

Appendices

A: Financial information

Expenditure (actual) 2002-2003 ¹	A\$1,000s
Operation of the Narrabri (Paul Wild) Observatory ²	3,384
Operation of the Parkes Observatory ³	2,609
Research support Marsfield (ATNF contribution) ⁴	1,901
Engineering, development and asset replacement	3,522
External contracts	1,411
Office of Director	934
Astrophysics program	1,657
Computing	1,000
National Facility support	659
MNRF-1997	1,136
MNRF-2001	1,246
Federation Fellowships	161
Corporate repairs and maintenance	205
TOTAL	19,825

Revenue (actual) 2002-2003	
Direct appropriation ⁵	13,589
Research and services revenue	5660
Other external revenue	458
Asset replacement reserve draw down	1,324
Corporate repairs and maintenance	160
TOTAL	21,191

Notes:

1. Expenditure includes capital but excludes depreciation.
2. Includes the operation of the observatory's Visitors Centre and the Mopra Observatory.
3. Includes the operation of the observatory's Visitors Centre.
4. The ATNF shares its Sydney headquarters with CSIRO Telecommunications and Industrial Physics.
5. Excludes A\$4.8M depreciation appropriation.

B: Staff list, January to December 2003

ATNF staff

Marsfield

- J Archer (Administration)
- P Axtens (Receivers)
- A Barends (Office of Director- PA)
- R Beresford (Electronics)
- R Bolton (Receivers)
- P Bonvino (Machine Shop)
- M Bourne (Machine Shop)
- M Bowen (Receivers)
- B Boyle (ATNF Director)
- J Brooks (Assistant Director, & Engineering Manager)
- W Brouw (Astrophysics/Computing)
- H Burchey (Electronics)
- M Calabretta (Computing)
- G Carrad (Receivers)
- J Caswell (Astrophysics)
- A Chandra (Computing)
- J Chapman (Head, National Facility Support)
- R Chekkala (Electronics)
- A Chippendale (Electronics)
- D Craig (Electronics)
- G Cook (Machine Shop)
- E Davis (Electronics)
- M Death (Machine Shop)
- V Drazenovic (National Facility Support)
- A Dunning (Receivers)
- B Egan (Machine Shop)
- J Ekers (Office of Director)
- R Ekers (ATNF Director until April, then Federation Fellow)
- T Elton (Electronics)
- R Ferris (Electronics)
- J Flores (Machine Shop)
- G Gay (Receivers/overseas)
- R Gough (Receivers)
- G Graves (Receivers)
- E Hakvoort (Receivers)
- P Hall (Electronics)
- G Hobbs (Bolton Fellow/Astrophysics)
- R Hollow (National Facility Support)
- P Howson (Divisional Secretary)
- T Huynh (Machine Shop)
- O Iannello (Machine Shop)
- C Jackson (Business Development Manager)
- S Jackson (Electronics)
- P Jones (Computing/LBA)
- E Kachwalla (National Facility Support)
- H Kanoniuk (Receivers)
- M Kesteven (Astrophysics/Engineering Research)
- V Kilborn (Swinb/ATNF/ARC CSIRO Fellow)
- N Killeen (Head, Computing)
- B Koribalski (Astrophysics)
- M Leach (Electronics)
- J Lie (Receivers)
- S Little (Astrophysics/Federation Fellow PA)
- M Marquarding (Computing)
- S Magri (Electronics)
- R Manchester (Federation Fellow from June)
- G Manefield (Engineering PA)
- D McConnell (General Manager)
- N McClure-Griffiths (Bolton Fellow/Astrophysics)
- V McIntyre (Computing)
- M McMullen (Electronics)
- G Moorey (Receivers)
- T Murphy (Computing)
- R Norris (Deputy Director)
- R Ojha (Astrophysics)
- W Orchiston (National Facility Support)
- J Ott (Bolton Fellow/Astrophysics)
- S O'Toole (Administration)
- C Phillips (Bolton Fellow/Astrophysics/Engineering)
- D Pisano (NFS-MPS/Bolton Fellow/Astrophysics)
- G Powell (Receivers)
- L Reilly (Receivers)
- P Roberts (Electronics)
- S Saunders (Electronics)
- H Sim (National Facility Support)
- L Staveley-Smith (Head, Astrophysics)
- M Storey (SKA)
- P Sykes (Receivers)

A Tzioumis (Astrophysics/LBA)
 M Walker (ATNF/USyd Research Fellow)
 N Wang (ATNF/USyd Postdoctoral Fellow)
 G Warr (Electronics)
 B Wilson (Administration)
 W Wilson (Head, Electronics)
 T Wong (Bolton Fellow, UNSW/ATNF, ARC/CSIRO Fellow)
 A Wright (National Facility Support)

Marsfield Staff shared with CSIRO Telecommunications and Industrial Physics

S Clark (Administration)
 O D'Amico (Administration)
 C Duffy (Administration)
 C Hodges (Administration)
 K Lambert (Administration)
 B Wrbik (Administration)
 P Cooper (Engineering Services)
 W Finch (Engineering Services)
 M McDonald (Site Services)
 R Moncay (Machine Shop)
 B Parsons (Assistant Engineering Manager)
 P Sharp (Engineering Services)
 J Uden (Site Services)
 B Wilcockson (Assistant Engineering Manager)
 M Wright (Machine Shop)
 A Joos (Library)
 C van der Leeuw (Library)

Narrabri

D Aboltin (Electronics)
 R Behrendt (Electronics)
 D Brennan (Lodge)
 D Brodrick (Computing)
 D Brooke (Electronics)
 M Dahlem (Operations)
 E Darcey (Antennas & Site Services)
 A Day (Electronics)
 O Dowd (Antennas & Site Services)
 K Forbes (Administration)
 C Gay (Administration)
 J Giannaris (Computing)
 M Guest (Lodge)

M Hill (Electronics)
 B Hiscock (Electronics)
 J Houldsworth (General Services)
 B Johnson (Antennas & Site Services)
 T Kennedy (Visitors Centre)
 S Koljatic (Electronics)
 C Leven (Antennas & Site Services)
 J McFee (Electronics)
 M McFee (General Services)
 S Munting (Electronics)
 C Murphy (Antennas & Site Services)
 L Nuygen (Computing)
 B Reddall (Electronics)
 M Rees (Lodge)
 S Robertson (Operations)
 D Rowe-McDonald (General Services)
 R Sault (Officer-in-Charge)
 L Saripalli (Astrophysics)
 J Stump (Library)
 R Subrahmanyam (Operations)
 G Sunderland (Antennas & Site Services)
 B Tough (Electronics)
 E Troup (Computing)
 M Voronkov (Computing)
 R Wark (Operations)
 N Webster (Antennas & Site Services)
 J Wieringa (Library)
 M Wieringa (Computing)
 C Wilson (Lodge)

Parkes

L Ball (Deputy Officer-in-Charge/HR Manager)
 D Catlin (RF systems)
 J Cole (Lodge)
 J Crocker (Site Services)
 B Dawson (RF Systems)
 R Eslick (Site Services)
 G Freeman (Administration)
 C Grover (Site Services)
 A Hockings (Site Services)
 J Hockings (PA/Visitors Centre)
 S Hoyle (Computing)
 A Hunt (Electronics/Servo)
 S Ingram (Lodge/Site Services)
 B Lanzarini (Administration Trainee, 2003)

R Lees (Site Services)
D Lewis (Operations)
S Mader (Operations)
L Milgate (Visitors Centre)
B Preisig (Electronics/Servo)
L Price (Visitors Centre)
K Reeves (Site Services)
J Reynolds (Officer-in-Charge)
T Ruckley (Electronics)
J Sarkissian (Operations)
J Smith (Visitors Center Manager)
M Smith (RF systems)
G Spratt (Computing)
T Trim (Visitors Centre, Casual)
B Turner (Site Services)
S Turner (Site Services)
R Twardy (Visitors Centre)
K Unger (Visitors Centre)
R Walker (Visitors Centre)
T Wilkie (Visitors Centre)
L Williams (Site Services)

