

Re-evaluation of Hypocenter of the Sakurajima Earthquake on January 12,1914

*Makoto Ogata¹, Satoshi Iwata², Kazuhiko Goto³

1.Kagoshima Local Meteorological offices,JMA, 2.Fukuoka Regional Headquarters,JMA, 3.NOEV,
Kagoshima Univ.

The hypocenter of the Sakurajima Earthquake on January 12,1914 is Kagoshima-Bay in general. The 100th anniversary passes from 1914 Eruption of Sakurajima, we determine hypocenter of this earthquake by using selected S-P time data not only reported ones but also re-measured from smoked-paper seismograms. As a result, the hypocenter is revealed near by Kagoshima-city. The direction of first motion of smoked-paper seismogram recorded at of the Kagoshima meteorological observatory shows the hypocenter being located SE from the Kagoshima meteorological observatory.

Keywords: The Sakurajima Earthquake on January 12,1914, smoked-paper seismogram record, first motion analysis, S-P time (Duration of Preliminary Tremor), hypocenter determination