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

## ALLOCATION OF TELESCOPE OBSERVING TIME AT PARKES RADIO OBSERVATORY

## 4TH QUARTER 1973

- 1. DURATION The quarter starts at 0800 hours on Tuesday 2nd October, 1973 and will finish at 2359 hours on Monday 24th December, 1973.
- 2. SHUTDOWN The annual October Shutdown extends from the first day of the quarter until Sunday 14th October, 1973. The 6 cm cryogenic receiver will be be installed in this period. The 18 m telescope will be used from 10th October by J.D. Murray and the University of Wisconsin observers.
- 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) are 0800 to 1300 hours on Tuesdays and Wednesdays, 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. SOLAR OBSERVATIONS The Solar Group observers, DULK, McLEAN and ARCHER have requested time at λ200 cm on the 64 m telescope over the period ±4 hours of local noon. The allocated days are indicated by Θ (early in the quarter). The full 8 hours will not always be available to them but it is hoped that they will be able to obtain as much of their time as possible.

## 9. 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

D.A.

P.T.U. : Pulsar Timing Unit

H/P, Schl.Synths.: Hewlett-Packard, Schlumberger Synthesizers

Synch : Synchronizers

: Duty Astronomer, underlined in the program. Note that the first person listed, and not necessarily

the duty astronomer, is regarded as the person running the show.

10. 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 Secretary before approaching the administration section for tickets and arrangements.

11. 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)

B.J. Robinson (Group Leader)

PROGRAM PLANNING COMMITTEE

DATE 1973	DAY	13 <sup>h</sup> - 24 <sup>h</sup> - 08 <sup>h</sup>	Feeds, Focal	Rece	ivers	ers L.O., Pumps Phase Locks		Data	Computer		Computer Program Development
	08 -13		Requirements Other	1	Back End	Multipliers	Equipment	Processing	Program	Requirements, Remarks	Development
oct.								•		•	
Tue 2											
Wed 3											
Thu 4											
Fri 5		TELESCOPE OVERHAUL									
Sat 6				Tì		ogenic receive shutdown.	er will be	installed	•		
Sun 7		OCTOBER SHUTDOWN			during the	shutdown.					
Mon 8											
Tue 9				Tì	ne period 1	Oth to 22nd Oc	tober has h	oeen allocate	ed to	•	
Wed 10	<u> </u>				for 21 cm	WILLIAMSON, SA line observati	ANDERS (Univ	versity of Wi m telescope.	sconsin)		
Thu 11		•			will super	vise equipment 4/15th October	. The MkII	I to be share	d with		
Fri 12											
Sat 13											
Sun 14		LINE PROGRAM	6 Noddy	6-L	MkII +	H-P, Schl.	Sweeper	PDP9	LINE,	No absorber	
Mon 15	C/m	RIBES (Obs. de Meudon)	Share MkII wi	ı th 18 m obs	Correl.   and teles	cope with some	letc.	hecks	CORLAT		
Tue 16	0.I.C.	Pointing SHIMMINS	6 Noddy	6-c	Usual						LEE - Mapping
Wed 17	@Parkes	Infra-red Sources	6 Noddy	6-c	Usual +		i	PDP9, desk	NODDY,	AJS "Brass	Program
Thu 18	Θ	WRIGHT, WALL, FOURIKIS			D.C. amp			calc. 1 off	POINT, PRECNT	Balance Box"	
Fri 19	©C/m,d/c	ETELS and Galaxies						X-Yp	STAKFL	·	
Sat 20	0	WALL, DISNEY (ANU)									
Sun 21	0	Pol of Solar Bursts	200 x dipole	20kHz	IF 30 MHz	180 MHz LO		Nil	Nil	5 control	
Mon 22	Θ C/m	DULK, McLEAN, ARCHER	200 dip at vertex	filters 2,200 Rx.	own Polarim.	Freq.Synth.	2 dir.coupl for cal.sy	s.		cables 2IF, 1LO	
			Į.	i	1			(Track Sun.	occasiona	lly move off)	

DATE 1973	DAY 08 <sup>h</sup> -13 <sup>h</sup>	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 00 -13		Requirements, Other	Front End	Back End	Multipliers	Equipment	Processing	Program	Requirements, Remarks	Development	
OCT.				·				·.			
Tue 23	0.1.C.	Survey	6 Noddy	6-c	Usual			PDP9	SURVEY	Fast Telescope	Free
Wed 24	Parkes	KELLERMAN (NRAO USA)	·				!			Drive	Free
Thu 25											
Fri 26	C/m,d/c										
Sat 27			,	_							
Sun 28	Wild Transport of the contract					·					
Mon 29	C/m	Flux Densities	6 Noddy	6-c (5009	Cont.	Usual		PDP9	POSN 31	Drivers may be	
Tue 30	0.I.C.	SHIMMINS, BOLTON,		MHz)		·				required 24 hrs per day	LEE - Mapping
Wed 31	Parkes	WALL									Program
NOV.											
Thu 1	Berlin de de Paris de la companya de	-					-				
Fri 2	©C/m,d/c	SNR Polarization	6 lHE + Pol. Switch	6-c	Cont.	٠.		PDP9 + 2 DC amps	Own	Driver 2nd half	·
Sat 3	Θ	MILNE						z ic amps			
Sun 4	0								:		
Mon 5	0 C/m	Check cryogenics	operations BUT	CLER		·					
Tue 6	00.I.C.	Formaldehyde		6-l 4.5-4.8	Correl. MkII	Usual		PDP9	CORLAT LINE		HASLAM, WILSON
Wed 7	Parkes	Absorption	1	GHz					TIME		408 Survey Program
Thu 8											
Fri 9	C/m,d/c	GARDNER, WHITEOAK							-		
Sat 10											
Sun 11											