Canberra

F Briggs (ANU/ATNF, Astrophysics/SKA)
D Jauncey (Astrophysics)
J Lovell (Astrophysics/Tidbinbilla)

C: Committee membership

ATNF Steering Committee at 31 December 2003

Chairman

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Mrs Anne Barends, ATNF

Members

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Dr Gerry Haddad, Chief, CSIRO Telecommunications and Industrial Physics

Dr Ron Sandland, Deputy Chief Executive, CSIRO

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Prof Frank Briggs, Research School of Astronomy and Astrophysics

Prof Anne Green, School of Physics, Sydney University

International advisers

Dr Norio Kaifu, Director General, National Astronomical Observatory of Japan, Tokyo, Japan

Prof Phil Diamond, Director, Merlin and VLBI National Facility, Jodrell Bank, UK

Dr Ken Kellermann, National Radio Astronomy Observatory, Charlottesville, USA

Industry

Dr Robert Frater, Vice President Innovation, Res Med, North Ryde

Dr Stephen Rotheram, Managing Director, Networks Cable & Wireless Optus, Australia

MNRF Technical Advisory Committee

Dr S Guilloteau, Institut de Radio Astronomie Millimetrique (France)

Dr P Napier, National Radio Astronomy Observatory (USA)

Dr R Padman, Mullard Radio Astronomy Observatory (UK)

Dr A Young, CSIRO Telecommunications and Industrial Physics (Australia)

Dr N Whyborn, Space Research Organisation Netherlands (The Netherlands)

Australia Telescope Users Committee January to December 2003

Chair

Dr C Jackson, Research School of Astronomy & Astrophysics, Australian National University

Dr S Tingay, Swinburne University

Secretary

Mr V McIntyre, ATNF

Dr J Lovell, ATNF

Members

Dr D Barnes, University of Melbourne

Dr J Bland-Hawthorn, Anglo-Australian Observatory

Dr S Ellingsen, University of Tasmania

Dr B Gibson, Swinburne University

Mr A Hotan*, Swinburne University

Dr M Hunt, University of Sydney

Dr H Jerjen, Research School of Astronomy & Astrophysics, Australian National University

Dr S Johnston, University of Sydney

Mr D Lewis*, University of Tasmania

Dr N McClure-Griffiths, ATNF

Dr M Meyer, University of Melbourne

Dr M Wardle, Macquarie University

Dr T Wong, ATNF

Dr C Wright, Australian Defence Force

Dr M Zwaan, University of Melbourne

* student member

Australia Telescope Time Assignment Committee January to December 2003

Chairman

Prof B Schmidt, RSAA, Australian National University

Secretary

Dr J Chapman, ATNF

Members

Ex-Officio

Prof B Boyle, Director, ATNF

Dr J Reynolds, Officer-in-Charge, Parkes Observatory, ATNF

Dr B Sault, Officer-in-Charge, Narrabri Observatory, ATNF

Voting members

Dr P Francis, RSAA, Australian National University

Dr A Green, University of Sydney

Dr A Melatos, University of Melbourne

Prof R Norris, ATNF (Acting Director)

Dr S Ryder, Anglo-Australian Observatory

Prof J Storey, University of New South Wales

Dr L Staveley-Smith, ATNF

D: Observing programs

Observations made with the Australia Telescope Compact Array January to December 2003

Observers	Affiliations	Program Title	Number	Hours
Manchester, Gaensler, Staveley-Smith, Tzioumis, Kesteven	ATNF, CfA, ATNF, ATNF, ATNF	SNR 1987A	C015	111.5
Ryder, Smith, Bottcher	AAO, URice, OSU	The 1978 supernova in NGC 1313	C184	15.5
Duncan, Koribalski, White	ATNF, ATNF, UMar	High-spatial-resolution observations of Eta Carinae	C186	26
McClure-Griffiths, Dickey, Gaensler, Haverkorn, Green	ATNF, UMinn, CfA, CfA, USyd	The SGPS II: the Galactic Center	C596	321.5
Frail, Subrahmanyan, Kulkarni, Berger, Wieringa, Wark, Price, Schmidt	NRAO, ATNF, Caltech, Caltech, ATNF, ATNF, RSAA, RSAA	Radio afterglows of GRBs: a clue to the progenitors	C651	NAPA
Benaglia, Koribalski	IAR, ATNF	The radio spectrum of HD 93129A	C678	38
Stappers, Gaensler, Getts	NFRA, CfA, ATNF	Continuum radio emission from accretion powered MSP's	C751	NAPA
Fender, Corbel, Gallo, Tzioumis	UAm, CEA, UAm, ATNF	The large-scale relativistic jet of GX 339-4	C767	86
Beaulieu, Freeman, Bureau, Carignan, Meurer	ULav, RSAA, UCImba, UMont, JHU	Triaxial halos and the outer HI disks of spiral galaxies	C819	12
Minchin, Disney, de Blok, Garcia, Grossi	UCardiff, UCardiff, UCardiff, UCardiff, UCardiff	ATCA identification of HIDEEP 21-cm multibeam detections	C822	94
Fender, Sault, Pooley, Spencer, McCormick	UAm, ATNF, MRAO, JB, JB	Circular polarisation of radio-bright X-ray transients (NAPA)	C857	NAPA
Minier, Barnes, Myers, Herpine, Bontemps, Ellingsen, Elitzur, Norris, Booth	UNSW, UNSW, CfA, OBois, OBois, UTas UKent, ATNF, OSO	Methanol masers: exclusive signposts or massive star formation?	C893	62
Caswell	ATNF	Rise and fall of an OH maser flare	C906	16
McIntyre, Staveley-Smith, Milne, Sault, Dickel, Chu, Meixner, Dickey, Klein, Plante	ATNF, ATNF, ATNF, ATNF, UIL, UIL, UMinn, RAIUB, NCSA/ UIL	A 5- and 8.6-GHz survey of the LMC with the ATCA	C918	110
Bignall, Jauncey, Macquart, Tzioumis, Lovell, Kedziora-Chudczer	NFRA, ATNF, KI, ATNF, ATNF, USyd	The microarcsecond-scale structure and evolution of PKS 1257-326	C927	70.5
Reynoso, Green, Dubner, Giacani, Johnston, Goss	USyd/IAFE, USyd, IAFE, USyd, NRAO, NRAO	The interstellar medium towards peculiar neutron stars	C940	42.5
Hunstead, Cotter, Tzioumis, Safouris, Bicknell	USyd, IoA, ATNF, RSAA, RSAA	The extraordinary radio Galaxy MRC B1221-423	C956	11.5
Johnson, Pisano, Indebetouw	NRAO, ATNF, UWis	Searching for infant globular clusters	C958	95
Subrahmanyan, McClure-Griffiths, Kanekar	ATNF, ATNF, KI	Determining the temperature of the warm neutral medium	C962	40
Beasley, Staveley-Smith, Claussen, Marvel, Boboltz	Caltech, ATNF, NRAO, AAS, USNO	Water masers in the Magellanic Clouds	C973	25.5

