Dave Cooke

CSIRO - DIVISION OF RADIOPHYSICS

ALLOCATION OF TELESCOPE OBSERVING TIME AT PARKES RADIO OBSERVATORY

FOURTH QUARTER 1974

1. Duration

The quarter starts at 0800 hours on Monday, 21 October 1974 and will finish at 0800 hours on Tuesday, 24 December 1974 (Christmas Eve). It was necessary to extend the October shut-down by three days. However the first receiver - the 6 cm cryogenic - will be installed during the shut-down period.

2. Maintenance and Development Time

(a) Computer Maintenance ($^{C}/_{m}$) on Mondays is from 0800 to 1630 hours

(b) The period 0800 to 1300 hours on Tuesdays, Wednesdays and Thursdays are allocated to the Officer-in-Charge, Parkes. Unless otherwise arranged Computer Program Development will be allocated in these three periods each week. If you are observing at the wrong time of year and need morning periods for observation, then you must negotiate with the O-i-C Parkes and with the person to whom CPD time has been allocated.

(c) Computer Maintenance and Desk Checks (d/c) are on Fridays from 0800 to 1300 hours.

3. 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 for other use at or before 0800 hours on every week day.

4. Modification to the Program

Any modification to this program must be approved by the secretary, PPC. He will notify the Officer-in-Charge and 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 Cosmic Group secretary before approaching the administration section for tickets and arrangements. It is advisable to make sure that the administration section has informed the observatory of your arrival time.

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6. Times for Meals

Please write your meal requirements in the book in the dining room.

Breakfast	:	0730 - 0900
Lunch	:	1230
Dinner	:	1745

The Parkes staff have made a special appeal for people to be on time for meals. If you must have a quiet drink before dinner, knock off at 1715 - the equipment will still be there after dinner. Note that the generous breakfast period finishes at 9 o'clock. Do not expect to be fed after this time.

7. 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. The state of the current observation is not one of the factors influencing his decision.

8. Daytime Driving

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

9. Equipment Performance Summary

As part of an effort to improve operating conditions at the observatory the Operations Manager has issued a form: "Equipment Performance Summary" in which he asks the observer to report on performance, time lost and other details of the receiver, cryogenics, correlator, PDP-9, control, mechanical operation and the weather. It is in your own interests to fill in the form at the completion of your session.

10. Time not Allocated

More than 111 days of observation were sought in a "quarter" which contained only 64 useful days available. 15 days have been subtracted from those given time; a further 32+ were not allocated at all. The 21 cm, 11 cm, 5 cm and 3.4 cm receivers will not be used in the quarter.

11. Australian Eastern Summer Time

All the times in the program are either Eastern Standard Time or Sidereal Time. The clocks in the Control Room will remain set to these times. However at 0200 hours on 27 October 1974 Summer Time will start and will be applied elsewhere at the Observatory (e.g. mealtimes will be according to Summer Time).

Program Planning Committee per: R.X. McGee

CSIRO - DIVISION OF RADIOPHYSICS

EQUIPMENT PERFORMANCE SUMMARY

Date start: _____

Observer: _____ Date finish: _____

Receiver: _____

Please rate performance as Good (G), Fair (F), Poor (P), or "-" if not used. If other than (G), give details.

"Time lost" is scheduled observing time lost through equipment failure or bad weather.

	Performance	Time Lost	Remarks
Receiver			....
Cryogenics			....
Correlator			....
PDP-9			....
Control			....
Mechanical			....
Weather			....
Other			....

Further comments, suggested improvements, etc. .....

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DATE 1974 October	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 14 Tues15 Wed 16 Thur17 Fri 18 Sat 19 Sun 20		OCTOBER SHUTDOWN INSTALL 6cm RECEIVER COOKE, HALL, PHELPS, SMITH									
Mon 21	C/m	OH in galaxies	Low freq.feed	6- ℓ	Correlator	"usual"	-	PDP-9	CORLAT		
Tues22	O-i-C	GARDNER, WHITEOAK + 1 day	4660-4770 MHz	no	4 quads.						HAYNES
Wed 23		Vinyl cyanide	4572 MHz	switch	Filters on				LINE		(MAPING)
Thur24	Parkes	GARDNER, (WINNEWISSER)	absorber	10K cal.	standby						
Fri 25	C/m, d/c	SGP Sources	2-HE twin beam	6-c	Continuum	-	-	-	POS-6	Drivers from	
Sat 26		BOLTON, WRIGHT								afternoon to	
Sun 27		SAVAGE	Feed rotator							0600 hrs	
Mon 28	C/m										
Tues29	O-i-C	X-ray sources, close	2-HE twin beam	6-c	Continuum	Usual	-	PDP-9	STAKFL	-	SHIMMINS
Wed 30		binaries	reference feed	tuned	+				NODDY		(ON-OFF 4)
Thur31	Parkes	SEAQUIST	at FA 90°	to	correlator				POINT		
November Fri 1	C/m, d/c		parallactifier	5009 MHz	at end of run				CORLAT		
Sat 2		Flux density scale	2-HE	6-c	Continuum	-	-	PDP-9	Modified	Day drivers	
Sun 3		SHIMMINS, BUTLER	Cold load	Cal. ~ 100 K	special X4				STAKFL	but not 1900	
Mon 4	C/m			aux.cal. 5K	atten.					- 0000 hrs	
Tues 5	O-i-C										COOKE

