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.

: Caesium standard ·: Computer maintenance C/m : CRO monitor c/m 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

ynch : Synchronizers

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 (0 +) 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.

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

20th June, 1973

					Feeds Focal				T	7	-	Page 1
	DATE DAY 1973 08 ^h -13 ^h		$13^{h} - 24^{h} - 08^{h}$	Feeds, Focal Plane	Rece	ivers	L.O., Pumps, Phase Locks	Test	Data	Computer	Installation, Driving	Computer Program
	13/3	00 13		Requirements Other	Front End	Back End	Multipliers	Equipment	Processing		Requirements, Remarks	Development
	JUNE											
	Wed 27	0.1.c.	Recombination Lines	Own already	3.3	Correl.	Polarad	X-band	PDP9	CORLAT	lst night	
	Thu 28		η Car and RCW38 only	installed		MkII line	Dymec.	Sweeper		LINE	driver	*
	Fri 29	d/c,C/m		Absorber								
•	Sat 30		FOURIKIS, HUCHTMEIER									*
	JULY				:		·					
	Sun 1											*
5	Mon 2	C/m	Install Receiver	H-line	21-2	MURRA	Y et al				Tech man 1st	17-08) BUTLER, TRETT
	Tue 3	0.I.C.	VACANT	·	Planting and the planti						half driver	08-13) FELLOWS. Lib, DOS 13-08 WALL, STAKFL/SUR
	Wed 4	Pks	Search 2 ₁₁ -2 ₁₂ Vinyl cyanide	H-line L-band	21-l Filter	MkII line 10, 33,	LO at 1400		PDP9	LINE		
	Thu 5		and	Absorber	for 1370 MHz	100						
İ	Fri 6	d/c,C/m	Galaxies H-line		to reject 1430 MHz		Freq.Switch		PDP9 LINE			
	Sat 7		GARDNER, WHITEOAK									
	Sun 8 Mon 9		(WINNEWISSER, M.P.I.)		·							
-	Tue 10	C/m										
	Wed 11	O.I.C.	High Velocity Clouds	H-line l hybrid	21-l	Correl.	H/P.Synth. Thumbwheel	L-band sweeper	PDP9 X-Yp	CORLAT		08-13) HUNT New DOS
	Thu 12	FKS	Fine Structure, special regions	mode		power MkII in	box. Freq. mult.	pads, detectors				08-13 System changes
	Fri 13	d/c,C/m	MURRAY,			reserve	-	CRO				•
	Sat 14	4,0,0,111	MATHEWSON, CLEARY (ANU)	L-band absorber								
	Sun 15		DAVIES (MANCHESTER UNI.)									
	Mon 16	C/m	(HVC Continued)									
		-	(nvc continued)									



•				Feeds, Focal	Receivers 1		L.O., Pumps,				Installation,	Tage 2
	DATE 1973	08 ^h -13 ^h	$13^{h} - 24^{h} - 08^{h}$	Plane Requirements Other	Front End		Phase Locks Multipliers	Test Equipment	Data Processing	Computer Program	Driving Requirements, Remarks	Computer Program Development
	JULY Tue 17	0.I.C.	(HVC Continued)									21-01) LEE-mapping
*	Wed 18	Pks									,	21-01 program
	Fri 20 Sat 21 Sun 22 Mon 23	d/c,C/m	Tests - 18 cm receiver, correlator COOPER, SINCLAIR MOOREY, HUNT	1HE L-band absorber	18	MkII line Correl.	Own p lock HP,Schl. Synths.	L-band sweeper L-band wavemeter power- meter	PDP9	LINE	Drivers not required lst two days	+ HUNT, TRETT + CORLAT changes + DOS system up- date + TRETT, FELLOWS
	Tue 24 Wed 25 Thu 26	O.I.C.	OH line (1612),	1HE	18 Dual chan.	Correl. MkII line	Usual	Usual	PDP9	CORLAT		+ Systems, Library, DOS + consult COOPER for time
	Fri 27 Sat 28 Sun 29	d/c,C/m	Hl59α, Continuum	Absorber	tuned to 1612- 1620	in reserve				STAKFL + own		LEE, HAYNES * 0230-0630 *
	Mon 30	C/m	CASWELL, HAYNES									Mapping Program*
*	AUGUST Wed 1	O.I.C.	Electro-opt. spectrograph T. COLE	Crossed Dipole + hybrids 100-200 log.per.	47.6	Own	GR at 900	100-200 sweeper	Dark room for film develop.	e e	D76 +fixer and tank Requires Tech. help.	08-16) WALL-STAFFL* 08-16) SUR *
*	Thu 2		Receiver Installation		11	C O O K E	et al					**
	Fri 3 Sat 4 Sun 5		Survey WALL, BOLTON BUTLER, SHIMMINS	Dual	11	Continuum	Usual		PDP9	SUR. POSN.	Usual	**