Manchester, Staveley-Smith, Gaensler, Kesteven, Tzioumis	ATNF, ATNF, CfA, ATNF, ATNF	SNR 1987A at 12mm	C981	79.5
Brocksopp, Corbel, Fender, Hannikainen, Tingay, Tzioumis	LivJMU, CEA, UAm, UHel, ATNF, ATNF	NAPA Radio jets in recurrent and new x-ray transients	C989	NAPA
Bourke, Wilner, Wright, Wong, Dishoeck, Jorgensen	CfA, CfA, ADFa, ATNF, LO, LO	Observations of pre-planetary disks at 3 mm	C996	47
Hunstead, Sadler, De Breuck, Klamer, Rocca-Volmerange	USyd, USyd, IAP, USyd, IAP	High redshift radio galaxies from SUMSS	C1000	48
Dahlem, Ehle, Ryder, Haynes, Peart	ESO, ESA, AAO, UTas, UTas	HI observations of galaxies with radio halos	C1005	90
Temporin, Staveley-Smith, Weinberger	IAI, ATNF, IAI	Radio continuum in the compact galaxy group CG J1720-67.8	C1026	21.5
Dodson, Lewis, de Jager, Edwards	ISAS, UTas, SRU, ISAS	Imaging the PSR1706-44 pulsar wind nebula	C1033	36
Koekemoer, Mobasher, Dickinson, Norris, Jackson, Cram, Webster, Goods, + CDSF Teams	STScI, STScI, STScI, ATNF, RSAA, USyd, UMelb, STScI	Ultra-deep radio imaging of the Chandra Deep Field South	C1035	28
Wayth, Webster	UMelb, UMelb	Snapshots of southern gravitational lens candidates	C1037	72
Bernardi, Carretti, Cortiglioni, Sault, Subrahmanyan, Poppi, McConnell, Kesteven	IASF-CNR, IASF, IASF, ATNF, ATNF, IRA, ATNF, ATNF	Polarisation observations in the BOOMERANG field at 13cm	C1039	36
Warren, Koribalski, Jerjen, Staveley-Smith	RSAA/ATNF, ATNF, RSAA, ATNF	The nature of nearby high HI mass-to-light ratio field galaxies	C1046	120.5
Ekers, Jackson, Kesteven, Ricci, Sadler, Staveley-Smith, Subrahmanyan, Walker, Wilson, Zotti	ATNF, RSAA/ATNF, ATNF, OAT, USyd, ATNF, ATNF, ATNF/USyd, ATNF, OAP	Wideband 20-GHz sky survey	C1049	308
Slee, Drake, Orchiston, Willes	ATNF, GSFC, ATNF/AAO, USyd	Radio emission from the Parkes List of Active Stars	C1056	22
Duncan, Koribalski	ATNF, ATNF	The circumstellar nebulae of Wolf-Rayet Stars	C1059	11.5
Bignall, Jauncey, Lovell, Tzioumis, Kedziora-Chudczer, Macquart	UAd, ATNF, ANTF, ATNF, UNSW, KI	Measurement of the ISM velocity towards the IDV PKS 1257-326	C1060	24
Ryder, Sadler, Subrahmanyan, Weiler	AAO, USyd, ATNF, NRL	The radio-luminous supernova 2001ig	C1066	37
Hunt, Jones, Godfrey, Cragg, Burton, Minier, Bolza	UNSW, ATNF, Monash, Monash, UNSW, UNSW, UNSW	Biomolecules in the interstellar medium	C1077	34
Minier, Purcell, Hill, Burton, Hunt, Balasubramanyam, Wong	UNSW, UNSW, UNSW, UNSW, UNSW, RRI, ATNF	High resolution observations of hot molecular cores	C1082	16
Corbel, Fender, Tzioumis, Mitchell, Kaaret, Tomsick, Miller, Wijnands	CEA, UAm, ATNF, ATNF, CfA, UCSD, MIT, MIT	The jet/ISM interactions around the black hole XTEJ1550-564	C1087	49.5
Hoare, Lumsden, Busfield, Oudmaijer, Burton	ULeeds, ULeeds, ULeeds, ULeeds, UNSW	Massive star formation in the Galaxy: red MSX sources	C1088	82.5
Hamnett, Beck, Ehle, Haynes	UTS, MPIfR, ESA, UTas	Magnetic fields in central regions of barred galaxies	C1092	24

Urquhart, Thompson, White, Morgan	UKC, UKC, UKC, UKC	Bright-rimmed clouds: tracing their ionised rims	C1093	52
Whiteoak, Hunt	ATNF, UNSW	The molecular lords of the rings in the nucleus of NGC 4945	C1094	13
Jones	ATNF	Flaring FR I jets in radio galaxies B1308-441 and B0546-329	C1096	26.5
Pisano, Barnes, Gibson, Staveley-Smith	ATNF, UMelb, Swinb, ATNF	Intragroup HI in local group analogs	C1107	104.5
McConnell, Subrahmanyan, Carretti, Cortiglioni, Poppo, Sault	ATNF, ATNF, IASF-CNR, IASF-CNR, IRA-CNR, ATNF	Sky polarisation at 5 GHz	C1109	79.5
McCallum, Ellingsen, Lovell, Greenhill, Kondratko	UTas, UTas, ATNF, CfA, CfA	Searching for extended structure in ESO 269-G012	C1110	12
Moffett, Reynoso, Hughes	UFurm, USyd, URutg	Measuring the expansion of SN1006	C1114	32
McClure-Griffiths, Benjamin, Putman, Ekers, Johnston-Hollitt	ATNF, UWis, CASA, ATNF, UAd/ATNF	Magnetic fields in high velocity clouds	C1115	24.5
Lee, Lim, Kwok	UCal, ASIAA, UCal	Search for ionized jets in southern narrow-waist bipolar nebulae	C1121	27.5
Churchwell, Sewilo, Watson, Araya, Hofner, Kurtz	UWis, UWis, UWis, UPuert, UPuert, UNAM	Resolution of distance ambiguities in the Inner Galaxy	C1123	49
Garay, Brooks, Rodriguez, Mardones	UChi, UChi, UNAM, UChi	A collimated jet associated with an O-type protostar	C1124	6.5
Staveley-Smith, Donley, Koribalski, Henning, Kraan-Korteweg, Schroeder	ATNF, ATNF, ATNF, UNM, UGuan, ULeic	A massive galaxy in the Zone of Avoidance	C1125	25
Phillips	ATNF	Testing a bandwidth switching calibration scheme	C1126	16
Phillips, Messineo, Sjourwerman, Habing, Menten	ATNF, LO, NRAO, LO, MPIfR	Stellar SiO Masers as probes of Galactic bulge kinematics	C1127	24
Ott, Walter, Brinks, Staveley-Smith	ATNF, NRAO, INAOE, ATNF	Gone with the wind: dwarf galaxies blown away	C1128	73.5
Vergani, Pizzella, Corsini, Ott	RAIUB, OAP, OAP, ATNF	Accretion events in spiral galaxies with nuclear stellar disks	C1129	72
Reynoso, Green	USyd/IAFE, USyd	The nature of the radio source G332.5-5.6	C1130	23
Whiteoak, Hunt	ATNF, UNSW	HCO+ and HCN imaging of the LMC complex N159	C1131	12
Hunt, Whiteoak	UNSW, ATNF	Imaging the 18-GHz J=2-1 transition of HC3N in Sgr B2	C1132	25
Bouchard, Jerjen, DaCosta, Staveley-Smith, Freeman	RSAA, RSAA, RSAA, ATNF, RSAA	HI survey of dwarf galaxies in the CenA and Sculptor Group.	C1133	73.5
Sadler, Mauch	USyd, USyd	Were PKS 2225-253 & MRC 2220-700 radio hypernovae?	C1135	24.5
Irwin, English, Harnett	Queens, UManit, UTS	Extra-planar radio emission in NGC 4945	C1137	25
Barnes, Myers, Minier, Purcell, Burton, Longmore	USyd, CfA, UNSW, UNSW, UNSW, UNSW	An ammonia survey of medium- and high-mass protostars	C1138	95.5
Bruens, Westmeier, Kerp, Mebold	RAIUB, RAIUB, RAIUB, RAIUB	HI observation of compact high-velocity clouds	C1139	37.5

