Appendices

A: Financial information

Expenditure budget 1999–2000	$1,000s
Operation of the Paul Wild (Narrabri) Observatory[1]	2,845
Operation of the Parkes Observatory[2]	2,030
Research Support Marsfield (ATNF contribution)[3]	1,920
Engineering and development	2,430
Office of Director	680
Astrophysics program	1,171
Computing	1,033
National Facility support	830
Major repairs and maintenance	220
Research grants	90
Executive Special Projects	300
MNRF project	2,720
Square Kilometre Array	300
Corporate repairs and maintenance	160
CSIRO capital investment plan	400
TOTAL	**16,642**

Revenue budget 1999-2000	
Direct appropriation	12,228
Research and services revenue	267
MNRF project	2,030
Other external revenue[4]	700
Corporate repairs and maintenance	160
CSIRO capital investment plan	400
TOTAL[5]	**15,785**

Notes:

1. Includes the operation of the observatory's Visitors Centre and the Mopra Observatory.
2. Includes the operation of the observatory's Visitors Centre.
3. The ATNF shares its Sydney headquarters with CSIRO Telecommunications and Industrial Physics.
4. Revenue generated from ATNF activities such as the ATNF's visitors centres and observatory accommodation.
5. The revenue shortfall was funded from ATNF reserves.

Appendices

B: Staff list, 1 JULY 2000

ATNF Staff

SYDNEY

J E Archer *(Administration)*
J M H Barends *(Astrophysics/Computing PA)*
J Bell *(ARC Fellow/SKA)*
R J Bolton *(Receivers)*
M A Bowen *(Receivers)*
M L Bromley-Gambaro *(Scientific & Community Liaison)*
J W Brooks *(Assistant Director, & Engineering Manager)*
W N Brouw *(Astrophysics/Computing)*
M R Calabretta *(Computing)*
G J Carrad *(Receivers)*
J L Caswell *(Astrophysics)*
J M Chapman *(National Facility Support)*
R R Chekkala *(Electronics)*
E R Davis *(Electronics)*
E de Blok *(Bolton Fellow/Astrophysics)*
T K Denmeade *(Scientific & Community Liaison)*
A R Dunning *(receivers)*
R D Ekers *(ATNF Director)*
R H Ferris *(Electronics)*
G J Gay (*Receivers*)
T J Getts *(LBA)*
R G Gough *(Receivers)*
G R Graves *(Receivers)*
E Hakvoort *(Receivers)*
P A Hales *(Electronics)*
P J Hall *(Head, SKA Program)*
R F Haynes *(Head, Scientific & Community Liaison)*
A Hopkins *(USyd/ATNF Research Fellow)*
P J Howson *(Divisional Secretary)*
S A Jackson *(Receivers)*
H P Kanoniuk *(Receivers)*
L Kedziora-Chudczer *(AAO/ATNF Post-doctoral Fellow/Astrophysics)*
M J Kesteven *(Astrophysics/Engineering Research)*
N E B Killeen *(Acting Head, Computing)*
B S Koribalski *(Astrophysics)*
M Large *(MNRF Array Technology)*
M R Leach *(Electronics)*
J M J Lie *(Receivers)*
P A Lilie *(Receivers)*
S M Little *(Administration)*
S Magri *(Electronics)*
R N Manchester *(Astrophysics)*
G A Manefield *(Engineering PA)*
H May *(Computing)*
V J McIntyre *(Computing)*
G G Moorey *(overseas)*
R P Norris (*Head, Astrophysics/Head, Computing*) *(on secondment to Corporate Centre)*
M Oestreich *(Electronics)*
E G Pacey *(Director's PA)*
L J Reilly *(Receivers)*
P P Roberts *(Electronics)*
R J Sault *(Computing/SKA)*
R R Scott *(Administration)*
H L Sim *(Scientific & Community Liaison)*
M W Sinclair *(Head, Receivers)*
L G Staveley-Smith *(Acting Head, Astrophysics)*
M Storey *(SKA Site Studies/PASA)*
P B Sykes *(Receivers)*
B M Thomas *(Engineering Research)*
A K Tzioumis *(Astrophysics/LBA)*
M Walker *(ATNF/USyd Research fellow/ Astrophysics)*
J B Whiteoak *(Deputy Director & Head, National Facility Support)*
W E Wilson *(Head, Electronics)*

Staff shared with CSIRO Telecommunications and Industrial Physics

Administration

S F Clark
O A D'Amico
C Duffy
C D Hodges
K J Lambert
S O'Toole
C K Spence
B Wrbik

Appendices

Engineering Services

P Bonvino
A F Bugh
G R Cook
P Cooper
P A Dalziel
B A Egan
W Finch
G Hughes
T M Huynh
O Iannello
C R Lobsey
K B MacLeod
M McDonald
R A Moncay
B F Parsons *(Assistant Engineering Manager)*
P A Sharp
J R Uden
B Wilcockson *(Assistant Engineering Manager)*
M R Wright

Library

A Joos
C M van der Leeuw

NARRABRI

F Badia *(Computing)*
R J Beresford *(Electronics)*
D J C Brooke *(Electronics)*
D J Campbell *(Antennas & Site Services)*
S J Cunningham *(Computing)*
A F Day *(Electronics)*
A A Deshpande *(Visiting Scientist)*
O P Dowd *(Antennas & Site Services)*
C F Forbes *(Lodge)*
K Forbes *(Administration)*
J Giovannis *(Computing)*
T M Gordon *(Antennas & Site Services)*
M E Guest *(Lodge)*
D M Harris *(Administration)*
S M James *(Electronics)*
J Houldsworth *(PA)*
B D Johnson *(Antennas & Site Services)*
T J Kennedy *(Visitors Centre)*
C W Leven *(Antennas & Site Services)*
J C McFee *(Electronics)*
D McConnell *(O-I-C, Paul Wild Observatory)*
L A Panton *(Electronics)*
B W Reddall *(Electronics)*
M H Rees *(Lodge)*
A G Ryan *(Antennas & Site Services)*
R Subrahmanyan *(Electronics)*
G J Sunderland *(Antennas & Site Services)*
S Tingay *(Bolton Fellow)*
R M Wark *(Operations)*
J C Wieringa *(Library)*
M H Wieringa *(Computing)*
C A Wilson *(Lodge)*

PARKES

J K Cole *(Lodge)*
J M Crocker *(Site Services)*
H A Fagg *(RF Systems)*
G T Freeman *(Administration)*
M A Freeman *(Administration Trainee)*
J M Glowacki *(Electronics/Servo & RF Systems)*
J Hockings *(Visitors Centre)*
S Hoyle *(Computing)*
A J Hunt *(Electronics/Servo)*
S A Ingram *(Lodge/Site Services)*
R T Lees *(Site Services)*
R J Livingstone *(Site Services)*
S L Mader *(Operations)*
M P McColl *(RF Systems)*
B A Preisig *(Electronics/Servo)*
K F Reeves *(Site Services)*
J E Reynolds *(OIC, Parkes Observatory)*
J M Sarkissian *(Operations)*
S R Scott *(PA/Admin)*
M R Smith *(RF systems)*
G Spratt *(Computing)*
E R Troup *(overseas)*
B Turner *(Site Services)*
R R Twardy *(Visitors Centre)*

