

## VLA Utilization Report December 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA307	Araya, E. Hofner, P. Goss, W.M. Kurtz, S. Linz, H. Olmi, L.	NMIMT NMIMT NRAO-Socorro UNAM MPIA CNR	A Comprehensive Study of the H2CO 6cm Maser in G23.71-0.20: II	1.3	24	1.40
AB1190	Birzan, L. McNamara, B. Carilli, C. Rafferty, D. Nulsen, P. Wise, M.	Ohio U. Ohio U. NRAO-Socorro Ohio U. CfA MIT-CSR	Radio sources in clusters and a group with X-Ray cavities	3.6, 6, 20	17, 29	11.53
AB1237	Busquet, G. Estalella, R. Girart, J. Palau, A.	Barcelona Barcelona IEEC Barcelona	Multiple YSOs in the low mass star forming region IRAS 00213+6530		2	0.37
AC805	Croston, J. Hardcastle, M. Kraft, R.	Hertfordshire Hertfordshire CfA	Shock heating in the nearby radio galaxy NGC 3801	6, 20	28	.48
AC819	Claussen, M. Bond, H. Evans, A. Gehrz, R. Healy, K. Rushton, M. Starrfield, S. Woodward, C.	NRAO-Socorro STScI Keele Minnesota ASU Keele ASU Minnesota	Monitoring the SiO masers in V838 Monocerotis	0.7, 1.3	28	.80
AC826	Curiel, S. Ho, P.T.P. Patel, N. Hiriart, D.	UNAM CfA CfA IA-UNAM	Imaging high-velocity SiO emission in YSO Cep A/HW2	0.7 line	26	9.10
AC827	Curiel, S. Girart, J.M.	UNAM Barcelona	Structure of protostellar systems in L1448N IRS 3	0.7, 1.3	11	7.14
AC832	Chomiuk, L. Wilcots, E.	Wisconsin Wisconsin	Systematic survey of SN remnants in star forming galaxies	6	6,7,10,11,18,22,24	37.96
AC835	Chen, X. Wright, E.	Calif.-Los Angeles Calif.-Los Angeles	Snapshots on 2 unidentified WMAP point sources	3.6	5	1.38
AC836	Chen, X. Wright, E.	Calif.-Los Angeles Calif.-Los Angeles	Multi-wavelength observations of 3 identified WMAP point sources	3.6	31	1.78
AD534	Darling, J. Baker, A.	Colorado Maryland	The Formaldehyde Silhouettes of Two EMGs Against the CMB	1.3, 3.6	1, 2	23.22
AD537	Darling, J. Stocke, J. Butler, B.	Colorado Colorado NRAO-Socorro	Transit of Enceladus Across the Southern Radio Lobe of 3C228	20	16	6.09
AD539	Donovan, J. vanGorkom, J. Schiminovich, D. Costerloo, T. Serra, P. Hibbard, J.	Columbia Columbia Columbia ASTRON Groningen NRAO-CV	HI Kinematics in Star Forming Rings	20	7, 9	17.24
AE160	Eyres, S. Bode, M. O'Brien, T. Evans, N. Muxlow, T. Davis, R. Porcas, R.	Central Lancashire John Moores Jodrell Bank Texas Jodrell Bank Jodrell Bank MPIfR	Monitoring observations of RS Oph in decline	1.3, 2, 6, 20 EXPLORE	4, 4, 17, 17, 18	5.13
AG723	Giovannini, G. Feretti, L. Govoni, F. Murgia, M. Orru, E.	Bologna Bologna Bologna Bologna Bologna	Symmetric double relics in Abell 1240 and Abell 2345	20, 90	8	15.97
AG724	Gitti, M. Feretti, L. McNamara, B.	Ohio U. Bologna Ohio U.	Structure of diffuse emission from cooling flow clusters	20, 90	23	8.22
AG728	Dubner, G. Bykov, A. Giacani, E. Krassilchtch, A. Reynoso, E. Uvarov, Y.	IAFE IOFFE IAFE IOFFE IAFE IOFFE	Nature of hard X-ray source detected by INTEGRAL in the Gamma-Cygni SNR	20	9,11,12	4.49
AG729	Govoni, F. Markevitch, M. Murgia, M.	Bologna CfA Bologna	Deep VLA observations of relaxed clusters of galaxies	20	26	6.94

## VLA Utilization Report December 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AG733	Gallimore, J. Axon, D. Baum, S. O'Dea, C.	Bucknell RIT Rochester Rochester	Radio relics of radio quiet AGNs	6	9,13	4.53
AG736	Geha, M. Blanton, M. West, A.	Carnegie New York Univ. Calif.-Berkeley	A Test of Gas Stripping in Low Mass Galaxies	20	1	3.83
AH913	Helfand, D. Becker, R. White, R.	Columbia Calif.-Davis STScI	MAGPIS: A multi-array Galactic Plane imaging survey	20	30, 31	14.79
AH918	Hunter, D. Elmegreen, B. Simpson, C. Nordgren, T.	Lowell Obs. IBM Florida Int. Redlands U.	Testing a model of star formation for dwarf galaxies	20	14, 16	17.28
AH921	Helfand, D. Camilo, F. Zimmerman, N. Halpern, J. Ransom, S. Reynolds, J.E.	Columbia Columbia Columbia Columbia NRAO-CV ATNF	Monitoring the Remarkable Transient AXP XTE J1810-197	6, 20	7	0.97
AI121	Iverson, R.J. Rieke, G. Dunlop, J. Owen, F. Blain, A.W. Hasinger, G. Szokoly, G. Donley, J. Ibar, E.	ROE Arizona ROE NRAO-Socorro Caltech MPIA MPE Arizona IfA	Imaging the XMM/Newton and SHADES fields in Lockman Hole at 20cm	20	12	3.70
AK634	Kulkarni, S. Fox, D. Frail, D.	Caltech Penn State NRAO-Socorro	Long and short of radio afterglows in the Swift Era	0.7, 20	9,12,19,20,2 2,23	9.12
AK642	Krejny, M. Novak, G. Marrone, D. Shinnaga, H. Yusef-Zadeh, F.	Ohio U. Northwestern Harvard Caltech Northwestern	Probing Grain Size in ITS Disks via Multi-wavelength Polarimetry	0.7	18, 19	17.20
AL679	Lang, C. Lazio, T.J.W. Golap, K.	Univ. Iowa NRL NRAO-Socorro	The Galactic Center Magnetic Environment: A 4.9 GHz Polarimetric Survey	6	...	33.98
AM874	Mundell, C.G. Schinnerer, E. Dumas, G. Wilcots, E. Wilson, P. Haan, S.	John Moores MPIA Univ. Liverpool Wisconsin Maryland MPIA	HI Imaging Survey of Seyfert Galaxies - What Makes Galaxies Active?	20	1, 3, 4	22.83
AM877	Miller-Jones, J. Fender, R. Gallo, E. Markoff, S. Russell, D.	Amsterdam Southampton Calif.-Santa Barbara Amsterdam Southampton	Low frequency obs. of extended emission surrounding X-ray binary jets	400	3,15,16,17	4.36
AM880	Meier, D.S. Turner, J. Schinnerer, E.	NRAO-Socorro Calif.-Los Angeles MPIA	Mapping the Dense Star Forming Cores in M 51	0.7	19, 21	13.82
AR606	Ramsay, G. Wu, K. Slee, O.B. Brocksopp, C.	MSSL/UCL Univ. College-London ATNF MSSL	Searching for magnetic interaction in ultra-compact binaries	6	28	8.87
AS873	Stocke, J. Hart, Q.	Colorado Astro & Space Ast.	Structure of AGN in ten clusters of galaxies	20	12, 13	3.97
AS884	Brosch, N. Cannon, J. Giovannelli, R. Haynes, M. Kent, B. Martin, A. Saintonge, A. Salzer, J. Stierwalt, S.	Tel Aviv Wesleyan Cornell Cornell Cornell Cornell Cornell Wesleyan Cornell	Formation and evolution of galaxies with extremely extended HI distributions	20	1,2,5,9,10,1 2,13,14,20,2 1	8.65
AS887	Soderberg, A. Chevalier, R. Frail, D. Kulkarni, S.	Caltech UVA NRAO-Socorro Caltech	Toward an understanding of the progenitors of Type Ibc SN	3.6	15,17,19,20, 21,22	8.23

