Kunming Station report for the EVN TOG meeting, April 29, 2021

Feb/Mar 2021 Session:

Kunming station participated and ran normally in Feb/Mar 2021 EVN sessions. Unfortunately, because of the quite busy National Lunar and Mars missions, we only carried out EN008A and GM080 in this session. All the data was recorded on Mark5B and have transferred to JIVE by the internet.

Hydrogen Maser:

A new Hydrogen Maser (VCH-1003M) has arrived in and installed in Kunming station.

Flexbuff:

We have two 4 TB and one 16 TB Mark5B disk modules, and two 32 TB and two 16 TB Mark6 disk modules for EVN observations.

The plan to send a mark 6 suite to JIVE was still delayed because the shipment fee roared and kept to a high level still due to the COVID-19. We will wait for more time.

Software:

Field System: FS 9.11.8 running on Debian 4.1.2-25, kernel 2.6.26-2-686

DBBC versions: DDC v106/v107(beta) running on Windows XP

Mark5B version: jive5ab-2.9.0 running on Debian 4.6.3-14, kernel 3.2.0-4-amd64

CDAS 1 version: Software developed by own

C-band feed issues:

We can now confirm that there was a problem with our feed switching system, which results in the antenna efficiency being only 25% or even lower at C-band, instead of 45% under normal conditions. We need some time to try to fix and solve it.

Other issues:

Kunming is trying to install the latest Field system, FS 10.0.0.

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