CANBERRA

J F Bell *(ARC fellow/Astro)*
D L Jauncey *(Astro)*
J E J Lovell *(Astro)*

C: Committee membership

ATNF Steering Committee, 2000

Chairman

Prof R D Cannon, Anglo-Australian Observatory

Secretary

Mrs E Pacey, ATNF

Members

Ex-Officio

Prof R D Ekers, Director, ATNF

Dr B Boyle, Director, Anglo-Australian Observatory

Dr R L Sandland, Deputy Chief Executive, CSIRO

Dr D N Cooper, Chief, CSIRO Telecommunications and Industrial Physics

Prof P McCulloch, Director, Mt Pleasant and Ceduna radio observatories, University of Tasmania

Astronomers

Dr E Sadler, University of Sydney

Prof J Storey, University of New South Wales

International advisers

Prof P Goldsmith, Director, National Astronomy and Ionosphere Center, Cornell University (USA)

Prof Kwok-yung (Fred) Lo, Director, Institute of Astronomy and Astrophysics, Academia Sinica (Taiwan)

Prof K M Menten, Director, Max Planck Institute for Radio Astronomy, Bonn, Germany

Industry

Dr P Scaife, Director, Centre for Sustainable Technology, University of Newcastle

Dr R H Frater, Vice President Innovation, Res Med, North Ryde

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 Organization Netherlands (Netherlands)

Australia Telescope Users Committee, 2000

Chairman

Dr A Green, University of Sydney

Secretary

Dr B Koribalski, ATNF (outgoing)

Mr V McIntyre*, ATNF (incoming)

Members

Dr Ramesh Balasubrahmanyan, University of New South Wales

Dr D Barnes*, University of Swinburne

Ms H Bignall*#, University of Adelaide

Dr M Britton, University of Melbourne

Dr J Chapman, ATNF

Dr E Corbett, Anglo-Australian Observatory

Dr M Costa, University of Tasmania

Dr S Ellingsen*, University of Tasmania

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

Dr D Jauncey, ATNF

Ms M Johnston-Hollitt#, University of Adelaide

Dr C Lineweaver, University of New South Wales

Mr E Muller*#, University of Wollongong

Dr M Sevenster, Mt Stromlo and Siding Spring observatories

Dr R Sood, University of Western Sydney

Dr M Walker, University of Sydney

** New member in 2000* *# Student member*

Australia Telescope Time Assignment Committee 2000

Chairman

Prof R D Ekers, Director, ATNF

Secretary

Dr J Chapman, ATNF

Members

Dr M Wardle, University of Sydney

Dr M Drinkwater, University of Melbourne

Dr A Kalnajs, RSAA, Australian National University (to March 2000)

Dr M Sevenster, RSAA, Australian National University (from July 2000)

Dr R Balasubrahmanyan, University of New South Wales (from July 2000)

Dr R Manchester, ATNF

Dr D McConnell*, Officer-in-Charge, Narrabri Observatory, ATNF

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

** non-voting members*

Appendices

D: Observing programs

Observations made with the Australia Telescope Compact Array, January to December 2000

Observers	Affiliations	Program Title	Number	Hours
McConnell, Sault, Subrahmanyan, Tingay, Reynolds, Wark, Wieringa	ATNF, ATNF, ATNF, ATNF, ATNF, ATNF, ATNF,	ATCA calibrators	C007	208
Dickel, Gallant, Gaensler, Milne, Staveley-Smith, Manchester	UIll/NFRA, Utrecht, MIT, ATNF, ATNF, ATNF	The Plerion and Shell of the Composite SNR 0540-693	C014	13
Manchester, Gaensler, Staveley-Smith, Tzioumis, Wheaton, Kesteven, Reynolds	ATNF, MIT, ATNF, ATNF, USyd, ATNF, ATNF	SNR 1987A	C015	168.5
McConnell, Ables	ATNF, CTIP,	Imaging 47 Tucanae	C059	103.5
Ryder, Staveley-Smith, Schlegel	Hilo, ATNF, SAO,	The 1978 Supernova in NGC 1313	C184	17
Duncan, White	ATNF, UMar	High-spatial resolution observations of Eta Carinae	C186	26
White, Duncan	UMar, ATNF	The Radio Properties of the Luminous Blue Variable WRA 751	C312	13
Caswell	ATNF	Precise 6035 MHz maser positions	C325	16
Johnston, Manchester, McConnell, Ball	USyd, ATNF, ATNF, USyd	Unpulsed Transient emission from the PSR B1259-63 binary system	C326	119.5
Norris, Forbes	ATNF, UBir	Annual Monitoring of the starburst ring in NGC 7552	C434	12
Webster, Whiting, Kilborn, Drinkwater, Peele	UMel, UMel, UMel, UMel, UMel	Spectral energy distributions for Parkes quasars	C484	118
Harnett Beck, Haynes, Ehle, Blank	UTS MPIfR, ATNF, ESA Villafranca, Univ Macquarie	Magnetic fields in southern barred galaxies	C494	26
Tingay, Jauncey, King, Rayner, McCulloch, Tzioumis, Reynolds, Preston, Hirabayashi	JPL, ATNF, ATNF, UTas, UTas,ATNF, ATNF, JPL, ISAS	Flux density monitoring of VSOP survey sources	C540	24
Caswell	ATNF	More methanol maser positions	C558	16
Hopkins, Cram, Afonso, Mobasher	UPitt, USyd, ImCol, ImCol	The ATCA Phoenix large area ultra-deep survey	C572	120
Whysong, Antonucci, Geller, Killeen, Sault, Desai	UCSB, UCSB, UCSB, ATNF, ATNF, WSRT	A search for the ionized intergalactic medium	C575	110
Birkinshaw, Worrall	UBr , UBr	The jet in the unusual AGN J2310-4347	C588	13
Dickey, McClure-Griffiths, Green, Wieringa, Haynes, Gaensler	UMinn, UMinn, USyd, ATNF, ATNF, MIT	The southern Galactic plane survey	C596	530
Kedziora-Chudczer, Jauncey, Wieringa, Reynolds, Tzioumis, Nicolson	ATNF, ATNF, ATNF, ATNF, ATNF, HartRAO	Monitoring observations of PKS 0405-385 (cont)	C611	43.5
Muller, Stanimirovic, Staveley-Smith, Haynes, Zealey	UWoll, NAIC, ATNF, ATNF, UWoll	HI observations of the Magellanic Bridge	C628	51.5
Filipovic, Pietsch, Haberl, White, Jones, Haynes	UWS, MPE, MPE, UWS, UWS, ATNF	Supernova remnant candidates in the Magellanic Clouds. IV: New X-ray candidates	C634	13