DATE 1973		13 <sup>h</sup> - 24 <sup>h</sup> - 08 <sup>h</sup>	Feeds, Focal Plane Requirements,			L.O., Pumps Phase Locks	Test Equipment	Data Processing	Computer Program	Installation, Driving Requirements,	Computer Program Development
			Other	Front End	Back End	Multipliers			, , , , , ,	Remarks	Бечеторменс
NOV.	+ Sur	rvey HAYNES, CASWELL									
Mon 12	c/m	Comet Kohoutek	1 HE Absorber	6-l ~4.8GHz	Correl.	Ø lock L.O. H/P Schl.	2 c/r		CORLAT	Usual	
Tue 13	0.I.C.	ROBINSON, BROWN, GODFREY (Monash Uni)		4.00112		H/P Scnl.	1 CRO		OPTY, PREC		LEE - Mapping
Wed 14	Parkes	H <sub>2</sub> CO Absorption in	1 HE C-band	6-l Total	Correl.	H/P Schl.	C-band Sw. Power meter	PDP9	CORLAT		Program
Thu 15		Southern Coalsack	Absorber	power	MAII		Power meter		OPTY LINE		
Fri 16	C/m,d/c	BROOKS, SINCLAIR									
Sat 17		MANEFIELD									
Sun 18											
Mon 19	c/m	Recombination Lines	2 HE C-band	6-l 5.01 GHz	Correl.	H/P, Schl.	C-band Sw.		CORLAT		
Tue 20	0.1.C.	Magellan Clouds and	Absorber	5.01 GHZ	with 10, 33, 100		Power meter	Dectape Line	LINE OPTY		Free
Wed 21	Parkes	Milky Way	·		on		CRO	printer plotter			Free
Thu 22		MCGEE, NEWTON			standby)			lc/r 3 pen			
Fri 23	C/m,d/c	Installation and	l HE L-band	18-L	Correl.	H/P, Schl.	L-band Sw.	PDP9	CORLAT	Driver 1st	
Sat 24		OH in LMC	Absorber			18cm Ø lock klystron	wavemeter power		OPTY	night + usual	
Sun 25		SINCLAIR, BATCHELOR					meter 502 CRO				
Mon 26	c/m										
Tue 27	0.I.C.	Pulsars		18 dual	Own	Н/Р.		PDP9	Own	Driver after	HAMILTON
Wed 28	Parkes	KOMESAROFF, ABLES	l i	channel			VTVM Tectronic			dinner first day	Pulsar Program
Thu 29		HAMILTON, McCULLOCH (Uni of Tasmania)					454	,			
Fri 30	C/m,d/c	COOKE									
DEC.										•	·
Sat 1											
Sun 2											
Mon 3	c\w										

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DATE 1973	DAY 08 <sup>h</sup> -13 <sup>h</sup>	13 <sup>h</sup> - 24 <sup>h</sup> - 08 <sup>h</sup>	Feeds, Focal Plane Requirements,		vers	L.O., Pumps Phase Locks	Test Equipment	Data Processing	Computer Program	Installation, Driving Requirements,	Computer Program Development
			Other	Front End	Back End	Multipliers				Remarks	peverobilenc
DEC.											
Tue 4	0.I.C.	Spectra	Dual pol.	18 dual	G=1	10					
	,		horn	channel	Correl. + usual	18 cm line system H/P	CRO monitor	PDP9	CORLAT + own	·	HASLAM, WILSON 408 program
Wed 5	Parkes	COLE, ABLES					power meter				100 program
Thu 6		ROBINSON					meter				
Fri 7	C/m,d/c	_									
Sat 8	ОН с	bservation, extragalactic	Fourikis	18 dual	Correl.	etc.		PDP9	CORLAT		
Sun 9	GARD	objects NER, WHITEOAK	feed Absorber	channel	filters				LINE	·	
Mon 10	c/m		·								
Tue ll	0.I.C.	HASLAM, WILSON	73 feed	Own 73	Installat	ion Rx					WALL
Wed 12	Parkes	Recombination Lines	Dual 408 MHz	73 (MPI)	Correl.	H/P	Power	PDP9	CORLAT		11 cm program
Thu 13		BATTY (Sydney Uni)		500 coax cold load			meter monitor				
Fri 14	C/m,d/c	Intergal. Scintillation	•	Liquid N <sub>2</sub>			CRO c/r				
Sat 15		SUTTON (Sydney Uni)			-						
Sun 16	·	HUNSTEAD (Sydney Uni)									
Mon 17	c/m	Contin.Survey Magellani	c Stream and Gu	n Nebula						· · · · · · · · · · · · · · · · · · ·	
Tue 18	0.I.C.	MURRAY	73 on 64m	73 (MPI)	Contin.	· · · · · · · · · · · · · · · · · · ·		Chart Record	ders	Require 18m	Free
Wed 19	Parkes	MATHEWSON, CLEARY (ANU)	21 on 18m	21-c	Contin.			only		telescope to follow 64 m	Free
Thu 20		408 MHz Survey (Part I)	408 MHz feed	73 (MPI)	Own	Own	Sweeper	PDP9	Own	Drive at	
Fri 21	C/m,d/c	HASLAM, WILSON (MPI)	reed							6 <sup>O</sup> /min in ZA	
Sat 22							·	• •			
Sun 23								•			
Mon 24	c/m	END OF 4TH QUARTER									
Tue 25 De	ec. 1973						<u> </u>				

to

Wed 2 Jan. 1974

CHRISTMAS SHUTDOWN