PARKES PROGRAMME FOR THE PERIOD

19 MARCH. 1987 to 23 JUNE. 1987

THIS PROGRAMME REPLACES ALL PREVIOUS PROGRAMMES
ISSUED FOR THIS PERIOD.

TIME IS ALLOCATED TO OBSERVERS AS SHOWN IN THE PROGRAMME SUBJECT TO THE FOLLOWING:

1. Until the onset of a major radio flare from SN 1987a blocks of time as set out below will be taken for monitoring. The actual times of these observations will be negotiated with the observers by the Director.

Monitoring will consist of:

- (a) Searches for pulsed emission by Ables et al. One 6 hour block each two weeks.
- (b) Searches for continuum radio emission using the Parkes-Tidbinbilla interferometer on days and at times determined by the availablity of the Tidbinbilla antenna etc, averaging 1.5 hours/day, with a minimum block size of 3 hours.
- (c) Searches for OH maser emission by Gardner et al.

  Two blocks each of 4 hours of LMC time during the time
  allocated to te Lintel et al. (April 13-20, and April 27
  May 7), and one block of 4 hours during the time allocated to
  Duncan et al. (May 21, 22).
- 2. If and when a major radio flare begins this programme will be replaced by a program emphasising observations of the flare. The initial version of this alternate program is based on the proposals received by March 6. FURTHER PROPOSALS TO OBSERVE THE SUPERNOVA, AND REVISIONS OF THE ORIGINAL PROPOSALS, ARE INVITED. IT IS ENVISAGED THAT THE ALTERNATE PROGRAM WILL BE CONTINUALLY REVISED IN THE LIGHT OF THE APPLICATIONS RECEIVED AND CHANGES TO THE AVAILABLE EQUIPMENT.

J.A.Roberts Chairman, Parkes Time Assignment Committee 10 March, 1987

## AUSTRALIAN NATIIONAL RADIO ASTRONOMY OBSERVATORY

P 0 BOX 276 PARKES. NSW 2870 Tel (068) 62 3677 TLX "QASER" AA63999

C.S.I.R.O., Division of Radiophysics

## OBSERVING SCHEDULE FOR 1987, QUARTER 2

#### DURATION

The duration starts at 0800 hrs on Thur 19 Mar and ends 0800 hrs on Wed 24 June.

The times listed are in Eastern Civil Time (i.e. either Standard Time or Summer Time as appropriate).

# 2. DAILY OBSERVING PERIODS AND DIRECTOR'S TIME

Daily observing time is allocated from 1400 hours to 0800 hours the following morning on weekdays, and from 0800 hours to 0800 hours the following morning on public holidays, except for those marked with an asterisk (\*). On these days observing time does not begin until 1600 hours, due to extended maintenance or receiver changes.

All time outside the daily observing periods is assigned to the Director. Observers will not be able to observe during the time assigned to the Director and must be prepared to relinquish use of the equipment promptly at the end of the scheduled periods.

## 3. TELESCOPE OPERATION

Whenever the telescope is not stowed a <u>qualified telescope</u> operator must be present in the <u>control room</u> and, in addition, at least one other person must be present in the telescope tower or structure (but not necessarily in the control room).

## 4. WIND RESTRICTIONS

Instruction for the operation of the telescope in wind are displayed in the control room. The telescope operator is the person responsible for any action to be taken. No one may override an automatic wind-stow operation initiated by the computer except in any emergency situation as determined by the telescope operator on duty.

#### 5. ACCOMMODATION

Accommodation at the Quarters is usually available from the night before an observing session starts until the day following the end of observations.

Any Radiophysics person whose name is not listed on the program must first obtain permission from his Group Leader before making arrangements. Other observers and intending casual visitors should contact the Observatory Director first. ALL OBSERVERS AND VISITORS MUST ENSURE THAT THE OBSERVATORY IS INFORMED OF THEIR PROPOSED ARRIVAL AND DEPARTURE TIME

#### 6. MEAL TIMES

Breakfast : 0730-0900 Monday ~ Friday (Serve yourself at weekends)

Lunch: : 1230

Dinner : 1745

Please book your meals by writing your name in the book in the dining room.

## 7. LIASON WITH OBSERVATORY STAFF

The "underlined" observer is that person designated by the observing group as the official spokesman and contact with observatory staff as regards to technical matters, driving requirements etc.