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٥	DATE 1973	DAY 08h-13h	13 ^h - 24 ^h - 08 ^h	Feeds, Focal Plane Requirements	Recei	Γ	L.O., Pumps, Phase Locks Multipliers	Test Equipment	Data Processing	Computer Program	Installation, Driving Requirements,	Computer Program Development
				Other	Front End	Back End	-		¥ *		Remarks	
	AUGUST				8							
	Mon 6	C/m	Survey (continued)		11				,			**
	Tue 7	0 OPOL T	'ype III Solar Bursts	200 % dipoles Dipole at	2 x 200 20kHz	Polarim.	180 MHz LO Noise Diode	C/m Vector voltmeter			5 cal control	**
	Wed 8	O DULK,	McLEAN, ARCHER	Vertex	filter (own)		2 Dir.Coupl.	voltmeter	C/r's		cables 2IF, 1 cable Track Su	
	Thu 9	0	Interacting Galaxies	Dual	11	Contin.	e e e e e e e e e e e e e e e e e e e		PDP9	Own		***
	Fri 10	⊙d/c,C/m							T/P & P offline X-Yp	NODDY STAKFL POINT		**
Ruinhar	Sat 11	0	WRIGHT		,				TTy on line			**
Van.	Sun 12	0	Fast Survey SHIMMINS	Dual	11							**
	Mon 13	C/m	Compact Galaxies	Dual	11	Same			PDP9	STAKFL PRECN 9	Drivers all time	**
	Tue 14	0			o .			-		POINT NODDY	all time	23-03) SHIMMINS, **
Δ. Δ	Wed 15	0	SLEE, HUCHTMEIER							POSN 30		23-03 ? **
ILUA	Thu 16								e a			**
> *	Fri 17	d/c,C/m	Circular Polarization of low lat. sources	21 Circular	21-c	Contin.	Own Ø lock	Vertex pol.	PDP9, PBU	POLAR 4	lst half driver	13→ RIBES-PCLAR
ZAD:>	Sat 18		and Jupiter	Pol.system			п.о.	radiator	2 pen c/r	BANG, DRIVE	lst night to be technical	changes
'	Sun 19		RIBES, BIRAUD					e E	C/I	RAA TAM	man. All available	
	Mon 20	C/m	(Meudon Observatory)	*				*, *	,	IAM	day time	
CALL	Tue 21	0.I.C.	MURRAY, ROBERTS					-				08-13 LEE, HUNT **
THO	Wed 22	Pks	Vacant	Tasta	IIII. Colu	hood.		esa a				08-08 TRETT, BUTLEP**
V: 30	Thu 23		Reinstall 11 cm									08-08 FELLOWS **
Kiquidha	Fri 24	d/c,C/m	15									08-08 Map,OPTY,Lib,
TAVE	Sat 25		Infra-red Sources	Dual and Single	11	Contin.			PDP9 T/P & P	Own STAKFL		Dos. **
*	Sun 26		WRIGHT, PURTON (York Uni.)	Cold load					off line	JIMEL		**
IAU -	Mon 27	C/m	(FELDMAN - York Uni.)						n-ip			**
								-				

