

## Correlation between deep-sea fish sighting and earthquakes around Japan

\*Yoshiaki Orihara<sup>1</sup>, Masashi Kamogawa<sup>1</sup>, Yoichi Noda<sup>2</sup>, Toshiyasu Nagao<sup>3</sup>

1. Department of Physics, Tokyo Gakugei University, 2. Tierra Tecnica Ltd., 3. Inst. of Oceanic Res. & Develop., Tokai Univ.

One often believes that deep-sea fish washing-up on shore is one of unusual animal behavior before earthquakes (EQs) in Japan. Suehiro (1968) reported that oarfish (ryugu-no-tsukai) was caught in the shallows of Nijijima a few days before 1957 Izu-Nijijima-Kinkai EQ (M6.3). They substantially assumed that deep-sea fish floated on the shallows was regarded as an EQ precursor, because they are seldom events. On the other hand, some people have claimed that they are not the EQ precursor. In this presentation, we will discuss correlation between deep-sea fish washing-up on shore and earthquake occurrences around Japan or geomagnetic disturbances.

Keywords: deep-sea fish, earthquake, geomagnetic disturbance