Appendices

Webster, Koribalski, Kilborn, Waugh, Dodd, + High Pass Team	UMel, ATNF, UMel, UMel, UMel	High resolution observations of multibeam detections	C638	106
Bignall, Tzioumis, Bondi, Mantovani, Venturi, Padovani, Kedziora-Chudczer	UAd, ATNF, UBol, UBol UBol, STScI, USyd	Monitoring of Blazars observed with SAX	C639	24
Frail, Kulkarni, Berger, Galama, Wieringa, Wark, Subrahmanyan, McConnell	NRAO, Caltech, Caltech, Caltech, ATNF, ATNF, ATNF, ATNF	The radio afterglows from gamma-ray bursts - NAPA	C651	52.5
Clark, Dougherty, Waters, Goodwin	USuss, Nat. Research Council, UAm, USuss	Compact Configuration Observations of Wd1	C652	26.5
Benaglia, Cappa, Koribalski	IAR, IAR, ATNF	Mass loss rate determination of southern Of stars	C678	35
Harju , Higdon, Lehtinen, Juvela	UHel, KI, UHel, UHel	CrA/IRS 7B –– a prototstar driving synchroton jets?	C711	37
Norris , Badia, Ekers, Ekers, Hopkins, Sault, Wieringa, Williams, Boyle	ATNF ATNF, ATNF, ATNF, ATNF, ATNF, ATNF, STScI, AAO	Observations of the Hubble Southern Deep Field	C727	63
Fender, Spencer, Tzioumis, Wu, Johnston, van der Klis, van Paradijs	UAm, JB, ATNF, USyd, AAO, UAm, UAm	The radio jets and proper motion of Circinus X-1	C737	12
Pisano, Wilcots	UWisc, UWisc	Extended HI and the formation of isolated galaxies	C744	32.5
Stappers , Gaensler, Getts	UAm, MIT, ATNF	Radio emission from SAX J1808.4-3658	C751	7
Gaensler, Moffett, Green, Dodson, Dickel, Slane, Harrus	MIT, UFurman, USyd, UTas, NFRA, CfA, NASA	SNR G327.7-1.1: evidence for a high velocity pulsar?	C772	26
Staveley-Smith, Juraszek, Henning, +ZOA team	ATNF, USyd, UNM	Unveiling the giant galaxies in the Zone-of-Avoidance	C781	98
Chapman, Dougherty, Leitherer, Koribalski, Williams, Moffett	ATNF, DRAO, STScI, ATNF, ROE, UMont	The radio light curve of Gamma Velorum	C787	44
Dodson, Ellingsen	UTas, UTas	Coincidence of OH maser emission at 4765 MHz	C798	24
Vergani, Dettmar, Klein,	UBonn, URuhr, UBonn,	HI in disk galaxies with merging bulges	C801	48
de Blok, Walter	ATNF, Caltech	An HI mosaic of the local group dwarf galaxy NGC 6822	C809	96
Beaulieu, Freeman, Bureau, Carignan, Meurer	IOA, MSSSO, LO, UMont, JHU	Triaxial halos and the outer HI disks of spiral galaxies	C819	12
Putman, Freeman	RSAA, RSAA	Compact High Velocity Clouds	C820	82
Ivison, Couch, Smail, Morrison, Owen	UCL, UNSW, UDur, Caltech, NRAO	A new window on galaxy evolution: obscured starbursts in clusters at z = 0.31	C821	84
Deep Survey Team	UW	ATCA Identification of DEEP 21-cm Multibeam Detections	C822	52
Slee, Roy, Andernach, Tsarevsky	ATNF, MPIfR, UGuan, ATNF	High-resolution imaging of relics in southern clusters	C827	14
Pannuti, Filipovic, Jones, Pietsch, Haberl	UNM, UWS, UWS, MPE, MPE	A Search for Supernova Remnants in Nearby Galaxies (NGC 300)	C828	13
Wardle, Green, Lazendic	USyd, USyd, USyd	OH absorption towards the W28SNR	C839	12.5

Appendices

Venturi, Dallacasa, Bardelli, Tzioumis, Morganti, Hunstead	CNR, CNR, OBol, ATNF, NFRA, USyd	A radio halo candidate in the merging cluster A3562	C841	25
Agostino, Venturi, Facordi, Kelm, Tzioumis	IRA-CNR, IRA-CNR, IRA-CNR, UBol, ATNF	Probing the Role of Local Environment in Seyfert Galaxies	C842	24.5
Pottasch, Van de Steene	KI, RSAA	The bipolar planetary nebula He2-111	C843	13
Oosterloo, Morganti	NFRA, NFRA	HI observations of a jet-cloud interaction	C844	28
Stevens, Chapman, Rauw, Leitherer, Setia Gunawan	UBir, ATNF, ULiege, STScI, UGron	Radio stars in NGC6231 and the Sco OB1 association	C845	109
Roy, Rao, Subrahmanyan	TIFR, TIFR, ATNF	Magnetic field in the Galactic Centre: RM observation of extragalactic sources	C846	10.5
Roy, Rao, Subrahmanyan	TIFR, TIFR, ATNF	Magnetic field in the Galactic Centre: RM observation of extragalactic sources	C846	50
Johnston-Hollitt, Ekers, Clay	UAd, ATNF, UAd	Probing aspects of a cluster merger: A3667 at 6cm	C847	36.5
Muecke, Koribalski, Moffat, Corcoran, Stevens, Wessolowski	UAd/UMon, ATNF, UMont, GSFC, UBir, MPE	High resolution multifrequency observations of the stellar cluster in NGC 3603	C848	25
Muecke, Koribalski, Moffat, Corcoran, Stevens, Wessolowski	UMon, ATNF, UMont, GSFC, UBir, MPE	High resolution multifrequency observations of the stellar cluster in NGC 3603	C848	36
Muecke, Koribalski, Moffat, Corcoran, Stevens	UMon, ATNF, UMont, GSFC, UBir	High resolution multifrequency observations of the stellar cluster in NGC 3603	C848	12.5
Garay, Norris, Mardones	UChile, ATNF, UChile	The characteristics of the ionized gas within hot molecular cores	C849	51
Garay, Norris, Mardones	UChile, ATNF, UChile	The earliest stages of massive star formation	C850	13
Stevens, Forbes, Norris	UBir, UBir, ATNF	Radio mapping of the starbursts in two dwarf galaxies	C851	25
Ogura, Norris	UKok, ATNF	Radio continuum observations of Herbig-Haro objects	C852	12
Kedziora-Chudczer, Subrahmanyan, Jauncey, Macquart	AAO, ATNF, ATNF, USyd	Monitoring of the HI absorption towards the IDV sources	C853	93
Kedziora-Chudczer, Bailey, Wagner, Macquart	AAO, AAO, UHeid, USyd	The optical and radio polarization of the four IDV sources	C854	31
Beuther, Walsh, Schlike, Menten, Sridharan	MPI, MPI, MPI, MPI, HSS	Methanol maser emission in high-mass protostars	C856	11.5
Fender, Norris, Sault, Pooley, Rayner	UAm, ATNF, ATNF, MRAO, UTas	Circular polarization of radio-bright X-ray transients (NAPA)	C857	14
Umana, Trigilio	CNR, CNR	A survey of post-AGB stars	C858	62
Coe, Haigh, Clark, Goodwin	USHam, USHam, USuss, USuss	A supernova remnant around a Be X-ray binary?	C859	26

