

D. J. Cooke

C.S.I.R.O. - DIVISION OF RADIOPHYSICS

ALLOCATION OF TELESCOPE OBSERVING TIME AT PARKES RADIO OBSERVATORY

3RD QUARTER 1973

1. DURATION - The quarter starts at 0800 hours on Wednesday 27th June, 1973 and will finish at 0800 hours on Tuesday 2nd October, 1973.
2. CRYOGENICS - No cryogenic receivers have been scheduled. It is hoped that during the coming months the ancillary equipment essential for good cryogenic operation will arrive and be installed.
3. FORMAT - Please note the format:
 - (a) DAY time on Tuesdays and Wednesdays is allocated to the Officer-in-Charge, Parkes.
 - (b) The computer maintenance time on Mondays extends from 0800 to 1630 hours.
 - (c) A column headed "Computer Program Development" has been added. The times allocated (in AEST), the programmer and the program are given. Please check immediately if any of these times conflict with observing plans and contact the Secretary if adjustments are necessary.

4. OBSERVATION TIMES - The times available for observations are:

Monday	1630-0800	Friday	1300-0800
Tuesday	1300-0800	Saturday	0800-0800
Wednesday	1300-0800	Sunday	0800-0800
Thursday	0800-0800		

If the period 0800-1300 AEST on a Tuesday or Wednesday is not needed for maintenance purposes, the Officer-in-Charge, Parkes may allow observations in this period provided that a suitable alternative period of four consecutive hours is made available to any PDP-9 programmer scheduled for this time.

5. MODIFICATIONS TO THE PROGRAM - Any other modifications to this program must be approved by the Secretary, Program Planning Committee, who will notify the Officer-in-Charge and the Station Manager at Parkes.
6. TELESCOPE DRIVERS - Telescope drivers will be available for all periods allocated between 1700 and 0800 AEST (unless otherwise indicated on the program). The Duty Radio Astronomer (the person underlined) should contact the Station Manager at the start of the observing period and arrange for any driving requirements between 0800 and 1700 AEST.
7. COMPLETION OF AN OBSERVING NIGHT - Observers are expected to have organized their observations so that the telescope control desk, the computer and other equipment will be available for maintenance, testing and/or other use at or before 0800 hours on Mondays, Tuesdays, Wednesdays and Fridays.
8. POSSIBLE RADIO INTERFERENCE - The Officer-in-Charge, Parkes has drawn attention to two construction projects - an extension to the Visitors' Car Park and the new administration building in the vicinity of the 64m telescope. "Although every effort has been made to minimise interference (e.g. pre-fabrication of building off site) there is a possibility of interference with observations between 8 a.m. and 4 p.m., Mondays to Fridays inclusive for the next three months". This difficulty will continue in the 3rd Quarter but the probability of interference is reduced to about 0.1.

9. 18m TELESCOPE TIME - Southern Survey of high velocity clouds: Murray, Mathewson (ANU) and Cleary (ANU) in collaboration with Dr. R.D. Davies of the University of Manchester. Time has been allocated on the 18m telescope over considerable periods in the 3rd Quarter. In the last column of the program, asterisks indicate times when observations should be possible with the 18m telescope. Double asterisks denote times when there should be no conflict with 64m operations. At times of single asterisks, some test equipment will need to be shared and the 18m operations could be interrupted by the priority which is given to any claims which the 64m observers may have on equipment. In particular in the case of a failure of the correlator or computer the Mark II back-end and the RIDL may be needed. If an observer on the 64m telescope suspects interference arising from the 18m equipment, he may ask for it to be switched off for a short period (~30 minutes) for tests to be made. If it can be definitely proved that the source of interference is 18m equipment, the 64m person will have priority.

10. SOME ABBREVIATIONS IN USE -

- Numerals (21, 11, 18 ...) refer to receiver wavelength in cm.
- Cs : Caesium standard
- C/m : Computer maintenance
- c/m : CRO monitor
- c/r : Chart recorder
- X-Yp : X-Y plotter
- MkII : Means that the receiver output at 30 MHz is connected to the multi-channel section of the 30 MHz and 6.7 MHz IF's and 64 channels of either 1, 10, 100 or 33.3 kHz filters.
- d/c : Desk check
- P.T.U. : Pulsar Timing Unit
- H/P, Schl.Synths.: Hewlett-Packard, Schlumberger synthesizers
- Synch : Synchronizers
- D.A. : Duty Astronomer

11. ACCOMMODATION - Accommodation at the quarters is available from the night before an observing session or installation session starts. Any person whose name has not been listed in the program and who requires accommodation, must first obtain permission from the Group Leader before approaching the administration section for tickets and arrangements.

