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

## ALLOCATION OF TELESCOPE OBSERVING TIME AT PARKES RADIO OBSERVATORY

## 2nd QUARTER 1972

- 1. The quarter extends from Tuesday 4 April to 0800 hrs Monday 10 July 1972.
- The April Shutdown starts immediately after Easter on Tuesday 4 April and is expected to require 9 days. The 11 cm receiver
  will be installed in this period and telescope pointing checks will be carried out on the final Wednesday night, 12 April 1972.
- 3. The 64 metre telescope is on standby for the Apollo 16 flight to the Moon from Sunday 16 April to Friday 28 April inclusive. As occasion permits the local Parkes observers, J.G. Bolton, A.J. Shimmins, J.V. Wall and D.J. Cooke, will make continuum observations with the 11 cm receiver in this period.
- 4. The time between 0800 and 1300 hours AEST is not programmed for observations except on Saturdays and Sundays. Time on Tuesdays Wednesdays and Thursdays may be provisionally programmed for computer programme development by the Parkes Software Committee.
- 5. Accommodation at the quarters is available from the day before installations or observations commence. Any person visiting the Parkes Radio Observatory at other times or a person not shown on the programme must first obtain permission from the Group Leader or his representative before making travel and accommodation arrangements.
- 6. As it was agreed at the group meeting that no 3.4 cm time would be allotted this quarter unless a change of programme was required, the applications received for 3.4 cm time will not have priority next quarter.
- 7. Some abbreviations in use are:

PTU:

Numerals (11, 73, 18, 6, 21) refer to the wavelengths in cm.  $X-\ell$ : line, X-c: continuum. Numerals (1, 10, 33, 100) are filter bandwidths in kHz. Cs: Caesium line standard. c/r: Chart recorder. X-Y pl: X-Y plotter. T/p&p: Teleprinter and punch (spare). Mk.II line: Means that the receiver output at 30 MHz is connected to the multichannel section of 30 MHz and 6.7 MHz IF's and 64 channels of 1, 10, 33.3, 100 kHz filters. H/P. Schl Synth: Hewlett-Packard, Schlumberger frequency synthesizers. c/m: CRO monitor C/m: Computer maintenance d/c: Desk check PBU:

Push button unit to issue commands to PDP-9 in LINE, SCANS, SURVEY, etc. Pulsar timing unit.

(J.G. Ables) (D.J. Cooke) (B.F.C. Cooper) (R.X. McGee) (J.A. Roberts)

PROGRAMME PLANNING COMMITTEE

DAT	E	DAY h h	13 <sup>h</sup> - 24 <sup>h</sup> - 08 <sup>h</sup>	Feeds, Focal Plane	. vecei	vers	L.O., Pumps,	Test	Data	Computer Programme	Installation Driving Requirements Remarks
197	2	08 <sup>h</sup> - 13 <sup>h</sup>		Requirements Other	Front End	Back End	Phase Locks Multipliers	Equipment	Processing		
APR						·					
Tue	4						·				
Wed	5	APRIL S	SHUTDOWN .		+*,,						
Thu	6							·			
Fri	7								,		
Sat	. 8			-					·		
Sun	9						·				
Mon	10	Install	ll cm receiver					-			
Tue	11			·						:	
Wed	12		Pointing SHIMMINS	11 2HE Dual	11-c				PDP-9	Own	
Thu	13		Survey and Flux Densities	11 2HE Dual	11-c	Cont.			PDP-9	Own	
Fri	14	C/m,d/c	- I am Bollototop					i i			
Sat	15			, Name					·		
Sun	16	*	BOLTON, CANNON (A.N.U.) WALL, SHIMMINS	* APOLI	CO 16 STANDB	Y - NASA E	quipment in O	ffset Pans.			·
Mon	17	* C/m	(10 days)			ON and Par					
Tue	18	*							<b>,</b>		
Wed	19	*									
Thu	20	*									
Fri	21	* C/m, d/c						,			
Sat	22	*	en e								
Sun	23	*									
Mon	24	* C/m	Background Fluctuations	11 2HE Dual	11-c	Cont.	:		PDP~9	SUR	
Tue	25	*						·	X-Y pl. l c/r	(Own)	į
Wed	26	*	WALL, COOKE (2 days)	24200						·	
Thu		*		<b>D</b>							

