

SSS024-01

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## The chain reaction tendency of a deep-focus earthquake and the shallow-focus earthquake

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### Process

I noticed that a deep-focus earthquake occurred frequently just before 2,003.7.26 Miyagi offing .9.26 tokachi offings Earthquake during around 4th. I began investigation about connection with a deep-focus earthquake and the shallow-focus earthquake. Even the Shizuoka offing discovered that there was a similar tendency deep-focus earthquake frequent occurrence with circumference in Ibaraki offing, 2009 in Chishima Islands earthquake, 2008 in Chuetsu Earthquake and November, 2006 in 2004 while I continued investigating it.

### A hypothesis

A plate tends to creep in to a deep-focus earthquake to occur on a line and the following a shallow-focus earthquake in a chain reaction

1. There may be the area that is easy to be affected by the nidus of the deep-focus earthquake in particular
2. In addition, how about the diving underwater position of the plate that the deep-focus earthquake occurs and 1. relations?
3. Is not there a constant correlation by above 1.2.

### Inspection

1. About having outbreak local deflection or not of the shallow-focus earthquake corresponding to the deep-focus earthquake nidus

2. About an earthquake and 1. relations that happened in the area where it seemed that the plate that the deep-focus earthquake occurred crept in

3. About the area that was able to confirm by above 2. about having correlation or not

### 5. An inspection method

1. I extracted a plate border earthquake at a latitude and longitude / depth and demanded the incidence of the shallow-focus earthquake that a plate crept in within five days, and occurred on a line from there. A formula 1.

2. I extract all shallow-focus earthquakes of the condition a period / a latitude and longitude / depth same as the above and find an average incidence. A formula 2.

3. I compare 2. with above 1.

### A formula

A. It is number of the shallow-focus earthquakes / of shallow-focus earthquake average incidence outbreak time several a day = of five days after deep-focus earthquake outbreak\*5 days

B. The shallow-focus earthquake incidence number of the total shallow-focus earthquakes/of the outbreak several a day = same range of the time of peace Total man\_days)

Comparison magnification = A/B

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