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Program: AK553 Subarray(s): #1
Observer(s): Jacqueline Van Gorkom Operator(s): Sam Gilmore
Date: Monday, Oct 28 2002 Configuration: C
User Number: 330 Decommissioned: 12
Source File(s): 291K553 VLBI Ref. Ant:
Observing Mode: Line Mode 2AC VLB Antenna Pad:

API (Atmospheric Phase Interferometer) data can be found at http://www.aoc.nrao.edu/vla/html/PhaseMonitor/sitemon.html.

\*\* Weather Information \*\*

Table with 6 columns: Time (IAT) Phase, Dew Point (C), Temp. (C), Wind, Bar. Pressure (mbar), API RMS. Rows show weather data for 02Oct28 at 14:16, 15:06, and 18:32.

Operator comments for the above weather entries.
Sky Cover is 100%. Stratusform type. Heavy Fog.
Sky Cover is 100%. Stratusform type. Heavy Fog.
Sky Cover is 70%. Cumuloform type. Increasing clouds.

\*\* Visibility Tape Information \*\*

Table with 3 columns: Tape #, File #, Time of Final Record. Rows show visibility tape data for N17362 and N17363.

\*\* Monitor Tape Information \*\*

Table with 3 columns: Tape #, File #, Time of Final Record. Row shows monitor tape data for N17370.

Antenna(s) Used:

1 2 3 4 5 6 7 8 9 10 11 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

\*\* Operator Comments \*\*

02Oct28 14:12:57
Starting program: AK553, observe file: 291K553.

02Oct28 14:14:00
On source 1331+305 with all available antennas.
The band(s) used is(are) L band(s).

02Oct28 14:12:57
The on-line baseline parameters for antenna(s) 1 5 7 9 15 25 have recently been updated (prior to your observing run) to correct for errors resulting from their recent relocations. In the analysis of your data would you please check for any significant baseline errors especially on these antennas and let the Data Analysts (email - analysts@nrao.edu) know what you find when there are significant baseline errors. Thank you in advance.

02Oct28 14:12:57 - 02Oct28 15:03:00
Form #: C109941 # of Ants: 1.00 Downtime: 50.05
Antenna(s) 5 - LOCAL OSC (Local Oscillator) Problem(s);
Numerous LO related problems. LO Phase Jumps, 600 MHz RT
Phase Jumps, L14 12000 1800 not locked. Antenna parked e-stop
set. Observing Data: Lost

02Oct28 14:28:02 - 02Oct28 14:40:00
Form #: PM # of Ants: 1.00 Downtime: 11.97
Antenna(s) 16 - CRYOGENICS (Cryogenics and Vacuum
Hardware) Problem(s); Antenna parked to allow CRYO tech's to
charge compressors. Observing Data: Lost

02Oct28 14:37:05 - 02Oct28 14:49:00

Form #: PM # of Ants: 1.00 Downtime: 11.92  
Antenna(s) 26 - CRYOGENICS (Cryogenics and Vacuum  
Hardware) Problem(s); Antenna parked to allow CRYO tech's to  
charge compressors. Observing Data: Lost

02Oct28 14:40:00  
Form #: C109937 # of Ants: 0.00 Downtime:  
Antenna(s) 22 - LOCAL OSC (Local Oscillator) Problem(s);  
An LO Phase Jump; Cycle Slip has  
occurred at this time. Please check your data. Observing Data:  
Corrupted

02Oct28 14:46:13 - 02Oct28 15:03:00  
Form #: PM # of Ants: 1.00 Downtime: 16.78  
Antenna(s) 15 - CRYOGENICS (Cryogenics and Vacuum  
Hardware) Problem(s); Antenna parked to allow CRYO tech's to  
charge compressors. Observing Data: Lost

02Oct28 14:47:00  
Form #: C109937 # of Ants: 0.00 Downtime:  
Antenna(s) 22 - LOCAL OSC (Local Oscillator) Problem(s);  
An LO Phase Jump; Cycle Slip has  
occurred at this time. Please check your data. Observing Data:  
Corrupted

