

NOTE

Limited Astronomy with the Parkes 64m Telescope

during the NASA Voyager Neptune Encounter

March-August 1988

Some tentative scheduling of astronomy observations may be made in the time not needed by NASA, on the understanding that observers may be required to relinquish the time at short notice.

Limited receiver availability was detailed in the notice of Oct 10 1988.

All potential users in this period are now asked to send in an expression of interest (before end of January) to G.A. Manefield, Secretary, Parkes Time Assignment Committee, P.O. Box 76, Epping, NSW 2121, if they have not yet done so. Please specify equipment needed and amount of time desired.

Those expressing interest will be contacted for more details if their experiment seems feasible in the light of the NASA constraints.

AUSTRALIAN NATIONAL RADIO ASTRONOMY OBSERVATORY

P O BOX 276 PARKES. NSW 2870 Tel (068) 62 3677 TLX "QASER" AA163999

C.S.I.R.O., Division of Radiophysics

OBSERVING SCHEDULE FOR 1988, QUARTER 4

1. DURATION

The duration starts at 0800 hrs on Tues 3 Jan  
and ends 0800 hrs on Sun 25 Feb.

The times listed are in Eastern Civil  
Time (i.e. either Standard Time or Summer  
Time as appropriate).

\*\*\*\*\* NOTE \*\*\*\*\*  
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\* PLEASE SEE ACCOMPANYING NOTE FOR \*  
\* INFORMATION ON OBSERVING 1989 MARCH \*  
\* AUGUST \*  
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2. DAILY OBSERVING PERIODS AND DIRECTOR'S TIME

Daily observing time is allocated from 1400 hours to 0800 hours the following morning on weekdays, and from 0800 hours to 0800 hours the following morning on public holidays, except for those marked with an asterisk (\*). On these days observing time does not begin until 1600 hours, due to extended maintenance or receiver changes.

All time outside the daily observing periods is assigned to the Director. Observers will not be able to observe during the time assigned to the Director and must be prepared to relinquish use of the equipment promptly at the end of the scheduled periods.

3. TELESCOPE OPERATION

Whenever the telescope is not stowed a qualified telescope operator must be present in the control room and, in addition, at least one other person must be present in the telescope tower or structure (but not necessarily in the control room).

#### 4. WIND RESTRICTIONS

Instruction for the operation of the telescope in wind are displayed in the control room. The telescope operator is the person responsible for any action to be taken. No one may override an automatic wind-stow operation initiated by the computer except in any emergency situation as determined by the telescope operator on duty.

#### 5. ACCOMMODATION

Accommodation at the Quarters is usually available from the night before an observing session starts until the day following the end of observations.

Any Radiophysics person whose name is not listed on the program must first obtain permission from his Group Leader before making arrangements. Other observers and intending casual visitors should contact the Observatory Director first. ALL OBSERVERS AND VISITORS MUST ENSURE THAT THE OBSERVATORY IS INFORMED OF THEIR PROPOSED ARRIVAL AND DEPARTURE TIME.

#### 6. MEAL TIMES

Breakfast : 0730-0900 Monday - Friday (Serve yourself at weekends)

Lunch: : 1230

Dinner : 1745

Please book your meals by writing your name in the book in the dining room.

#### 7. LIASON WITH OBSERVATORY STAFF

The "underlined" observer is that person designated by the observing group as the official spokesman and contact with observatory staff as regards to technical matters, driving requirements etc.

AAO	Anglo Australian Observatory
ANU	Australian National University
AR	Arecibo Observatory
ASC	The Aerospace Corporation
Cart. Obs.	Carter Observatory
Cornell	Cornell University
GSFC	Goddard Space Flight Centre
JB	Jodrell Bank
JPL	Jet Propulsion Laboratory
MPIfR	Max Planck Institute for Radio Astronomy
MSSSO	Mount Stromlo and Siding Springs Observatory
MU	Macquarie University
NRAO	National Radio Astronomy Observatory
RP	C.S.I.R.O. Division of Radiophysics
UKSTU	UK Schmidt Telescope
UP	University of Palermo
USYD	University of Sydney
UTAS	University of Tasmania