CALTEC California Institute of Technology GSFC Goddard Space Flight Centre JB Nuffield Radio Astronomy Laboratory AAO Anglo Australian Observatory

AI Astronomical Institute, Ruhr - University

CALTEC California Institute of Technology

GSFC Goddard Space Flight Centre

JB Nuffield Radio Astronomy Laboratory

MQ Macquarie University

MPI Max Planck Institute for Radio Astronomy

MSSSO Mount Stromlo and Siding Springs Observatory
PRL Physical Research Laboratory, Ahmedabad, India

RP C.S.I.R.O. Division of Radiophysics

UL University of Leiden UTAS University of Tasmania

DATE	PROGRAMME	RECEIVERS						-	
	8 <sup>h</sup> 14 <sup>h</sup> 16 <sup>h</sup>		Tuned to frequencies/velocities	Cal Size (K)	Feeds, Vertex	Back	Other	Computer	Assist reques
* = exten	ded maintenance period	A cm	Velocities		etc.	end	Specifications	Programs	?
MARCH 19 Thur 20 Fri 21 Sat 22 Sun	ERROR DETECTOR MODS AND POINTING Sciacca and Parkes Staff.	3.4	8.4GHz						
23 Mon 24 Tue 25 Wed 26 Thur 27 Fri	NON-THERMAL RADIO  Directors EMISSION  Slee, Nelson,  Stewart, Wright, (RP),  Robinson (AAO),  CATACLYSMIC VARIABLES  Cropper (AAO), Wright,  Nelson, Slee, Stewart	3.4	8.4GHz	1	Noddy	Cont			No
28 Sat 29 Sun	POINTING ELECTRICAL MODS **NOTE**: Power will be off Obs. Site most of this period.								
30 Mon	INSTALL PARKES AT RECEIVER AND POINTING	21							
31 Tue	Directors MOTION LOCAL GROUP Time Mould et al	AT 21	1390-1420MHz	•	1HE	Corr	2 Spectra 512 Channels BW 5 & 10MHz	Spectra	

DATE	P	PROGRAME		RECEIVERS								
	8 <sup>h</sup> 14 <sup>h</sup>	h 14 <sup>h</sup> 16 <sup>h</sup>				Tuned to frequencies/	Cal Size	Feeds, Vertex	Back	Other	Computer	Assista request
* = exten	ded main	tenance period	<b>À</b> CM	velocities	(K)	etc.	end	Specifications	Programs	?		
APRIL 1 Wed		SURVEY MILLISECOND & BINARY PULSARS Manchester (RP), Lyne (JB), D'Amico (UP- AL), Kniffen (GCFC) Komesaroff (RP)	AT 21		Pulsed 1K 0.1K	1HE	Own Filters	Filter Bank 2x4x5MHz (50MHz.IF)		-		
2 Thur	,	INSTALL 5cm SYSTEM ON AT RECEIVER	AT 5	6035GHz		1HE						
3 Fri 4 Sat	]	OH QUASI-THERMAL EMISSION & ABSORPTION Whiteoak & Gardner	AT 5	6035GHz	10	1HE	Corr	Corr 2x512 Spectra BW 0.5, 1.0, 2.0, 5.0MHz Vertex Rod.	Spectra Spot			
5 Sun 6 Mon		EVALUATION AT RX AT 6 GHz <u>Caswell</u> , Forster, Haynes (RP)	AT 5	6035GHz	10	1HE	Corr					
7 Tue	Director Time	's INSTALL 12GHz RX	25	12000MHz				·				
8 Wed 9 Thur 10 Fri 11 Sat	-	12GHz METHANOL MASERS Norris, Caswell, Gardner, Whiteoak, Wellington (RP)	25	12GHz	•	Supplied by User	Corr	Receiver supplied by User	Spectra	Yes		
12 Sun												
	,								ļ			

	DATE	PROGRAMME	PROGRAMME RECEIVERS						-	
	* = exten	8 <sup>h</sup> 14 <sup>h</sup> 16 <sup>h</sup> ded maintenance period		Tuned to frequencies/ velocities	Cal Size (K)	Feeds, Vertex etc.	Back end	Other Specifications	Computer Programs	Assista request ?
	APRIL 13 Mon 14 Tue 15 Wed 16 Thur 17 Fri	IRAS POINT SOURCES  Directors (Part 1)  Time te Lintel, Habing (UL),  Caswell, Norris,  Haynes (RP)	AT 18	1612 1667	10	lHE 2 Lin. Pols	Corr	2x512 Spectra BW 2MHz	Spectra Spot	
ĺ	18 Sat 19 Sun 20 Mon	EASTER							-	
	21 Tue 22 Wed 23 Thur 24 Fri 25 Sat 26 Sun	Directors MAGELLANIC Time STREAM Mathewson, Ford(MSSSO), SEARCH FOR CENTRE OF METAGALAXY Lynden-Bel ANZAC DAY (MSSSO) Mathewson (MSSSO)	j	1420	5	1HE	Corr	2x512 Channel Spectra	Spectra	
					•					