Г	-		Τ		Feeds, Focal	T		f	<u> </u>	1	<del>y</del>	
	r AT		DAY	h h	Plane	Receiv	ers	L.O., Pumps, Phase Locks	Test	Data	Computer	Installation Driving
	197	2	08 <sup>h</sup> - 13 <sup>h</sup>	13 <sup>h</sup> - 24 <sup>h</sup> - 08 <sup>h</sup>	Requirements Other	Front End	Back End	Multipliers	Equipment	nt Processing	Programme	
	APR Fri		C/m, * d/c	Pulsars	73 Feeds	73	Mk.II	H/P, Schl	1 c/m	PDP-9	Own	Daytime
	Sat				N.		line	Synth. H/P VHF Osc	power meter	T/p&p X-Y pl. Extra DEC	·	drivers - no morning obs.
	Sun			KOMESAROFF, ABLES,						tapes.		•
	MA Mon	Y 1	C/m	WHITTLE (HAMILTON, McCULLOCH)								
	Tue	2										
	Wed	3										
	Thu	4		OH Positions	18. Sky Horn	18 <b>-L</b>	1, 10	H/P, Schl Synth.		PDP-9 Paper tape	OPTY, CORDOH,	
	Fri	5	C/m,d/c		and Cold load ref.		•	bynen.		X-Y pl. PBU for line	LINE RIDL	
	Sat Sun	6 7		ROBINSON, CASWELL	Circ. pol.					program. RIDL		
	Mon	8	C/m	Installation - Digital Correlator and Tests	18	18-l	Mk.II	H/P, Schl		PDP-9	ОРТҮ	Drivers will
	Tue	9	-	correlator and lests			line. 1, 10,33, 100.	Synth.		Paper tape X-Y pl. T/p&p	LINE	not be required
	Wed	10		*			100.			PBU, l c/r 3 pen.		until 20 May unless
	Thu			ABLES, MOOREY, HUNT, BROOKS, COOPER, HOWARTH,						5 pen.		requested occasionally
	Fri	ŀ	C/m,d/c	GAY, BUTLER								occasionally
	Sat Sun			Dish Survey			1	1				
	Mon	ŀ	C/m	YABSLEY, MONTICONE et al		To be fitte	d in as co	nvenient in t	his period.			Driver may be required
	Tue		C/ III	The state of the s				1				for short periods.
	Wed	17		Installation 6 cm Cryogenic Receiver	2 HE, Cold load,	6- <b>e</b>	Mk.II	H/P, Schl	Sweep Gen.	PDP-9	LINE	To be made
	Thu	18		Clyogenic Receiver	Absorber	tuned to 5009 MHz	line. 100	Synth. Cs standard	c/m, waveme <del>t</del> er	X-Y pl. T/p&p	OPTY	when Rx is available.
	Fri	19	C/m,d/c	COOKE, HALL, LAM					power meter	PTU CRO display lc/r, 3 pen		; ; ;