## VLA Utilization Report December 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AT316	Thuan, T. Izotov, Y.I. Hunt, L.K. Hibbard, J.	Virginia Main Astron. Obs. Arcetri NRAO-CV	Continuum observations of metal-deficient blue compact dwarfs	3.6, 6	22, 23	8.18
AU111	DeZotti, G. Partridge, R. Trigilio, C. Umata, G.	INAF Haverford INAF INAF	Q Band polarization properties of sample of WMAP sources	0.7	5	7.04
AW675	Weiler, K. Immler, S. Lewin, W. Marcaide, J. Panagia, N. Pooley, D. Ryder, S. Sramek, R. Stockdale, C. Van Dyk, S.	NRL NASA MIT Valencia STScI Calif.-Berkeley AAO NRAO-Socorro Marquette Caltech	Core Collapse SN (Type II)	3.5, 90	13	1.85
AW683	Walter, F. Brinks, E. Skillman, E.	MPIA Hertfordshire Minnesota	A New Population of HI Clouds in the M81 Group	20	15, 29, 30	22.44
AW693	Willott, C. Martinez-Sansigre, A. Rawlings, S.	Hertzberg-Victoria Oxford Oxford	High resolution molecular gas imaging in the dust-reddened quasar 3C318	0.7	22	5.46
AZ169	Zapata, L.A. Ohashi, N.	CfA ASIAA	Dust-size evolution in the Circumstellar Disk around AB Aur?	0.7	14	1.79
BB209	Boyce, E. Hewitt, J. Myers, S.T.	MIT MIT NRAO-Socorro	Observations of gravitational lens central images	3.6, 6 Phased array VLBI	2	3.13
BB228	Bietenholz, M.F. Bartel, N. Rupen, M.	York U. York U. NRAO-Socorro	Evolution of central source in SN 1986J	1.3, 3.6 Phased array VLBI	3, 10	25.67
BB234	Boyce, E. Winn, J.N. Myers, S.T.	MIT MIT NRAO-Socorro	Investigating the Third Radio Source in B2319+051	6, 20 Phased array VLBI	21	8.94
BM253	Momjian, E. Knudsen, K.K. Carilli, C. Wang, W.-H.	Arecibo MPIA NRAO-Socorro Hawaii	Compact Radio Emission of the Luminous SMG GOODS 850-3 at z=1.8	20 Phased array VLBI	9	6.45
GC028	Conway, J.E. Parra, R. Diamond, P. Lonsdale, C.J. Hurley, R. Thrall, H. Lonsdale, C.J. Smith, H.E.	Onsala Onsala Jodrell Bank Haystack Onsala Jodrell Bank Caltech-IPAC CfA	Sensitive high frequency observations of the compact sources in Arp 220	2, 3.6 Phased array VLBI	28	8.12
S70601	Forman, W.R. Jones, C. Charasov, E. Eilek, J. Owen, F.	CfA CfA MPA NMIMT NRAO-Socorro	Chandra/VLA observations of galaxy IC 1262	90	12	1.37
DYNAM1			Dynamic scheduling			177.0
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Christmas and New Years Shutdowns Software		24, 24, 31,	37.0 62.0 12.0 41.0 38.0

**VLA  
Utilization Report  
December, 2006**

	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	440.56	70.27
Maintenance	62.00	9.89
Test/Calc	83.35	13.30
Shutdown	41.00	6.54
Total	626.91	100.00

Average downtime measured in antenna hours was 21.00% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Antenna Pads	0.08
Cryogenics	0.48
Dynamic	40.01
Electrical	0.77
EVLA	47.75
FOC/ROT	0.91
Front End	0.97
HVAC	0.12
Interference	0.20
LO/IF	2.29
Mechanical	0.04
Obs. Program	0.07
Other	1.23
Power Supply	0.03
Servo	1.04
VLA Computers	0.25
VLA Correlator	1.62
Weather	2.14

VLA Utilization Report November 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB1219	Brogan, C.L. Kassim, N.E.	NRAO-CV NRL	Probing the Nature of the W51B/W51C Interface Using 4m and HI Data	90, 400	13	3.56
AB1221	Borthakur, S. Verdes-Montenegro, L Yun, M.	UMass IAA UMass	High resolution imaging to unveil nature and origin of HI in HCGs	20	1,2,6	7.38
AB1222	Basu-Zych, A. Schiminovich, D. Johnson, B. Hoopes, C. Heckman, T.	Columbia Columbia Columbia Johns Hopkins Johns Hopkins	Local Analogs to LBGs--Disentangling Thermal from Synchrotron Emission	6	14, 16	9.17
AC805	Croston, J. Hardcastle, M.H. Kraft, R.	Hertfordshire Hertfordshire Cfa	Structure and spectrum of radio galaxy NGC 3801	6	26	0.45
AC819	Claussen, M. Boond, H. Evans, A. Gehrz, R. Healy, K. Rushton, M. Starrfield, S. Woodward, C.	NRAO-Socorro STScI Keele Minnesota ASU Keele ASU Minnesota	Monitoring the SiO masers in V838 Monocerotis	0.7, 1.3	15, 16	3.14
AC825	Chomiuk, L. Wilcots, E. Doane, N. Sanders, W. Zweibel, E.	Wisconsin Wisconsin Wisconsin Wisconsin Wisconsin	Imaging X-ray super bubbles in nearby spiral galaxies	6	11, 12, 13	19.03
AC839	Cohen, A.S. Kassim, N.E. Kronberg, P.	NRL NRL Los Alamos	A Deep Probe of Diffuse, Steep-Spectrum Emission in the Coma Cluster	400	3, 4, 5	23.64
AC842	Cannon, J.M. Dolphin, A. Kennicutt, R. Lee, J. Skillman, E. Walter, F. Weisz, D.	Wesleyan Arizona Cambridge Arizona Minnesota MPIA Minnesota	Multiwavelength Observations of the Post-Starburst Dwarf Galaxy DDO 165	20	19	3.69
AC853	Creel, B. Claussen, M. Pihlstrom, Y.	UNM NRAO-Socorro UNM	OH and H2O Maser emission survey of young planetary nebulae	1.3	17,19	1.24
AC867	Chandra, P. Chevalier, R. Patat, N.	UVA UVA ESO	SN 2006X: Circumstellar medium of a Type Ia SN	3.6	17,29	1.81
AE160	Eyres, S. Bode, M. O'Brien, T. Evans, N. Muxlow, T. Davis, R. Porcas, R.	Central Lancashire John Moores Jodrell Bank Keele Jodrell Bank Jodrell Bank MPIfR	Monitoring observations of RS Oph in decline	1.3, 2, 6, 20 EXPLORE	2, 3, 19, 22, 22	5.26
AF422	Furuya, R. Cesaroni, R. Shinnaga, H.	Caltech Arcetri Caltech	The cluster of high-mass protostars in G19.61-0.23	0.7, 6	18	7.76
AG715	Gaensler, B.M. Gelfand, J. Taylor, G.B. Kouveliotou, C. Eichler, D. Lyubarsky, Y. Granot, J. Ramirez-Ruiz, E. Wijers, R. Fender, R.P. Garrett, M.A.	Cfa Cfa UNM NASA-MSFC Ben Gurion Univ. Ben Gurion Univ. KIPAC IAS Amsterdam Southampton JIVE	Imaging and monitoring of afterglow of SGR 1806-20	3.6, 6, 20	11	4.80
AG730	Greene, J. Ulvestad, J.S. Ho, L.C.	Cfa NRAO-Socorro Carnegie Obs.	The Nature of the Central Massive Dark Object in the Globular Cluster G1	3.6	24, 25	18.83
AG736	Geha, M. Blanton, M. West, A.	Carnegie New York Univ. Calif.-Berkeley	A Test of Gas Stripping in Low Mass Galaxies	20	22, 30	14.62
AG738	vanderWerf, P. Goss, M. O'Dell, C.R.	Leiden NRAO-Socorro Vanderbilt	New search for higher velocity HI cloudlets in Orion A	20	9,19	7.38

