

KVN Station Report, TOG-meeting, May 5, 2020

General Information

KVN participates in EVN sessions with 2Gbps mode and GMVA session with 4Gbps mode using new backend system OCTAD since OCT 19 session. Although there were some minor troubles such as polarization mismatch and delay of observation start due to operational mistakes, observations were smoothly conducted without serious problem.

EVN session Oct/19

KVN Yonsei and Tamna stations participated in 5 experiments n19k3, ek046a, ec071a, ek045a, and eb074a in 22GHz. There was no serious system trouble in Yonsei and Tamna. KVN Ulsan station participated in only ek045a and eb074a because of heavy rain and maintenance work of sub-reflector control unit. Total observation times were about 50 hours for Yonsei and Tamna, and 30 hours for Ulsan.

EVN session Feb/20

All three KVN stations participated in four 22GHz experiments n20k1, ek044, ek046g and ec071e for total 30 hours. There was no major problem.

Extended KVN project

The extended KVN project to construct another new KVN telescope in South Korea started in January 2020. The new telescope will be almost identical to the current KVN telescope but for better surface for 230GHz observation. The new telescope will be located about 130 km from Yonsei in west providing 130km E-W baseline. Site selection and antenna design are on-going. The construction of telescope will be completed early 2022.