12. TIMES FOR MEALS - Please write your meal requirements in the book in the dining room.

- Breakfast : 0730-0900
- Lunch : 1230
- Dinner : 1745

13. SOLAR OBSERVATIONS - (⊙ †) Dulk, McLean and Archer will be observing solar bursts in August and September. They have requested -

- i) that visitors' cars would not be allowed past the main gate between 1500 AEST and "64m" sunset
- ii) that noisy site vehicles such as lawn mowers be stopped during their periods of observation.

The Officer-in-Charge, Parkes has agreed to implement these requests.

20th June, 1973

D.J. Cooke
 B.F.C. Cooper
 M.M. Komesaroff
 R.X. McGee (Secretary)
 J.A. Roberts (Group Leader)
PROGRAM PLANNING COMMITTEE

DATE 1973	DAY 08h-13h	13 ^h - 24 ^h - 08 ^h	Feeds, Focal Plane Requirements Other	Receivers		L.O., Pumps, Phase Locks Multipliers	Test Equipment	Data Processing	Computer Program	Installation, Driving Requirements, Remarks	Computer Program Development
				Front End	Back End						
AUGUST											
Mon 6	C/m	Survey (continued)		11							**
Tue 7	⊙	⊙ Pol Type III Solar Bursts	200 X dipoles	2 x 200	Polarim.	180 MHz LO	C/m Vector	2, 3 pen		5 cal control	**
Wed 8	⊙	DULK, McLEAN, ARCHER	Dipole at Vertex	20kHz filter (own)	(own)	Noise Diode 2 Dir.Coupl.	voltmeter	C/r's		cables 2IF, 1LO cable Track Sun ↑	**
Thu 9	⊙	Interacting Galaxies	Dual	11	Contin.			PDP9 T/P & P offline	Own NODDY		**
Fri 10	⊙d/c,C/m							X-Yp	STAKFL		**
Sat 11	⊙	WRIGHT						TTY on line	POINT PRECN 9		**
Sun 12	⊙	Fast Survey SHIMMINS	Dual	11							**
Mon 13	C/m	Compact Galaxies	Dual	11	Same			PDP9	STAKFL	Drivers all time	**
Tue 14	⊙								PRECN 9		**
Wed 15	⊙	SLEE, HUCHTMEIER							POINT NODDY POSN 30	23-03 } SHIMMINS, COOKE 23-03 } ?	**
Thu 16											**
Fri 17	d/c,C/m	<u>Circular Polarization of low lat. sources and Jupiter</u>	21 Circular Pol.system	21-c	Contin.	Own ∅ lock L.O.	Vertex pol. radiator	PDP9, PBU 2 pen c/r	POLAR 4 P52, BANG, DRIVE RAA TAM	1st half driver 1st night to be technical man. All available day time	13+ RIBES-POLAR changes
Sat 18											
Sun 19											
Mon 20	C/m	RIBES, BIRAUD (Meudon Observatory)									
Tue 21	O.I.C.	MURRAY, ROBERTS									08-13 } LEE, HUNT **
Wed 22	Pks	Vacant									08-08 } TRET, BUTLEP **
Thu 23		[Reinstall 11 cm]									08-08 } FELLOWS **
Fri 24	d/c,C/m										08-08 } Map, OPTY, Lib, ** Dos.
Sat 25		Infra-red Sources	Dual and Single	11	Contin.			PDP9 T/P & P off line	Own STAKFL		**
Sun 26		WRIGHT, PURTON (York Uni.)	Cold load					X-Yp			**
Mon 27	C/m	(FELDMAN - York Uni.)									**

Rain Aug

IAU

IAU

IAU

Liquid N₂

*IAU**

IAU -

Fredson Temp

← Install 11. Cold load.

