D Cooke

CSIRO - DIVISION of RADIOPHYSICS

ALLOCATION OF TELESCOPE OBSERVING TIME AT PARKES RADIO OBSERVATORY for

THIRD QUARTER 1975

1. Duration

The quarter starts at 0800 hours on Tuesday 1 July 1975 and finishes at 0800 hours on Tuesday 7 October 1975

2. Receivers

The committee decided that the 6cm receiver would not be installed in the third quarter, and hence other receivers making use of the 6cm had to be omitted. The move enabled a start to be made on how to fit 164 days applied for into 97 days available in the quarter. In addition, the 21 cm and the 11 cm had to be programmed for a period each for Jupiter observations after 5 September 1975.

3. Day Observing

The committee points out that towards the end of the quarter no computer development time has been sought. It should therefore be relatively easy to obtain 'day' observing time by negotiating with the Officer-in-Charge, Parkes.

4. Maintenance and Development time

(a) Computer maintenance (c/m): 0800 - 1530 hours Mondays
0800 - 1400 hours Fridays

This rearrangement, made in consultation with the Station Manager, gives observers starting on these days the opportunity of making sure that the computer is in an operating condition before the local staff depart the scene.

(b) The periods 0800-1300 hours on all Tuesdays, Wednesdays and Thursdays are allocated to the Officer-in-Charge, Parkes. Unless otherwise (privately) arranged Computer Program Development Time (in minimum periods of 4 hours) is allocated in these three periods each week.

(c) Desk check (d/c): 0800-1300 hours Fridays

(d) On changeover days 2 hours of PDP-9 computer time are reserved for D.J. Cooke immediately after he has finished installation or changes to the receiving equipment.

5. Completion of an observing night

Observers are expected to have organized their observations so that the telescope control desk, the computers and peripherals will be available for maintenance, testing or use at or before 0800 hours on every week day. Please cooperate on this one.

6. Modification of the Program

Any change to this program must be approved by the secretary, Program Planning Committee. He will notify the Officer-in-Charge and the Station Manager at Parkes.

7. 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 must first obtain permission from the Group Leader before approaching the Administration Section for tickets and travel arrangements. It helps to make sure that the Administration Section has, in fact, advised the Observatory of your arrival time.

8. Time for Meals

Breakfast	: 0730 - 0900	)	Please use the book in the dining room to let Mrs Harris and staff
Lunch	: 1230	)	know whether or not you require a meal.
Dinner	: 1745	)	

9. Wind Instructions

Instructions for the operation of the telescope in wind are found on the Notice Board in the Control Room. The action to be taken is the responsibility of the telescope driver.

10. Daytime Driving

If observations are being made on weekdays in the times 0800-1640 hours telescope driving will be performed by the first half driver of the previous night. Observers must make the arrangements to obtain the driver's services.

11. Equipment Performance Survey

As part of an effort to improve operating conditions at the Observatory, the Station Manager has issued a form *EQUIPMENT PERFORMANCE SUMMARY*. In it he asks the observer: performance, time lost and other details of the receiver, cryogenics, correlator, PDP-9, control, mechanical operation and weather. It is in your own interests to fill in the form at the completion of your session.

12. 18 metre Telescope

The allocation of time on this telescope is attached. The requirements of 64m observations always take priority over those of the 18m observations.

