

# 關東大地震ニ因ル相模灣底及

## 附近地形ノ變化調査報告

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大正十二年九月一日ノ相武房總及附近一帶ニ亘ル大地震後、相模灣及其周邊ノ海陸地形ニ著ルシキ變化ヲ生ゼルヲ發見セルヲ以テ水路部ハ急速此等地方沿岸ノ測量ヲ施行スルコトニ決定シ同年九月下旬ヨリ測量艦四隻及四班ノ測量班ヲ以テ測量ヲ開始シ十三年二月上旬ヲ以テ其區域約二千六百平方哩ニ亘レル作業ヲ終了セリ。

震災前ノ測量(相模灣沿岸狹長ノ地區ヲ除クノ外ハ大正元年以降ノ測量ニ屬ス)ト今回ノ測量トノ比較ノ結果ハ相模灣底ニ驚クベキ變化ヲ生ゼシヲ發見セリ、而シテ其變化ハ複雑ナルモ一般ニ南西部ハ陷没シ北東部ハ上昇セリ、則チ太平洋ヨリ大島ノ北東側ニ沿フテ北西ニ向テ擴ガレル深海部(海深千三百米以上)ハ一般ニ著ルシク陷没シ其百米以上ニ達スル部分ハ長約十三哩幅二哩乃至三哩ニ及ビ最大ノ陷没ハ百八十米ニ達セリ灣ノ北東部ハ之ニ反シテ一般ニ隆起シ百米ノ差ヲ生ズルニ至リタル區域相當ニ大ナリ。

以上變化ノ大要ハ別圖ニ示セルガ如シ。

### 備考

測量ニ使用セル測深儀ハ新舊共ニ多ク「ルーカス」測深儀ニシテ鍾測結果ノ精度ヲ調査スル爲相模灣北西部ノ海底ノ平坦ナル深海部ニ數點ヲ選ビ日ヲ異ニシテ種々ノ測量艦ヲ以テ鍾測ヲ行ヒタル結果ニ依レバ多クノ測得値ノ平均値ニ對スル一回ノ鍾測値ノ平分誤差 (probable error) ハ海深ノ約〇・七%ニシテ從ツテ震災ノ前後ニ於ケル鍾測ノ精度カ同一ナリト見做セバ鍾測ノ誤差ヨリ生ズル水深變化量ノ誤差ハ深海部ニ於テ海深ノ約一・〇%ナリ。

