

# EVN Session Overview – FEB02

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Version 1.2

The following information is mainly drawn from station feedback. Please refer to the EVN feedback pages for more details (<http://www.evlbi.org/cgi-bin/jiveese>). Stations scheduled and observed successfully (sometimes with minor failures) are indicated by  $\checkmark$ . Stations scheduled but failed to observe for some reasons are indicated by a dash (–), no feedback from a station by the date of this report is indicated by a black dot. Abbreviations for the most common minor failures are listed below. Please send suggestions or additional info to Zsolt Paragi ([zparagi@jive.nl](mailto:zparagi@jive.nl)).

## A list of abbreviations:

<b>HIGH</b>	– $T_{\text{sys}}$ higher than usual (e.g. because of weather)
<b>LATE</b>	– late start of observation
<b>LINK</b>	– problems with the microwave link between Cm and Jb
<b>HA–E</b>	– some scans missed due to HA or elevation limit
<b>PARI</b>	– high parity errors; usually means tape head offset
<b>PHAS</b>	– problems with phasing up some of the telescopes at Wb, mostly RTC and RTD (longest baselines)
<b>POIN</b>	– pointing problems, some data may be affected or lost
<b>RECO</b>	– problems with recorder, some data may be lost
<b>RFI</b>	– RFI reported
<b>SLEW</b>	– data loss due to limitations in slewing the telescope
<b>TSYS</b>	– $T_{\text{sys}}$ data are corrupted or missing in one or more channels
<b>WIND</b>	– part of the experiment missed due to severe weather conditions (gusting winds, snowstorm etc.)
<b>MISS</b>	– small parts of the experiment were missed due to any reasons not included above (e.g. operator error)

5cm	Cm	Ef	Jb	Mc	Nt	On	Sh	Tr	Wb	Ur	Ar
FTT <sup>(1)</sup>	√	− <sup>(2)</sup>	√	√		− <sup>WIND</sup>	√ <sup>HA-E</sup>	√ <sup>(3)</sup> <sub>TSYS</sub>	√ <sup>LATE</sup> <sub>MISS</sub>	√	√ <sup>(4)</sup>
EV012B	√ <sup>SLEW</sup>	√	√ <sup>TSYS</sup> <sub>SLEW</sub>	√		− <sup>WIND</sup>		√ <sup>TSYS</sup> <sub>MISS</sub>			
EP039B	√	√ <sup>(5)</sup> <sub>SLEW</sub>	√ <sup>WIND</sup> <sub>SLEW</sub>	√ <sup>HIGH</sup>		√		√ <sup>TSYS</sup>			
EP041B	√ <sup>(1)</sup>	√ <sup>LATE</sup> <sub>POIN</sub>	√	√		√		√ <sup>TSYS</sup>			

1. Note: the fringe-test (F02L1) was performed at 18cm
2. Ef in F02L1: could not observe due to urgent technical work
3. Tr: due to a problem with the IF distributor, FS could not carry out  $T_{\text{sys}}$  measurements. This affected all experiments from F02L1 to EL028
4. Ar in F02L1: fringes have not been found for unknown reasons
5. Ef in EP039B: some scans lost due to failure of the angular encoders; some skipped for pointing

