

Recent Progress of VGOS and its role on GGOS

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The International VLBI Service for Geodesy and Astrometry (IVS) has strived to establish a new VLBI system, VGOS (VLBI Global Observing System). The key elements of VGOS are fast slewing, 12-m class antenna, capability of receiving broadband quasar radiation between 2 and 14 GHz in a continuous frequency band, and data processing technology at a high data rate of up to 32 Gbps. IVS demonstrated the first international continuous campaign with six VGOS stations in December 2017 (CONT17) as well as regular fortnightly 24-h experiment. In addition, a number of new telescopes are expected to be available within a few years. Through every endeavor in all aspects, IVS has made progress toward a realization of VGOS to contribute to the Global Geodetic Observing System (GGOS) with more accurate, reliable and continuous products.

This talk will summarize the current status of VGOS and its future prospects.