Appendices

Lovell, Jauncey, Tingay	ATNF, ATNF, ATNF	The nature of the jet in PKS 0637-752	C861	12
Tuthill, Monnier, Greenhill, Danchi	USyd, HSS, HSS, UCB	Broadband spectra of selected IR-bright Wolf-Rayet stars	C862	49.5
Mohan, Dwarakanath, Subrahmanyan	RRI, RRI, ATNF	HI 21cm absorption study towards the Galactic centre	C863	24
Shen, Lovell, Jauncey, Edwards, Hirabayashi, Inoue, Kameno	NAOJ, ATNF, ATNF, ISAS, ISAS, NAOJ, NAOJ	Dual frequency ATCA polarization imaging of PKS 0312-770	C864	12
Walsh, Bertoldi	MPI, MPI	Radio continuum emission from methanol maser sites	C865	26
Birkinshaw, Worrall	UBr, UBr	PKS 0521-365: a BL Lac with an exceptional radio source	C867	13
Van der Hulst, Roelfsema, Tielens, Martin-Hernandez, Vermeij	KI, SRON, KI, KI, KI	Compact HII regions in the Local Group galaxies	C868	54
Kregel, de Blok, van der Kruit, Freeman	KI, ATNF, KI, MSSSO	HI structure and kinematics of edge-on spiral galaxies	C869	50.5
Yamaguchi, Moriguchi, Onishi, Mizuno, Fukui	UNag, UNag, UNag, UNag, UNag	Evidence of the Vela SNR/Molecular gas interaction	C870	48
McIntyre, Subrahmanyan, Hunstead	USyd, ATNF, USyd	SUMSS 0515-810: a dying giant radio galaxy?	C871	40
Fender, Norris, Sault, Pooley, Rayner	UAm, ATNF, ATNF, MRAO, UTas	Circular polarization of SS 433	C872	28
Fender, Norris, Sault, Pooley, Rayner	UAm, ATNF, ATNF, MRAO, UTas	Circular polarization of SS 433	C872	10
Bruens, Kerp, Haynes	RAIUB, RAIUB, ATNF	The HI small-scale structure in the Magellanic Stream	C874	106
Ciliegi, Comastri, Fiore, Morganti, La Franca	OABol, OABol, OARome, NFRA, USR	Radio observations of Chandra X-ray sources	C877	24
Edwards, Lovell, Reynolds, Tzioumis, Jauncey	ISAS, ATNF, ATNF, ATNF, ATNF	Imaging and monitoring the gravitational lens B1152+199	C878	13.5
Ellingsen, Sobolev, Cragg, Godfrey	UTas, USU, Monash, Monash	A direct test of Class II methanol maser modellng	C879	14
Gaensler, Dickel, Kaspi, Crawford, Milne, Piovaroff	MIT, NFRA, MIT, MIT, MIT	Radio Imaging of the 87-ms X-ray pulsar AX J0043-737	C882	25
Johnston, McConnell	USyd, ATNF	A search for exotic millisecond pulsars in globular clusters	C883	96
Kalberla, Klein, Salucci, Borriello, Ratnam, Pignatelli	UBonn, UBonn, SISSA-ISAS, SISSA-ISAS, SISSA-ISAS, SISSA-ISAS	The dark matter distribution in disk galaxies	C885	86
Kardashev, Cherepashchuk, Slee, Tingay, Tsarevsky, Popov, Zhuravlev	ASC, Sternberg Inst, ATNF, ATNF, ATNF, ASC, ASC	Search for new Galactic Microquasars among ROSAT sources	C886	46
Lazendic, Wardle, Whiteoak, Green	USyd, USyd, ATNF, USyd	Absorption-line observations of shocked molecular gas around SN	C887	51.5
Leahy, Killeen	NRAL, ATNF	Pinning down the physics of FRII Radio Galaxies	C888	37

Appendices

Lehtinen, Higdon, Harju, Kontinen	UHel, KI, UHel, UHel	Protostars in the Cederblad 110 star formation region	C889	24.5
Lovell, Marshall, Jauncey, Tingay, Murphy, Preston, Piner	ATNF, MIT, ATNF, ATNF, JPL, JPL, JPL	ATCA and Chandra Survey of Radio Jets	C890	95
Lovell, Winn, Jauncey, Edwards, Reynolds, Tzioumis	ATNF, MIT, ATNF, ISAS, ATNF, ATNF	Snapshot Imaging of Gravitational Lens Candidates	C891	24
Ludke, Adornes, Norris	Univ. Santa Maria, U. Rio Grande do Sul, ATNF	HI imaging survey of southern Seyfert Galaxies	C892	24
Minier, Ellingsen, Norris, Booth	OSO, UTas, ATNF, OSO	A search for 6.7 GHz methanol masers towards class 0 and class 1 protostars	C893	24
O'Brien, Bosma, Freeman	RSAA, Obs. de Marseille, RSAA	Probing the dark matter halos of thin edgbe-on Galaxies	C894	100
Robinson, Slee	GSFC, ATNF	Radio Observations of Flares on the dMe star Prox Cent	C895	28
Subrahmanyan	ATNF	Recurrent activity in the giant radio galaxy 0707-359	C899	43.5
Subrahmanyan, Tingay	ATNF, ATNF	Evolution in morpholigies of radio galaxies	C900	31
Whiteoak, Lazendic	ATNF, USyd	Accurate Positions of 22 GHz H2O LMC Masers	C901	11.5
Budding, Slee, Carter, Mengel	CITNZ, ATNF, USQ, USQ	Rotation phase dependent radio emission from HR 817	C902	25
Chapman, Stevens, Rauw	ATNF	A new radio galaxy with an unusual jet morphology	C904	12
Gruppioni, De Zotti, Prandoni, Sault Padova, Padova, Bologna,	ATNF	22 GHz Observations of southern Kuhr sources	C905	24
Caswell	ATNF	OH Flare of a maser in a star formation region	C906	16
Manchester, Possenti, D'Amico, Ferraro, Lyne	ATNF, Bologna, Bologna, Bologna, Jodrell Bank	Positions for binary millisecond pulsars in globular clusters	C907	11.5
Hardcastle, Sakelliou, Werner	UBristol, Mullard, UBristol	The jet termination in the nearest WAT PKS 1610-608	C908	22.5
Prandoni, Gregorini, Parma, Vettolani, Ruiter, Wieringa, Ekers	IRA-CNR, IRA-CNR, NCR, NCR, OAB, ATNF, ATNF	The nature of the faint radio population	C909	131.5
Tingay, Subrahmanyan	ATNF, ATNF	An ATCA search for jet deflections in powerful radio galaxies	C910	48
Tingay, Slee, Sadler	ATNF, ATNF, USyd	ATCA Imaging of Pictor A at 1.4, 2, 5 and 4.8 GHz	C911	55.5
Kedziora-Chudczer, Bignall	AAO/ATNF, UAd	Full synthesis imaging of the IDV blazar PKS 1144-379	C912	12.5
Filipovic, Pietsch, Read, Jones	UWS Nepean, MPE, MPE, UWS	Large Scale Radio Jets in the Galaxy Cluster Abell S0102	C913	13
Kwok, Lee, Lim	Calgary, Calgary, Academica Sinica	Radio Imaging of southern hemisphere planetary nebulae	C914	24

Bryant, Hunstead	USyd, USyd	The inner structure of the giant radio galaxy MRC B0319-454	C916	25
Fender, Spencer, Tzioumis, Wu, Johnston, van der Klis	UAm, JB, ATNF, USyd, AAO, UAm	Periodic superluminla motions from Cir X-1	C917	82
Kesteven, Bell, Sault, Hall, Wilson, Briggs, Mitchell	ATNF, ATNF, ATNF, ATNF, ATNF, Kapteyn, USyd	Implementation of post-correlation interference suppression	C919	20