DATE	PROGRAMME 8 <sup>h</sup> 14 <sup>h</sup> 16 <sup>h</sup>	RECEIVERS			Feeds, Vertex etc	Back End	Other Specifications	Computer Programs	Assistance requested
		$\lambda$ (cm)	Tuned to frequencies/ velocities	Cal Size (K)					
* = extended maintenance period									
JAN 3 Tue 4 Wed	COOL AT RX./POINTING Parkes staff								
5 Thu 6 Fri 7 Sat 8 Sun	MAGNETIC FIELDS & DYNAMICS OF SOUTHERN GALAXIES  Haynes, Harnett (RP), Spencer Klein, Wielebinski (MPIfR)	3  6	8.4GHz (1 day)  4.75GHz (3 days)	50- 100	Circ. Pol /4 plate Lin. Pol. Vertex Rad	Bonn Polarimeter		SCAN DEKKO	
9 Mon 10 Tue 11 Wed 12 Thu 13 Fri 14 Sat 15 Sun	MILLISECOND PULSARS  Ables, Jacka (RP), McConnel, Hamilton, McCullough (UTAS) Hall (USYD)	70  48	430MHz  630MHz		Dual Pol. Linear	MKII 33KHz Filter bank + NRAO 250KHz		OWN	
16 Mon	INSTALL AT RX: Parkes staff								
17 Tue	OH MASERS: STAR FORMING REGIONS  Caswell, Forster (RP), Chapman (AAO)	18	1610-1725 MHz	5-10	Dual Lin. (OH feed) Lin. Pol. Vertex Rad.	Correlator 2 IFs each 512 ch. BW 0.2, 0.5 1.0MHz	L-band hybrid for circ. outputs	SPECTRA SPOT S	
18 Wed 19 Thu	OH/IR STARS AND GALACTIC CENTRE DISTANCE  Chapman, Stavely-Smith (AAO),	18	1610-1725 MHz	5-10	Dual. Lin. (OH feed) Lin. Pol. Vertex Rad.	Correlator 2 IFs each 512 ch. BW 0.2, 0.5 1.0MHz	L-Band for circ. outputs	SPECTRA SPOT S	

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8 <sup>h</sup> 14 <sup>h</sup> 16 <sup>h</sup>									
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JAN 20 Fri 21 Sat 22 Sun 23 Mon 24 Tue	SMALL SCALE STRUCTURE FLAT SPECTRUM SOURCES PTI (DSS42 or 45)  Duncan, White, Jauncey, Wark, Norris (RP), Reynolds (MSSSO), Savage (UKSTU)	13	2290MHz	3	S-Band RCP	PTI CONT.	PTI times  AEST Jan23 1415-0430 Jan24 1315-0315	PTI NODDY	
25 Wed 26 Thu 27 Fri 28 Sat 29 Sun	MILLISECOND AND SHORT PERIOD PERIOD PULSARS  Manchester (RP), Lyne, Johnson (JB), D'Amico (UP) Kniffen (RP/GSFC), Lim (MU/RP)	20	1300-1720 MHz	2	20CM wide band	Jodrell Bank 1 & 5 MHz filters Lim 1 MHz filters	Pulsed cal. 1pps 10Hz-1KHz	OWN	
30 Mon 31 Tue FEB 1 Wed	FLARE STARS  Lim (MU/RP), Vaughan (MU), Nelson, Slee, Troup (RP)	20	1300-1700 MHz	150	20CM wide band NC3945A noise source, 35db coupler quad hybrid	RP/MU filter bank	Minimum int. 2 mag. tapes	FAST FLARES	
2 Thu 3 Fri 4 Sat 5 Sun	FLARE STARS  Lim (MU/RP), Vaughan (MU) Nelson, Slee, Troup (RP), Sheridan	150- 60	200-500MHz	1000	Log periodic (own). Quad hybrid	RP/MU filter bank	Minimum int. 2 mag. tapes	FAST FLARES	

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FEB 6 Mon 7 Tue 8 Wed 9 Thu	8.4GHz SNR POLARISATION  <u>Milne</u> , Haynes, Stewart (RP)	3.6	8.4GHz	50- 100	Circ. Pol. /4 plate Lin. Pol. Vertex rad.	Bonn Polarimeter		SCAN DEKKO	
10 Fri 11 Sat 12 Sun	1. NON-THERMAL EMISSION: EARLY TYPE STARS 2. LOW MASS X-RAY BINARY (Simul. GINGA obs)  <u>Stewart</u> , <u>Slee</u> (RP), <u>Budding</u> (Cart. Obs)	3.6	8.4GHz	1	Noddy	Cont.		NODDY SPOT	
13 Mon 14 Tue 15 Wed 16 Thu	METHANOL MEGA MASERS  <u>Norris</u> , <u>Whiteoak</u> , <u>Kesteven</u> , <u>Troup</u> (RP), <u>Stavely-Smith</u> (AAO) <u>Lim</u> (MU/RP)	2.5	11.8-12.18 GHz	200	Dual Lin.	RP/MU filter bank		FILTER BANK	
17 Fri 18 Sat 19 Sun	OH MEGAMASERS  <u>Stavely-Smith</u> , <u>Chapman</u> , <u>Allen</u> (AAO), <u>Norris</u> , <u>Whiteoak</u> (RP)	20	1300-1700 MHz	5	20CM wide band	Correlator (4 quads 10MHz BW)		SPECTRA S SPOT	
20 Mon 21 Tue	<i>5. eq. by J. Buss. 3:15 am</i> HI IN MAGELLENIC SYSTEM  <u>Wayte</u> (MSSSO)	21	1300-1700 MHz	5	20CM wide band	Correlator (2 quads 512 ch.)		SPECTRA	