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DATE 1974 Novem.	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
Wed 6	O-i-C	Gal. plane survey	2 HE	6-c	Continuum	"usual"	D.C. CRO	PDP-9	MAPING	24 hr. driving	COOKE (Filterbank tests)
Thur 7	Parkes		linear pol.					HP 45	STAKFL	where possible	
Fri 8	C/m, d/c	HAYNES, CASWELL	Cold load	Cal. ~ 5K					CORCON		
Sat 9											
Sun 10											
Mon 11	C/m										
Tues 12	O-i-C	Check Small Magellanic Cloud	2 HE switched cold load	6-c	Continuum	Approp. for	Sweeper, wavemeter, powermeter	PDP-9 3 pen Rikadenki	MAPING	Obs 2130 to	HAMILTON
Wed 13		McGEE, NEWTON		Cal. ~ 1K		cont. ops.			STAKFL	0930 if poss.	
Thur 14	Parkes	Radio stars	Noddy	6-c	-	-	-	PDP-9	?	?	( )
Fri 15	C/m, d/c		feed system								
Sat 16		WRIGHT, PURTON (U of Toronto)									
Sun 17											
Mon 18	C/m	Search Cyanamide	18 - 1 HE	Up-converter 1582→5100	10,33 filter	ϕ locked pump at 3518 MHz	automatic	PDP-9	LINE		
Tues 19	O-i-C	ROBINSON, SINCLAIR,	No absorber	6-ℓ tuned	Correlator	ϕ locked L.O.	noise	plotter,	LINRED		SAVAGE
Wed 20		GODFREY, BROWN (Monash)		to 5100 MHz		at 4800 MHz	figure meter	line printer	OPTY CORLAT		(DATRED)
C Thur 21	Parkes	K-band observations	K-band feed lateral feed translator. Absorber CV3	K-band mixer with either 6-ℓ or 18-ℓ as I.F.	Correlator filters as back-up	X-13 klystron, Dymec synchr. H/P klystron power supply	AIL auto N/F meter, power meter	PDP-9 + all peripherals	CORLAT	Technical man	
Fri 22	C/m, d/c	KNOWLES, BATCHELOR							LINE	as first day	
Sat 23		BALISTER, STEWART*							OPTY	driver	
Sun 24									CORTRN		
Mon 25	C/m										
Tues 26	O-i-C	* 3 days of 3 hrs. on Sun.							MAPING V3C		Cooke HAMILTON
Wed 27		OH in galaxies §	18 - orthogonal probe feed absorber	18-ℓ dual ch. 1612-1720MHz 10 K cal.	Correlator 4 quads filter standby	"usual"	-	PDP-9	CORLAT		
C Thur 28	Parkes	GARDNER, WHITEOAK							LINE		( )

§ (see Mon. 2/12/74)

DATE 1974 Nov/Dec	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
Fri 29	C/m,d/c	OH in Coal Sack	18-1HE dual	18-ℓ	Correlator	H/P, Schlm	L-band	PDP-9	CORLAT		
Sat 30		BROOKS, SINCLAIR	probe W/G Xion	total power		synths.	sweeper &	Dectape	OPTY		
Sun 1		MANEFIELD	absorber	mode		own multiplier	wavemeter	Houston			
Mon 2	C/m	§ *Share with Gardner and Whiteoak 1400 to 0200 AEST or as decided by duty astronomer*					powermeter (Counter)	X-Y plotter			
Tues 3	O-i-C	Pulsar polarization	18-1HE	18-c	own	H/P synth.	CRO	PDP-9	own		COOKE
Wed 4		HAMILTON, ABLES,	orthogonal								(filter bank
Thur 5	Parkes	COOKE	probes								tests)
Fri 6	C/m, d/c	Search methyl formate	18-1HE	18-ℓ	33 filters	18 ϕ locked	Chart rec.	PDP-9	LINE	No first	
Sat 7		ROBINSON, SINCLAIR	Circ. W/G	tuned to		LO + Multi-	CRO	plotter,	LINRED	half driver	
Sun 8		GODFREY, BROWN (Monash)	tailpiece	1610.2 MHz	Correlator	plier LO		line printer	CORLAT	required	
			No absorber			H/P, Schl.syn			OPTY		
Mon 9	C/m	HI absorption QSOs	Feeds for	"New"	Correlator	"new LO"	ℓ-f	PDP-9	CORLAT	J.D. Murray	
Tues 10	O-i-C	PETERSON, WRIGHT	408) MHz			H/P, Schl.	sweeper			will install	ABLES
Wed 11		MURRAY	463)			synths.				technical man	(DSRUN)
Thur 12	Parkes									1/1 day driver	
Fri 13	C/m, d/c	Dynamic spectra of	9- (any type)	9-ℓ	Filters	Freq.stability	-	PDP-9	own		
Sat 14		pulsar scintillations	circ.pol. if	"best	100, 33	as for line					
Sun 15		ABLES, ROBERTS	possible	available"		obs.					
			Absorber								

DATE 1974 December	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 16	C/m	408 MHz Southern	73-circular	73 MPI Rx	MPI	H/P synthes.	Sweeper	PDP-9	LOG 408	6^o/min. in	
Tues 17	O-i-C	Survey	+ apex single		polarimeter	440 MHz	for 408	via	DEC 408	ZA and	BUTLER
Wed 18		HASLAM, WILSON (MPI)	dipole and		and digital	counter	and 30 MHz	digital		6^omin in	( )
Thur 19	Parkes		415 MHz helix		backend			backend		Dec. with	
Fri 20	C/m, d/c	COOKE, CLEARY (ANU)	with 10 db	Liquid						ME	
Sat 21			pad	Nitrogen							
Sun 22				load							
Mon 23	C/m										
Tues 24			END OF FOURTH QUARTER								
Wed 25			CHRISTMAS SHUT-DOWN								
Thur 26											
Fri 27											
Sat 28											
Sun 29											
Mon 30											
Tues 31											