

Definitive geomagnetic data at Yatsugatake geoelectromagnetic observatory in 2013

Tsutomu OGAWA[1]

[1] ERI, Univ. Tokyo

Yatsugatake geoelectromagnetic observatory (YAT) has been in operation as a reference station of the geomagnetic field for detecting and discussing tectonomagnetic and volcanomagnetic field variations. Definitive geomagnetic data at YAT in 2013 are obtained with baseline values determined by monthly absolute measurement, opened for the first time since the establishment of the observatory in 1970. Compared with the provisional data of which the baseline values are treated as constants, seasonal changes in the data which amounts to approximately 1minpp in the declination and 4nTpp in the vertical component are corrected in the definitive data. The definitive data show that the annual rates of the geomagnetic field change at YAT in 2013 are approximately -2min for the declination, -4nT for the horizontal component, +52nT for the vertical component and +37nT for the total intensity, respectively