R.X. McGee,
Secretary
Program Planning Committee

6 June 1975

DATE 1975 JULY	DAY 08^h-13^h	$13^h-24^h-08^h$	Feeds, Focal Plane Requirements Other	Receivers: Front End	Receivers: Back End	LO, Pumps Phase Locks Multipliers	Test Equipment	Data Processing	Computer Program	Installation, Driving Requirements Remarks	Computer Program Development
Mon 30 Tues 1 Wed 2	C/m O-i-C	Installation and test BATCHELOR, McCULLOCH, SINCLAIR	5 dual hybrid & offset ref.	5	Correlator Mk.II possible	H/p.Schl.Syns 270 MHz Xtal Osc.	Powermeter wavemeter Sweeper,CRO	PDP-9	CORLAT SPCTRA CORTRN LINE		COOKE
Thur 3 Fri 4 Sat 5 Sun 6 Mon 7 Tues 8	Parkes d/c, c/m ROBINSON, GODFREY, PORTER (BROWN), STOREY (Monash) C/m O-i-C	Line Search Sgr B2, Orion Neb.	5 offset feed absorber	5 tuned to: 6-18 GHz 6-39 GHz 6-10 GHz 5-8 GHz	MK.II 100, 33 kHz Channel gains to be equalized	Phase-locked L.O.	C/r, CRO	PDP-9 Plotter paper tape 3 pen c/r	LINE LINRED OPTY	Drivers for $13^h-22^h-30^m$ 01^h-09^h sidereal time	
Wed 9 Thur 10 Fri 11 Sat 12 Sun 13	Parkes d/c, c/m	OH absorption survey (GARDNER) WHITEOAK	5 Absorber	5 total power mode, no unnecessary waveguide 10-15K Cal.	Correlator at least two quad- rants	"usual" two frequency selector box	-	PDP-9	CORLAT SPCTRA		WRIGHT
Mon 14 Tues 15 Wed 16	c/m O-i-C	OH sources GOSS, KNOWLES, CASWELL	6035 MHz Crenlaw/Lieons "Standard" Cal = 10→20°K	5	Correlator	H/p Synth.	-	PDP-9	SPCTRA		COOKE
Thur 17 Fri 18 Sat 19 Sun 20	Parkes d/c, c/m MANCHESTER, McCULLOCH HAMILTON, ABLES, FERRIS (Unitas)	Pulsar Rotation Measures & Polarization	50 dual pol. feed & cal. injection sys- tem (Uni.Tas.)	50 Avantek transistor amplifiers	Own polarimeter	H/p.Syn. as switchable LO computer con- trolled Rockland syn. for pulsar syn.	CRO Chart rec etc.	PDP-9	own	Equal cable lengths from focus to radio room for the 2 r.f. lines	SHIMMINS

DATE 1975 JULY	DAY 08^h-13^h	13^h-24^h-08^h	Feeds, Focal Plane Requirements Other	Receivers: Front End	Receivers: Back End	LO, Pumps Phase Locks Multipliers	Test Equipment	Data Processing	Computer Program	Installation, Driving Requirements Remarks	Computer Program Development
Mon 21	C/m	Pulsar Rotation									
Tue 22		Measurement & Polariz-									
Wed 23		ation (continued)									(BUTLER)
Thur 24	Parkes	Installation COOKE	18 cm R_x								
Fri 25	d/c, c/m	OH/IR stars in glob. clusters	18 dual	18-ℓ	Correlator	H/p Synth.	-	PDP-9	SPCTRA		
Sat 26	OH from M Supergiants		linear								
Sun 27	BOWERS, KERR (Uni.Maryland)		feed								
Mon 28	c/m	OH Observations	18 orthogonal	18 dual	Correlator	H/p Synth.	-	PDP-9	CORLAT		
Tue 29	O-i-C	GARDNER, WHITEOAK	probes absorber	10K cal.	2 channels	2 freq.selector			SPCTRA		
Wed 30		OH linear pol. KNOWLES	18 linear	18	Correlator	-	-	-	SPCTRA		COOKE
Thur 31	Parkes	OH H-Vel. KNOWLES, GOSS	polarization								
AUGUST											
Fri 1	d/c, c/m	1667 Grid Survey	18-2 prob.W/G	18 dual	Correlator	"usual"	Sweeper	PDP-9	SPCTRA		
Sat 2	CASWELL, HAYNES,		section (not	channel	2 mplers	2 attenuators	CRO	H/P 45	(CORLAT)		
Sun 3		GOSS	turnstile	initially	and IFs.	with 0.1 dB			STAKFL		
Mon 4	c/m		hybrid) 0 pol.	tuned to	4 quadrants	steps at			CORCON		
Tues 5	O-i-C		generated at IF rotatable dipole at vertex	1666 MHz	1 bit 0.5, 2 MHz mainly	correlator input					
Wed 6		Installation COOKE	3.4 cm R_x								WRIGHT
Thur 7	Parkes	Search nitrogen compounds	3.4 beam	3.4 at	100 kHz fils	Phase	CRO	PDP-9	LINE	Drivers	
Fri 8	d/c, c/m	ROBINSON	switch to	9.10 GHz	Correlator	locked		plotter,	LINRED	13^h - 22^h -30^m	
Sat 9	(BROWN), OTTREY, GODFREY		offset feed	8.95 GHz	10 MHz	LO		paper tape	OPTY	01^h - 09^h	
Sun 10		(Monash)	absorber		(Filters to be equalized)			mag. tape 3 pen c/r	CORLAT (or equiv.)	sidereal time	