02Oct28 14:55:32 - 02Oct28 15:05:00  
Form #: PM # of Ants: 1.00 Downtime: 9.47  
Antenna(s) 14 - CRYOGENICS (Cryogenics and Vacuum  
Hardware) Problem(s); Antenna parked to allow CRYO tech's to  
charge compressors. Observing Data: Lost

02Oct28 15:02:13 - 02Oct28 15:12:30  
Form #: PM # of Ants: 1.00 Downtime: 10.28  
Antenna(s) 24 - CRYOGENICS (Cryogenics and Vacuum  
Hardware) Problem(s); Antenna parked to allow CRYO tech's to  
charge compressors. Observing Data: Lost

02Oct28 15:06:34  
\*\*\*\* Sonja Mendoza is your operator. \*\*\*\*

02Oct28 15:10:20 - 02Oct28 15:20:30  
Form #: PM # of Ants: 1.00 Downtime: 10.17  
Antenna(s) 6 - CRYOGENICS (Cryogenics and Vacuum  
Hardware) Problem(s); Antenna parked to allow CRYO tech's to  
charge compressors. Observing Data: Lost

02Oct28 15:18:13 - 02Oct28 15:27:30  
Form #: PM # of Ants: 1.00 Downtime: 9.28  
Antenna(s) 17 - CRYOGENICS (Cryogenics and Vacuum  
Hardware) Problem(s); Antenna parked to allow CRYO tech's to  
charge compressors. Observing Data: Lost

02Oct28 15:19:14  
Ran a backup on the Modcomp partition where observe files are kept.

02Oct28 15:25:30 - 02Oct28 15:46:00  
Form #: PM # of Ants: 1.00 Downtime: 20.50  
Antenna(s) 7 - CRYOGENICS (Cryogenics and Vacuum  
Hardware) Problem(s); Antenna parked to allow CRYO tech's to  
check the K-band dewar. Observing Data: Lost

02Oct28 15:25:30 - 02Oct28 15:46:30  
Form #: PM # of Ants: 1.00 Downtime: 21.00  
Antenna(s) 21 - CRYOGENICS (Cryogenics and Vacuum  
Hardware) Problem(s); Antenna parked to allow CRYO tech's to  
charge compressors. Observing Data: Lost

02Oct28 15:47:25 - 02Oct28 16:58:00  
Form #: PM # of Ants: 1.00 Downtime: 70.58  
Antenna(s) 23 - CRYOGENICS (Cryogenics and Vacuum  
Hardware) Problem(s); Antenna parked to allow CRYO tech's to  
charge compressors. Observing Data: Lost

02Oct28 15:53:00  
Form #: Other # of Ants: 0.00 Downtime:  
Antenna(s) 21 - LOCAL OSC (Local Oscillator) Problem(s);  
An LO Phase Jump; Cycle Slip has occurred at this time. Please check your  
data. Observing Data: Unknown effect.

02Oct28 15:57:00  
Form #: Other # of Ants: 0.00 Downtime:  
Antenna(s) 21 - LOCAL OSC (Local Oscillator) Problem(s);  
An LO Phase Jump; Cycle Slip has occurred at this time. Please check your  
data. Observing Data: Unknown effect.

02Oct28 16:02:00  
Form #: Other # of Ants: 0.00 Downtime:  
Antenna(s) 21 - LOCAL OSC (Local Oscillator) Problem(s);  
An LO Phase Jump; Cycle Slip has occurred at this time. Please check your  
data. Observing Data: Unknown effect.

02Oct28 17:00:00  
Form #: Other # of Ants: 0.00 Downtime:  
Antenna(s) 27 - LOCAL OSC (Local Oscillator) Problem(s);  
An LO Phase Jump; Cycle Slip has occurred at this time. Please check your  
data. Observing Data: Unknown effect.

