

## Characteristic behavior of asperities

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During 20th century there occurred many large earthquakes in Japan, which were recorded at observatories of Japan Meteorological Agency (JMA) and Universities. In Japan, the strong motion observation was made from the beginning of 1900's. Using the strong motion record we try to obtain source process of large earthquakes around Japan to make the asperity map.

The characteristics of asperity obtained in this study are as follows:

- (1) The size of asperity is characterized in source regions
- (2) The rupture propagation is also characterized.
- (3) The asperity located away from the hypocenter.
- (4) Aftershocks occur around the asperity.