DATE 1975 AUGUST	LST 08h-13h	13h-24h-08h	Feeds, Focal Plane Requirements Other	Receivers Front End	Receivers Back End	LO, Pumps Phase Locks Multipliers	Test Equipment	Data Processing	Computer Program	Installation, Driving Requirements Remarks	Computer Program Development
Mon 11	c/m	(cont.) Search nitrogen com.									
Tues 12	O-i-C	Flux density scale	3.4	3.4-c	2 cals	"normal"	"nil"	PDP-9	Own	Prime calib.	
Wed 13		at 8.87 GHz	twin beam	tuned to	50, 5K				(STAKFL)	transits ~	WRIGHT
Thur 14	Parkes	SHIMMINS		8.87 GHz	to check linearity					9hr solar - arrange with OiC	
Fri 15	d/c, c/m	ETELS	3 cm "close"	3.4 tuned to	"usual"	"usual"	-	PDP-9	NODDY	Cal ~ 1K	
Sat 16	WRIGHT, ALLEN (AAO)		dual beam	highest freq				PDP-11	POINTX		
Sun 17			with one beam on axis	compatible with max f/e				display if possible			
Mon 18	c/m	SNR Polarization	3.4 polariz-	3.4	Continuum	-	-	PDP-9	own	full	
Tues 19	O-i-C		ation switch					Disk		driving	
Wed 20		MILNE									WRIGHT
Thur 21	Parkes	Norma recomb. lines	3.4 2 HE	3.4 ℓ+ c	Correlator	H/P, Schl.	Sweep gen.	PDP-9	SPCTRA		
Fri 22	d/c, c/m	SMC, LMC continuum	cold load	tuned to	256, 512	Phase locked	powermeter	Dectape	MAPING		
Sat 23	McGEE, NEWTON, BUTLER		switch	8872.569 MHz	10 MHz	system	wavemeter	Houston	LINE		
Sun 24			CV3 absorber		Mk.II backup	counters	CRO	Plotter			
Mon 25	c/m	Installation COOKE,		21 cm R_x	x 3 f[illegible], from 403 to 1390 Don't [illegible] mixer ([illegible])						
Tues 26	O-i-C	Neutral Hydrogen in	21	21-ℓ	Correlator	"Standard"	-	PDP-9	CORLAT		
Wed 27		Southern galaxies	absorber	total		+ 2 frequency			SPCTRA		
Thur 28	Parkes	van WOERDEN		power		selector box					
Fri 29	d/c, c/m	GOSS, WHITEOAK		mode							
Sat 30		+ Survey Southern									
Sun 31		late type galaxies									

SDM [illegible] on leave

2 [illegible]