VLA Utilization Report November 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH921	Helfand, D. Camilo, F. Zimmerman, N. Halpern, J. Ransom, S. Reynolds, J.E.	Columbia Columbia Columbia Columbia NRAO-CV ATNF	Monitoring the Remarkable Transient AXP XTE J1810-197	6, 20	10	0.78
AJ329	Johnson, K. Bandiera, R. Hunt, L. Ulvestad, J.	Uva Arcetri Arcetri NRAO-Socorro	Radio Supernova in Ultra-low metallicity galaxy SBS0335-052	3.6	9	1.39
AK634	Kulkarni, S. Fox, D. Frail, D.A.	Caltech Penn State NRAO-Socorro	Long and short of radio afterglows in the swift era	20, 0.7	22,25,26,27,28,29	9.74
AK640	Kepley, A. Wilcots, E. Robshaw, T. Heiles, C. Zweibel, E.	Madison Wisconsin Calif.-Berkeley Calif.-Berkeley Wisconsin	Magnetic Fields in Irregular Galaxies: NGC 1156 and Holmberg II	20	2, 5	12.63
AK641	Kent, B. Stierwalt, S. Haynes, M. Giovannelli, R. Saintonge, A. Martin, A.	Cornell Cornell Cornell Cornell Cornell Cornell	ALFALFA Dark Galaxies in the Virgo Cluster	20	24, 25	18.42
AL679	Lang, C. Lazio, T.J.W. Golap, K.	Univ. Iowa NRL NRAO-Socorro	The Galactic Center Magnetic Environment: A 4.9 GHz Polarimetric Survey	6	19	5.53
AL681	Linz, H. Henning, T. Hofner, P. Araya, E. Stecklum, B.	MPIA MPIA NMIMT NMIMT Thuringian	The puzzle of BN-type massive YSOs - A case study on M8E-IR	0.7, 1.3, 3.6	12, 17	8.27
AMB62	Monnier, J.D. Tuthill, P.G. Danchi, W. Greenhill, L.	Michigan Sydney U. NASA-GSFC CfA	Monitoring the colliding wind WR 112	3.6	25	1.38
AMB71	Marti, J. Paredes, J.	Jaen UB	Microquasar powering the unidentified gamma-ray source TeV J2032+4130?	20	21,28	5.42
AMB73	Boeker, T. Schinnerer, E. Martini, P.	ESA MPIA Ohio State	Testing the Schmidt Law at the End of the Hubble Sequence	20	3	6.78
AMB74	Mundell, C.G. Schinnerer, E. Dumas, G. Wilcots, E. Wilson, P. Haan, S.	John Moores MPIA Univ. Liverpool Wisconsin Maryland MPIA	HI Imaging Survey of Seyfert Galaxies - What Makes Galaxies Active?	20	16, 30	3.69
AO210	Orienti, M. Dallacasa, D. Stanghellini, C.	IRA Bologna IRA	High frequency peakers: blazars or newly born radio sources?	20	14,19	9.43
AO216	Ofek, E.	Caltech	Brightest SN or New type of transient?	20	20,23	2.28
AR601	Riechers, D. Walter, F. Weiss, A. Carilli, C. Bertoldi, F.	MPIA MPIA MPIFR NRAO-Socorro Bonn Univ.	Search for CO(1-0) emission in the z=4.4 QSO BRI 1335-0417	1.3 line	18, 27	12.49
AR603	Rupen, M. Dhawan, V. Mioduszewski, A.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	VLA Monitoring of and triggered response to X-ray binaries, transients, and related sources	0.7, 20	4,12,13,17,20	3.40
AS879	Testi, L. Stelzer, B.	Arcetri Palermo	Search for radio emission from ultracool flare star LP 412-31	3.6	5,7,9	10.16
AS881	Suarez, O. Gomez, J.F. Morata, O. Miranda, L.F. Gomez, Y. Torrelles, J.M. Anglada, G.	ESA-LAEFF IAC ESA-LAEFF IAA UNAM IEEC-Barcelona IAA	H2O and OH masers in recently detected H2O-maser-emitting planetary nebulae	1.3, 20	22	2.46

## VLA Utilization Report November 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS882	Sharp, M. Miller, A. Pryke, C. Woody, D. Leitch, E.M. Muchovej, S. Mroczkowski, A. Hennessy, R. Greer, C. Loh, M. Joy, M. Carlstrom, J.E.	Chicago Columbia Univ. Chicago Caltech Chicago Columbia Columbia Chicago Chicago Chicago NASA-MSFC Chicago	Identification of Point Source Contamination in SZA Anisotropy Fields	3.6	9, 10, 11, 17	31.86
AS883	Saintonge, A. Salzer, J. Cannon, J.M. Giovannelli, R. Haynes, M. Kent, B. Stierwalt, S. Brosch, N. Martin, A.	Cornell Wesleyan Wesleyan Cornell Cornell Cornell Cornell Tel Aviv University Cornell	Star Formation in Nearby Very Low Surface Brightness Dwarf Galaxies	20	13, 19	8.76
AS887	Soderberg, A. Chevalier, R. Frail, D.A. Kulkarni, S.	Caltech UVA NRAO-Socorro Caltech	Toward an understanding of the progenitors of Type Ibc SN	3.6	19,27,28	4.23
AT331	Testi, L. Stelzer, B.	Arcetri Palermo	Centimeter continuum emission in Herbig Ae/Be stars	6	15	1.77
AT332	Tun, S. Gary, D.	New Jersey Tech New Jersey Tech	Solar Active Region Studies Using Coordinated VLA and OVSA Observations	2, 3.6, 6, 20	10, 26	10.49
AT333	Tripp, T. Bowen, D. Jenkins, E. Prochaska, J. Song, L. Yun, M.	UMASS Princeton Princeton Calif.-Santa Cruz UMASS UMASS	Mapping the HI Distribution in the unique, transforming spiral galaxy NGC 4319	20	10,14,17,18, 19	12.91
AW675	Weiler, K. Immler, S. Lewin, W. Marcaide, J.M. Panagia, N. Pooley, D. Ryder, S. Sramek, R. Stockdale, C. Van Dyk, S.	NRL NASA MIT Valencia STScI Calif.-Berkeley AAO NRAO-Socorro Marquette Caltech	ToO Obs. of core collapse SN	3.5	13,29	2.21
AY171	Yun, M. Borthakur, S. Verdes-Montenegro, L.	Massachusetts UMass IAA	Tracing Large Scale Shocks in Three Hickson Compact Groups	20	12	8.47
BB231	Braatz, J. Condon, J. Greenhill, L. Henkel, C. Lo, K.Y. Reid, M.	NRAO-CV NRAO-CV CfA MPIfR NRAO-CV CfA	Megamaser cosmology project	1.3	17	0.92
BD114	Dougherty, S. Pittard, J. O'Connor, E. Beasley, A.J. Claussen, M.J.	DRAO Leeds UPEI NRAO-Santiago NRAO-Socorro	Structural monitoring of colliding-wind binary WR140	... Single antenna VLBI	6, 6	12.05
BM251	Miller, N. Wrobel, J. Ho, L.C.	Johns Hopkins NRAO-Socorro Carnegie Obs.	HSA Observations of the Intermediate-Mass Black Hole in J170902+641728	20 Phased array VLBI	2	3.30
GA023	Anderson, J.M. Noordam, J.	JIVE Dwingeloo	Wide-field ionospheric calibration for VLBI	90 Single antenna VLBI	27, 27	4.35
GC028	Conway, J.E. Parra, R. Diamond, P. Lonsdale, C.J. Hurley, R. Thrall, H. Lonsdale, C.J. Smith, H.E.	Onsala Onsala Jodrell Bank Haystack Onsala Jodrell Bank Caltech-IPAC CFA	Sensitive high frequency observations of the compact sources in Arp 220	2, 3.6 Phased array VLBI	28	10.15

VLA Utilization Report November 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
S30803	Migliari, S. Tomsick, J. Gallo, E. Maccarone, T. Fender, R. Nelemans, G. Jonker, P.	Amsterdam Calif.-San Diego Calif.-Santa Barbara Southampton Southampton IoA CfA	Multi-wavelength observations of compact jets in a neutron star X-ray binary	3.6, 6	1, 1	11.18
S80394	Sanders, J. Fabian, A. Taylor, G. Dunn, R.	Cambridge Cambridge UNM Cambridge	Cluster and AGN interaction in 2A 0335+096	3.6, 6	20	3.70
S80576	Forman, W. Sun, M. Baum, S. O'Dea, C. Jones, C.	CfA MSU Rochester Rochester CfA	Interaction of AGN Outbursts with their Environments	6, 20	26	3.69
DYNAMI			Dynamic scheduling			0.95
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Thanksgiving Shutdown Software Students		22, 23 2	43.0 71.5 12.0 26.5 46.0 1.51



**VLA  
Utilization Report  
November, 2006**

	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	379.94	67.06
Maintenance	71.50	12.62
Test/Calc	88.60	15.64
Shutdown	26.50	4.68
Total	566.54	100.00

Average downtime measured in antenna hours was 28.49% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Cryogenics	0.55
Dynamic	48.20
Electrical	0.02
EVLA	34.51
FOC/ROT	0.01
Front End	0.42
HVAC	0.63
Interference	4.49
LO/IF	0.67
Mechanical	0.02
Monitor/Control	0.54
Obs. Program	0.71
Other	0.09
Servo	1.18
Site Power	0.03
VLA Computers	1.89
VLA Correlator	5.27
VLBA Recorders	0.01
Weather	0.76