02Oct28 17:28:01 - 02Oct28 18:12:00  
Form #: C109938 # of Ants: 1.00 Downtime: 43.98  
Antenna(s) 4 - FRONT END (Front end) Problem(s); Antenna  
parked for front-end technicians to fix F3 module problem.  
Observing Data: Lost

02Oct28 17:51:45 - 02Oct28 18:17:30  
Form #: C109941 # of Ants: 1.00 Downtime: 25.75  
Antenna(s) 5 - LOCAL OSC (Local Oscillator) Problem(s);  
Antenna parked for LO technicians to swap out LO modules to fix  
frequent phase jumps. Observing Data: Lost

02Oct28 18:09:20 - 02Oct28 18:39:30  
Form #: C109940 # of Ants: 1.00 Downtime: 30.17  
Antenna(s) 25 - FRONT END (Front end) Problem(s);  
Antenna parked for Front-end techs to work on U-band receiver.  
Observing Data: Lost

02Oct28 18:24:00  
Form #: Other # of Ants: 0.00 Downtime:  
Antenna(s) 21 - LOCAL OSC (Local Oscillator) Problem(s);  
An LO Phase Jump; Cycle Slip has occurred at this time. Please check your  
data. Observing Data: Unknown effect.

02Oct28 18:32:00 - 02Oct28 18:59:00  
Form #: C109922 # of Ants: 1.00 Downtime: 27.00  
Antenna(s) 7 - FRONT END (Front end) Problem(s); Antenna  
parked for Front-end techs to work on power supply problem.  
Observing Data: Lost

02Oct28 18:33:00  
Form #: C109923 # of Ants: 0.00 Downtime:  
Antenna(s) 13 - LOCAL OSC (Local Oscillator) Problem(s);  
An LO Phase Jump; Cycle Slip has occurred at this time. Please check your  
data. Observing Data: Unknown effect.

02Oct28 18:49:00

Form #: C109923                    # of Ants: 0.00                    Downtime:  
Antenna(s) 13 - LOCAL OSC (Local Oscillator) Problem(s);  
An LO Phase Jump; Cycle Slip has occurred at this time. Please check your  
data. Observing Data: Unknown effect.

02Oct28 19:08:30 - 02Oct28 19:55:00

Form #: C109903                    # of Ants: 1.00                    Downtime: 46.50  
Antenna(s) 15 - FRONT END (Front end) Problem(s); Antenna  
parked for Front-end techs to work on F12 not locking at X-band.  
Observing Data: Lost

02Oct28 19:13:00

Form #: C109923                    # of Ants: 0.00                    Downtime:  
Antenna(s) 13 - LOCAL OSC (Local Oscillator) Problem(s);  
An LO Phase Jump; Cycle Slip has occurred at this time. Please check your  
data. Observing Data: Unknown effect.

02Oct28 19:41:00 - 02Oct28 19:50:00

Form #: Interference                # of Ants: 26.00                    Downtime: 234.00  
All Antenna(s) - INTERFERE (INTERFERENCE, RADIO  
FREQUENCY (RFI)) Problem(s); RFI at approximately 1.4Ghz,  
on all IFs, affecting all antennas. Possibly the result of military  
electronic countermeasures activity. Observing Data: Corrupted.

02Oct28 20:07:00

Form #: C109923                    # of Ants: 0.00                    Downtime:  
Antenna(s) 13 - LOCAL OSC (Local Oscillator) Problem(s);  
An LO Phase Jump; Cycle Slip has occurred at this time. Please check your  
data. Observing Data: Unknown effect.

02Oct28 20:11:00

Form #: C109923                    # of Ants: 0.00                    Downtime:  
Antenna(s) 13 - LOCAL OSC (Local Oscillator) Problem(s);  
An LO Phase Jump; Cycle Slip has occurred at this time. Please check your  
data. Observing Data: Unknown effect.

02Oct28 20:13:58

End of program AK553. Total Downtime = 649.4 minutes (6.7% of total time).