

GCOE & AOB Seminar

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日時：① 2009年10月7日 (水) 14:00 - 15:30

場所：地震・噴火予知研究観測センター 別館第一会議室

題目：Revisiting the 1960 Chilean Earthquake

概要：-For the 50th Anniversary-

Next year will be the 50th anniversary of the 1960 Chilean earthquake which is believed to be the largest earthquake in the last century. The advancement of seismology in the 50 years after the Chilean earthquake will be reviewed. Many theories, methods and ideas developed since 1960 can be used to study old data for a better understanding of the 1960 earthquake as well as the general properties of great subduction zone earthquakes. These results will be useful for preparing for large subduction zone earthquakes in the future.

日時：② 2009年10月16日 (金) 10:00 - 11:30

場所：同上

題目：Long-period seismic waves excited by the 1933 Sanriku earthquake

概要：

This work was motivated by the recent seismological studies in the Sanriku region by the Tohoku University group and Dr. Steve Kirby's group. In the old studies, seismograms recorded with the traditional pendulum seismographs were used, and inevitably only relatively short period waves were used. In view of the tsunami potential of the Sanriku type outer rise earthquakes, it is important to investigate long period seismic waves. We analyzed long period seismic waves recorded with a Benioff linear extensometer at Pasadena, which are probably the first recordings of long period (up to 300s) Love and Rayleigh waves. A systematic analysis of these long period waves suggests that the 1933 earthquake is about twice as large (in moment) as was suggested at periods up to 100s. This conclusion is qualitatively consistent with the earlier results obtained by Ben Menahem (1977) and Okal (1922).

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