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	TE 72	DAY 08h - 13	h 13 <sup>h</sup> - 24 <sup>h</sup> - 08 <sup>h</sup>	Feeds, Focal Plane	Receivers		L.O., Pumps,	Test	Data		Installation
19	14	0811 - 13	13" - 24" - 08"	Requirements Other	Front End	Back End	Phase Locks Multipliers	Equipment	Processing	Computer Programme	1 - 1
MA	Y.										Remarks
Sat	20		H, He 109a Survey	2HE,	6-L	Mk. II	H/P, Schl		PDP-9	LINE	Drivers
Sun	21			Cold Load	tuned to 5009.9 MHz	line 10, 33,	Synch.		Mag & paper tape,	LINRED OPTY	1300 - 0800 and all
Mon	22	C/m	CHURCHWELL (M.P.I.),			100	•		X-Y pl. l c/r	0111	weekend
Tue	23		HOCHIMETER				,	· .	3 pen DEC tapes		
Wed	24								DDC capes		
Thu	25		Search for CH2NH	2НЕ,	6- <i>L</i>	Mk.II	H/P, Schl	Sweep Gen	PDP-9	LINE	
Fri	26	C/m,d/c		Cold load lin. pol.	tuned to 5290 GHz	line 10,33,	Synch. Cs St.	c/m	paper tape X-Y pl.	LINED OPTY	
Sat	27		BROWN, GODFREY, ROBINSON, (SINCLAIR)	Absorber in focal plane		100.			PBU c/r 2pen	CORDOH	
Sun	28								c/r zpen		
Mon	29	C/m	Diffuse H109α	2нЕ	6- <i>L</i>	100	H/P, Schl		PDP-9	LINE	
Tue	30			Cold load Absorber	tuned to 5009 MHz		Synch.		X-Y pl. paper tape	LINE	
Wed	31		CASWELL	in focal plane					PBU lc/r, 3 pen		_
JUN	ΙE			·					10/1, 3 pen		
Thu	1										
Fri	2	C/m,d/c									
Sat	- 3		Galactic Spectrum	2НЕ	6-c				PDP-9	661116	
Sun	4		CASWELL	lin.pol.					paper tape 1 c/r, 3 pen	SCANS or	
Mon	5	C/m	Flux Densities	2HE	6-c	Cont.			PDP-9	DKM equiv Own	
Tue	6	,	WALL, SHIMMINS	Dual horns				٠.	X-Y pl. c/r, 2 pen	Owii	
Wed	7		WADE, SELFEETINS	The off alonger					o, r, z pen		
Thu	8		Recombination Line Maser	SO ON	6-l	Mk.II	H/P,Synth.	c/m.	PDP-9	0	N7-
Fri	9	C/m,d/c		CON	tuned to 5009 MHz	line	, , , = 2	power meter	T/p&p.	Own	No mornings required.
Sat	10.		ABLES, KOMESAROFF					mc cer	Х-Ұ-рі.		
Sun .	11		(RADHAKRISHNAN)							. •	
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		DAY	- Miles and a second a second and a second a	Feeds, Focal	Receiv	ers	L.O., Pumps,	<u> </u>			Installation
DA:		08 <sup>h</sup> -13 <sup>h</sup>	13 <sup>h</sup> - 24 <sup>h</sup> - 08 <sup>h</sup>	Plane Requirements Other	Front End	Back End	Phase Locks Multipliers	Test Equipment	Data Processing	Computer Programme	Driving Requirements Remarks
JUI Mon		c/m	H, He 109α Survey	2HE Cold load	6-ℓ tuned to	Mk.II line	H/P, Schl Synth.		PDP9, Mag. & paper	LINE LINRED	Drivers 1300 to 0800
Tue Wed Thu	14		CHURCHWELL (M.P.I.) HUCHTMEIER		5009.9 MHz	10,33, 100.			tape. X-Y pl. lc/r, 3 pen DEC tapes.	ОРТУ	
Fri Sat Sun	17	C/m,d/c	H <sub>2</sub> CO Absorption in HII and Dark Clouds	(lHE Cold-load	6- <b>£</b> tuned to 4829.6 MHz	Mk.II line 10,33, 100.	H/P, Schl Synth.		PDP-9 Mag & paper tape, X-Ypl. lc/r, 3 pen DEC tape	LINRED	Drivers 1400 to 0800 and all weekend.
Mon Tue	19 20	C/m	HUCHTMEIER, BROOKS NEWTON, (SINCLAIR)						PBU	·	NB: Feed change
Wed Thu	21 22		Circular Polarization	lHE "λ/4 plate" pol.	6-c				PDP-9 PBU 1c/r,2 pen	POLAR2 PS2 System	Drivers required for all
Fri Sat	23 24	C/m,d/c	ROBERTS, ROGER, COOKE	switching configur- ation.						tapes.	available daytime.
Sun	25	ļ			- to the state of				<u> </u>	<u> </u>	
Mon Tue	27	C/m	Continuum Sources near pulsars and nova remnants	1HE Cold load No pol.	6-c	Cont.	As usual		c/r,X-Ypl. paper punch. PDP-9	REDSCAMP BASEOUT Possible contours	
Wed Thu			SLEE, HIGGINS, KOMESAROFF						PDF-9	DKM scan	
Fri JUI Sat		C/m,d/c	H <sub>2</sub> + Search	21 hybrid mode. L-band absorber.	21 <b>-l</b>	Mk.II line	Multiplier Chain H/P, Synth.		PDP-9	LINE LINRED	JDM to instal.
Sun	2 3	C/m	MURRAY, HUCHTMEIER								
Tue Wed	4 5		Circular Polarization	Single hybride mode L-band	21-c	Cont	Own phase lock osc.		PDP-9 PBU lc/r,2pen	POLAR2 PS2	Drivers required for all
Thu Fri	6 7	C/m,d/c	ROBER, ROBERTS, MURRAY	absorber				.5			available daytime.
Sat Sun	8 9							٠			