Minier, Lineweaver, Norris	UNSW, UNSW, ATNF	A search for water masers toward extrasolar planetary systems	C1140	14.5
Sarkissian, Sault, Reynolds	ATNF, ATNF, ATNF	A search for extra-solar radio planets	C1141	10
Wong, Minier, Forster	ATNF, UNSW, HatCreek	Deuterated ammonia in NGC 6334 I (N)	C1143	22
Gurovich, Staveley-Smith, Freeman, Jerjen, de Blok	RSAA, ATNF, RSAA, RSAA, UCardiff	Investigating the Baryonic Tully-Fisher Law with a HIPASS sample	C1144	74
Hill, Burton, Hunt, Minier, Purcell	UNSW, UNSW, UNSW, UNSW, UNSW	Dust emission from protostellar cores	C1145	40
Lazendic, Whiteoak, Wardle, Green	Cfa, ATNF, UMac, USyd	A study of OH absorption lines in SNRs	C1146	25
Purcell, Minier, Barnes, Burton, Hunt, Hill, Wong	UNSW, UNSW, UNSW, UNSW, UNSW, UNSW, ATNF	HCO+ observations of massive young stellar objects	C1147	18
Smith, Robinson, Corbett, Axon, Gallimore	UHerts, UHerts, AAO, RochI, UBuck	Radio axes and the optical polarization of Seyfert galaxies	C1148	14
Rosenberg, Stocke, Ryan-Webber, Shull, Keeney	CASA, CASA, UMelb, CASA, CASA	Mapping a "Gaseous-Halo Selected" Galaxy sample at 21 cm	C1149	51
Buxton, Bailyn, Tzioumis, Weldrake	Yale, Yale, ATNF, RSAA	NAPA Jet energetics in low-mass x-ray binaries	C1150	NAPA
Iverson, Greve, Papadopoulos, Couch, Smail	UEdin, UEdin, UCL, UNSW, UDur	Dense molecular gas at high redshift	C1151	21
Drinkwater, Doyle, Ryder, Koribalski, Ryan-Weber, Webster, Zwaan, Meyer, Harnett, Kilborn	UQld, UQld, AAO, ATNF, UMelb, UMelb, UMelb, UMelb, UTS, JB	Star formation efficiency and environment	C1154	96
Vaughan, Parker, Acker, Cohen	UMac, UMac, Strasbo, UCB	A large sample of newly discovered planetary nebulae	C1155	25
de Buizer, Minier	Gemini (Chile), UNSW	Observations of outflows from YSOs with methanol masers	C1156	17
Minier, Burton, Caswell, Wong, Jones, Purcell, Hill, Hunt, Bontemps, Herpin, Motte, Ellingsen	UNSW, UNSW, ATNF, ATNF, ATNF, UNSW, UNSW, UNSW, OBoordeaux, OBoordeaux, CEA, UTas	A multi-frequency survey of NGC 3576	C1158	26
Kaaret, Corbel, Tzioumis	Cfa, CEA, ATNF	Radio emission from an ultraluminous x-ray source	C1159	37.5
McCallum, Ellingsen, Lovell, Greenhill, Kondratko	UTas, UTas, ATNF, Cfa, Cfa	Locating the water megamaser in NGC 6300	C1161	12
Sobolev, Voronkov, Ellingsen, Ostrovskii	USU, ASC, UTas, USU	6.7 GHz and 25 GHz methanol masers at OMC-1	C1162	10
de Blok, McGaugh, Bosma	UCardiff, UMar, OMs	The origin of dark matter cores in LSB/Dwarf Galaxies	C1164	96
Stevens, Webster, Barnes, Pisano	UMelb, UMelb, UMelb, ATNF	Is NGC 4936 a compact group merger remnant?	C1165	23
White, Duncan, Koribalski, Chapman	UMar, ATNF, ATNF, ATNF	Motions in the Eta Carinae binary system	C1167	46.5
Bernardi, Carretti, Cortiglioni, Sault, Subrahmanyan, Poppi, McConnell, Kesteven	IASF-CNR, IASF-CNR, IASF-CNR, ATNF, ATNF, IAR-CNR, ATNF, ATNF	Observations of galactic polarisation in the DASI field at 20 cm	C1168	69.5

Blanton, Clarke, Sarazin	UVir, UVir, UVir	The radio source/ISM interaction in the S0 Galaxy NGC 1553	C1169	12
Emonts, Morganti, Oosterloo, van der Hulst, Tadhunter, Sadler	KI, NFRA, NRFA, KI, USheff, USyd	Neutral hydrogen and the origin of radio galaxies	C1170	53.5
Hardcastle, Kraft, Worrall	UBr, CfA, UBr	Centaurus A at 1.2mm: spectral index and polarization	C1171	24
Brown, Harper, Brown, Ayres	CASA, CASA, Caltech, CASA	Radio emission from Southern A and F supergiants	C1172	36
Maddison, Burton	Swinb, UNSW	A search for protostellar disks at millimetre wavelengths	C1173	24
Bourke	CfA	Ammonia emission from the protostellar outflow BHR 71	C1175	14
Barnes, Yonekura, McClure-Griffiths, Mizuno	USyd, UOsaka, ATNF, UNag	A pilot project for a galactic plane ammonia survey	C1177	47.5
Kewley, Wells, Thornley, Kennicut SINGS collaboration	CfA, IASp, UBuck, UAz	Star formation in SINGS Galaxies	C1179	59.5
Kewley, Wells, Thornley, Kennicut, SINGS collaboration	CfA, IASp, UBuck, UAz	HI and star formation in SINGS Galaxy: IC 4710	C1181	24.5
Numberger, Koribalski, Reimer	ESO (Chile), ATNF, URuh	High angular resolution 3 mm observations of NGC 3603	C1182	24
Sadler, Hunstead, Jackson, Couch, Bekki	USyd, USyd, ANU, UNSW, UNSW	Timescales for triggering radio galaxies	C1183	75.5
Johnston-Hollitt, Ekers, Hunstead	LO, ATNF, USyd	Search for Central Halo and 6cm observations of A3667	C1184	34
Wong, Sault, Staveley-Smith, O'Brien, Purcell, Muller	ATNF, ATNF, ATNF, ATNF, UNSW, ATNF	ATNF Synthesis Imaging Workshop observing sessions	C1185	44
Wong, Whiteoak, Hunt, Ott, Chin	ATNF, ATNF, USW, ATNF, UTamk	Molecular lines in N113: probing photon-dominated regions?	C1186	24
Ott, Wong, Mizuno, Weiss, Johansson	ATNF, ATNF, UNag, IRAM, OSO	Ionization fractions of dense molecular cores in the Magellanic Clouds	C1187	72.5
Caswell	ATNF	Precise positions of 22-GHz water masers in SFRs (star formation regions)	C1190	26
Koribalski, Manthey, Duc	ATNF, URuhr, CEA	Gas dynamics of the massive Galaxy ESO 390-G004	C1191	20.5
Johnston, McClure-Griffiths, Koribalski	USyd, ATNF, ATNF	12 mm observations of SNR G328.4+0.2 and Kepler's SNR	C1192	25.5
Koribalski, Reimer, Johnston	ATNF, URuhr, USyd	ATCA 12 mm imaging of the giant HII region NGC 3603	C1193	24
Deacon, Chapman, Green	USyd, ATNF, USyd	Polarisation study of planetary nebulae precursors	C1195	32.5
Staveley-Smith, Bruens, Gibson, Thom, Putman, McClure-Griffiths	ATNF, RAIUB, Swinb, Swinb, CASA, ATNF	The structure of the Magellanic Stream - pilot survey	C1197	163.5
Roberts, Baes, Davies, de Rijcke, Zeilinger, Prugniel, Michielsen, Dejonghe	UCardiff, SOGB, UCardiff, SOGB, UWien, CRALOL, SOGB, SOGB	The HI content of Fornax Cluster Dwarf Ellipticals	C1198	32.5
Corbel, Fender, Tzioumis, Kaaret, Orosz, Tomsick	CEA, UAm, ATNF, CfA, UCSD, UCSD	Searching for large scale radio jets in microquasars	C1199	12