*													ruge 4
•	DATE 1973	DAY 08 ^h -13 ^h	13 ^h - 24 ^h	- 08 ^h	Feeds, Focal Plane Requirements	Recei	vers	L.O., Pumps, Phase Locks	Test Equipment	Data Processing	Computer Program	Installation, Driving Requirements,	Computer Program
	19/3	0813			Other	Front End	Back End	Multipliers	Equipment	Processing	Program	Remarks	Development
	AUGUST			Accessor Contraction of Contraction									
IAU ->	Tue 28	0.I.C.	New SNR's; Mas	ss loss	lHE Sky Horn	11	Contin.	Usual	Usual	PDP9 2 pen c/r	Mag. or paper	Drivers	23-11 HUNT-CORLAT**
	Wed 29	Pks	nebulae near W	-R stars	ony norm				2	Scan	tape		23-11 CPTY **
	Thu 30		PRICE (M.I.T.)	2						Average	2		23-11 New System**
	Fri 31	d/c,C/m		13		Leave 11 r	eceiver in	situ					23-11) **
	SEPT.												
INU GR	Sat 1	0 Vaca	int 1800-0800	0	200 X dipoles 200 dipole	2 x 200 20 kHz	Polarim.	180 MHz LO Noise Diode	C/m Vector	2, 3 pen c/r's	-	5 Cal.control cables, 2IF,	16-08) BUTLER- **
	Sun 2	0 0 Pol.	Type III Solar I	Bursts	at vertex	filter	(0)	2 Dir.Coupl.	Voltmeter	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1 2 2 1	16-08 System Work**
	Mon 3	on 3 @ <u>DULK</u> , McLEAN, ARCHER		when deline with Makey in dear Makey to the American Colonia of Street Makey in the Colonia of Street Makey in	(own)						1	16-08) **	
	Tue 4	0 O.I.C.	Source Survey		Dual	11	Contin.	Usual		PDP9	SUR	Usual	**
	Wed 5	⊚ Pks			¥	-					POSN		**
	Thu 6	0	BOLTON, BUTLER										**
	Fri 7	@d/c,C/m	SHIMMINS, WALL							-			**
	Sat 8	0	•		1								**
	Sun 9	0		4/							и		**
*	Mon 10	C/m	H127α in Sgr. H	32, A	9 Own	9-l	Correl.	Own Ø lock	2-4 GHz	PDP9	CORLAT	Absorber (new)	
	Tue 11	0.I.C.	Orion Nebula, I	RCW38	+ offset C-band		MkII line	H-P, Schl. Synths.	Sweeper S-band	Dectape X-Yp	LINE OPTY	to be fitted	
	Wed 12	Pks	SINCLAIR, MCGE	<u> </u>	absorber if possible			Cs, C/m.	w/m. K-band	2 pen c/r	LINRED Pulsar		
	Thu 13		NEWTON Pulsa	- 1					w/m. Power		Obs.		
	Fri 14	d/c,C/m	amp.	Vela.		-	g		meter				
	Sat 15	Pulsar		AKRISHNAN an R.I.)		o .	SE .						
	Sun 16	amp. 1		ROOKS NEFIELD						el .			

DATE DAY 1973 08 ^h -13 ^h		h l	13 ^h - 24 ^h - 08 ^h		Feeds, Focal Plane	Receivers		L.O., Pumps, Phase Locks	Test	Data Processing	Computer	Installation, Driving	Computer Program
197.	00 -13				Requirements Other	Front End	Back End	Multipliers	Equipment	Processing	Program	Requirements, Remarks	Development
SEP'	17 C/m	(Cont.)	Pulsar (Cont.)		9-l							
Tue :	(Cont	r 13"		02h	·	and the second s				· · · · · · · · · · · · · · · · · · ·			
Thu	20	HNO, H	2 ^{CS, CI}	н 3СНО	As above	9-l	MkII line	Same	Same	PDP9 Same	CORLAT LINE	lst night driver	
Fri	21 d/c,C/	m mappin	g				Correl.				LINRED		
Sat :	ŀ	FOURIK	FOURIKIS, SINCLAIR										
Sun 2								,					
Mon 2			, , , , , , , , , , , , , , , , , , ,									manua a reguenta i de polo e e i e e e e e e e e e e e e e e e e	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Tue 2	*			O radiation	1.3	1.3-L to tune	Correl.	·		PDP9	CORLAT	2 days Installation	*
Wed 2		ру ОН				±54 MHz from							*
Thu 2			RISHNAN	ν,		H ₂ O line							*
Fri		n BATCHE	LOR			centre.						. *	*
Sat 2	l	WHITTLE, McCULLOCH										*	
Sun 3	BROOKS						,				*		
OCT.	OCT.												
Mon	Mon 1 (HOLIDAY)												*
	en periodi de la composition de la comp				END								