1975	08^h-13^h	13^h-24^h-08^h	Feeds, Focal Plane Requirements Other	Receivers: Front End	Receivers: Back End	LO, Pumps Phase Locks Multipliers	Test Equipment	Data Processing	Computer Program	Installation, Driving Requirements Remarks	Computer Program Development
SEPTEMBER											
Mon 1.	C/m	Neutral Hydrogen in Southern galaxies (cont.)									
Tues 2.	O-i-C										BUTLER
Wed 3.											
Thur 4.	Parkes										
Fri 5	d/c, c/m	HI mapping of globules	21	21-ℓ frequency switch	Correlator	H/P Synth. multiplier	c/r	PDP-9	SPCTRA		
Sat 6.		GOSS, WHITTLE									
Sun 7											
Mon 8	c/m	Southern Milky Way MURRAY	21 hybrid feed	21-ℓ	Correlator	H/P Synth. 20 cm multiplier	Sweep gen. wavemeter	PDP-9	SPCTRA	Gal. coord. tracking	
Tues 9	O-i-C	KERR, BOWERS, KERR (Uni. Maryland)									(BUTLER)
Wed 10		HI survey, inter-	21 hybrid feed	21-ℓ	Correlator	Freq.syn. 20 cm multi- plier	Sweep gen. wavemeter etc.	PDP-9	CORLAT		
Thur 11	Parkes	Magellanic Clouds region									
Fri 12	d/c, c/m										
Sat 13		MATHEWSON (ANU)									
Sun 14		MURRAY									
Mon 15	c/m										
Tues 16	O-i-C	Circular polarization Jupiter and other sources	21 circ. polarization	21-c 100 MHz bandwidth	IF band- width 100 MHz	-	Vertex radiator linear + circular	PDP-9 Dectape, pushbutton box	POLAR 4		(BUTLER)
Wed 17		KOMESAROFF, ROBERTS	ferrite switch partially polarized cal.								
Thur 18	Parkes										
Fri 19	d/c, c/m										
Sat 20											
Sun 21											

DATE 197 SEPT.	DAY 08^h-13^h	13^h-24^h-08^h	Feeds, Focal Plane Requirements Other	Receivers		LO, Pumps Phase Locks Multipliers	Test Equipment	Data Processing	Computer Program	Installation, Driving Requirements Remarks	Computer Program Development
				Front End	Back End						
Mon 22	c/m	Position calibration of 64m telescope	11 twin beam	11	"standard"	"standard"	-	PDP-9 PDP-11/40 Houston Plotter	own		
Tues 23	O-i-C										(BUTLER)
Wed 24		Source Survey									
Thur 25	Parkes	δ - 45^o - -65^o									
Fri 26	d/c, c/m	α 22^h - 6^h									
Sat 27		(BOLTON) WRIGHT									
Sun 28		SAVAGE									
Mon 29	c/m	*[JAUNCEY]*									
Tues 30	O-i-C										
OCTOBER											
Wed 1		Jupiter 11 cm polarization	11 polarization	11	Continuum	"standard"	-	PDP-9	own	first and second half drivers reqd	(BUTLER)
Thur 2	Parkes	McCULLOCH (Uni.Tas)									
Fri 3	d/c, c/m										
Sat 4		KOMESAROFF									
Sun 5											
Mon 6	c/m										
Tues 7											
Wed 8			E N D OF Q U A R T E R								
Thur 9											
Fri 10											
Sat 11											

18 metre TELESCOPE PROGRAM

THIRD QUARTER - 1975

Date 1975 (inclusive)	Project	Persons
Tuesday 1 July - Tuesday 8 July	Unavailable for observations	
Wednesday 9 July - Monday 11 August	Reserved for modifications, maintenance etc. under supervision of	McAlister, Wellington
Tuesday 12 August - Sunday 17 August	Southern Milky Way 21cm Survey Requires 10 kHz filters, H/P 8660 Syn. Schl. Sun. crystal oscillators Multiplier chains, chart recorder. R1,R2, DATOS, paper tape punch Not to be moved without consultation	KERR, MURRAY, BOWERS, KERR (University of Maryland)
Monday 18 August - Monday 25 August	Intergalactic Gas Clouds Mark II back end	MATHEWSON, MURRAY, SCHWARZ (ANU)
Tuesday 26 August - Monday 1 September	NIL	
Tuesday 2 September - Monday 15 September	Galactic Structure Mark II back end	CLEARY (ANU)
Monday 22 September - Monday 6 October	Southern Milky Way 21cm Survey (cont..) (as above)	BOWERS (Uni.Maryland) MURRAY (KERR)