## VLA Utilization Report October 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB1187	Brogan, C.L. Kassim, N.E. Lazio, T.J.W. Nord, M.	NRAO-CV NRL NRL NRL	Galactic center mosaic at 330 MHz	90	2, 7, 13	16.26
AB1217	Estalella, R. Sanchez-Monge, A. Busquet, G. Palau, A.	Barcelona Barcelona Barcelona Barcelona	Interaction in a closely-packed environment	3.6, 6	26	1.83
AB1219	Brogan, C.L. Kassim, N.E.	NRAO-CV NRL	Probing the Nature of the W51B/W51C Interface Using 4m and HI Data	90, 400	24	3.42
AB1221	Borthakur, S. Yun, M. Verdes-Montenegro, L	UMass UMass IAA	High-resolution Imaging to Unveil nature & origin of HI in HCGs	20	22, 23, 26	34.93
AC819	Claussen, M. Bond, H. Evans, A. GEhrz, R. Healy, K. Rushton, M. Starrfield, S.	NRAO-Socorro STScI Keele University Minnesota ASU Keele University ASU	Monitoring the SiO masers in V838 Monocerotis	0.7, 1.3	17,19	3.61
AC826	Curjel, S. Hiriart, D. Ho, P.T.P. Patel, N.	UNAM UNAM CfA CfA	Tracking down the Thermal High-velocity SiO emission in the high-mass YSO Cep A/HW2	0.7	13	1.80
AC840	Clarke, T.E. Schmitt, H.R. Kassim, N.E. Perley, R. Taylor, G.B.	NRL NRL NRL NRAO-Socorro UNM	Low Frequency Structure of the Largest Extragalactic Radio Source (Cen A)	90, 400	14, 15	3.77
AC841	Cannon, J.M. Rosenberg, J. Salzer, J.	Wesleyan CfA Wesleyan	Exploring the Properties of Extremely Compact Dwarf Galaxies	20	31	8.83
AC853	Creek, B. Clausen, M. Pihlstrom, Y.	UNM NRAO-Socorro UNM	OH and H2O maser emission survey of young planetary nebulae	1.3	1,8,10,13,16	8.60
AD530	DeLaney, T. Kassim, N.E. Gaensler, B.M.	CfA NRL CfA	Spectral index imaging of SN 1006	90, 400	24	2.95
AD534	Darling, J. Baker, A.	Colorado Maryland	The Formaldehyde Silhouettes of Two EMGs Against the CMB	1.3, 3.6	16, 17, 20	16.37
AD539	Donovan, J. vanGorkom, J. Schiminovich, D. Oosterloo, T. Serra, P. Hibbard, J.	Columbia Columbia Columbia ASTRON Groningen NRAO-CV	HI Kinematics in Star Forming Rings	20	6, 8	8.75
AG716	Giacintucci, S. Venturi, T. Brunetti, G. Cassano, R. Dallacasa, D. Bardelli, S.	INAF Bologna Bologna Bologna Bologna Bologna	Radio galaxy in cluster A521	3.6, 6	4	3.88
AG724	Gitti, M. Feretti, L. McNamara, B.	Ohio U. Bologna Ohio U.	Structure of diffuse emission from cooling flow clusters	20, 90	8	4.24
AG729	Govoni, F. Markevitch, M. Murgia, M.	Bologna CfA Bologna	Deep VLA observations of relaxed clusters of galaxies	20	21, 22, 23, 28	42.20
AG731	Giacintucci, S. Venturi, T. Brunetti, G. Cassano, R. Mazzotta, P. Bardelli, S. Dallacasa, D.	INAF Bologna Bologna Bologna Roma Tor Vergata Bologna Bologna	Magnetic field in the giant radio halo cluster RXCJ2003.5-2323 at z=0.317	20	3, 9	11.5
AG735	Gross, C. Clarke, T.E. Dickel, J. Kassim, N.E. Weiler, K. Brogan, C.L.	NRL NRL New Mexico NRL NRL NRAO-CV	74 MHz Observations of Supernova Remnant IC443	90, 400	27	7.72
AG738	vanderWerf, P. Goss, M. O'Dell, C.R.	Leiden NRAO-Socorro Vanderbilt Universit	New search for higher velocity HI cloudlets in Orion A: Repeat 1984 run	20	29	3.60

VLA Utilization Report October 2006

Progrm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH919	Hankins, T. Shearer, A. Sheckard, J. Eilek, J.	NMIMT Irish Center Comp. NMIMT NMIMT	Joint VLA and Integral observations of the Crab Nebula Pulsar	20	10	2.95
AH921	Helfand, D. Camilo, F. Zimmerman, N. Halpern, J. Ransom, S. Reynolds, J.E.	Columbia Columbia Columbia Columbia NRAO-CV ATNF	Monitoring the Remarkable Transient AXP XTE J1810-197	6, 20	8	.80
AH923	Hewitt, J.W. Yusef-Zadeh, F.	Northwestern Northwestern	the Nature of Extended OH(1720 MHz) Maser Emission Toward Supernova Remnants	20	29, 30	18.51
AK634	Kulkarni, S. Fox, D. Frail, D.A.	Caltech Penn State NRAO-Socorro	Long and short of radio afterglows in the Swift Era	0.7, 20	1,2,4,31	4.67
AK637	Klamer, I. Ekers, R. Hunstead, D.	ATNF ATNF Sydney U.	325MHz observations of high-redshift radio galaxies	90	8, 13, 14, 15	24.90
AMB73	Boeker, T. Schinnerer, E. Martini, P.	ESA MPIA Ohio State	Testing the Schmidt Law at the End of the Hubble Sequence	20	8, 10, 12, 15	16.52
AP506	Pisano, D.J. Garland, C. Guzman, R. Gallego, J. Castander, F.	NRL Castleton State Florida Florida Catalunya	HI imaging of local Luminous Compact Blue Galaxies	20 line	28	3.72
AR603	Rupen, M. Dhawan, V. Mioduzewski, A.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	VLA Monitoring of and triggered response to X-ray binaries, transients, and related sources	0.7, 20	1,2,5,6,7,12,20,25,26,27,28	21.31
AS879	Testi, L. Stelzer, B.	Arcetri Palermo	Search for radio emission from ultracool flare star LP 412-31	3.6	31	2.58
AS881	Suarez, O. Gomez, J.F. Morata, O. Miranda, L.F. Gomez, Y. Torrelles, J.M. Anglada, G.	ESA-LAEFF IAC ESA-LAEFF IAA UNAM IEEC-Barcelona IAA	H2O and OH masers in recently detected H2O-maser-emitting planetary nebulae	1.3, 20	6, 15	3.12
AS886	Spekkens, K. Sellwood, J. Williams, T.	Rutgers/NRAO Rutgers Rutgers	Cold Dark Matter and the Dynamics of Nearby Spiral Galaxies	20	2, 2, 5, 6, 9, 13	44.48
AS887	Soderberg, A. Chevalier, R. Frail, D.A. Kulkarni, S.	Caltech UVA NRAO-Socorro Caltech	Toward an understanding of the progenitors of Type Ibc SN	3.6	6,7,14,15,23,26	7.28
AT331	Testi, L. Stelzer, B.	Arcetri Palermo	Centimeter continuum emission in Herbig Ae/Be stars	1.3, 3.6, 6	1, 1	10.19
AW687	Wilcots, E. Hess, K.	Wisconsin U. Wisconsin	Fossil Halos and the Heating of the Intragroup Medium	90, 400	21, 24	11.80
S70810	Miller, J. Grindlay, J. vanderKlis, M. Wijnands, R. Mendez, M. Raymond, J. Rupen, M. Steeghs, D. Homan, J. Lewin, W.H.G.	Michigan Cfa Amsterdam Amsterdam Utrecht-SRON Cfa NRAO-Socorro Cfa MIT MIT	Chandra/VLA observations of neutron star binaries	3.6, 6	16	1.85
DYNAMI	Staff	NRAO	Dynamic scheduling Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Software Students General tests		14, 14	193.6 34.0 62.0 12.0 57.5 3.0 6.0

**VLA  
Utilization Report  
October, 2006**

	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	365.63	64.25
Maintenance	62.00	10.90
Test/Calc	141.41	24.85
Total	569.04	100.00

Average downtime measured in antenna hours was 32.37% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Antenna Pads	0.36
Cryogenics	0.11
Dynamic	27.90
Electrical	7.04
EVLA	39.04
Feed	0.05
FOC/ROT	0.25
Front End	1.42
Interference	4.80
LO/IF	0.26
Monitor/Control	0.27
Obs. Program	0.01
Other	1.20
Servo	0.39
Site Power	14.29
VLA Computers	2.51
VLA Correlator	0.05
Weather	0.05