Observations made with the Parkes Telescope, January to December 2000

Observers	Affiliations	Program Title	Number	Hours
Johnston, Fagg, Manchester, Nicastro	ATNF, ATNF, IRA-CNR	Periastron observations of PSR B1259-63	P116	7.2
Kaspi, Manchester, Bailes	MIT, ATNF, Swin	Timing of the pulsar/B Star binary J0045-7319	P138	1.33
van Straten, Bailes, Sarkissian, Manchester, Anderson, Kulkarni	Swin, Swin, ATNF, ATNF, Caltech, Caltech	Precision pulsar timing	P140	16.5
Young, Manchester, Burman	UWA, ATNF, UWA	Pulsar pulse dynamics	P221	2.83
Han, Manchester, Qiao	BAO, ATNF, UPek	Polarization and Faraday rotation of southern pulsars	P236	4.75
Freeman, + MB team	RSAA	Northern extension of HIPASS	P248	67.2
van Loon, Zijlstra	IoA, IoA	H2O maser emission from evolved stars in the LMC	P260	4.28
Manchester, Lewis, Sarksissan, Bailes, Kaspi	ATNF, UTas, ATNF, Swin, MIT	Timing of young pulsars	P262	1.50
Edwards, Bailes, van Straten	Swin, Swin, Swin	Baseband searching for ultrafast pulsars	P263	8.0
Lyne, Kramer, Manchester, Bell, Camilo, Stairs, D'Amico, Morris, Kaspi, Crawford, Possenti	JB, JB, ATNF, ATNF, JB, JB, UBol, JB, MIT, MIT, UBol	Pulsar multibeam survey	P268	48.5
Crawford, Kaspi, Manchester, Lyne	MIT, MIT, ATNF, JB	A deep pulsar survey of the Small Magellanic Cloud	P269	7.64
Kaspi, Manchester, Lyne	MIT, ATNF, JB	A deep pulsar survey of the Small Magellanic Cloud	P269	7.31
Manchester, Bell, Camilo, Lyne, Morris, Kaspi, Crawford, D'Amico, Possenti	ATNF, ATNF, Columbia, JB, JB, MIT, MIT, UBol, UBol	Timing of multibeam pulsar survey discoveries	P276	20.6
Johnston, Koribalski, Wilson, Walker	USyd, ATNF, ATNF, USyd	Small scale structure in the Interstellar Medium	P280	5.15
Lyne, Camilo, Freire, Manchester, Lorimer, D'Amico	JB, JB, JB, ATNF, NAIC, UBol	Timing and searching for millisecond pulsars in 47 Tucanae	P282	17.5
D'Amico, Lyne, Manchester, Possenti, Gheller, Camilo, Lorimer	UBol, JB, ATNF, UBol, CINECA, JB, NAIC	Search and Timing of Pulsars in Globular Clusters	P303	2.55
Dickey, McClure-Griffiths, Haynes, Wieringa, Green, Gaensler	UMinn, UMinn, ATNF, ATNF, USyd, MIT	The Southern Galactic Plane Survey	P307	2.08
Webster, Waugh, Drinkwater, Ekers, Nulsen	UMel, UMel, UMel, ATNF, UWol	Galaxy evolution in the Fornax Cluster	P315	2.21

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Crawford, Pivovaroff, Kaspi, Manchester	MIT, MIT, MIT, ATNF	A search for young pulsars in composite SNRs	P327	0.21
Toth, Hotzel, Lemke, Harju, Whiteoak	UEot, MPIA, MPIA, UHel, ATNF	The coldest cloud cores of Chamaeleon 1	P336	5.00
Edwards, Bailes	Swin, Swin	Timing of Swinburne Multibeam Pulsar Discoveries	P337	9.2
Johnston, Bailes, Britton	USyd, Swin, Swin	Observations of single pulses from strong pulsars	P338	1.01
Young, Manchester, Burman	UWA, ATNF, UWA	The longest period pulsar and PM nullers	P339	3.04
Lyne, Stairs, Kramer, Manchester	JB, JB, JB, ATNF	Magnetospheric changes in PSR B1828-11	P340	1.0
Stairs, Manchester, Lyne, Bell, Camilo	JB, ATNF, JB, ATNF, UColumb	Periastron studies of PSR 1740-3052	P341	2.95
Crawford, Pivovaroff, Kaspi, Manchester	MIT, MIT, MIT, ATNF	Timing of pulsars discovered in a search of SNRs	P342	0.81
Takano, Takano, Nakai, Kawaguchi	Chiba University, Nobeyama Nobeyama, Okayama Univ	Ortho/Para Ratio of Ammonia in Galactic Star-forming Regions	P344	5.42
Bouchard, Staveley-Smith	UMont, UMont, ATNF	HI around dwarf spheroidal galaxies	P347	3.01
McClure-Griffiths, Dickey, Taylor, Gibson, Gaensler, Green 3.22Koribalski, Staveley-Smith, Putman, Kilborn, Gibson	UMinn, UMinn, UMinn, UCal, MIT, USyd ATNF, ATNF, RSAA, UMel, Swin	A Global HI survye of the Milky Way: The VGPS Protogalaxies, High Velocity Clouds or Magellanic Debris?	P348 P349	1.98
Caswell	ATNF	Water Masers in southern SFRs	P350	1.46
Caswell	ATNF	12 GHz methanol masers at sites of 6.6 GHz methanol masers	P351	0.69
Forbes, Mundell, Barnes	Swin, Liverpool John Moores, Swin	Formation and Evolution of Galaxies in Groups – the role of HI	P352	3.92
Mader, Zealey, Walker, Parker, Cohen	ATNF, UWol, UWol, ROE, Berkely	The role of the Enivornment in Star Formation: CMa OB1/R1	P355	1.52
Deshpande, Rankin, McConnell	ATNF, Uni VermonA, ATNF	Subpulse fluctuation properties of southern pulsars	P356	2.35
Staveley-Smith, Koribalski, Henning, Kraan-Kortweg, Sadler, Schroeder, Stewart	ATNF, ATNF, Uni New Mexico, Uni Guanajuato, USyd, Nice, Univ Leicester	A northern extension to the ZOA survey	P357	2.02
Stairs	JB	ToO Observations of AX J0043-737	PX003	0.08

Observations made with the Mopra Telescope, January to December 2000

Observers	Affiliations	Program Title	Number	Hours
Whiteoak, Hunt	UWS Nepean	Interaction of HII region RCW36 with an associated cool cloud	M095	12.6
Durouchoux, Sood, O'Neill, Flohic	CEA, ADFA, ADFA, CEA	Millimetre Observations of elongated SNRs, Search for jet signatures	M096	13
Ludke, Migenes	SMFU, UGuan	A 3mm survey of southern OH-IR stars	M097	10

Bourke, Myers, Allen, Wright	CfA, CfA, CfA, ADFA	Large-scale inward motions in young stellar clusters	M098	8
Deguchi, Balasubramanyam, Nakashima	NRO, UNSW, NRO SiO	Maser survey in the Galactic disk, 270 < l < 350.	M099	10
Allen, Myers, Bourke	CfA, CfA, CfA	Dense gas in the rho Ophiucus dark cloud	M100	6
Muller, Staveley-Smith, Haynes, Zealey	UWol, ATNF, ATNF, UWol	Search for CO Molecules in the Western Magellanic Bridge	M101	5
Ellingsen, Costa	UTas, UTas	Search for Hot Molecular Cores	M103	8
Wright, Maldoni, Boonman, Dishoeck, Smith	ADFA, ADFA, Leiden, Leiden, ADFA	The gas and dust content of YSOs and OH/IR stars	M104	5
Balasubramanyam, Kim, Carrad, Burton, Storey	UNSW, UNSW, ATNF, UNSW, UNSW	Spectral line survey towards hot molecular cores	M105	13

