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

## ALLOCATION OF TELESCOPE OBSERVING TIME AT PARKES RADIO OBSERVATORY

## 2ND QUARTER 1973

- 1. DURATION The quarter starts at 0800 hours on Tuesday 24th April, 1973 and will finish at 0800 hours on Wednesday 27th June, 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. Priority in 3rd Quarter will be available for unsuccessful applicants for cryogenic receivers this time.
- 3. CHANGES TO FORMAT Please note some changes to 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 program name and the programmer(s) are shown on the left and the times allocated on each CPD day on the right, in Australian Eastern Standard times.
- 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 times allocated for observing (unless otherwise indicated) in this program. If observations are not planned for any of the allocated time so that drivers are not needed, please inform the Station Manager as early as possible. [This applies particularly to allocated daytime].
- 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. prefabrication 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".

9. 18m TELESCOPE TIME - Southern Survey of high velocity clouds: Murray, Mathewson (ANU) and Cleary (ANU). Time has been allocated as shown on the 18m telescope over considerable periods in the second 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 the 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 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

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

1.84	DATE	08h- 13h.	13 <sup>h</sup> - 24 <sup>h</sup> - 08 <sup>h</sup>	Feeds, Focal Plane	Recei	vers	L.O., Pumps, Phase Locks	Test	Data	Computer	Installation, Driving	Computer
1	1973	08"- 13"	13 - 24 00	Requirements Other	Front End	Back End	Multipliers	Equipment	Processing	Program	Requirements, Remarks	Program Development
	APRIL											
	Tue 24	0.I.C.	Fine Structure high vel.	20 Hybrid modes	21-1	Auto correl.	H/P Synth + switch box		PDP9 Correlator	CORLAT	JDM to install technical man	Kennedy {06-08
	Wed 25	Parkes	Clouds			MkII on standby				(LINE)	to be driver lst night	LEE 06-13
	Thu 26		MURRAY, MATHEWSON (ANU)	L-band absorber	·	·						
	Fri 27	C/m,d/c	CLEARY (ANU)									
	Sat 28									- -		*.
	Sun 29		H-line absorption of	20 H-line	21-2	Correl.						
	Mon 30	C/m	Polarized radio emmission	lin.pol. sky horn	,						· · · · · · · · · · · · · · · · · · ·	
	MAY		<del></del>									
	Tue 1	0.1.c.	GARDNER, WHITEOAK								•	Survey 08-13
	Wed 2	Parkes										HAYNES 08-13
	Thu 3		Ketene Search	Own feed L-band	30. 2	Auto correl.	H/P, Schl.	1-2 GHz Sweeper	PDP9 Auto- correl.	CORLAT	Driver 1st night, all	
	Fri 4	C/m,d/c		absorber	receivers		Synths.	Sweeper	Dec tape X-Ypl		Sat. Sun.	
	Sat 5		FOURIKIS, BROWN (Monash)						_			
	Sun 6		GODFREY (Monash)					-				
7	Mon 7	C/m										1
Biranes	Tue 9	o.1.c.	·									VT05 Handler 08-13
September 1	Wed 9	Parke <b>s</b>				·						HUNT 08-13
	Thu 10											
	Fri 11	C/m,d/c	Continuum Survey	lhe	11.	Broad- band		CRO 2 beam	Calculator	OBSERV.		
	Sat 12	- M. T. de Timede e Westlyn o yng yf yng yn ym yn y yn y	HAYNES, CASWELL			continuum		2 Deam				
	Sun 13					,						
Park State S	Mon 14	C/m	Polarization	1HE	ll pol.	Continuum		·	PDP9	Own +	ere ere de verschende die de erenne de de verschende de verschen d	- 04-08
	Tue 15	o.r.c.	MILNE		mode				2 DC amps	PS1/1.		BUTLER 08-12