Dickel, McIntyre, Milne, Seward, Williams, Gruendl, Chu, Park	UIL, ATNF, ATNF, CfA, UIL, UIL, UIL, UPenn	Imaging of the SNRs 0104-723 and 0103-726 in the SMC	C1200	13
Waugh, Webster, Drinkwater	UMelb, UMelb, UMelb	Evolution of Galactic HI in and around the Fornax Cluster	C1202	55.5
Williams, Gorham, Hankins, Saltzberg, Naudet, Liewer, Ekers, Subrahmanyan	UCLA, UHawaii, UHawaii, UCLA, JPL, JPL, ATNF, ATNF	CELENE Cherenkov lunar emission by neutrinos experiment	C1203	37.5
Ryan-Weber, Webster, Freeman, Putman, Meurer	UMelb, UMelb, RSAA, UC, JHU	The HI environment of intergalactic HII regions	C1204	35.5
Dickel, Jones, Lazendic, Gotthelf	UIL, ATNF, CfA, UCImba	Imaging of the pulsar wind nebula in the SNR N 157B	C1205	37.5
Tingay, Edwards	Swinb, ISAS	The spectral variability characteristics of three GHz peaked radio sources	C1206	14
Zijlstra, Ruffle, Bedding, Gesicki	UMIST, UMIST, USyd, CO	The extinction law towards the Galactic Bulge	C1208	34.5
Bower, Tzioumis	UCB, ATNF	Intra-day variability of Sagittarius A* at 1.3 cm	C1210	24
Harju, Hotzel, Walmsley	UHel, UHel, OAAI	Before stellar birth - ammonia sounding of pre-stellar condensations	C1212	47.5
Klamer, Sadler, Ekers, Hunstead, De Breuck	USyd, USyd, ATNF, USyd, IAP	A search for cool molecular gas in the early universe	C1214	89
Subrahmanyan, Saripalli, Ekers	ATNF, ATNF, ATNF	Giant radio galaxies and the intergalactic medium	C1217	50
Chung, van Gorkom, Bureau	UCImba, UCImba, UCImba	A kinematic study of spirals with counter-rotating gas	C1218	25
Dahlem, Ekers, Whiteoak	ATNF, ATNF, ATNF	Hidden star formation in NGC 253 and NGC 4945	C1219	18
Kanekar, Chengalur, Subrahmanyan	KI, NCRA, ATNF	Constraining the variation of fundamental constants using OH lines	C1220	48
Purcell, Caswell, Hill, Longmore	UNSW, ATNF, UNSW, UNSW	Water masers and massive star formation	C1221	13.5
Johnston-Hollitt, Fleenor, Rose, Christiansen, Hunstead	LO, UCSU, UCSU, UCSU, USyd	Dynamical interactions of tailed galaxies in an in-falling group	C1222	24
Jogee, Ott, Norris, Wiklund, Jackson, Huynh, Koekemoer, Mobasher	STScI, ATNF, ATNF, STScI, RSAA, RSAA, STScI, STScI	Molecular gas in the reionization era	C1223	95.5
Ott, Henkel, Weiss, Walter	ATNF, MPIfR, IRAM, NRAO	Temperature variations of dense molecular gas in central starburst cores	C1224	24
Wong, Ott, Koribalski, Sault	ATNF, ATNF, ATNF, ATNF	Flux calibration of millimetre wavelengths	C1225	25.5
Barnard, Wong, Blain, Pierce-Price, Richer	JAC, ATNF, Caltech, JAC, Cavendish	HCO+ (1-0) and 3mm continuum observations of an isolated prestellar fragment	C1226	20
Olofsson, Wong, Schoier, Lindqvist, Kerschbaum	StO, ATNF, StO, OSO, UWien	Thermal SiO emission as a probe of circumstellar grain formation and dynamics	C1227	39
Caswell	ATNF	OH Masers and absorption towards		

		NGC 3576	C1228	14
Blank, Harnett	UWS, UTS	Search for radio emission from epsilon Indi B	C1229	13
McClure-Griffiths, Pisano, Chapman + approx 9 students	ATNF, ATNF, ATNF, ATNF/CTIP	Vacation student observing session	CSVP007	36
Wong	ATNF	Orion flare	CX041	6
Tingay	ATNF	New GPS source	CX042	1.5
Dahlem	ATNF	HI observations of early type Galaxies	CX043	3.6
Gaensler	CfA	IGR J16358-4726	CX044	10.5
Tingay	ATNF	GPS spectral indices	CX046	1.5
Klamer	USyd	CO in high redshift quasars	CX047	10.5
Manchester	ATNF	Position of PSR J0738-3033	CX048	6
Dahlem, Harnett	ATNF, UTS	12 mm observations of nearby starburst galaxies	CX049	7.5
Tingay	Swinb	Baseband data taking tests	CX050	1.5
Progrebenko, Sault	JIVE, ATNF	Sources in the Huygens-Tintan encounter field	CX051	8
Boyle	ATNF	Radio quiet blazar	CX052	12
Chapman	ATNF	IRAS 17317	CX053	9

Observations made with the Parkes radio telescope January to December 2003

Observers	Affiliations	Program Title	Number	Days
Erickson, McConnell, Briggs	UTas, ATNF, ATNF/RSAA	Low-frequency carbon recombination lines	P104	3.13
Kaspi, Manchester	UMcGill, ATNF	Long-term monitoring of PSR J0045-7319	P138	5.78
Bailes, van Straten, Ord, Knight, Hotan, Manchester, Anderson, Kulkarni, Jacoby, Sarkissian	Swinb, NFRA, Swinb, Swinb, Swinb, ATNF, Caltech, Caltech, Caltech, ATNF	High precision pulsar timing	P140	27.48
Manchester, Hobbs, Lewis, Sarkissian, Kaspi, Bailes	ATNF, ATNF, UTas/ATNF, ATNF, UMcGill, Swinb	Timing of young pulsars	P262	4.61
Knight, Ord, van Straten, Kulkarni, Bailes	Swinb, Swinb, Swinb, Caltech, Swinb	Baseband searching for ultrafast pulsars	P263	3.51
Lyne, Kramer, Manchester, Camilo, Stairs, Hobbs, D'Amico, Possenti, Kaspi, Faulkner	JB, JB, ATNF, UClmba, UBC, ATNF, CAO, CAO, UMcGill, JB	Pulsar multibeam survey	P268	12.87
Manchester, Hobbs, Camilo, Lyne, Kramer, Faulkner, Stairs, Kaspi, D'Amico, Possenti	ATNF, ATNF, UClmba, JB, JB, JB, UBC, UMcGill, CAO, CAO	Timing of multibeam pulsar discoveries	P276	17.42

Johnston, Koribalski, Wilson	USyd, ATNF, ATNF	Small scale structure in the interstellar medium	P280	1.35
Freire, Lyne, Kramer, Manchester, Lorimer, Camilo, D'Amico	AO/CORNELL, JB, JB, ATNF, JB, UCImba, CAO	Timing and searching for pulsars in 47 Tucanae	P282	4.99
Manchester, Kaspi, Crawford, Lyne	ATNF, UMcGill, Haverford, JB	Timing and confirmation of Magellanic Cloud pulsars	P294	5
McKay, Mundell, Forbes, Barnes	LivJMU, LivJMU, Swinb, UMelb	Formation and evolution of galaxies in groups - the role of HI	P352	1.15
Staveley-Smith, Koribalski, Henning, Kraan-Kortweg, Harnett, Sadler, Schroeder, Stewart, Price, Green, Donley	ATNF, ATNF, UNM, UGuan, UTS, USyd, OAzur, ULeic, UNM, USyd, ATNF	A bulge extension to the ZOA survey	P357	7.01
Ord, Bailes, van Straten, Hotan, Knight	Swinb, Swinb, NFRA, Swinb, Swinb	Studies of a relativistic binary pulsar	P361	3.88
Johnston, Romani	USyd, UStan	A search for giant pulses in PSR J0537-6910	P365	0.56
Burgay, McLaughlin, Kramer, Lyne, Joshi, Pearce, D'Amico, Possenti, Manchester, Camilo	OABol, JB, JB, JB, UPune, JB, CAO, CAO, ATNF, UCImba	Parkes multibeam high-latitude pulsar survey	P366	8.59
Briggs	RSAA/ATNF	Calibration for the HIPARK survey	P367	0.47
Gurovich, de Blok, Freeman, Staveley-Smith, Jerjen	RSAA, UCardiff, RSAA, ATNF, RSAA	Investigating the Baryonic Tully-Fisher law with a HIPASS sample	P370	1.81
de Blok, Freeman, Disney, Garcia, Minchin, Kilborn, Zwaan, and HIPASS team	UCardiff, RSAA, UCardiff, UCardiff, UCardiff, JB, UMelb	Completeness and reliability of HIPASS northern extension	P387	15.29
Stevens, Webster, Barnes, Pisano	UMelb, UMelb, UMelb, ATNF	The HI content of compact groups of galaxies	P388	0.5
Manchester, Hotan, van Straten	ATNF, Swinb, NFRA	Polarisation of the Vela and Mouse pulsars	P393	2.01
Camilo, Manchester, Sarkissian	UCImba, ATNF, ATNF	Timing two young and energetic pulsars	P395	4.77
Camilo, Arzoumanian, Manchester, Gaensler, Lorimer	UCImba, GSFC, ATNF, CfA, JB	Deep searches for young and "radio-quiet" pulsars	P396	4.28
Pisano, Gibson, Barnes, Stevens, Staveley-Smith, Freeman	ATNF, Swinb, UMelb, UMelb, ATNF, RSAA	An HI study of loose groups	P399	7.25
Kramer, Lyne, Stairs, Kaspi, Manchester, Camilo	JB, JB, NRAO, UMcGill, ATNF, UCImba	Geodetic precession in PSR J1141-6545	P400	0.66
Roberts, Ransom, Kaspi, Hessels, Tam, Livingstone, Crawford	UMcGill, UMcGill, UMcGill, UMcGill, UMcGill, Haverford	A search for pulsars in mid-latitude EGRET error boxes	P406	5
Deacon, Green, Chapman	USyd, USyd, ATNF	The origin of planetary nebulae morphology	P414	2.29
Johnston, Nicastro, Ord, Johnston	USyd, CNR-IFCAI, Swinb, USyd	Interstellar scintillation studies of radio pulsars	P420	1.58
Caswell	ATNF	Search for 13 GHz OH masers in star formation regions	P421	5.26

