

The Relationship between the Earthquake Distribution and the Terrestrial Magnetism (Geomagnetic) Distribution

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1. none

1. Preface: In this paper, I pointed out the close relationship between the earthquake distribution and the terrestrial magnetism (Geomagnetic) distribution. Because I believe exactly in the existence of the limit (margin) of the predicting earthquakes in used the principle of dynamics.

Because at present, A person doing research on seismology mainly study stress and strain caused in case of acting on a body (The Earth).

For example, seismic wave and difference (alternation) of the surface of The Earth and so on.

But we can not absolutely look at deep inner Earth as long as we live.

2. The gist: Fig1. is distribution of the earthquake focus in the Japanese Islands and their neighborhood (Drawing Fig by Dr. Wadachi). Fig2. is magnetism (or geomagnetic) distribution (Chronological Scientific tables 2017).

See (look at) Fig1. and Fig2. We can focus and distribution of magnetic force are very much (deeply) correlated. I recommend next two figures.

Fig1. refer to "An interpolate and a deep earthquake of the world". (Chronological Scientific table 2017. P789) and "A depth contour of the surface of the deep focus earthquakes" Written by Tokuji Uzu "Encyclopedia of Earthquakes" p147, be published in Asakura publisher, 1987. or "Earthquake" written by Kiyoo Wadachi published in Cyukoku Bunko. P229. (Next page Fig1.)

3. Conclusion: I think that in magnetic map all (total) magnetic force and the declination displays the close and fine relationship between the earthquake distribution.

Abstract.

1. I pointed out that the close and fine relationship between the earthquake and the terrestrial magnetism (geomagnetic) distribution.

2. Therefore I think that the electromagnetism in effective means to the predicting earthquakes.

3. As a result, I must (hope to) propose "The earthquake biology". Good sample is a migratory birds (for example, swan and swallow) I am thinking. We studied the organ where a migratory bird can sense the electromagnetism. In other words, we shall discover the magnetic sensor of migratory bird. And then we shall study the mechanism of sensor. The sensor is considered in the hippocampus in the brains on a human being.

A fish and vegetation (a plant) can catch too the magnetic force. But fish lives in the sea and river. In the sea (the ocean) we are hard for us to deal with than in the sky. The vegetation (a plant) is slow to catch the magnetic force.

If can distinguish between magnetic force arising by earthquake motion and other magnetic force, The problem has been solved completely. Above stated, for example electric current in Earth it makes no difference which we choose.

Keywords: Earthquake Distribution, Terrestrial Magnetism (Geomagnetic) Distribution, Magnetic map, All magnetic force, Declination

地 214 (796)

地 学

(Magnetic map)
地第38図 Fig 2. 磁気図 (全磁力) (2010.0 年値)

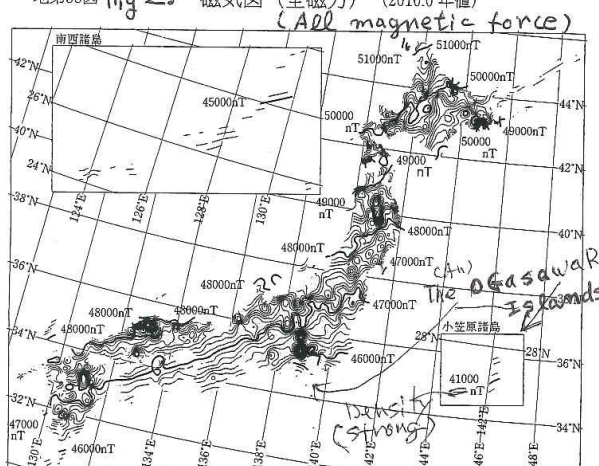


Figure of Geomagnetism
全磁力: 地磁気の大きさ (nT)

太線: 1000 nT ごと 細線: 100 nT ごと

磁力 (Magnetic force)