DATE 1973	DAY 08 ^h -13 ^h	13 ^h - 24 ^h - 08 ^h	Feeds, Focal Plane Requirements Other	Receivers		L.O., Pumps, Phase Locks Multipliers	Test Equipment	Data Processing	Computer Program	Installation, Driving Requirements, Remarks	Computer Program Development
				Front End	Back End						
AUGUST											
Tue 28	O.I.C.	New SNR's; Mass loss	lHE Sky Horn	11	Contin.	Usual	Usual	PDP9 2 pen c/r Scan Average	Mag. or paper tape	Drivers	23-11 } HUNT-CORLAT**
Wed 29	Pks	nebulae near W-R stars									23-11 } OPTY **
Thu 30		PRICE (M.I.T.)									23-11 } New System**
Fri 31	d/c,C/m			Leave 11 receiver in situ							23-11 } **
SEPT.											
Sat 1	⊙	Vacant 1800-0800	200 X dipoles 200 dipole at vertex	2 x 200 20 kHz filter (own)	Polarim. (own)	180 MHz LO Noise Diode 2 Dir.Coupl.	C/m Vector Voltmeter	2, 3 pen c/r's		5 Cal.control cables, 2IF, ILO cable Track Sun; †	16-08 } BUTLER- **
Sun 2	⊙	⊙ Pol. Type III Solar Bursts									16-08 } System Work**
Mon 3	⊙	DULK, McLEAN, ARCHER									16-08 } **
Tue 4	⊙ O.I.C.	Source Survey	Dual	11	Contin.	Usual		PDP9	SUR POSN	Usual	**
Wed 5	⊙ Pks										**
Thu 6	⊙	BOLTON, BUTLER									**
Fri 7	⊙d/c,C/m	SHIMMINS, WALL									**
Sat 8	⊙										**
Sun 9	⊙										**
Mon 10	C/m	H127α in Sgr. B2, A	9 Own + offset C-band absorber if possible	9-l	Correl. MkII line	Own ∅ lock H-P, Schl. Synths. Cs, C/m.	2-4 GHz Sweeper S-band w/m. K-band w/m. Power meter	PDP9 Dectape X-Yp 2 pen c/r	CORLAT LINE OPTY LINRED Pulsar Obs.	Absorber (new) to be fitted	
Tue 11	O.I.C.	Orion Nebula, RCW38									
Wed 12	Pks	SINCLAIR, McGEE									
Thu 13		NEWTON	Pulsar Signal amp. Vela.								
Fri 14	d/c,C/m		RADHAKRISHNAN (Raman R.I.)								
Sat 15	Pulsar										
Sun 16	amp. 13 ^h	02 ^h BROOKS MANEFIELD									

IAU →

IAU G →

*

Find on days

DATE 1973	DAY 08 ^h -13 ^h	13 ^h - 24 ^h - 08 ^h		Feeds, Focal Plane Requirements Other	Receivers		L.O., Pumps, Phase Locks Multipliers	Test Equipment	Data Processing	Computer Program	Installation, Driving Requirements, Remarks	Computer Program Development
					Front End	Back End						
SEPT. Mon 17	C/m	(Cont.)	Pulsar (Cont.)		9-l							
Tue 18	Pulsar 13 ^h (Cont.)		02 ^h									
Wed 19												
Thu 20		HNO, H ₂ CS, CH ₃ CHO	As above	9-l	MkII line Correl.	Same	Same	PDP9 Same	CORLAT LINE LINRED	1st night driver		
Fri 21	d/c,C/m	mapping										
Sat 22		FOURIKIS, <u>SINCLAIR</u>										
Sun 23												
Mon 24	C/m											
Tue 25	O.I.C.	Scattering H ₂ O radiation	1.3	1.3-l to tune ±54 MHz from H ₂ O line centre.	Correl.			PDP9	CORLAT	2 days Installation		*
Wed 26	Pks	by OH clouds										*
Thu 27		RADHAKRISHNAN,										*
Fri 28	d/c,C/m	<u>BATCHELOR</u>										*
Sat 29		WHITTLE, McCULLOCH										*
Sun 30		BROOKS										*
OCT. Mon 1	(HOLIDAY)											*
END OF QUARTER												