18cm	Cm	Ef	Jb	Mc	Nt	On	Sh	Tr	Wb	Ur	Ro
EM047	-LINK	√ <sup>PARI</sup>	√ <sup>(2)</sup> <sub>WIND</sub>	√		√	√	√ <sup>(4)</sup> <sub>TSYS</sub>	√ <sup>HA-E</sup> <sub>RFI</sub>		
EC018	-LINK	√	√ <sup>(3)</sup>	√		√ <sub>WIND</sub>		√ <sup>(4)</sup> <sub>TSYS</sub>	√ <sup>HA-E</sup> <sub>RFI</sub>		
N02L1	-LINK	√ <sup>PARI</sup>	√ <sub>LATE</sub>	√		√ <sup>(5)</sup> <sub>WIND</sub>	√	√ <sup>(4)</sup> <sub>TSYS</sub>	√ <sup>HA-E</sup>	√	
ED020		√ <sup>PARI</sup>	√	√ <sup>(6)</sup>		√ <sub>MISS</sub>		√ <sup>(4)</sup> <sub>TSYS</sub>	√ <sup>(7)</sup> <sub>HA-E</sub>		
EL028		√	√	√ <sub>RECO</sub>		√ <sup>PARI</sup>	√	√ <sup>(4)</sup> <sub>TSYS</sub>	√ <sup>(7)</sup> <sub>HA-E</sub>	√ <sup>(8)</sup> <sub>PARI</sub>	
ER012A	√ <sub>RECO</sub>	√	√	√		√		√	√ <sup>(7)</sup> <sub>HA-E</sub>	√ <sup>HA-E</sup> <sub>PARI</sub>	
ER012B	-RECO	√	√ <sub>TSYS</sub>	√ <sub>RFI</sub> <sub>MISS</sub>		√		√ <sub>MISS</sub> <sub>LATE</sub>	√		
ER012C	-RECO	√	√ <sub>TSYS</sub>	√ <sub>RFI</sub>		√ <sub>RECO</sub>		√	√ <sup>HA-E</sup>		
EP040	-RECO	√ <sub>MISS</sub>	√ <sub>TSYS</sub>	√		-RECO		√ <sup>(4)</sup>	√ <sup>HA-E</sup> <sub>PHAS</sub>		√ <sup>(9)</sup> <sub>TSYS</sub>
EP042A	-RECO	√	√ <sub>TSYS</sub>	√		-RECO	√	√	√ <sup>HA-E</sup> <sub>PHAS</sub>	√ <sup>(10)</sup>	√ <sup>(9)</sup> <sub>TSYS</sub>
EP042B	-RECO	√	√ <sub>WIND</sub>	√ <sub>LATE</sub>		-RECO		√	√ <sup>HA-E</sup> <sub>PHAS</sub>		
ES042C	-RECO	√ <sub>MISS</sub>	√ <sub>WIND</sub>	√		√ <sup>PARI</sup>		√	√		
EP042C	-RECO	√	√ <sub>WIND</sub>	√		√		√	√		
EB018A		√ <sub>MISS</sub> <sub>WIND</sub>	√ <sub>WIND</sub>	√		√ <sub>WIND</sub>		√	√ <sup>HA-E</sup>		
EB022	-RECO	√	√ <sub>WIND</sub>	√		-WIND	√	√	√ <sup>(11)</sup> <sub>RFI</sub>	√	
GL026	-RECO	√ <sub>WIND</sub>	√ <sub>WIND</sub>	√				√ <sup>(4)</sup>	√ <sup>HA-E</sup> <sub>RFI</sub>		
GP030B	-RECO	√ <sub>WIND</sub>	√	√ <sub>LATE</sub>		√ <sub>POIN</sub>		√	√ <sub>PHAS</sub> <sub>RFI</sub>		√ <sub>TSYS</sub> <sub>RFI</sub>
EB018B		-WIND	-WIND	√		√ <sub>HIGH</sub>		√	√ <sub>WIND</sub>		

1. Cm in EP041B: control link failed, last two scans almost completely missed
2. Jb in EM047: used MkII telescope. Several minor failures, see logs
3. Jb in EC018: Lovell was replaced by MkII in a part of the experiment because of a problem with the azimuth drive
4. Tr: No useful data from BBC7. This affects all 18cm experiments using 8 BBC
5. On in N02L1: observed only in the first 40 minutes
6. Mc in ED020: bad frequency setting for BBC1&2
7. Wb: several possible 180 degree phase jumps reported (ER012A, ED020, EL028)
8. Ur in EL028: Bonn correlator reported -1s clock offset
9. Ro: Faulty cable from L-band low noise amplifier; problems with pointing; also strong RFI (EP040, EP042A)
10. Ur in EP042A: unstable H-maser
11. Wb in EB022: polarization setup (X,Y=>RCP,LCP) changed just before the experiment, after feedback from NME (N02L1) indicated very high amplitude in crosshands

<b>3.6/13cm</b>	Cm	Ef	Jb	Mc	Nt	On	Sh	Tr	Wb	Ur	Yb
GP032		$\sqrt{\text{WIND}}$		✓		✓	✓		$\sqrt{\text{PHAS}}$	✓	$\sqrt{\text{PARI}}^{(1)}$
N02X1		$\sqrt{\frac{\text{TSYS}}{\text{WIND}}}$		✓		✓	✓		$-(2)$	✓	$\sqrt{\text{PARI}}^{(1)}$
GK022		✓		✓		✓			$\sqrt{\text{HA-E}}_{\text{PHAS}}$		✓
EM034B		✓		✓		✓	✓		$\sqrt{\text{PHAS}}$	✓	

1. Yb in GP032: many failures (see also logs). Antenna "dropped" to zero elevation three times. Channel 19 is broken
2. Wb in N02X1: major problems with mosaic mode (stuck on target source after 2 scans, no phase-referencing performed after that). This was due to a buffer overflow in software reading the VEX file with 16 channels