DATE	PROGRAMME	RECEIVERS					,		
•	8 <sup>h</sup> 14 <sup>h</sup> 16 <sup>h</sup>	<b>À</b> an	Tuned to frequencies/ velocities	Cal Size (K)	Feeds, Vertex etc.	Back end	Other Specifications	Computer Programs	Assista request
- exten	ded maintenance period						- Perilication	ricgians	3
29 Wed	<b>} !</b> • • • • • • • • • • • • • • • • • • •	18	1610-1667MHz	3.5	1HE	Corr			
30 Thur  MAY  1 Fri	Whiteoak, Gardner (RP)  Wood, Bessell (MSSSO) 2 days 23h—llhr Sid Time  SCINTILLATION THROUGH				1111	COFF		Spectra 64m	
2 Sat 3 Sun 4 Mon 5 Tue 5 Wed	TAIL COMET WILSON Slee, Lim (RP), Alurkar (PRL) 2 days, 23—11.30h Sid Time Directors Time	75	408 <sup>±</sup> 2.5MHz Dual Channel		Disc in offset pan	Cont	Minimum Interferenc		,
7 Thur								1	
8 Fri	INSTALL 600MHz, 950MHz RECEIVERS								
9 Sat 10 Sun 11 Mon 12 Tue 13 Wed 14 Thur	FAST PULSAR SEARCH Ables, Jacka, Hall (RP Hamilton, McCulloch, McConnell (UTAS)  Directors Time	) 50 32	650MHz 950MHz	•	Rxs in Central & one offset pan	Own	Min. Pulse Interference	Own	
14 Inur									

,	DATE PROGRAMME		POCRAMME		RECEIVERS			1	,		
		8 <sup>h</sup> 14 <sup>h</sup>		<b>λ</b> cm	Tuned to frequencies/ velocities	Cal Size (K)	Fecds, Vertex	Back	Other	Computer	Assista request
	* = exten	ded main	tenance period				etc.	end	Specifications	Programs	3
	MAY 15 Fri 16 Sat 17 Sun 18 Mon		PULSAR ROTATION MEASURE, SINGLE PULSE OBS. Costa, <u>Hamilton</u> , McCulloch, McConnell, (UTAS)	50	650MHz		Own Rx		Own back-end equipment	0wn	
	19 Tue	Directory, Dime	ors								
	20 Wed		RE-COOL AT RX							·	
	21 Thur 22 Fri		COMET WILSON Duncan, Stewart (RP) 03h—13h Sid Time (te Lintel if necessary	AT 18	1600-1670MHz	10	. THE	Corr	Require some Directors Time	Spectra	
	23 Sat 24 Sun 25 Mon 26 Tue 27 Wed 28 Thur 29 Fri	Directo Time	SURVEY GALACTIC CENTRE Rohlfs, Kreitsehmann Ors 11 days 13h—22.30 Sid Time (Rohlfs & Wayte to share 11 days).	AT 21	1420	5	1HE	Corr		Spectra	
	30 Sat 31 Sun JUNE 1 Mon 2 Tue	Directo Time	HI IN MAGELLANIC SYSTE Wayte (MSSSD) lldays 22.30—12.30 Sid Time less Directors Time	21	1420MHz	5	1HE	Corr		Spectra	

DATE	PROGRAMME		RECEIVERS			1	1	:	
	8 <sup>h</sup> 14 <sup>h</sup> 16 <sup>h</sup>	<b>a</b> an	Tuned to frequencies/velocities	Cal Size (K)	Feeds, Vertex etc.	Back	Other	Computer	Assistan requeste
* = exten	xded maintenance period			(20)	وس،	end	Specifications	Programs	3
JUNE 3 Wed 4 Thur 5 Fri 6 Sat 7 Sun 8 Mon 9 Tue	CALIBRATOR SOU  Norris, Jaunce Calabretta, Ke Taaffe, Wellin White, Harvey Batty (MQ)  Directors Time	ey, esteven, ngton, AT	2290 <sup>‡</sup> 10MHz PTI DSS45	3	1HE	PTI	TID (AEST) Jun 4 0200-1800 Jun 5 0200-1800 Jun 6 0200-1800 Jun 7 0200-1800 Jun 8 0200-1800 Jun 9 0200- Jun 10 -0800	PTI	
10 Wed 11 Thur 12 Fri 13 Sat 14 Sun	TESTS BONN PO METER Haynes (RP), ski, Buzcilow Murray, Sciac Wark, Hunt, J	Wielebin- wski (MPI) cca,	2290MHz BW=300MHz		1HE Circ Pol	New Bonn Pol + 11/73 B/End		Scan + Mods	
15 Mon 16 Tue	SOFTWARE TESTS Directors Parkes S Time	Į.	·					,	
17 Wed 18 Thur	Norris et al	(Cont) AT	2290MHz PTI	3	1HE	PTI	TID (AEST) Jun 18 0200–1800 Jun 19 0200–1800	PTI	

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DATE	DATE PROGRAMME			RECEIVERS					· ·	
		14 <sup>h</sup> 16 <sup>h</sup>		Tuned to frequencies/ velocities	Cal Size	Feeds, Vertex	Back	Other	Computer	Assistan requeste
* = exter	nded mair	ntenance period	<b>)</b> an	velocities	(K)	etc.	end	Specifications	Programs	3
JUNE 19 Fri 20 Sat 21 Sun 22 Mon 23 Tue	, Directo Time	FLAT-SPECTRUM SOURCES White, Jauncey, Norris Taaffe (RP), Savage, (UKS)	AT 13	2290MHz PTI DSS45	. 3	1HE	PTI	TID (AEST) Jun 20 0200-1800 Jun 21 0200-1800 Jun 22 0200-1800 Jun 23 0200- Jun 24 0800		
		END OF QUARTER								
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