全磁力 F (2010.0 年値) 分布を緯度, 経度の 2 次式で近似

$$F(\text{nT}) = 47532.820 + 550.510 \Delta\phi - 262.498 \Delta\lambda - 1.341 (\Delta\phi)^2$$

$$- 1.913 \Delta\phi \Delta\lambda + 3.796 (\Delta\lambda)^2$$

$\Delta\phi = \phi - 37^\circ\text{N}$, $\Delta\lambda = \lambda - 138^\circ\text{E}$ (ϕ は緯度, λ は経度で度単位で表す)

(Chronological Scientific Tables)

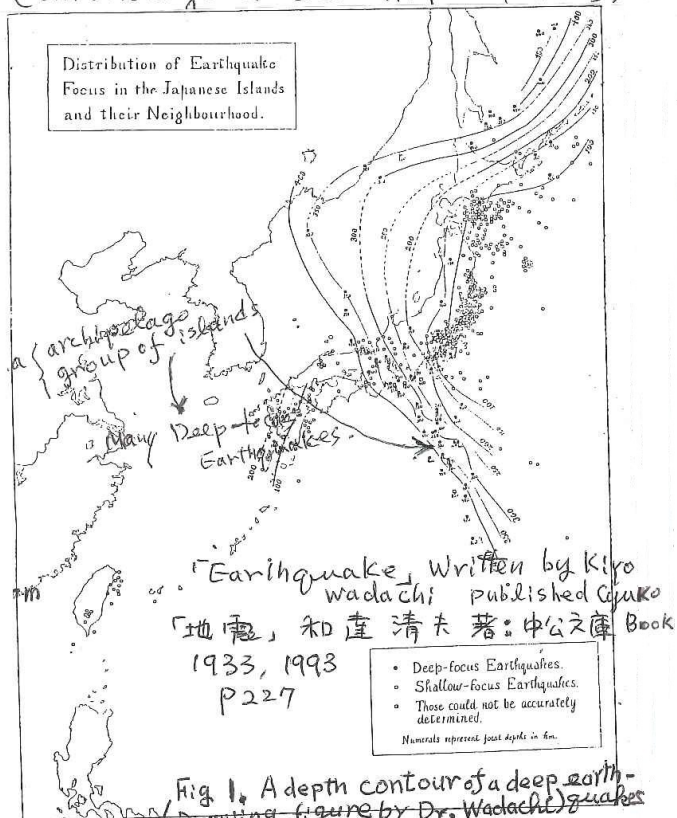


Fig 1. A depth contour of a deep earth-
(Drawing figure by Dr. Wadachi)
第一図 深発地震の等深線 (和達博士作成)

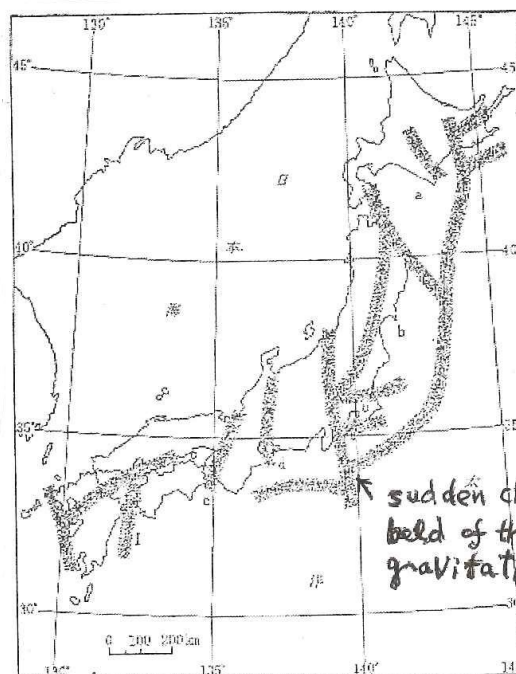


Fig-4
重力異常の急変帯 (Sudden change belt of
坪井忠二著「新・地震の話」 The Gravitational
岩波新書. 1967. P42

○ 磁気図 (Magnetic map)
にはその他に, 偏角, 傾角,
水平分力, などがあり, きちんと
考察する必要があるかも。