D.J. Cooke

CSIRO - DIVISION OF RADIOPHYSICS

ALLOCATION OF TELESCOPE OBSERVING TIME AT PARKES RADIO OBSERVATORY

THIRD QUARTER, 1974

1. DURATION - The quarter starts at 0800 hours on Saturday, 29 June 1974 and will finish at 0800 hours on Tuesday 8 October 1974. The October shut-down of ten days for telescope overhaul will start on that day.

   Note that the last two days of the Second Quarter have been transferred into the Third Quarter.

2. FORMAT - Please note:

   (a) Computer Maintenance on Mondays is from 0800 to 1630 hours

   (b) Tuesdays, Wednesdays, Thursdays 0800 to 1300 are allocated to the Officer-in-Charge, Parkes

   (c) Fridays 0800 to 1300 hours are allocated for Computer Maintenance and Desk checks

   (d) Computer Program Development on Tuesdays, Wednesdays and Thursdays. Unless you have made a special note in your application of when the 5 hours per day may be used, the time 0800 to 1300 hours will be allocated for this purpose.

3. COMPLETION OF AN OBSERVING NIGHT

   Observers are expected to have organised 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 every week day.

4. MODIFICATIONS TO THE PROGRAM

   Any modification to this program must be approved by the Secretary, Program Planning Committee. He will then notify the Officer-in-Charge and the Operations Manager at Parkes.

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

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

Breakfast:	0730 -	0900
Lunch:	1230	
Dinner	1745	

It would assist the staff if you would be on time for meals.

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7. 18 METRE TELESCOPE Observations at wavelength 21 cm may be made with the 18 metre telescope and accompanying receiver on the days marked with an asterisk. There are 15 consecutive days available in July, three and four in August, six and twelve days in September. J.D. Murray has booked some of this time for himself and an ANU student and intends to use the Mk II backend with 64 x 33.3 kHz filters.

8. SOME ABBREVIATIONS IN USE

Numerals	:	(93, 18...) refer to the receiver wavelength in cm (ℓ : line;) (c : continuum)
$C/_m$	:	Computer maintenance
c/m	:	CRO monitor
c/r	:	Chart recorder
d/c	:	desk check
Filters	:	refers to banks of 64 filters of bandwidths 1, 10, 33.3 or 100 kHz. The 32nd channel of each bank is centred on 6.7000 MHz
H/P, Schl. Synth.	:	Hewlett-Packard, Schlumberger frequency synthesizers
PTU	:	Pulsar timing unit

9. TIME NOT ALLOCATED

(a) It was decided at the Group Meeting on 4 June 1974 that the 6 cm receiver would be reorganised in this quarter and would not be available for observations.

(b) 133 days were applied for, only 99 days were available in the quarter. The 1.35 cm and 9 cm receivers were not allocated, accounting for nine days; six more days were made up because the requester was going overseas; the remainder was obtained by reducing applications here and there - one application was too late to fit in.

10. TIME TO NON-RADIOPHYSICS LAB. OBSERVERS

It is interesting to note that in the first two quarters of 1974, more than 20% of the observing time was taken by observers from Australian or overseas universities. This does not include time by observers from other institutions who are working inside the Lab. for various periods.

R.A. Batchelor
D.J. Cooke
M.M. Komesaroff
R.X. McGee
B.J. Robinson

Program Planning Committee

	DATE 1974	DAY 08^h-13^h	13^h - 24^h - 08^h	Feeds, Focal Plane Requirements Other	Receivers: Front End	Receivers: Back End	L.O., Pumps Phase Locks Multipliers	Test Equipment	Data Processing	Computer Program	Installation, Driving Requirements Remarks	Computer Program Development
	June											
	Sat. 29		Search for D in	New	93-ℓ	Correlator	H/P Synth.	Wavemeter	PDP-9	CORLAT		
	Sun 30		Sgr A and	feed		Filters						
	July											
	Mon 1	C/m	Ori A	(dipoles)								
	Tues 2	O-i-C		from Epping								BUTLER
	Wed 3									LINE		BUTLER
	Thurs 4	Parkes										BUTLER
	Fri 5	C/m, d/c	PASACHOFF (Hopkins Obs)	low						LINRED		
	Sat 6		MURRAY,	frequency								
	Sun 7		FOURIKIS, SWAN	absorber								
Liquid N_2	Mon 8	C/m	(CESARSKY)									
*	Tues 9	O-i-C	Flux Dens. Scale	11 2 HE	11-c at	Continuum	-	-	PDP-9	own	-	WALL
*	Wed 10		SHIMMINS, BUTLER	dual beam	2700 MHz			-				WALL
*	Thurs 11	Parkes	South Gal. Pol.								-	BUTLER
*	Fri 12	C/m, d/c	WALL, SHIMMINS					-				
*	Sat 13		BUTLER									
*	Sun 14											
*	Mon 15	C/m	Survey	73-circular + Apex 73. dipoles + 16 db pad	73-own	MPI polarimeter + digital back end	H/P Synth.	Sweepers at 408 and 30 MHz	PDP-9 + MPI digital back end	LOG408	Liquid N_2 load: 6°/min. in ZA 6°/min. with M.E.	
*	Tues 16	O-i-C	north of - 33°									BUTLER
*	Wed 17											WALL
*	Thurs 18	Parkes	HASLAM,									WALL
*	Fri 19	C/m,d/c	COOKE,									
*	Sat 20											
*	Sun 21		(WILSON, MPI)									
*	Mon 22	C/m										
*	Tues 23	O-i-C										BUTLER

