

Recent Status of the VGOS Network in the World

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The International VLBI Service for Geodesy and Astrometry (IVS) is promoting VGOS (VLBI Global Observing System), a new VLBI system to be the VLBI component of the GGOS, to achieve 1-mm position accuracy on global scales, continuous measurements of station positions and Earth orientation parameters, and turnaround time to initial results of less than 24 hours.

VLBI antennas of the VGOS network are required to have fast slewing speed (12 degrees per second) and broadband receiving system (frequency of 2-14 GHz). VLBI antennas compliant with VGOS have been constructed in four countries, and seven countries have plans of VGOS construction. Moreover many experiments related with VGOS are carried out to realize VGOS observation in these stations.

In March 2014, GSI has constructed a new VLBI antenna fully compliant with VGOS in Ishioka, Japan, which is the first VGOS antenna in the Asian countries.

We will talk on the current status of the VGOS network in the world and the operation of the Ishioka VGOS antenna.

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