## VLA Utilization Report September 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA307	Araya, E. Hofner, P. Goss, W.M. Kurtz, S. Linz, H. Olmi, L.	NMIMT NMIMT NRAO-Socorro UNAM MPIA CNR	A Comprehensive Study of the H2CO 6cm Maser in G23.71-0.20: II	2	21, 24	7.21
AB1205	Bietenholz, M.F. Bartel, N.	York U. York U.	Newly identified plerion G21.5-0.9	6	8	1.84
AB1218	Brunthaler, A. Bower, G. Falcke, H. Henkel, C. Menten, K. Reid, M.	MPIfR Calif., Berkeley ASTRON MPIfR MPIfR CfA	Measuring the orbits of M81 and M82	1.3	4	1.41
AC818	Cheung, C.C. Landt, H.	Stanford CfA	Structure of X-shaped FIRST sources	3.6, 20	1	20.52
AC819	Claussen, M. Bond, H. Evans, A. Gehrz, R. Healy, K. Rushton, M. Starrfield, S. Woodward, C.	NRAO-Socorro STScI Keele Minnesota ASU Keele ASU Minnesota	Monitoring the SiO masers in V838 Moncerotis	0.7, 1.3	14	1.17
AC826	Curiel, S. Ho, P.T.P. Patel, N. Hiriart, D.	UNAM CfA CfA IA-UNAM	Imaging high-velocity SiO emission in YSO Cep A/HW2	0.7 line	11	7.58
AC849	Carlin, J. Clarke, T. Sarazin, C. Sivakoff, G.	Virginia NRL Virginia Virginia	Exploring the outburst history of NGC 533	20	2,4,10	5.30
AC850	Curiel, S.	UNAM	New outburst by the classical TTauri binary system XZ Tau?	0.7	4,19	1.70
AC853	Creel, B. Claussen, M. Pihlstrom, Y.	UNM NRAO-Socorro UNM	OH and H2O maser emission survey of young planetary nebulae	1.3	22,26	3.80
AD534	Darling, J. Baker, A.	Colorado Maryland	The Formaldehyde Silhouettes of Two EMGs Against the CMB	1.3, 3.6	18, 21, 24	20.23
AD539	Donovan, J. vanGorkom, J. Schiminovich, D. Oosterloo, T. Serra, P. Hibbard, J.	Columbia University Columbia Columbia ASTRON Groningen NRAO-CV	HI Kinematics in Star Forming Rings	20	29	5.57
AE157	Eyres, S. Bode, M. O'Brien, T. Evans, W. Davis, R. Worters, H. Porcas, R. Rushton, M.	Central Lancashire John Moores Jodrell Bank Texas Jodrell Bank Central Lancashire MPIfR Keele University	ToO Observations of RS Oph	1.3, 3.6, 6, 20 ToO	1, 6, 11, 17	2.50
AF434	Franco-Hernandez, R. Rodriguez, L.F. Moran, J.	CfA UNAM CfA	Time variability in ultracompact HII region NGC 7538 IRS1	0.7, 2	13	0.02
AF444	Frail, D. Cameron, P. Lane, W.	NRAO-Socorro Caltech NRL	Triggered search for coherent emission from gamma-ray bursts	400	8	0.79

VLA Utilization Report September 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH884	Hoare, M.G. Lumsden, S. Oudmaijer, R. Urquhart, J. Diamond, P.J. Garrington, S. Muxlow, T. Smethurst, S. Gunn, A.G. Spencer, R. Zijlstra, A. Richards, A.M.S. Cotton, W.D. Chandler, C. Shepherd, D. Churchwell, E. Kurtz, S. Mundy, L. Goldsmith, P. Pandian, J. Jackson, J. Shah, R.Y. Moore, T. Dougherty, S. Gledhill, T.M. Fender, R.P. Paredes, J.M. Marti, J.	Leeds Leeds Leeds Leeds Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Manchester Jodrell Bank NRAO-CV NRAO-Socorro NRAO-Socorro Wisconsin UNAM Maryland Cornell Cornell Boston Univ. U. Virginia John Moores DRAO Hertfordshire Southampton Barcelona U. Jaen	The CORNISH survey	6	1, 3, 10, 15	27.86
AH894	Hyman, S. Lazio, T.J.W. Ray, P.S. Kassim, N.E. Wijnands, R. Muno, M.P.	Sweet Briar NRL NRL NRL Amsterdam Calif.-LosAngeles	Monitoring GCRT J1745-3009 and other radio transients in GC	90	2, 28, 29	6.41
AH907	Hunter, D. Simpson, C. Nordgren, T. Elmegreen, B. Brinks, E. Westpfahl, D. Wilcots, E. McIntyre, V. Ostlin, G.	Lowell Obs. Florida Int. Redlands U. IBM Hertfordshire NMIMT Wisconsin Sydney U. Stockholm	HI structure of the Blue Compact Dwarf V112w403	20 line	10	8.53
AH913	Helfand, D. Becker, R. White, R.	Columbia Calif.-Davis STScI	MAGPIS: A multi-array Galactic Plane imaging survey	20	5, 7, 9	22.41
AH917	Helfand, D. Camilo, F. Halpern, J. Zimmerman, N. Ransom, S. Reynolds, J.	Columbia Columbia Columbia Columbia NRAO-CV ATNF	AXP XTE J1810-197	3.6, 6, 20 To0	4	0.86
AH919	Hankins, T. Shearer, A. Sheckard, J. Eilek, J.	NMIMT Irish Center Comp. NMIMT NMIMT	Joint VLA and Integral observations of the Crab Nebula Pulsar	20	30	1.49
AH920	Hallinan, G. Zavala, R. Lane, C. Golden, A. Antonova, A. Doyle, J.G. Brisken, W. Bourke, S. Boyle, R.	NUI, Galway Naval Observatory Galway Ireland-Galway Armagh Armagh NRAO-Socorro NUI Arizona	Simultaneous VLA and Photometric Monitoring Observations of Late Type Dwarfs	3.6, 6	18, 19, 23, 23	27.0
AJ329	Johnson, K. Bandiera, R. Hunt, L. Ulvestad, J.	Virginia Arcetri Arcetri NRAO-Socorro	Radio supernova in ultra-low metallicity galaxy SBS0335-052	3.6	7,8,11,17,18	2.75
AK631	Klaassen, P. Keto, E. Wilson, C.D.	McMaster Univ. Cfa McMaster	Gas kinematics in star forming region K3-50A	1.3 line	14, 16	13.90

## VLA Utilization Report September 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AK634	Kulkarni, S. Fox, D. Frail, D.	Caltech Penn State NRAO-Socorro	Long and short of radio afterglows in the Swift Era	20, 0.7	9,14,25,26,30	3.59
AL665	Leipski, C. Bennert, N. Falcke, H.	Bochum Calif.-Riverside ASTRON	Extended jet emission from radio-quiet quasars	20	8, 9	25.19
AM861	Morganti, R. Tadhunter, C.N. Dicken, D. Oosterloo, T.	ASTRON Sheffield ASTRON ASTRON	Spectra indices of cores of 2 Jy sources surveyed with Spitzer	1.3, 2	2	6.83
AP513	Pihlstrom, Y. Loinard, L. Mioduszewski, A.	UNM UNAM NRAO-Socorro	Accurate maser positions and velocities for VLBA astrometry	1.3	23	0.33
AR591	Rodriguez, L.F. Loinard, L. D'Alessio, P.	UNAM UNAM UNAM	Structure of the protoplanetary disk around HH24MMS	0.7	5	7.91
AR599	Rodriguez, L.F. Trejo-Cruz, A.	UNAM UNAM	Nonthermal jet toward a galactic star formation region	3.6	7	5.25
AR603	Rupen, M. Mioduszewski, A.J. Dhawan, V.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	Monitoring of and triggered response to X-ray transients	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	...	18.20
AR614	Richards, G. Becker, R. Inada, N. Kochanek, C. Oguri, M.	Drexel Calif., Davis Tokyo Ohio State Stanford	Largest separation lensed quasar: SDSS J1029+2623	6	23	1.70
AS846	Soderberg, A. Chevalier, R. Frail, D. Kulkarni, S.	Caltech Virginia NRAO-Socorro Caltech	Enigmatic Type Ibc SN and their mysterious engines	0.7, 1.3	4,7,16,23,26,28,30	5.24
AS873	Stoche, J. Hart, Q.	Colorado Astro & Space Ast.	Structure of AGN in ten clusters of galaxies	20	17	0.20
AT318	Taylor, G.B. Fabian, A. Allen, S. Gentile, G.	UNM Cambridge Stanford SISSA-Trieste	Search for emission in high luminosity clusters	20	6, 8, 11	3.52
AT319	Tarchi, A. Braatz, J. Brunthaler, A. Henkel, C.	Cagliari NRAO-CV MPIfR MPIfR	H2O versus continuum in the megamaser galaxy 3C403	1.3	27	0.79
AT327	Testi, L.	Arcetri	Continuum imaging of the CQ Tau disk	1.3, 3.6	11, 14	5.52
AT331	Testi, L. Stelzer, B.	Arcetri Palermo	Centimeter continuum emission in Herbig Ae/Be stars	1.3, 3.6, 6	30	3.18
AW679	Weiler, K. Stockdale, C.J. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Immler, S. Pooley, D.	NRL Marquette Univ. NRAO-Socorro Caltech-IPAC STScI Valencia MIT NASA-GSFC Calif.-Berkeley	Long term monitoring of radio supernovae	1.3, 2, 3.6, 6, 20	25	10.48
AW695	Wang, R. Bertoldi, F. Carilli, C. Cox, P. Fan, X. Jiang, L. Menten, K. Strauss, M. Walter, F.	NRAO-Socorro Bonn NRAO-Socorro IRAM Arizona Arizona MPIfR Princeton MPIfR	VLA Obs. of optically fainter z=5.85 QSO	20	3	1.74
BB232	Botolzt, D. Driebe, T. Izumiura, H. Johnston, K. Murakawa, K. Ohnaka, K. Witkowski, M.	USNO MPIfR Okayama USNO MPIfR MPIfR ESO	Mapping the water masers associated with the silicate carbon star	1.3	23	0.70
S70218	Lubin, L. Gal, R. Mulchaey, J. McKean, J.P. Fassnacht, C.	Calif.-Davis Calif.-Davis Carnegie Obs. MPIfR Calif.-Davis	Chandra/VLA observations of supercluster at z=0.9	20	4	6.31