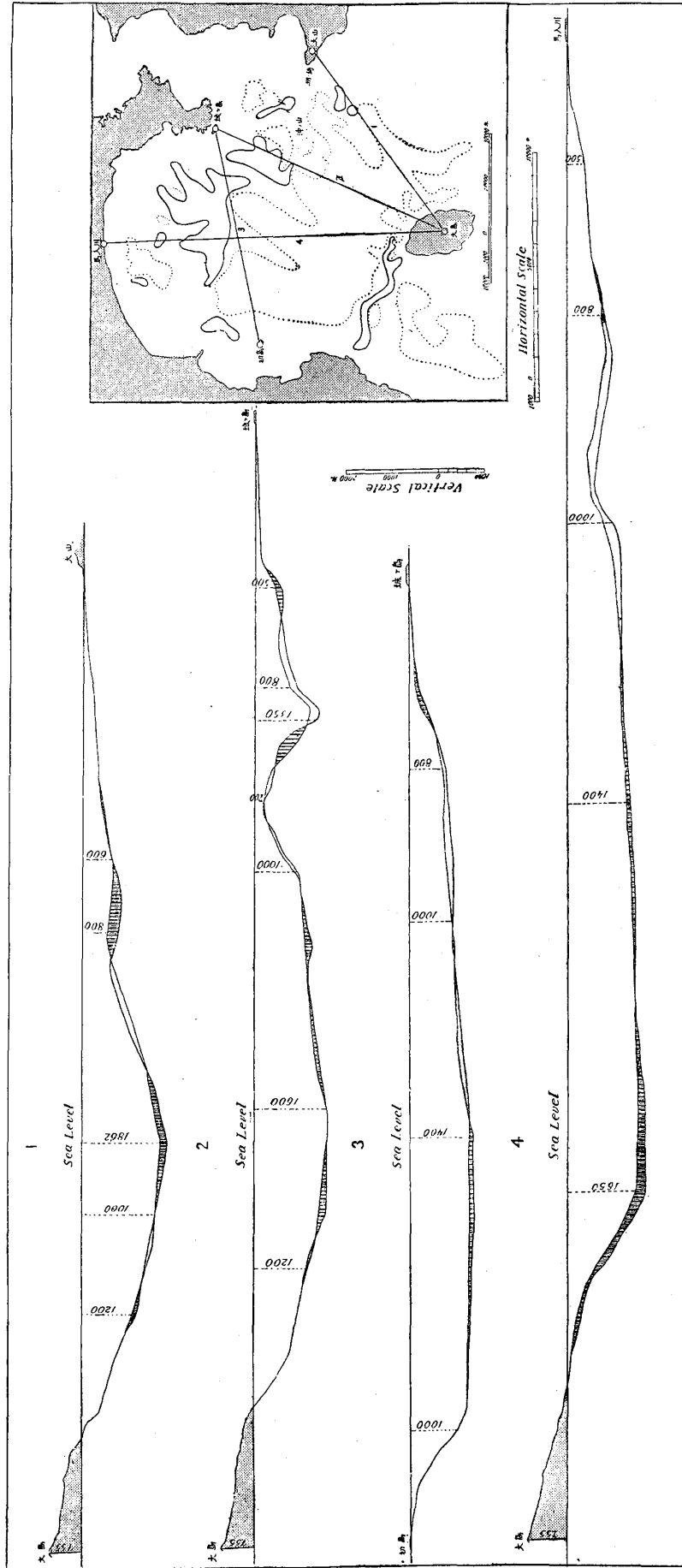
又測定位置ノ誤差、新測得水深(鍾測位置ハ多クノ場合新舊同一ニアラズ)ヨリ挿入法ニ依テ舊測得水深位置ニ對スル深サヲ求ムルニ際シテ生ズル誤差等ヲ考フルニ圖示ノ水深變化量ノ誤差ハ深海部ニ於イテモ多ク三十米以内ナルベク、海底ノ傾斜大ナル地點ニ於テハ之ヨリモ大ナル誤差ヲ見ルコトアルベシ

24  
75  
81

# 大正三十三年三月水部 相模灘断面圖

大正三十三年三月水部

本圖ハ相模灘ノ断面圖ニシテ、右ノ方向ニ於テ、各ノ断面ノ相模灘ノ深サ、水深、或ハ高サ、数字ニ示シ、起隆ハ影陰、陥凹ハ影陰、線ニ示シ、米ヲ以テ深サ、高サ、或ハ水深、数字ニ示シ、起隆ハ影陰、陥凹ハ影陰、線ニ示シ、



