

### 33. 興津、串本間一等水準線検測成果報告

當所に於ける研究上の必要により最近陸地測量部に依頼し興津—串本間に別圖に示す一等水準線路に沿うて水準測量を行へり。

其の成果を明治二十二年乃至同三十三年の間に行はれし舊測量結果と比較して求め得たる土地高低變化は新測量の期日と共に別圖に掲げて参考に供す。

尙、舊新兩觀測の間に於て水準線路中の一部分に就き別の觀測結果あり。この結果を最近の測量値より差引きし値を圖中に併せて示せり。

各觀測に關する重要事項を示せば下記の如し。

1. 水準線路延長 五百三十二キロ米

2. 新舊觀測期

舊……………興 津—岡 崎……………明治三十三年 六月—十月  
岡 崎—名古屋……………明治二十八年 一月—五月  
名古屋—一身田……………明治二十八年 二月—五月  
一身田—佐 奈……………明治二十二年 四月—八月  
佐 奈—尾 鷲……………明治二十八年十一月—廿九年三月  
尾 鷲—串 本……………明治三十二年 五月—十一月  
新……………昭和 六 年 八 月—十一月

舊、新兩觀測の間に於ける別の觀測部分及び其期日

名古屋—一身田—松坂……………昭和四年八月—十一月

3. 新觀測値は興津に於ける一等水準點交 70・1 號の眞高四米〇八四五（關東及伊豆兩震災に依る低下〇米一二〇六を加算）を基準とせり。

（昭和七年三月十日 地震研究所）

### 33. *Precise Levellings along a Route from Okitu to Kusimoto.*

A precise levelling along a route extending to 532 kilometers from Okitu to Kusimoto, which occupies the Pacific coast of the middle part of Honsyû, was lately carried out by the Land Survey Department at our request, the route in question being shown in the map in the Plate.

The relative vertical displacements of bench marks obtained by the comparison between the result of the recent measurements and that of the earlier ones are shown in the profile in the Plate. There is another result acquired by a levelling survey that was done for a certain portion of the route in an epoch between the recent and the earlier measurements. The relative vertical displacements of bench marks for this portion obtained by the comparison of the result of the recent measurement and that of the intermediate epoch are added in the same Plate.

The periods of the field works were as follows :

I. The earlier survey.

From Okitu to Okazaki :	June—October, 1900.
From Okazaki to Nagoya :	January—May, 1895.
From Nagoya to Issinden :	February—May, 1895.
From Issinden to Sana :	April—August, 1889.
From Sana to Owase :	November, 1895—March, 1896.
From Owase to Kusimoto :	May—November, 1899.

II. The recent survey.

From Okitu to Kusimoto :	August—November, 1931.
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III. The intermediate survey.

Nagoya-Issinden-Matuzaka :	August—November, 1929.
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For the recent survey the bench mark No. 70-1 at Okitu, whose true height involving the correction for the subsidence 0.1206 meter was 4.0845 meters above sea level, is assumed unchanged.

(March 10, 1932. Earthquake Research Institute.)