VLA Utilization Report September 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
S80394	Sanders, J. Fabian, A. Taylor, G. Dunn, R.	Cambridge Cambridge UNM	Cluster and AGN interaction in 2A 0335+096	3.6, 6	2	3.41
S80576	Forman, W. Sun, M. Baum, S. O'Dea, C. Jones, C.	CfA CfA Rochester Rochester CfA	Interaction of AGN Outbursts with their Environments	6, 20	2	8.75
DYNAMI			Dynamic scheduling			0.52
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Software			34.0 68.0 12.0 53.0



**VLA  
Utilization Report  
September, 2006**

	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	310.22	61.60
Maintenance	68.00	13.50
Test/Calc	125.40	24.90
Total	503.62	100.00

Average downtime measured in antenna hours was 41.09% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Antenna Pads	1.22
Cryogenics	0.61
Dynamic	42.72
Electrical	0.01
EVLA	19.11
FOC/ROT	0.18
Front End	1.98
Interference	1.46
LO/IF	1.54
Mechanical	0.01
Monitor/Control	0.10
Obs. Program	0.28
Other	0.12
Servo	1.48
Site Power	1.46
VLA Computers	0.51
VLA Correlator	27.21

*John MO*

VLA Utilization Report August 2006

*file*

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA301	Argo, M. Muxlow, T. Beswick, R. Pedlar, A. Wills, K.A. Fenech, D.	Manchester Jodrell Bank Jodrell Bank Jodrell Bank Sheffield Manchester	Monitoring of radio SNE and SNR in nearby starbursts	2, 3.6, 6	13, 19	6.90
AB1190	Birzan, L. McNamara, B. Carilli, C. Rafferty, D. Nulsen, P. Wise, M.	Ohio U. Ohio U. NRAO-Socorro Ohio Univ. CfA MIT-CSR	Radio sources in clusters and a group with X-Ray cavities	3.6, 20, 90	6, 8	12.82
AB1213	Bignall, H. Jauncey, D. Kedziora-Chudczer, L. Lovell, J.E.J. Macquart, J.-P. Tzioumis, T.	JIVE ATNF ATNF ATNF NRAO-Socorro ATNF	Coordinated VLA/ATCA monitoring of 10V quasar PKS 1257-326	3.6, 6	8, 9, 10	19.57
AB1223	Brown, A. Brown, J.	Colorado Caltech	Simultaneous cm, mm, and X-ray Observations of the Active Binary Sigma <sup>2</sup> CrB	0.7, 1.3, 2, 3.6, 6, 20	22, 23	10.96
AC819	Claussen, M. Bond, H. Evans, A. Gehrz, R. Healy, K. Rushton, M. Starrfield, S. Woodward, C.	NRAO-Socorro STScI Keele Minnesota ASU Keele ASU Minnesota	Monitoring the SiO masers in Monocerotis	0.7, 1.3	12	1.11
AC845	Clarke, T. Schmitt, H.	NRL NRL	Exploring NGC507's Southern Tail	90	12	3.23
AC848	Carlin, J. Clarke, T. Sarazin, C. Sivakoff, G.	Virginia NRL Virginia Virginia	Exploring Radio Outburst in NGC 533	6	22	3.23
AE157	Eyres, S. Bode, M. O'Brien, T. Evans, N. Davis, R. Worters, H. Porcas, R. Rushton, M.	Central Lancashire John Moores Jodrell Bank Texas Jodrell Bank Central Lancashire MPIfR Keele University	ToO Observations of RS Oph	1.3, 3.6, 6, 20 ToO	7, 8, 9, 23, 24	4.49
AF418	Feretti, L. Dallacasa, D. Giovannini, G. Govoni, F. Murgia, M. Taylor, G.	IRA Bologna Bologna Bologna Cagliari UNM	Polarimetric study of Coma cluster	3.5	7	3.25
AG715	Gaensler, B.M. Gelfand, J. Taylor, G.B. Kouveliotou, C. Eichler, D. Lyubarsky, Y. Granot, J. Ramirez-Ruiz, E. Wijers, R. Fender, R.P. Garrett, M.A.	CfA CfA UNM NASA-MSFC Ben Gurion Univ. Ben Gurion Univ. KIPAC IAS Amsterdam Southampton JIVE	Imaging and monitoring of afterglow of SGR 1806-20	3.6, 6, 20	13	4.43
AG723	Giovannini, G. Feretti, L. Govoni, F. Murgia, M. Orru', E.	Bologna Bologna Bologna Bologna Cagliari	Symmetric double relics in Abell 1240 and Abell 2345	90	5, 16	9.31
AG724	Gitti, M. Feretti, L. McNamara, B.	Ohio U. Bologna Ohio U.	Structure of diffuse emission from cooling flow clusters	20, 90	19	9.46

## VLA Utilization Report August 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH884	Hoare, M.G. Lumsden, S. Oudmaijer, R. Urquhart, J. Diamond, P.J. Garrington, S. Muxlow, T. Smethurst, S. Gunn, A.G. Spencer, R. Zijlstra, A. Richards, A.M.S. Cotton, W.D. Chandler, C. Shepherd, D. Churchwell, E. Kurtz, S. Mundy, L. Goldsmith, P. Pandian, J. Jackson, J. Shah, R.Y. Moore, T. Dougherty, S. Gledhill, T.M. Fender, R.P. Paredes, J.M. Marti, J.	Leeds Leeds Leeds Leeds Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Manchester Jodrell Bank NRAO-CV NRAO-Socorro NRAO-Socorro Wisconsin UNAM Maryland Cornell Cornell Boston Univ. U. Virginia John Moores DRAO Hertfordshire Southampton Barcelona U. Jaen	The CORNISH survey	6	1	102.4
AH885	Harris, D.E. Cheung, C.C. Junor, B.	SAO MIT LANL	Flare decay of knot 'HST-1' in M87 Jet	2, 1.3	1	2.28
AH894	Hyman, S. Lazio, T.J.W. Ray, P.S. Kassim, N.E. Wijnands, R. Muno, M.P.	Sweet Briar NRL NRL NRL Amsterdam Calif.-LosAngeles	Monitoring GCRT J1745-3009 and other radio transients in GC	90	3, 7	5.22
AH913	Helfand, D. Becker, R. White, R.	Columbia Calif.-Davis STScI	MAGPIS: A multi-array Galactic Plane imaging survey	20	12	7.09
AH917	Helfand, D. Camilo, F. Halpern, J. Zimmerman, N. Ransom, S. Reynolds, J.	Columbia Columbia Columbia Columbia McGill ATNF	AXP XTE J1810-197	3.6, 6, 20 Too	10	0.77
AJ324	Johnson, K. Biswas, I. O'Connell, R.W.	Virginia UVa Virginia	Survey for super star clusters in starburst galaxies	1.3	20, 21, 25, 26, 27, 28	49.61
AJ329	Johnson, K. Bandiera, R. Hunt, L. Ulvestad, J.	Virginia Arcetri Arcetri NRAO-Socorro	Radio SN in Ultra-low metallicity galaxy SBS0335-052	3.6	7,9,10	3.95
AK624	Miller, N. Fomalont, E. Kellermann, K. Mainieri, V. Normal, C. Padovani, P. Rosati, P. Shaver, P. Tozzi, P.	GSFC NRAO-CV NRAO-CV MPE, Garching STScI ESO ESO ESO INAF	Star formation, mergers, AGN, SMBH, and evolution	20	31	0.93
AK633	Kneissl, R. Basu, K. Bertoldi, F. Boehringer, H. Menten, K. Nord, M.	Calif., Berkeley MPIfr Bonn MPIfE MPIfr Bonn	SED of radio sources in distant SZ galaxy clusters	20	5	0.43
AK634	Kulkarni, S. Fox, D. Frail, D.	Caltech Penn State NRAO-Socorro	Long and short of radio afterglows in swift era	20, 0.7	1,9,10,18,20 ,21,22,23,27 ,29	14.08