VLBI Observations, January to December 2000

Observers	Affiliations	Program Title	Number	Hours
Caswell, Reynolds	ATNF, ATNF	LBA maps of 18cm OH masers in star-forming regions	V108	36
Corbett, Norris, Appleton, Heisler, Dopita	ATNF, ATNF, IASU, MSSSO, MSSSO	VLBI search for compact radio cores in COLA galaxies	V110	28
Gwinn, Reynolds, Tzioumis, McCulloch, Jauncey, Britton, Quick	UCSB, ATNF, ATNF, UTas, ATNF, UMel, HartRAO	Polarization of the Vela Pulsar's Emission Region	V112	14
Corbett, Norris, Appleton, Heisler, Dopita	ATNF, ATNF, IoSU, RSAA, RSAA	VLBI imaging of selected COLA galaxies	V133	19
Greenhill, Moran, Norris, Reynolds, Ellingsen, Jauncey, Tzioumis, Ellingsen, McCulloch, Booth	CfA, CfA, ATNF, ATNF, UTas, ATNF, ATNF, UTas, UTas, OSO	Tracking the acceleration of H2O masers in Circinus	V137	18
Whiteoak, Reynolds, Getts, Lazendic	ATNF, ATNF, MU, USyd	First epoch proper motion positions of LMC H2O masers	V139	10
Shen, Edwards, Hirabayashi, Inoue, Kameno, Jauncey, Lovell, Reynolds, Tzioumis, McCulloch, Costa, Nicolson	NAOJ, ISAS, NAOJ, NAOJ, NAOJ, ATNF, ATNF, UTas, UTas, HartRAO, ATNF	VLBI investigations on a southern quasar PKS 0312-770	V140	14
Blank, Harnett	USyd, UTech	VLBI observations of NGC 7213	V141	13

Appendices

Affiliations

AAO	Anglo-Australian Observatory, Australia
AAT	Anglo-Australian Telescope, Australia
ADFA	Australian Defence Force Academy, Australia
AIPr	Astronomical Institute Prague, Czech Republic
AITub	Institute of Astronomy, University of Tubingen, Germany
ANU	Australian National University, Australia
AO	Arecibo Observatory, USA
AOUpp	Astronomiska observatoreit, Uppsala, Sweden
ArO	Armagh Observatory, UK
ASC	Astrospace Centre, Russia
ASCR	Academy of Sciences of Czech Republic, Czech Republic
ASIAA	Academia Sinica, IAA, Taiwan
ATNF	Australia Telescope National Facility, Australia
BAO	Beijing Astronomical Observatory, China
BIMA	Berkeley-Illinois-Maryland Association, USA
Caltech	California Institute of Technology, USA
CDSSC	Canberra Deep Space Communications Complex, Australia
CEA	Centre d'Etudes d'Astrophysique, Saclay, France
CfA	Center for Astrophysics, Harvard University, USA
CO	Carter Observatory, New Zealand
Cornell	Cornell University, USA
COSSA	CSIRO Office of Space Science & Applications, Australia
CRALOL	CRAL Observatoire de Lyon, France
CSR	Center for Space Research, USA
CTIP	CSIRO Telecommunications & Industrial Physics, Australia
DEMIRM	Département d'Etudes de la Matière interstellaire en InfraRouge et Millimétrique, l'Observatoire de Paris, France
DRAO	Dominion Radio Astrophysical Obs., Canada
ESO	European Southern Observatory, Germany
ESTEC	ESTEC Astrophysics Division, Netherlands
GBT	Green Bank Telescope, USA
GMU	George Mason University, USA
Gray Data	Gray Data Consulting, USA
GSFC	Goddard Space Flight Centre, USA
HartRAO	Hartebeesthoek Radio Astron. Observ., South Africa
Harvard	Harvard University, USA
HatCreek	Hat Creek Radio Observatory, USA
IAC	Instituto de Astrofisica de Canarias, Spain
IAFE	Instituto d'Astronomia y Fisica del Espacio, Argentina
IAG	Instituto Astronomico e Geofisico, Brazil
IAP	Institute d'Astrophysique Paris, France
IAR	Instituto Argentino de Radioastronomica, Argentina
IASp	Institut d'Astrophysique Spatiale, France
IFCTR	Instituto de Fisica Cosmica - CNR, Italy
ImCol	Imperial College London, UK
IoA	Institute of Astronomy, UK
IPAC	IPAC, Caltech, USA
IRA-CNR	Institute of Radio Astronomy, CNR, Bologna, Italy
ISA	ISAS, JAPAN, Japan
ISU	Iowa State University, USA
JAC	Joint Astronomy Centre, USA
JBO	Jodrell Bank Observatory, UK
JHU	Johns Hopkins University, USA
JILA	JILA, University of Colorado, USA
JPL	Jet Propulsion Laboratory, USA
KI	Kapteyn Institute, Netherlands
LLNL	Lawrence Livermore National Laboratory, USA
LO	Leiden Observatory, Netherlands
LSW	Landessternwahrte Heidelberg, Germany
MERLIN	Multi-element Radio Linked Interferometry Network, UK
MIT	Massachusetts Institute of Technology, USA
Monash	Monash University, Australia
MPE	Max Planck Inst. für Extraterrestrische Physik, Germany
MPIfA	Max Planck Inst. für Astrophysik, Germany
MPIfR	Max Planck Inst. für Radioastronomie, Germany
MRAO	Mullard Radio Astronomical Observatory, UK
NAOJ	National Astronomical Observatory, Japan
NASA-RC	NASA Ames Research Centre, USA
NFRA	Netherlands Foundation for Research in Astronomy, The Netherlands
NOAO	National Optical Astronomical Observatory, USA
NRAO	National Radio Astronomy Observatory, USA
NRL	Naval Research Laboratories, USA
NRO	Nobeyama Radio Observatory, Japan
NWU	Northwestern University, USA
OABol	Osservatorio Astronomico di Bologna, Italy
OARome	Osservatorio Astronomico di Roma, Italy
OCat	Osservatorio Astronomico di Catania, Italy
OHP	Observatoire de Haute Provence, France

