Table 1: **Southern Hemisphere VLBI Telescopes – System Parameters**

Telescope (Institute)	Diameter (m)	Mount	Elev. limit °	Tsys (K or Jy) at each ν (GHz) 1.4	1.6	2.3	5.0	6.0	6.7	8.4	12	22	Frequency Standard	VLBI Terminal	Available
AUSTRALIA															
Australia Telescope National Facility															
Narrabri	1 x 22m	AZEL	12	32K 340Jy	32K 340Jy	37K 530Jy	33K 350Jy	34K 350Jy	80K 850Jy	38K 430Jy	120K 1300Jy	40K 530Jy	H-Maser	LBADR	Now[1]
	6 x 22m			Sensitivity is $\sim$6 times greater than 1 x 22m antenna							x[2]				Now[3]
Mopra	22m	AZEL	12	32K 340Jy	32K 340Jy	37K 530Jy	33K 350Jy	34K 350Jy	80K 850Jy	38K 430Jy	120K 1300Jy	80K 900Jy	H-Maser	LBADR	Now[1]
Parkes	64m	AZEL	30	25K 40Jy	28K 42Jy	20K 30Jy	50K 110Jy	50K 110Jy	50K 110Jy	25K 43Jy	105K 370Jy	140K 810Jy	H-Maser	LBADR/Mk5b	Now[1]
Tidbinbilla (NASA) – 1 of 2 antennas															
DSS43	70m	AZEL	6	x	25K 23Jy	16K 16Jy	x	x	x	25K 25Jy	x	40K 60Jy	H-Maser	LBADR/Mk4-5a	Now
DSS45	34m	AZEL	8	x	x	38K 165Jy	x	x	x	20K 87Jy	x	x	H-Maser	LBADR/Mk4-5a	Now
University of Tasmania															
Hobart	26m	XYEW	$\sim$16	47K 470Jy	42K 420Jy	65K 650Jy	64K 640Jy	x	124K 1240Jy	56K 560Jy	120K 1200Jy	180K 1800Jy	H-Maser	LBADR/Mk5a	Now[5]
Ceduna	30m	AZEL	$\sim$10	x	x	57K 400Jy	65K 450Jy	x?	80K 550Jy	85K 600Jy	107K 750Jy	360K 2500Jy	H-maser	LBADR	Now
SOUTH AFRICA															
Hartebeesthoek (HartRAO)	26m	HADEC	$\sim$10	x	39K 200Jy	44K 210Jy	50K 290Jy	50K 260Jy	57K 290Jy	60K 340Jy	95K 480Jy	x	H-Maser	Mk4-5a	Now[4]

Legend: x – not available at present, p – planned, ***?** – available but Tsys not known.

[1] Detailed information for Parkes, Mopra and the Compact Array antennas is included with the separate proposal forms for these telescopes.
[2] 12GHz may be available on only 1 ATCA antenna and by special arrangement only.
[3] Depending on ATCA configuration and phase-stability conditions, it may not be possible to tie together all ATCA antennas.
[4] Hartebeesthoek is readily available by special arrangement through the VLBI scheduler.
[5] At Hobart for S & X bands (13 & 3 cm) there are 2 possibilities:

- either a single polarization (RCP) S/X system (Tsys 650 & 750 Jy respectively)
- or a dual polarization S band (Tsys 840 Jy) and a dual polarization X band system (Tsys 590 Jy)

Note 1: The Perth 27.5m & 15m antennas, the Alice Springs 9m antenna and the MOST are no longer routinely available for VLBI.
Note 2: Additional antennas may also be available in the Asia Pacific region by arrangement with the APT.
Note 3: The S2 VCR tape recording system was decommissioned in Jan 2007. All recordings are on disk via LBADR and correlated on the DiFX software correlator.