

## Aero-Gravity Survey around Tango Peninsula, Northern Kinki District, Japan 2 - Equivalent Source Method -

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We carried out the aero-gravity survey around the Tango Peninsula. The outline of the survey and data correction were introduced at other presentation (Inoue et al., in this meeting). In this paper, we present about Equivalent Source Method for gravity anomaly mapping with aero-gravity data.

Our survey data were measured at various flight altitude. In gravity anomaly mapping, there are various interpolation algorithm such as minimum curvature, inverse distance and spline interpolation. However, normal interpolation mentioned above is not suitable for these data because the difference of the altitude was not considered. Thus, we adopt the equivalent source method for gravity anomaly distribution mapping. We assumed temporal density bodies beneath the surface (equivalent source). The density distribution to fit gravity anomaly at each observed points were estimated by inversion. The gravity anomaly distribution at some altitude were calculated based on the inverted density distribution.