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OMs	Observatorire de Marseille, France
ON	Observatorio Nacional, Brazil
Open	Open University, UK
OPM	Observatoire de Paris, Meudon, France
OSO	Onsala Space Observatory, Sweden
PLab	Phillips Lab, USA
PMO	Purple Mountain Observatory, China
PUCC	Pontificia Universidad Catolica de Chile, Chile
Queens	Queens University, Canada
RAIUB	Radio Astronomy Institute, University of Bonn, Germany
RMC	Royal Military College, Canada
ROB	Royal Observatory of Belgium, Belgium
ROE	Royal Observatory Edinburgh, Scotland
RRI	Raman Research Institute, India
RSAA	Research School of Astronomy & Astrophysics, Australia
SETI	SETI Institute, USA
ShO	Shanghai Observatory, China
StO	Stockholm Observatory, Sweden
STScI	Space Telescope Science Institute, USA
Swin	Swinburne University of Technology, Australia
TGU	Tokyo Gakugei University, Japan
TIFR	Tata Institute for Radio Astronomy, India
UAd	University of Adelaide, Australia
UAl	University of Alabama, USA
UAm	University of Amsterdam, Netherlands
UBir	University of Birmingham, UK
UBonn	University of Bonn, Germany
UBos	Boston University, USA
UBr	University of Bristol, UK
UC	University of Colorado , USA
UCal	University of Calgary, Canada
UCB	University of California, Berkeley, USA
UCha	University of Illinois, Champagne-Urbana, USA
UChi	University of Chile, Chile
UChig	University of Chicago, USA
UCL	University College London, UK
UCLO	University of California Lick Obs., USA
UCSB	University of California, Santa Barbara, USA
UCSC	University of California , Santa Cruz, USA
UCSD	University of California, San Diego, USA
UDur	University of Durham, England
UEdin	University of Edinburgh, UK
UEot	Eotvos Lorand University , Hungary
UGuan	University de Guanajuato, Mexico
UHel	University of Helsinki, Finland
UHerts	University of Hertfordshire, UK
UHilo	University of Hawaii, Hilo, USA
UIL	University of Illinois, USA
UKok	Kokugakuin University, Japan
UKST	United Kingdom Schmidt Telescope, Australia
UKT	Kyushu Tokai University, Japan
UKyoto	University of Kyoto, Japan
ULeeds	University of Leeds, UK
UMac	Macquarie University, Australia
UMan	University of Manchester, UK
UMar	University of Maryland, USA
UMaur	University of Mauritius, Mauritius
UMelb	University of Melbourne, Australia
UMinn	University of Minnesota, USA
UMont	University of Montreal, Canada
UNag	Nagoya University, Japan
UNAM	Universidad Nacional Autonoma de Mexico, Mexico
UNM	University of New Mexico, USA
UNSW	University of New South Wales, Australia
UOx	Oxford University, UK
UPenn	Pennsylvania State University, USA
UPitt	University of Pittsburgh, USA
UQld	University of Queensland, Australia
URh	University of Rhodes, South Africa
URuh	Ruhr-Universitaet, Germany
USMF	Santa Maria Federal University, Brazil
USNA	US Naval Academy, USA
USNO	US Naval Observatory, USA
USouth	Southampton University, UK
UStan	Stanford University, USA
USuss	University of Sussex, UK
USyd	University of Sydney, Australia
UTas	University of Tasmania, Australia
UTex	University of Texas, USA
UTor	University of Toronto, Canada
UTS	University of Technology and Science, Australia
UW	University of Wales, UK
UWA	University of Western Australia, Australia
UWash	University of Washington, USA
UWis	University of Wisconsin, Madison, USA
UWol	University of Wollongong , Australia
UWS	University of Western Sydney, Australia
Yale	Yale University, USA
YU	Yunnan Observatory, China

Appendices

E: ATNF media releases 2000

Astronomers wipe clean their cosmic window	24 May
Astronomers win protection for key part of radio spectrum	20 June
Astronomers plan world's largest telescope	11 August
Australian to head world's top astronomy body	17 August
Apollo and the dish down under	12 October
The dish in the paddock at Parkes	12 October
"First Light" for upgraded Australia Telescope	8 December
"Red Dots" may re-write the history of the universe	28 December

ATNF media releases can be found on the Web at

http://www.atnf.csiro.au/news/press/atnf_press.html

and through

http://www.csiro.au

F: 2000 publications

Papers using ATNF data, published in refereed journals

Papers which include ATNF authors are indicated by an asterisk.

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Kilborn, V. "Distribution of HI in the local universe", PhD thesis, University of Melbourne

Rayner, D. "Circular polarization of quasars and active galaxies", PhD thesis, University of Tasmania

Sandhu, J. "High precision dual frequency timing of millisecond pulsars", PhD thesis, California Institute of Technology

G: Postgraduate students co-supervised by the ATNF

As at December 2000

Name and Affiliation	Project Title
Boris Babic (University of Queensland)	Mass distributions in rich clusters of galaxies
Hayley Bignall (University of Adelaide)	Multiwavelength studies of Blazars
Antonie Bouchard (University of Montreal)	Search for HI in dwarf spheroidal galaxies
Christian Bruens (University of Bonn)	Interaction of the Magellanic Stream and other HVCs with the Galactic Halo
Scott Cunningham (Swinburne Uni. of Technology)	The construction of a digital receiver for radio astronomy
Tracy Getts (Macquarie University)	Dynamical study of southern interacting galaxies
Scott Gordon (University of Queensland)	Star formation in interacting galaxies: A multiwavelength study
Matthew Howlett (Swinburne Uni. of Technology)	Galaxy detection in HIPASS images
Maria Hunt (University of Western Sydney)	Molecular spectral line observations of southern molecular clouds
Melanie Johnston-Hollitt (University of Adelaide)	Examining magnetic fields through Faraday rotation measures
Sebastian Juraszek (University of Sydney)	Nearby galaxies in the Zone of Avoidance
Jasmina Lazendic (University of Sydney)	Interstellar chemistry in shocked molecular gas around supernova remnants
David Legge (University of Tasmania)	Accurate astrometry of southern radio pulsars
Dion Lewis (University of Tasmania)	Timing of young pulsars
Robert Minchin (University of Wales, Cardiff)	The bivariate luminosity/surface brightness distribution of an HI selected sample of galaxies
Daniel Mitchell (University of Sydney)	Interference mitigation in radio astronomy
Erik Muller (University of Wollongong)	The kinematics and structure of the Magellanic Bridge
Paul Roberts (University of Sydney)	High-speed digitisers for radio astronomy
Emma Ryan (University of Melbourne)	Column density distribution function of the local universe
Daniel Santos-Costa (Office National d'Etudes et de Recherche)	Physical modelling of the inner radiation belts of Jupiter
Daniel Christopher Sheppard (Uni. of Manchester)	A multibeam survey for pulsars over the southern part of the Galactic Plane
Nina Wang (Peking University)	Timing of strong pulsars
Vivienne Wheaton (University of Sydney)	Hydrodynamical models and an investigation into radio emission from SN 1987A in the Large Magellanic Cloud
Matthew Young (University of Western Australia)	An investigation of pulsar dynamics using improved methods of time series analysis

H: ATNF engineering milestones

This table compares planned and actual capital costs and timescales for major engineering projects. Actual/estimated cost and time ratios are also given where available.