VLA Utilization Report August 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AM861	Morganti, R. Tadhunter, C.N. Dicken, D. Oosterloo, T.	ASTRON Sheffield ASTRON ASTRON	Spectra indices of cores of 2 Jy sources surveyed with Spitzer	1.3, 2	3	10.36
AP500	Pihlstrom, Y. Sjouwerman, L.	UNM NRAO-Socorro	Monitoring galactic center 1720 MHz OH masers	20 line	29	2.28
AP506	Pisano, D.J. Garland, C. Guzman, R. Gallego, J. Castander, F.	NRL Castleton State Florida Florida Catalunya	HI imaging of local Luminous Compact Blue Galaxies	20 line	1, 2, 4	24.03
AR596	Robberto, M. Keto, E. Kamp, I.	STScI CfA STScI	HI absorption against Orion proplyds	20 line	8	5.38
AR598	Reipurth, B. Rodriguez, L.F.	Hawaii UNAM	Structure of HH 34 protostellar outflow source	0.7	29	8.88
AR603	Rupen, M. Mioduszewski, A.J. Dhawan, V.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	Monitoring of and triggered response to X-ray transients	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	....	33.24
AS846	Soderberg, A. Chevalier, R. Frail, D. Kulkarni, S.	Caltech Virginia NRAO-Socorro Caltech	Enigmatic Type Ibc SN and their mysterious engines	0.7, 1.3	2,6,22,26	3.27
AS860	Schmitt, H.R. RosaGonzalez, D. Terlevich, R. Terlevich, E.	NRL INAOE Cambridge INAOE	Search for young star clusters in nearby starbursts	2	12	5.36
AW679	Weiler, K. Stockdale, C.J. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Ingler, S. Pooley, D.	NRL Marquette Univ. NRAO-Socorro Caltech-IPAC STScI Valencia MIT NASA-GSFC Calif.-Berkeley	Long term monitoring of radio supernovae	1.3, 2, 3.6, 6, 20	29	6.92
BD116	Dougherty, S. Blomme, R. Runacres, M.C. Rauw, G. VanLoo, S. Pittard, J.	DRAO Royal Obs Belgium Vrije Univ. Leige Leeds Leeds	Structure of O-star triple system HD167971	... Single antenna VLBI	4, 4	2.47
BK127	Knudsen, K. Walter, F. Mojjian, E. Carilli, C. Yun, M.	MPIA MPIA Arecibo NRAO-Socorro Massachusetts	Imaging two submm-bright quasars at redshift 2.8	20 Phased array VLBI	13	5.62
S70810	Miller, J. Grindlay, J. vanderKlis, M. Wijnands, R. Mendez, M. Raymond, J. Rupen, M. Steeghs, D. Homan, J. Lewin, W.H.G.	Michigan CfA Amsterdam Amsterdam Utrecht-SRON CfA NRAO-Socorro CfA MIT MIT	Chandra/VLA observations of neutron star binaries	3.6, 6	10, 17	8.89
S70998	Miller, J. Markoff, S. Nowak, M.A. Rupen, M. Steeghs, D.	Michigan MIT MIT NRAO-Socorro CfA	Chandra/VLA observations of LLAGN M81*	3.6	9	1.44
DYNAMI			Dynamic Scheduling			18.05
	Staff	NRAO	Baselines, Pointing, Delays			40.0
			Maintenance			71.5
			Polarization Calibrator Monitoring			12.0
			Software			72.5
			General tests			6.0

**VLA  
Utilization Report  
August, 2006**

	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	411.75	64.74
Maintenance	71.50	11.24
Test/Calc	152.73	24.02
Total	635.98	100.00

Average downtime measured in antenna hours was 20.78% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Antenna Pads	0.01
Cryogenics	0.48
Dynamic	40.76
Electrical	0.06
EVLA	46.97
FOC/ROT	1.39
Front End	0.91
HVAC	0.02
RFI	1.85
LO/IF	2.67
Monitor/Control	0.03
Other	1.12
Power Supply	0.57
Servo	1.18
Site Power	1.74
VLA Correlator	0.11
Weather	0.13

## VLA Utilization Report July 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AC819	Claussen, M. Bond, H. Evans, A. Gehrz, R. Healy, K. Rushton, M. Starrfield, S. Woodward, C.	NRAO-Socorro STScI Keele Minnesota ASU Keele ASU Minnesota	Monitoring the SiO masers in V838 Monocerotis	0.7, 1.3	13	1.19
AC822	Cohen, A.S. Clarke, T.E.	NRL NRL	Ultra steep-spectrum emission in galaxy cluster Abell 2443	20, 90	23	6.13
AC823	Carilli, C. Wang, R. Walter, F. Bertoldi, F. Menten, K. Fan, X. Jiang, L. Strauss, M. Cox, P.	NRAO-Socorro NRAO-Socorro MPIA Bonn Univ. MPIfR Arizona Univ. Arizona Princeton IAP-Paris	Optically fainter z = 6.1 SDSS QSOs	20	27	7.60
AC825	Chomiuk, L. Wilcots, E. Doane, N. Sanders, W. Zweibel, E.	Wisconsin Wisconsin Wisconsin Wisconsin Wisconsin	Imaging X-ray super bubbles in nearby spiral galaxies	20	3, 4	11.91
AC827	Curiel, S. Girart, J.M.	UNAM Barcelona	Structure of protostellar systems in L1448N IRS 3	0.7, 1.3	2	5.69
AE153	Eilek, J. Owen, F.	NMINT NRAO-Socorro	Imaging of cooling core radio sources	20, 90	17	8.06
AE157	Eyres, S. Bode, M. O'Brien, T. Evans, N. Davis, R. Worters, H. Porcas, R. Rushton, M.	Central Lancashire John Moores Jodrell Bank Texas Jodrell Bank Central Lancashire MPIfR Keele University	ToO Observations of RS Oph	1.3, 3.6, 6, 20 ToO	4, 14, 20, 26, 26	3.67
AF418	Feretti, L. Dallacasa, D. Giovannini, G. Govoni, F. Murgia, M. Taylor, G.	Bologna Bologna Bologna Bologna Bologna UNM	Polarimetric study of the Coma cluster	3.6, 6	15, 21, 23, 29	30.97
AP434	Franco-Hernandez, R. Rodriguez, L.F. Moran, J.	CfA UNAM CfA	Time variability in ultracompact HII region NGC 7538 IRS1	0.7, 2	6	3.10
AG722	Galvan-Madrid, R. Ramirez-Alonso, E. Montes, G. Kurtz, S.	UNAM UNAM UNAM UNAM	Survey for methanol masers toward formaldehyde masers	1.3 line	12	10.61

VLA Utilization Report July 2006

Progrm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH884	Hoare, M.G. Lumsden, S. Marti, J. Oudmaijer, R. Urquhart, J. Diamond, P.J. Garrington, S. Muxlow, T. Smethurst, S. Gunn, A.G. Spencer, R. Zijlstra, A. Richards, A.M.S. Cotton, W.D. Chandler, C. Shepherd, D. Churchwell, E. Kurtz, S. Mundy, L. Goldsmith, P. Pandian, J. Jackson, J. Shah, R.Y. Moore, T. Dougherty, S. Gledhill, T.M. Fender, R.P. Paredes, J.M.	Leeds Leeds U. Jaen Leeds Leeds Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Manchester Jodrell Bank NRAO-CV NRAO-Socorro NRAO-Socorro Wisconsin UNAM Maryland Cornell Cornell Boston Univ. U. Virginia John Moores DRAO Hertfordshire Southampton Barcelona	The CORNISH survey	6	11, 20, 22, 25	29.32
AH885	Harris, D.E. Junor, W. Cheung, C.C.	CfA Los Alamos MIT	Monitoring knot HST-1 in the M87 jet	0.7, 1.3, 2	31	3.59
AH894	Hyman, S. Lazio, T.J.W. Ray, P.S. Kassim, N.E. Wijnands, R. Muno, M.P.	Sweet Briar NRL NRL NRL Amsterdam Calif.-LosAngeles	Monitoring GCRT J1745-3009 and other radio transients in GC	90	7, 28	4.22
AH902	Hofstadter, M. Butler, B. Gurwell, M. Orton, G. Hammel, H.	JPL NRAO-Socorro CfA JPL SSI	Imaging the atmospheres of Uranus and Neptune	1.3	21	6.48
AH912	Haan, S. Schinnerer, E. Mundell, C.G. Garcia-Burillo, S. Combes, F.	MPIA MPIA John Moores Obs. National Paris Obs.	HI imaging of selected NUGA galaxies	20 line	1, 2, 14	30.02
AH913	Helfand, D. Becker, R. White, R.	Columbia Calif.-Davis STScI	MAGPIS: A multi-array Galactic Plane imaging survey	20	4	6.19
AH915	Hunter, T.R. Brogan, C.L.	CfA NRAO-CV	Search for water masers toward massive protostars in NGC6334 I(N)	1.3 line	3	2.27
AH917	Helfand, D. Camilo, F. Halpern, J. Zimmerman, N. Ransom, S. Reynolds, J.	Columbia Columbia Columbia Columbia McGill ATNF	AXP XTE J1810-197	3.6, 6, 20 ToO	20	0.77
AJ325	Johnson, K. Hunt, L.K. Hibbard, J. Thuan, T.X.	Virginia Arcetri NRAO-CV Virginia	Survey for super star clusters in low-metallicity galaxies	1.3	24	1.59
AJ328	Johnson, K. Hunt, L. Ulvestad, J.	Virginia Arcetri NRAO-Socorro	Supernova candidate in ultra-low metallicity galaxy SBS0335-052	3.6, 6, 20	4	1.22
AK632	Knapik, J. Chyzy, K.T. Soida, M. Volmer, B. Beck, R. Kronberg, P. Urbanik, M.	Jagiell. Univ. Jagiellonian Jagiellonian Strasbourg MPIfR Los Alamos Jagiellonian	Faraday rotation of sources behind the Virgo Cluster	3.6, 6	28	9.67