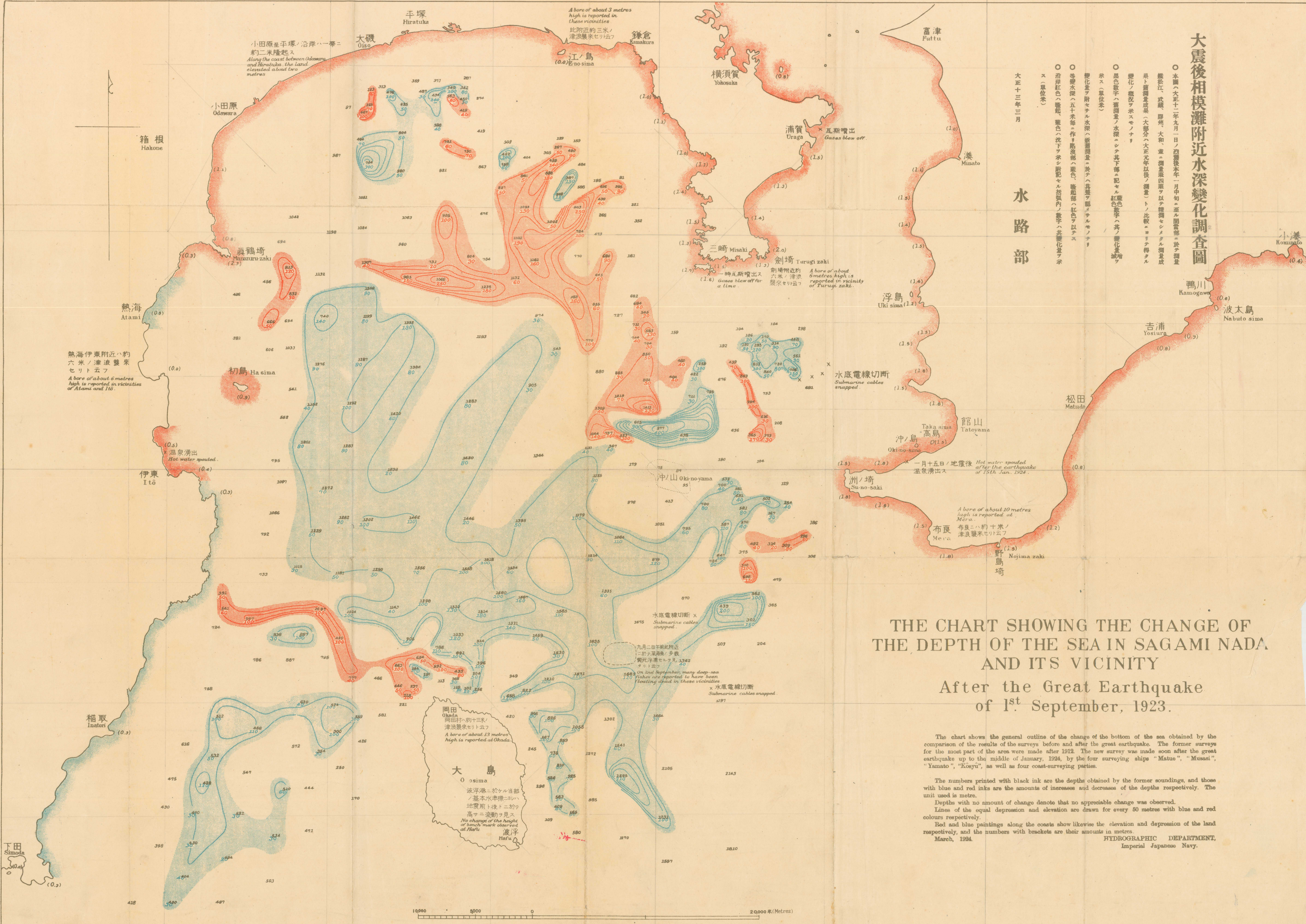


# 大震後相模灘附近水深變化調査圖

○ 本圖ハ大正十三年九月一日ノ烈震後本年一月下旬ニ至ル間當部ニ於テ調査  
 船松江、武藏、膠州、大和、並ニ調査班四班ヲ以テ精測セシメタル調査成  
 果ト調査成果ニ大部分ハ大正元年以後ノ調査ニトシ比較ニヨリテ得タル  
 變化ニ概況ヲ示スモノナリ  
 ○ 黒色數字ハ舊調査ノ水深ニシテ其下等ニ記セル紅藍色數字ハ其ノ變化量増  
 減ニ示ス  
 ○ 藍色數字ハ水深ニ付テハ新調査ニ於テハ其下等ニ記セルモノナリ  
 ○ 等深水深ハ五十米毎ニ作リ陸地部ハ藍色、隆起部ハ紅色ヲ以テス  
 ○ 沿岸紅色ハ隆起、藍色ハ沈下ヲ示シ附記セル括弧内ノ數字ハ其變化量ヲ示  
 ス(單位米)

大正十三年三月

水路部



THE CHART SHOWING THE CHANGE OF THE DEPTH OF THE SEA IN SAGAMI NADA AND ITS VICINITY After the Great Earthquake of 1<sup>st</sup> September, 1923.

The chart shows the general outline of the change of the bottom of the sea obtained by the comparison of the results of the surveys before and after the great earthquake. The former surveys for the most part of the area were made after 1912. The new survey was made soon after the great earthquake up to the middle of January, 1924, by the four surveying ships "Matue", "Musashi", "Yamato", "Kōyū", as well as four coast-surveying parties.

The numbers printed with black ink are the depths obtained by the former soundings, and those with blue and red inks are the amounts of increases and decreases of the depths respectively. The unit used is metre.

Depths with no amount of change denote that no appreciable change was observed. Lines of the equal depression and elevation are drawn for every 50 metres with blue and red colours respectively.

Red and blue paintings along the coasts show likewise the elevation and depression of the land respectively, and the numbers with brackets are their amounts in metres.

HYDROGRAPHIC DEPARTMENT, Imperial Japanese Navy.