Barnes, Calabretta, Staveley-Smith, Briggs	UMelb, ATNF, ATNF, RSAA	Characterising the on-source continuum response of HIPASS	P424	6.15
Mitra, Johnston, Karastergiou, Kramer	MPIfR, USyd, USyd, JB	Intrinsic rotation measure variations in pulsars	P425	1.54
D'Amico, Lyne, Manchester, Sarkissian, Possenti, Corongiu, Camilo	CAO, JB, ATNF, ATNF, CAO, CAO, UCImba	Timing and searching millisecond pulsars in globular clusters	P427	6.27
van Leeuwen, Johnston, Stappers, Karastergiou	UAI, USyd, UAm, USyd	Subbeam-carousel rotation times in radio pulsars	P428	2.04
McClure-Griffiths, Lockman	ATNF, NRAO	Galactic halo HI clouds	P430	1.71
Ryan-Weber, Webster, Impey, Marble, Petry	UMelb, UMelb, UAZ, UAZ, UAZ	Gas-rich galaxies and the low redshift Lyman-alpha forest	P431	3.29
Garduno, Brinks, Dahlem	INAOE, INAOE, ATNF	HI content of early-type galaxies as a function of environment	P432	2.02
van Loon, Wood, Marshall, Zijlstra, Matsuura, Whitelock	UKeele, RSAA, UKeele, UMIST, UMIST, SAAO	The wind velocity in Magellanic OH/IR stars	P433	3.39
Burgay, Paladini, Possenti, D'Amico, Manchester	UBol, CAO, CAO, CAO, ATNF	A deep search for isolated millisecond pulsars in NGC 6266	P434	0.86
Matthews, Bourke	UCB, CfA	Towards an understanding of magnetic fields in the Pipe nebula	P435	2.1
McClure-Griffiths, Subrahmanyam, Kanekar	ATNF, ATNF, KI	Determining the temperature of the warm neutral medium	P437	1.07
Crawford, McLaughlin, Cordes	Haverford, JB, Cornell	A search for giant radio pulses from PSR J0537-6910	P438	
Hobbs, Kramer, Johnston, Lyne	ATNF, JB, USyd, JB	Properties of neutron star kicks	P439	0.94
Briggs, Kanekar, Staveley-Smith, Ord	RSAA/ATNF, KI, ATNF, Swinb	Hydrogen 21 cm line absorption at $z = 1$ against high redshift radio sources	P440	3.34
Hobbs, Dickel, Manchester	ATNF, UIL, ATNF	Searching for pulsars in SNRs N206 and B0453-685	P441	1.08
Knight, Bailes, Ord, Jacoby, Kulkarni	Swinb/ATNF, Swinb, Swinb, Caltech, Caltech	Searching for Globular Cluster MSPs at 50cm	P442	1.34
Knight, Bailes, Kulkarni, Ord	Swinb/ATNF, Swinb, Caltech, Swinb	Giant pulses from a millisecond pulsar	P443	0.33
Wilcots	UWis	Multibeam observations of IC 1613	P446	0.13
Jacoby, Kulkarni, Bailes, Ord, Hotan	Caltech, Caltech, Swinb, Swinb, Swinb	Timing the Swinburne intermediate latitude pulsars	P447	5.07
Di Salvo, Burderi, Burgay, Possenti, D'Amico, Manchester	MPO, UAm, UBol, CAO, CAO, ATNF	Search for radio pulsations from four x-ray msec pulsars	P448	1.31
Karastergiou, Johnston, Ord	USyd, USyd, Swinb	Single-pulse observations of southern pulsars at 50 cm	P449	0.83
Johnston, Romani, Marshall, Zhang	USyd, UStan, GSFC, GSFC	X-ray and radio observations of giant pulses in PSR B0540-69	P450	0.82
Johnston, Romani, Marshall, Zhang	USyd, UStan, GSFC, GSFC	Dual frequency observations of giant pulses in PSR B0540-69	P451	0.63
Wang, Johnston, Manchester	ATNF/USyd, USyd, ATNF	Monitoring the interstellar medium with pulsars	P453	1.68

Burgay, D'Amico, Possenti, Lyne, McLaughlin, Kramer, Manchester, Sarkissian	UBol, CAO, CAO, JB, JB, JB, ATNF, ATNF	Timing of two exotic millisecond pulsars	P455	1.31
McClure-Griffiths, Pisano, Chapman + approx 9 students	ATNF, ATNF, ATNF, ATNF/CTIP	Vacation student observing session	PSVP007	1.5

Observations made with the Mopra radio telescope January to December 2003

Observers	Affiliations	Program Title	Number	Hours
Ladd, Fuller	UBuck, UMist	The evolution of dense cores forming the youngest protostars in Ophiuchus	M118	144
Hoare, Lumsden, Busfield, Oudmaijer, Burton	ULeeds, ULeeds, ULeeds, ULeeds, UNSW	Massive star formation in the Galaxy: Red MSX sources	M121	232
Hirabayashi, Edwards, Lovell, Tzioumis, Tingay, Fomalont, Moellenbrock, Horiuchi, Scott	ISAS, ISAS, ATNF, ATNF, ATF, NRAO, NRAO, JPL, UCal	Continued use of Mopra for VSOP survey observations	M122	24
Kim, Burton	UIL, UNSW	Search for southern massive molecular outflows	M123	288
Matthews, Bourke	UCB, Harvard	Kinematics of the pipe nebulae	M124	168
Yonekura, Mizuno, Fukui, Barnes	UOsaka, UNag, UNag, USyd	Search for candidates of massive protostars in Carina	M125	192
Thompson, Urquhart, White	UKC, UKC, UKC	Star formation in bright-rimmed clouds - is it induced?	M126	240
Wong, Kesteven, Ladd Ryder, Knapen, Buta, Grouchy	ATNF, ATNF, UBuck, AAO, UHerts, UHerts, UAI, UAI	On-the-fly mapping with the Mopra telescope	M127	96
Reynoso, Burton, Green, Johnston	USyd, UNSW, USyd, USyd	Molecular gas associated with the SNR RCW 103	M129	48

