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# **Abstract Details**

# <u>AOGS 1st Annual Meeting</u> > <u>Interdisciplinary Working Groups</u> > Evaluation of the Kushida Method of Short-term Earthquake Prediction >

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Title: Evaluation of the Kushida Method of Short-term Earthquake Prediction

## Abstract:

Japanese astronomers Mr. and Mrs. Kushida claim that FM radio waves from stations at distances beyond-the-horizon are received before earthquakes. Based on this premise, since mid-1990 \$, the Kushidas have been practicing short-term prediction experiments. The performance of the Kushida method during 2000-2003 has been evaluated for large (magnitude, M, greater than 5.5) earthquakes by checking their predictions against the actual seismicity. During the period, there were 92 predictions pointing possibility of M>5.4 event, whereas there were 49 M>5.4 earthquakes. If the criteria for successful prediction are set as: the errors in date is less than one day, in epicenteral position less than 20-30 km, and in M less than 0.5, the success rate was 18% and the alarm rate was 12%. If we allow the errors to 10 days, 50 km and 1.0 for date, epicenter and M, the rates were 39% and 27% respectively. It was found also that in about 80% of the predictions, apparently meaningful signals were detected but the interpretation of about half of them led unsuccessful predictions. We consider this method is worth.

### Presentation Mode: Oral

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