Kevis

				Feeds, Focal							Installation,	
DAT 197		08 <sup>h</sup> - 13 <sup>h</sup>	$13^{h} - 24^{h} - 08^{h}$	Plane Requirements	Recei		L.O., Pumps, Phase Locks Multipliers	Test Equipment	Data Processing	Computer Program	Driving Requirements,	Computer Program
				Other	Front End	Back End	Mulcipilers				Remarks	Development
MAY	- 1											
Wed	16	Parkes	Fast Survey	2 Horn	11.	Continuum			PDP9	Own		VTO5 Handler
Thu	17		BOLTON, SHIMMINS									08-12 HUNT 08-12
Fri	18	C/m,d/c	WALL									
Sat	19		Interacting Galaxies					1	PDP9	NODDY		
Sun	20		WALL, WRIGHT						1 off line teletype	POINT PRECN 9		·
Mon	21	C/m		·								
Tue	22	0.I.C.	Pulsar Search	Own feed	47.2	Own	2 x 735 MHz	Tetronix	PDP9 Line	Own	Driver from	VTO5 Handler
Wed	23	Parkes		(635 MHz)	<b>,</b>		GR Oscill. H/P Synth.	H53 Power Meter HP	Printer Disk c/r		1600 1st day 1600-0800	+ 08-12 Monitor 08-12
Thu	24		McCULLOCH,				P.T.U.	Counter Sweeper			week days all day Sat. Sun.	HUNT Consult
Fri	25	C/m,d/c	KOMESAROFF, ABLES								au y ou o o u	D.A.
Sat	26		HAMILTON (Uni. of Tas.)					<u> </u>				
Sun	27		COOKE									
Mon	-	C/m	7									•
Tue	-	0.I.C.										
	İ	-					,					Survey 08-13
Wed	1	Parkes									•	HAYNES 08-13
Thu												LEE Consult D
Fri	1	C/m,d/c	Water Vapour	Own feed	K-band	6cm back	H/P Schl.	CRO	Correl.	CORLAT,	Request	
Sat	2			lateral focus h-f	+ 18cm	end, Correl.	Synths. H/P klystm.	Sweep gen.	Computer	OPTY, LINE		- 08-13
Sun	3		BATCHELOR,	absorber vertex		MkII	P/S Dymec synch. X13	power meter			check	BUTLER 08-13
Mon	4	C/m	HAYNES, CASWELL	rotator			klystron, 18cm phase					BOTILER OG-13
Tue	5	0.I.C.	G. McCULLOCH,			·	locked klystron				ŕ	- 08-13
Wed	6	Parkes	HUCHTMEIER				Microwave Systems	* .				COOKE 08-13
Thu	7						synch.					
		The second secon										

DATE	DAY 08h- 13h	13 <sup>h</sup> - 24 <sup>h</sup> - 08 <sup>h</sup>	Feeds, Focal Plane	Recei	vers.	L.O., Pumps, Phase Locks	Test	Data	Computer	Installation, Driving	Computer Program	
1973	08~ 13		Requirements Other	Front End	Back End	Multipliers	Equipment	Processing	Program	Requirements, Remarks	Development	
JUNE	·							·				
Fri 8	C/m,d/c	Millimetre Surface Project	·	-						Telescope on	HUNT Time as	;  *
Sat 9		YABSLEY, LOUGHRY (NSL)								blocks, at zenith	BUTLER con-	- *
Sun 10		·				No dr	ivers requi	red if weath	er stable	& winds low.	sultation SHIMMINS	*
Mon 11	C/m	Polarimeter tests with autocorrelator	1HE L-band	18-L Dual	Correl. Mk II	H/P Schl. synth. Cs	L-band	PDP9, Dec	CORLAT			*
Tue 12	o.r.c.	SINCLAIR, BROOKS	absorber	channel	I.f's at 300,	std. phase	sweeper L-band wave	tape X-Y	OPTY	·	- 02-0	8 *
Wed 13	Parkes	MOOREY, COOPER			30 MHz	klystron c/m	meter,	c/r			WALL 02-0	8 *
Thu 14		High Vel. OH Features		(1665 MHz)		Cym	meter			Drivers lst, 2nd halves.	BUTLER 08-1	3 *
Fri 15	C/m,d/c	HUCHTMEIER, BATCHELOR		, raim,						Ziid Haives.		*
Sat 16		OH Absorption Cent.A, NGC 253	lin.pol. feed	18-L				c/r, 2 pen	CORLAT			*
Sun 17		GARDNER, WHITEOAK							OPTY			*
Mon 18	C/m	1612 Emission Sources				·		Computer				*
Tue 19	0.I.C.	CASWELL, HAYNES						calculator			Kennedy 08-1	3 *
Wed 20	Parkes									·	LEE 08-1	3 *
Thu 21		H159α in weak HII CASWELL							-			*
Fri 22	C/m,d/c	Propynal, Acrylonitrile	Own feed h-f	3.3 9.326 GHz	Correl.	Polarad Dymec.	8-12 GHz sweep	Correl./ PDP9	CORLAT	Driver lst night		*
Sat 23			absorber	9.485 GHz X-band			-	X-Ypl Dec tape		all Sat.Sun.		*
Sun 24		FOURIKIS, BROWN (Monash)		mixer				***				*
Mon 25	C/m	GODFREY (Monash)										*
Tue 26	0.I.C.										- 08-1	3 *
Wed 27	Parkes	END OF	QUARTER								SHIMMINS 08-1	3