VLBI observations - January to December 2003

Observers	Affiliations	Program Title	Number	Hours
Greenhill, Kondratko, Moran, Ellingsen, McCulloch, Lovell, Jauncey, Reynolds, Tzioumis	CfA, CfA, CfA, UTas, UTas, ATNF, ATNF, ATNF, ATNF	What type of accretion disk lies in NGC 4945 - thick or thin?	V120	12
Ojha, Reynolds, Fey, Johnston, Tzioumis, Jauncey, Ellingsen, Cimo, Nicolson, Quick	ATNF, ATNF, USNO, USNO, ATNF, ATNF, UTas, UTas, HartRAO, HartRAO	Astrometry/imaging of southern hemisphere ICRF sources	V131	120
Beasley, Claussen, Ellingsen, Reynolds, Tzioumis	OVRO, NRAO, UTas, ATNF, ATNF	Measuring the mass of the Galaxy - IV	V135	24

Greenhill, Kondratko, Moran, Ellingsen, McCulloch, Lovell, Jauncey, Reynolds, Tzioumis, McGregor	CfA, CfA, CfA, UTas, UTas, ATNF, ATNF, ATNF, ATNF, RSAA	Does the ESO 013-G012 H2O Megamaser originate in an Accretion Disk?	V138	9.3
Huynh, Norris, Jackson, Ojha	RSAA, ATNF, RSAA, ATNF	Phase related observations of galaxies in the Hubble Deep Field South	V153	13.5
Dodson, Johnston, Reynolds, Karastergiou	ISAS, ATNF, USyd, USyd	Distance and proper motion of PSR B1259-63	V156	34
Kondratko, Greenhill, Moran, Lovell, Jauncey, Kuiper, Ellingsen, McCulloch, Tzioumis, Reynolds	CfA, CfA, CfA, ATNF, ATNF, JPL, UTas, UTas, ATNF, ATNF	Mapping water megamasers newly discovered at DSS43	V159	12
Dodson, Johnston, Ord, Reynolds, Lewis	ISAS, USyd, Swinb, ATNF, UTas	Pulsars: where are they from, where are they going?	V162	25
Tingay	ATNF	Wide field, high resolution imaging of jet interaction	V165	12
Dodson, van Straten, Reynolds, Quick, Bailes	ISAS, Swinb, ATNF, HartRAO, Swinb	The LBA millisecond pulsar timing array	V166	46.8
Fomalont, Geldzhaler, Bradshaw, Fender, van der Lis, Stella	NASA, GMU, UAm, UAm, UAm, OARome	VLBI/INTEGRAL 48-hour observations of Sco X-1	V167	12
Tingay, Forbes	Swinb, Swinb	LBA imaging of extragalactic supernova remnants and jet interaction regions	V168	24
Hunstead, Cotter, Tzioumis, Safouris, Bicknell	USyd, UCam, ATNF, RSAA, RSAA	The extraordinary radio galaxy: MRC B1221-423	V169	24.5
Edwards, Tingay	ISAS, Swinb	The parsec-scale morphology of new GPS sources	V170	18

Tidbinbilla Observations- January to December 2003

Observers	Affiliations	Program Title	Number	Hours
Valdettaro, Chapman, Massi, Palla	OAAI, ATNF, MPIfR, OAAI	Star formation in bright rimmed clouds: any water masers?	T001	13.7
Phillips, Lovell, Beuther	ATNF, ATNF, MPIfR	Methanol masers: tracer of high mass protostars and discs?	T002	33.1
Ellingsen, Cragg, Lovell, Godfrey	UTas, Monash, ATNF, Monash	Class II methanol masers at 19.9 GHz	T003	14.2
Ellingsen, Lovell, McCallum, Greenhill, Jauncey	UTas, ATNF, UTas, CfA, ATNF	The Circinus Galaxy - simply scintillating?	T004	51.4
Deacon, Chapman, Green	USyd, ATNF, USyd	The origin of planetary nebulae morphology	T005	8.8
Sridharan, Bourke, Zhang, Balasubrahmanyam, Beuther	CfA, CfA, CfA, RRI, MPIfR	A systematic study of isolated high-mass protostars	T007	7.2
Kondratko, Greenhill, Moran, Lovell, Jauncey, Kuiper	CfA, CfA, CfA, ANTF, ATNF, JPL	Monitoring of water megamasers newly discovered at DSS43	T010	13.0
Curran, Whiting, Wiklind Webb, Murphy	UNSW, UNSW, STScI UNSW, IoA	High redshift molecular absorption in optically faint quasars	T011	8.5

E: Affiliations

AAO	Anglo-Australian Observatory, Australia	INAOE	Instituto Nacional de Astrofísica, Óptica y Electrónica, Mexico
AAS	American Astronomical Society, USA	IoA	Institute of Astronomy, UK
ADFA	Australian Defence Force Academy, Australia	IRA-CNR	Institute of Radio Astronomy, CNR, Bologna, Italy
ANU	Australia National University, Australia	ISAS	Institute of Space and Astronautical Science, Japan
ASC	Astrospace Centre, Russia	JAC	Joint Astronomy Centre, Hilo, USA
ASCR	Academy of Sciences of Czech Republic, Czech Republic	JBO	Jodrell Bank Observatory, UK
ASIAA	Academia Sinica, IAA, Taiwan	JHU	Johns Hopkins University, USA
ATNF	Australia Telescope National Facility, Australia	JIVE	Joint Insititute for VLBI in Europe, The Netherlands
BIMA	Berkeley-Illinois-Maryland Association, USA	JPL	Jet Propulsion Laboratory, USA
Caltech	California Institute of Technology, USA	LivJMU	Liverpool John Moores University, UK
CAO	Cagliari Astronomical Observatory, Italy	LO	Leiden Observatory, The Netherlands
CASA	CASA, University of Colorado, USA	MERLIN	Multi-element Radio Linked Interferometry Network, UK
Cavendish	Cavendish Laboratory, UK	MIT	Massachusetts Institute of Technology, USA
CEA	Centre d'Études d'Astrophysique, Saclay, France	Monash	Monash University, Australia
CfA	Center for Astrophysics, Harvard University, USA	MPIfA	Max Planck Inst. für Astrophysik, Germany
CITNZ	Central Institute of Technology, New Zealand	MPIfR	Max Planck Inst. für Radioastronomie, Germany
CO	Carter Observatory, New Zealand	MPO	Monte Porzio Astronomical Observatory
Cornell	Cornell University, USA	MRAO	Mullard Radio Astronomical Observatory, UK
CNR	Consiglio Nazionale delle Ricerche, Italy	NASA	National Aeronautics and Space Administration, USA
CRALOL	CRAL Observatoire de Lyon, France	NCRA	National Centre for Radio Astrophysics, India
CSR	Center for Space Research, USA	NCSA	National Centre for Supercomputing, USA
CTIP	CSIRO Telecommunications & Industrial Physics, Australia	NFRA	Netherlands Foundation for Research in Astronomy, The Netherlands
ESA	European Space Agency, Spain	NRAO	National Radio Astronomy Observatory, USA
ESO	European Southern Observatory, Germany	NRL	Naval Research Laboratories, USA
ESO (Chile)	European Southern Observatory, Chile	OAAI	Osservatorio Astrofisico di Arcetri, Italy
Gemini (Chile)	Gemini Observatory, Chile	OABol	Osservatorio Astronomico di Bologna, Italy
GMU	George Mason University, USA	OAP	Osservatorio Astronomico di Padova, Italy
GSFC	Goddard Space Flight Center, USA	OARome	Osservatorio Astronomico di Roma, Italy
HartRAO	Hartebeesthoek Radio Astronomical Observatory, South Africa	OAT	Osservatorio Astronomico di Trieste, Italy
Harvard	Harvard University, USA	OAzur	Observatoire de la Côte d'Azur, France
HatCreek	Hat Creek Radio Observatory, USA	OBois	Observatoire de Bordeaux, France
Haverford	Haverford College, UK	OMs	Observatoire de Marseilles, France
IAI	Institute of Astrophysics, Innsbruck, Austria	OSO	Onsala Space Observatory, Sweden
IAP	Institute d'Astrophysique Paris, France	OSU	Ohio State University, USA
IAR	Instituto Argentino de Radioastronomia, Argentina	OVRO	Owens Valley Radio Observatory, USA
IASp	Institut d'Astrophysique Spatiale, France	Queens	Queens University, Canada
IFCAI	Istituto di Fisica Cosmica con Applicazioni all'Informatica, CNR, Italy	RAIUB	Radio Astronomy Institute, University of Bonn, Germany