DATE 1974 JUL./AUG.	DAY 08^h-13^h	13^h - 24^h - 08^h	Feeds, Focal Plane Requirements Other	Receivers: Front End	Receivers: Back End	L.O., Pumps Phase Locks Multipliers	Test Equipment	Data Processing	Computer Program	Installation, Driving Requirements Remarks	Computer Program Development
Wed 24	O-i-C	Installation COOKE	2-probe	18-ℓ	Correlat-	Usual	Usual	PDP-9	CORLAT		BUTLER
Thurs 25	Parkes	Line Search,	w/g section	1612 MHz	or			HP 45	CORCON		BUTLER
Fri 26	C/m,d/c	source positioning.	not turnstile	1720MHz					STAKFL		
Sat 27		CASWELL,	hybrid;								
Sun 28		HAYNES	circular								
Mon 29	C/m		pol.								
Tues 30	O-i-C	Installation	21-hybrid	21-ℓ	Correlator	In package	L-band	PDP-9	CORLAT	JDM to instal	FREE
Wed 31		H.V. cloud mapping	mode				sweeper		etc.	Technical man	FREE
Thurs 1	Parkes	MURRAY,					wavemeter			required first	FREE
Fri 2	C/m,d/c	Mathewson (ANU)	Absorber				C.R.O.			half, Tues.	
Sat 3	Galactic structure										
Sun 4	CLEARY (ANU)										
Mon 5	C/m	Gal. asymmetry	Same	21-ℓ	Correlator	Same	Same	PDP-9	CORLAT	-	
Tues 6	O-i-C	CASWELL		tuned gal.	2 quads 1 MHz mainly						BUTLER
Wed 7		Intergalactic clouds	21-horn	21-ℓ	Correlator	H/P Synth.	c/r, c/m	PDP-9	CORLAT		BUTLER
Thurs 8	Parkes	WHITEOAK, FREEMAN (ANU	absorber	at	512 chan.	Mult. to 1383			OPTY		BUTLER
Fri 9	C/m,d/c	(de Vaucouleurs)		1413 MHz	10 MHz	MHz - LO					
Sat 10	Dyn. Spectra Pulsar Scints.		21 circular	21-ℓ	Filters	Stand. line		PDP-9	DSRUN		
Sun 11	ROBERTS ABLES		pol. (1 sense)		1,10,33.3 100	L.O P.T.U.	—	CRO Camera		-	
Mon 12	C/m	Vinyl Cyanide	21 standard feed absorber	21-ℓ filter for1370	Correlator & filters	H/P Synth. 3 x multiplier	Sweeper	PDP-9	CORLAT LINE		HAYNES
Tues 13	O-i-C	GARDNER, (WINNEWISSER)									
Wed 14		Excited mols.in IR objs	21 absorber	21-ℓ at	Correlator	H/P + Schl.		PDP-9	CORLAT		HAYNES
Thurs 15	Parkes	CASWELL, ROBINSON		1347 MHz 1352	512 chan. 5 MHz	synth. ϕ locked L.O.	c/r, c/m	Houston Pl.	OPTY	-	HAYNES
* Fri 16	C/m,d/c	16 02									
* Sat 17	Millimetre surfaces Project YABSLEY, B. PARSONS, LOUGHRY (NSL)										
* Sun 18											
Mon 19		(see over)									
Tues 20											

