらるゝ勞を深く感謝する。

(所 長)



Vertical Displacements of Land along E-W Route
 (Displacements relate to the Results of the Survey done in 1887 & 1888)