RochI	Rochester Institute of Technology, USA	ULav	Universite Laval, Canada
RRI	Raman Research Institute, India	ULeeds	University of Leeds, UK
RSAA	Research School of Astronomy & Astrophysics, Australia	ULeic	University of Leicester, UK
SAAO	South African Astronomical Observatory, South Africa	UMac	Macquarie University, Australia
SISSA	Scuola Internazionale Superiore di Studi Avanzati, Trieste, Italy	UManit	University of Manitoba, Canada
SOGB	Sterrenkundig Observatorium, Belgium	UMar	University of Maryland, USA
StO	Stockholm Observatory, Sweden	UMcGill	McGill University, Canada
Strasbo	Strasbourg Observatory, Austria	UMelb	University of Melbourne, Australia
STScI	Space Telescope Science Institute, USA	UMinn	University of Minnesota, USA
Swinb	Swinburne University of Technology, Australia	UMIST	University of Manchester, Institute of Science and Technology, UK
UAd	University of Adelaide, Australia	UMont	University of Montreal, Canada
UAl	University of Alabama, USA	UNag	Nagoya University, Japan
UAm	University of Amsterdam, The Netherlands	UNAM	Universidad Nacional Autonoma de Mexico, Mexico
UAz	University of Arizona, USA	UNM	University of New Mexico, USA
UBC	University of British Columbia, USA	UNSW	University of New South Wales, Australia
UBol	University of Bologna, Italy	UOsaka	Osaka Prefecture University, Japan
UBr	University of Bristol, UK	UPenn	Pennsylvania State University, USA
UBuck	Bucknell University, USA	UPuert	University of Puerto Rico, USA
UC	University of Colorado, USA	UPune	Pune University, India
UCal	University of Calgary, Canada	UQld	University of Queensland, Australia
UCam	Cambridge University, UK	URice	Rice University, USA
UCB	University of California, Berkeley, USA	URuh	Ruhr-Universitaet, Germany
UCardiff	Univesiy of Cardiff, UK	URutg	Rutgers University, USA
UChi	University of Chile, Chile	USheff	University of Sheffield, UK
UCL	University College London, UK	USNO	US Naval Observatory, USA
UCLA	University of California, USA	UStan	Stanford University, USA
UCImba	Columbia University, USA	USU	Ural State University, Russia
UCSD	University of California, San Diego, USA	USyd	University of Sydney, Australia
UCSU	North Carolina State University, USA	UTamk	Tamkang University, Taiwan
UDur	University of Durham, England	UTas	University of Tasmania, Australia
UEdin	University of Edinburgh, UK	UTS	University of Technology, Sydney, Australia
UFurm	Furman University, USA	UUAI	Utrecht University (Astronomical Institute), The Netherlands
UGuan	University de Guanajuato, Mexico	UVir	University of Virginia, USA
UHel	University of Helsinki, Finland	UWien	Universitat Wien, Austria
UHerts	University of Hertfordshire, UK	UWis	University of Wisconsin, USA
UIL	University of Illinois, USA	UWS	University of Western Sydney, Australia
UKC	University of Kent, UK	Yale	Yale University, USA
UKeele	University of Keele, UK	YU	Yunnan Observatory, China
UKent	University of Kentucky, USA		

F: ATNF media releases, 2003

Australian-raised researcher is new head of international mega-telescope project	01 January
Astronomers make first unbiased census of local galaxies	09 January
WA outback may open new window on the Universe	29 January
Gas clouds make new "telescope"	09 April
Cosmic dandruff mystery solved	06 May
New head for Aussie dishes	08 May
Australian lands top job in astronomy	24 July
World astronomers planning major new telescope	25 July
US Ambassador launches Parkes space tracking	31 October
Pulsar find boosts hope for gravity-wave hunters	05 December
A new arm for our Galaxy?	17 December

ATNF media releases can be found on the web at <http://www.atnf.csiro.au/news>

G: 2003 publications

Papers using ATNF data, published in refereed journals

Papers which include ATNF authors are indicated by an asterisk.

*BERGER, E., KULKARNI, S.R., POOLEY, G., FRAIL, D.A., McINTYRE, V., WARK, R.M., SARI, R., SODERBERG, A.M., FOX, D.W., YOST, S. & PRICE, P.A. "A common origin for cosmic explosions inferred from calorimetry of GRB030329". *Nature*, 426, 154 (2003).

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Bignall, H., "Radio variability and interstellar scintillation of blazars", PhD thesis, University of Adelaide.

Bruens, C., "The gaseous arms of the Magellanic system and other high-velocity clouds", PhD thesis, University of Bonn, Germany.

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Lazentic, J., "Molecular diagnostics of supernova remnant shocks", PhD thesis, University of Sydney.

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H: Postgraduate students co-supervised by the ATNF

As of December 2003

Name, project title and affiliation

Babic, B., "Mass distributions in rich clusters of galaxies", University of Queensland.

Bernardi, G., "Diffuse Galactic synchrotron polarized radiation as foreground for CMBP experiments", University of Bologna, Italy.

Chippendale, A., "High dynamic range imaging with many baseline synthesis interferometry", University of Sydney.

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I: Abbreviations

ACA	Australian Communications Authority
AIPS	Astronomical Image Processing System
ALMA	Atacama Large Millimeter Array
APT	Asia-Pacific Telescope
ARC	Australian Research Council
ASKACC	Australian SKA Consortium Committee
ATNF	Australia Telescope National Facility
ATUC	Australia Telescope Users Committee
Aus-VO	Australian Virtual Observatory
COSPAR	Committee on Space Research
CSG	Computer Services Group
CSIRO	Commonwealth Scientific and Industrial Research Organisation
CTIP	CSIRO Telecommunications and Industrial Physics – a Division of CSIRO partly co-located with the ATNF
DFB	Digital Filter Bank
DSN	Deep Space Network
EEO	Equal Employment Opportunity
ELT	Extremely Large Telescope
FITS	Flexible Image Transport System
FPGA	Field Programmable Gate Array
GA	General Assembly
GaAs	Gallium Arsenide
GRB	Gamma-ray Burst
HEMT	High Electron Mobility Transistor
HI	Neutral Hydrogen
HIPASS	HI Parkes All Sky Survey
IAU	International Astronomical Union
IF	Intermediate Frequency
InP	Indium Phosphide
ISSC	International SKA Steering Committee
IT	Information Technology
ITU	International Telecommunications Union
IUCAF	Inter-Union Commission for the Allocation of Frequencies

IVOA	International Virtual Observatory Alliance
LBA	Long Baseline Array, used for Australian VLBI observations
LNA	Low Noise Amplifier
LO	Local Oscillator
LOFAR	Low Frequency Array
MERLIN	Multi-Element Radio Linked Interferometer Network
MMIC	Monolithic Microwave Integrated Circuit
MNRF	Major National Research Facilities
NASA	National Aeronautics and Space Administration. The US space agency
NSW	New South Wales
NT	Northern Territory
OECD	Organisation for Economic Cooperation and Development
OHS&E	Occupational Health Safety and Environment
RAFCAP	Radio Astronomy Frequency Committee in the Asia-Pacific Region
RFI	Radio Frequency Interference
RVS	Remote Visualisation Server
SA	South Australia
SCEC	Sydney Convention and Exhibition Centre
SEARFE	Students Exploring Australia's Radio Frequency Environment
SIS	Semiconductor-Insulator-Semiconductor
SKA	Square Kilometre Array
SOC	Scientific Organising Committee
TAC	Time Assignment Committee
URSI	International Union of Radio Science
USNO	United States Naval Observatory
VLBI	Very Long Baseline Interferometry
VSOP	VLBI Space Observatory Program
WA	Western Australia
WRC	World Radiocommunication Conference