	DATE 1974 AUG/SEP	DAY 08^h-13^h	13^h - 24^h - 08^h	Feeds, Focal Plane Requirements Other	Receivers: Front End	Receivers: Back End	L.O., Pumps Phase Locks Multipliers	Test Equipment	Data Processing	Computer Program	Installation, Driving Requirements Remarks	Computer Program Development
	Mon 19	C/m	Installation	3.4 2HE	3.4-ℓ							HAMILTON
	Tues 20	O-i-C	BUTLER, COOKE									HAMILTON
	Wed 21		HCCCN-line	3.4 2HE	3.4-ℓ	Correlator	H/P Schl.	Sweep gen.	PDP-9	LINE		HAMILTON
	Thur 22	Parkes	(high frequency resolution)	Lateral & axial	tuned to	+	Synth; phase	wavemeter	Dectape	LINRED		
	Fri 23	C/m, d/c	McGEE, NEWTON,	focus adj.	9.1GHz	filters	lock system	powermeter	Houston or	CORLAT		
	Sat 24		BUTLER	CV 3 absorber	cold load		H/P counter	c/m's	X-Y Plotter	OPTY		
	Sun 25						cs std.control					
*	Mon 26	C/m	Radioemission	3.4 2HE	3.4-c	Continuum	-	-	PDP-9	own	-	
*	Tues 27	O-i-C	from stars	Dual beam	at 8.9 GHz							BUTLER
*	Wed 28		SEAQUIST, WALL									BUTLER
*	Thur 29	Parkes										BUTLER
	Fri 30	C/m, d/c	Line Search	3.4 dual beam	3.4-ℓ	Filters	H/P synth.+	Sweeper	PDP-9	LINE	Assistance	
	Sat 31		GARDNER,	system with	9.1, 8.8 GHz	Correl.as	3.4 phase			LINERED	with retuning	
	Sun 1		(WINNEWISSER)	CAL after switch		standby	lock system				each morning	
	Mon 2	C/m	Extended sources	3.4 1HE	3.4-c	-	-	c/m	PDP-9	MAPING	"Maping does	FREE
	Tues 3	O-i-C	HAYNES						HP45	STAKFL	most of the	FREE
	Wed 4								Houston Plotter	CORCON	work (driving)"	FREE
*	Thur 5	Parkes	SNR polarization	3.4 feed most	3.4-c	Continuum	-	-	PDP-9	own	Driving to	
*	Fri 6	C/m, d/c		suitable for							~ 2300 east	
*	Sat 7		MILNE	polarization								
*	Sun 8			feed rotator								
D.J.P → Back	Mon 9	C/m										
*	Tues 10	O-i-C										BUTLER
	Wed 11		Aminoacetonitrile	3.4 2 HE	3.4-ℓ	Correlator	H/P,Schl.	c/r, C/m	PDP-9	CORLAT	No 2nd half	BUTLER
	Thur 12	Parkes	ROBINSON, GODFREY,BROWN	Absorber	at 9.072 GHz	512 chan.	Synth.		Houston	OPTY	driver	BUTLER
						10 MHz	ϕlocked L.O.		Plotter			
*	Fri 13	C/m, d/c	Flux Density	3.4 2 HE	3.4-c	Continuum	-	-	-	own	-	
*	Sat 14		measurements	twin beam	at							
*	Sun 15		SHIMMINS, BUTLER		8.87 GHz							
*	Mon 16	C/m										

Liquid N_2 Mon

	DATE 1974 SEPT/OCT	DAY 08^h-13^h	13^h - 24^h - 08^h	Feeds, Focal Plane Requirements Other	Receivers: Front End	Receivers: Back End	L.O., Pumps Phase Locks Multipliers	Test Equipment	Data Processing	Computer Program	Installation, Driving Requirements Remarks	Computer Program Development
*	Tues 17	O-i-C	Jupiter	11 - orthogonal linear feeds 4 inch (a) Pol.^{n} (b) Cold load reference	11-c	Continuum	standard	-	PDP-9	own	1st, 2nd half drivers	BUTLER BUTLER BUTLER
*	Wed 18											
*	Thurs 19	Parkes	KOMESAROFF, McCULLOCH (Uni. of Tasmania)									
*	Fri 20	C/m, d/c										
*	Sat 21											
*	Sun 22											
*	Mon 23	C/m										
*	Tues 24	O-i-C	S-Scale SHIMMINS	11 2 HE	11-c	Continuum	-	-	PDP-9	own	-	BUTLER
	Wed 25		Dynamic spectra of pulsar scintillations	93-circularly pol. (1 sense)	93	Filters 1,10,33.3, 100	As for line work + PTU	-	PDP-9 CRO camera	DSRUN		BUTLER
	Thurs 26	Parkes										BUTLER
	Fri 27	C/m, d/c		50 - 73 circular pol.	50/73	Filters 1,10,33.3, 100	Freq.stable L.O. for 1 kHz filters + PTU	-	PDP-9 CRO camera	DS RUN	-	
	Sat 28		ROBERTS, ABLES									
	Sun 29											
	Mon 30	C/m										
	Tues 1	O-i-C	Installation	5 new equipment	5-ℓ							FREE
	Wed 2		McCULLOCH,									FREE
	Thurs 3	Parkes	BATCHELOR, COOKE									FREE
	Fri 4	C/m, d/c	Organic Molecules	5 Absorber	5-ℓ tuned to 5.7 GHz No switch	Correlator 512 chan. 10 MHz T/P	H/P,Schl.Synth, 5.4 GHz phase locked L.O.	c/r, c/m	PDP-9 Houston Plotter	CORLAT OPTY	No 2nd half driver required	
	Sat 5		in Sgr B2									
	Sun 6		ROBINSON, BATCHELOR									
	Mon 7		McCULLOCH,BROWN, GODFREY (Monash)									
			END OF QUARTER - START OF 10 DAYS TELESCOPE OVERHAUL									