	ESTIMATES			ACTUAL			RATIOS: actual/estimated		
Project	**Start**	**Finish**	**Total cost $M**	**Start**	**Finish**	**Total cost $M**	**Cost:**	**Time:**	**Notes**
PARKES									
21-cm Multi-beam System	Feb 1995	Sept 1996	0.47	Feb 1995	Feb 1997	0.6	1.28	1.3	scope increased from 9–13 beams
Broadband correlators	June 1996	June 1999	0.1	June 1996	in progress		>1.6	–	scope increased to provide SEST correlator
Parkes Conversion system	Feb 1997	Sept 1998	0.25	Feb 1997	June 2000	0.33	1.32	2.1	scope changed to add frequency switching system
Parkes 10/50-cm 2000 receiver	June 2000	June 2003	0.32	June 2000	in progress		–	–	
NARRABRI									
N-Spur	Feb 1997	Oct 1999	1.14	Feb 1997	Dec 1999	1.18	1.04	1.1	some delay from Narrabri floods
Extra E–W stations for ATCA	Feb 1997	Oct 1999	0.44	Feb 1997	Dec 1999	0.46	1.05	1.1	
12/3.5-mm receivers	Feb 1997	Jan 2002	2.86	Feb 1997	in progress	1.40 (to date)	–	–	
Surface extension for ATCA	Feb 1997	Sept 1999	0.91	Feb 1997	Oct 1999	0.83	0.89	1.0	minor improvements in progress
LO distribution upgrade	Feb 1997	Feb 2000	0.75	Feb 1997	in progress	0.50 (to date)	>1.3	>0.7	
Antenna Control Computers upgrade	Feb 1997	July 1999	0.2	Feb 1997	in progress	0.45 (to date)	>1.7	>2.2	
Water Vapour Radiometer	Feb 1997	jan 2002	0.16	Feb 1997	in progress	0.19 (to date)	–	>1.2	
VLBI UPGRADE									
Hydrogen maser, VLBI timing, S2 playback unit	Feb 1997	March 1998	0.34	Feb 1997	March 1999	0.33	0.97	1.9	
12-mm receivers	Feb 1997	Feb 2000	0.20	Feb 1997	Jun 1999	0.10	0.5	0.8	prototype only
Strategic									
InP MMIC devices	Jan 1998	Jan 2001	1.38	Jan 1998	in progress	0.89 (to date)	>1.0	>0.6	
SKA	Jan 1999	July 2003	1.44	July 1999	in progress	0.23 (to date)	–	–	
External Contracts									
Broadband Correlator	Jun 1996	Jun 1999	0.2	Jun 1996	March 2000	0.2	1.0	1.3	

Appendices

I: Glossary and abbreviations

3-mm band	The 85–115 GHz band of radio frequencies.
AAO	Anglo-Australian Observatory.
AAT	Anglo-Australian Observatory 4-m optical telescope.
ACC	Antenna Control Computer (used in the ATCA).
AMiBA	Array for Microwave Background Anisotropy.
AIPS	Astronomical Image Processing System developed by NRAO (USA) for synthesis radio images.
aips++	An object-oriented data processing system for radio telescopes, largely implemented in C++, which is being constructed by an international consortium of leading radio astronomy observatories.
ALMA	Atacama Large Millimetre Array. A US/European/Japanese project to build a large-mm array in Chile.
APT	The Asia-Pacific Telescope, an organization of Asian/Pacific observatories, to coordinate VLBI observations in the region.
ARC	The Australian Research Council, which funds university research in Australia.
ASA	Astronomical Society of Australia.
AT	The Australia Telescope, consisting of the six-element Compact Array at Narrabri, NSW, the 64-metre antenna at Parkes, NSW, and the 22-metre antenna at Mopra, NSW.
ATCA	The Australia Telescope Compact Array, consisting of six 22-metre antennas near Narrabri, NSW.
ATNF	The Australia Telescope National Facility, a National Facility for radio astronomy managed by CSIRO as a CSIRO division.
ATOMS	Australia Telescope Observatory Management System: object-oriented real-time telescope control software.
AT Steering Committee	A committee of leading Australian and overseas technical and scientific experts who provide policy advice to the Director of the ATNF, and are appointed by the Minister for Science.
ATUC	The AT User Committee, representatives (~20) of the Australian astronomical community, who provide feedback to the Director of the ATNF on operations and development issues.
Ceduna	A 30-metre antenna given to the University of Tasmania by Telstra, for use by the radio astronomy community. It is situated at Ceduna, South Australia.
CMB	Cosmic Microwave Background.
CSIRO	Commonwealth Scientific and Industrial Research Organization.
CTIP	CSIRO Telecommunications and Industrial Physics, a division of CSIRO partly co-located with the ATNF.
DAS	Data Acquisition Systems used for VLBI recording systems.
DASI	Degree Angular Scale Interferometer.
DSN	Deep Space Network.
EEO	Equal Employment Opportunity.
ESA	European Space Agency.
ESO	European Southern Observatory.
ESP	Executive Special Projects. A funding source set up by CSIRO to be used for outstanding, high-profile, high-risk projects.
GaAs MMIC	Gallium Arsenide Monolithic Microwave Integrated Circuit.
GPS	Global Positioning System.

Appendices

HALCA	Highly Advanced Laboratory for Communications and Astrophysics. The Japanese VLBI satellite, previously called VSOP, launched on 12 February 1997.
HBT	Heterojunction Bipolar Transistor.
HIPASS	HI Parkes All Sky Surveys using the 21-cm multibeam system.
IAU	International Astronomical Union.
InP MMIC	Indium Phosphide Monolithic Microwave Integrated Circuit, a key technology for building our mm receivers; has better performance than GaAs at high frequencies.
ISAS	Institute of Space and Aeronautical Science (Japan).
ITU	International Telecommunication Union.
IUCAF	The Inter-Union Commission for the Allocation of Frequencies.
LBA	Long Baseline Array for Australian VLBI observations.
LMC	Large Magellanic Cloud. The LMC is the nearest galaxy to our own, and is a key target for the AT. It is visible only from the southern hemisphere.
LNA	Low Noise Amplifier.
LO	Local Oscillator.
MIRIAD	Multichannel Image Reconstruction Image Analysis and Display. A data-processing package for synthesis data, developed by Bob Sault, ATNF.
MMIC	Monolithic Microwave Integrated Circuit.
MNRF	Major National Research Facilities. An Australian Federal Government program to fund the development of National Facilities.
Mopra	The 22-m AT antenna at Mopra, near Coonabarabran, NSW.
Narrabri	The site of the AT Compact Array in northern New South Wales.
NASA	National Aeronautics and Space Administration. The US space agency.
NOAA	National Oceanographic and Atmospheric Administration.
OCC	Observatory Computer Committee (ATNF).
OECD	Organisation for Economic Cooperation and Development.
Parkes	The site of the AT 64-m antenna in central NSW.
RFI	Radio Frequency Interference.
S2	Video tape recorder used for VLBI.
SEST	Swedish-ESO Submillimetre Telescope in Chile.
SETI	Search for Extraterrestrial Intelligence.
SKA	Square Kilometre Array (previously referred to as the 1kT).
SMA	Spectrum Management Agency (Australia).
SMC	Small Magellanic Cloud. The SMC is a key target for the AT. It is visible only from the southern hemisphere.
Space VLBI	A technique whereby one antenna is carried on a spacecraft, thereby increasing the angular resolution available to radio astronomy by an order of magnitude.
TAC	Australia Telescope Time Assignment Committee, appointed by the Steering Committee.
TCS	Telescope Control System.
Tidbinbilla	NASA's tracking station located near Canberra, managed by CSIRO Telecommunications and Industrial Physics for NASA, and part of NASA's Deep Space Network.
VLBI	Very Long Baseline Interferometry. A technique where signals from widely separated antennas are correlated to provide very high spatial resolution images.
VSOP	VLBI Space Observatory Program.
WRC	World Radiocommunication Conference.
ZOA	Zone of Avoidance. The region of sky obscured by our galaxy. Also the name of the Parkes HI multibeam survey of this region.