VLA Utilization Report July 2006

Progrm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AK633	Kneissl, R. Basu, K. Bertoldi, F. Boehringer, H. Menten, K. Nord, M.	Calif., Berkeley MPIfR Bonn Garching MPIfR Bonn	SED of radio sources in distant SZ galaxy clusters	1.3, 20	20,22	2.23
AK634	Kulkarni, S. Fox, D. Frail, D.	Caltech Penn State NRAO-Socorro	Long and short of radio afterglows in Swift Era	0.7, 20	18	1.61
AK635	Kedziora-Chudczer, L Bignall, H. Jauncey, D. Macquart, J-P. Lovell, J. Tzioumis, A. Rickett, B. Ojha, R.	ATNF JIVE ATNF NRAO-Socorro ATNF ATNF Calif.-San Diego ATNF	Extreme scintillator PKS 0405-385	3.6, 6 To0	14	3.15
AM862	Monnier, J.D. Tuthill, P.G. Danchi, W. Greenhill, L.	Michigan Sydney U. NASA-GSFC Cfa	Monitoring the colliding wind WR 112	3.6	29	2.32
AM865	McNamara, B. Rupen, M. Harrison, T.	New Mexico State NRAO-Socorro NMSU	Coordinated VLA/RXTE/APO/Keck look at LMXB GX 17+2	0.7, 1.3, 2, 3.6, 6, 20	6, 12, 14	3.81
AM869	Montes, J. Bergond, G. Leon, S. Lim, J. Lisenfeld, U. Ramrez, D. Verdes-Montenegro, L Verley, S.	IAA IAA IRAM ASIAA Granada Jaen IAA IAA	Census and morphology of radio core of a sample of isolated galaxies	3.6	16	0.82
AM870	McMullin, J. Claussen, M.J.	NRAO-Socorro NRAO-Socorro	Continuum survey of Serpens molecular cloud core	3.6, 6	9	7.06
AO205	Osten, R. Bastian, T. Hawley, S. Reid, I.N.	Maryland NRAO-CV Washington STScI	Spectrum of radio emission from brown dwarfs	3.6, 6, 20	30	3.38
AP500	Pihlstrom, Y. Sjouwerman, L.	UNM NRAO-Socorro	Monitoring galactic center 1720 MHz OH masers	20 line	14	2.15
AP506	Pisano, D.J. Garland, C. Guzman, R. Gallego, J. Castander, F.	NRL Castleton State Florida Florida Catalunya	HI imaging of local Luminous Compact Blue Galaxies	20 line	30, 31	16.13
AR603	Rupen, M. Mioduszewski, A.J. Dhawan, V.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	Monitoring of and triggered response to X-ray transients	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	...	28.72
AR604	Riechers, D. Walter, F. Carilli, C. Bertoldi, F. Weiss, A.	MPIA MPIA NRAO-Socorro Bonn Univ. MPIfR	Imaging the molecular Einstein ring at z = 4.12	0.7 line	3	6.72
AS846	Soderberg, A. Chevalier, R. Frail, D. Kulkarni, S.	Caltech Virginia NRAO-Socorro Caltech	Enigmatic Type Ibc SN and their mysterious engines	0.7, 1.3, 2, 3.5, 6, 20	3,4,5,12,13, 15,20,24	5.17
AS860	Schmitt, H. Rosa Gonzalez, D. Terlevich, R. Terlevich, E.	NRL INAOE INAOE INAOE	Young star clusters in nearby starbursts	3.5, 6, 20	5,16	13.38
AS871	Stelzer, B. Testi, L.	Palermo Arcetri	Emission in Herbig AeBe binary systems	1.3, 2, 3.6, 6	9	6.69
AS874	Schiminovich, D. Basu-Zych, A. Johnson, B. Treyer, M. Hoopes, C. Heckman, T.	Columbia Columbia Univ. Columbia Univ. Marseille JHU Johns Hopkins	Continuum imaging of ultraviolet luminous galaxies	20	7, 8, 8, 9	24.61
AT328	Tsai, C-W. Beck, S. Meier, D. Turner, J.	Calif., Los Angeles Tel Aviv NRAO-Socorro Calif., Los Angeles	Deep radio continuum maps of Maffei II	1.3, 3.6	2,14	2.83



VLA Utilization Report July 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AT329	Tsai, C-W. Turner, J. Meier, D.S.	UCLA Calif.-Los Angeles NRAO-Socorro	Continuum survey for HII regions in NGC 2403	3.6, 6	10	8.02
AT330	Tripp, T. Yun, M.	UMass UMass	Rare opportunity to study 21 cm absorption and emission in a nearby galaxy	20	16	1.61
AV288	VirLal, D. Ho, L.C.	NCRA-TIFR Carnegie Obs.	Properties of Type II quasars	3.6	24	19.42
AY164	Yun, M. Scott, K. Wilson, G. Yan, L. Choi, P. Frayer, D.T.	Massachusetts Massachusetts Massachusetts Caltech-IPAC Caltech/IPAC Caltech	Imaging the FLS Verification Strip at 20cm	20	1	6.43
AY167	Yusef-Zadeh, F. Roberts, D.H. Heinke, C. Dowell, C.	Northwestern Northwestern Northwestern JPL/Caltech	Time delay of Sgr A* flare emission in radio and submm wavelengths	0.7, 1.3	15, 16	9.32
BD114	Dougherty, S. Pittard, J. O'Connor, E. Beasley, A.J. Cláussen, M.J.	DRAO Leeds UPEI NRAO-Santiago NRAO-Socorro	Structural monitoring of colliding-wind binary WR140	... Single antenna VLBI	29, 27	13.44
S70218	Lubin, L. Gal, R. Mulchaey, J. McKean, J.P. Fassnacht, C.	Calif.-Davis Calif.-Davis Carnegie Obs. MPIFR Calif.-Davis	Chandra/VLA observations of supercluster at z=0.9	20	7, 10, 13	24.91
S70601	Forman, W.R. Jones, C. Charasov, E. Eilek, J. Owen, F.	CfA CfA MPA NMIMT NRAO-Socorro	Chandra/VLA observations of galaxy IC 1262	20	27	9.61
S70810	Miller, J. Grindlay, J. vanderKlis, M. Wijnands, R. Mendez, M. Raymond, J. Rupen, M. Steeghs, D. Homan, J. Lewin, W.H.G.	Michigan CfA Amsterdam Amsterdam Utrecht-SRON CfA NRAO-Socorro CfA MIT MIT	Chandra/VLA observations of neutron star binaries	3.6, 6	2	3.84
S70874	Wolk, S.J. Osten, R. Bourke, T. Megeath, T. Allen, L. Myers, P.	CfA Maryland CfA CfA CfA CfA	Chandra/VLA observations of star cluster NGC 1333	3.6, 6	5, 16	20.45
S70998	Miller, J. Markoff, S. Nowak, M.A. Rupen, M. Steeghs, D.	Michigan MIT MIT NRAO-Socorro CfA	Chandra/VLA observations of LLAGN M81*	3.6	11, 28	2.66
S71062	Harris, D.E. Birkinshaw, M. Cheung, C.C. Gelbord, J. Landt, H. Jorstad, S.G. Marshall, H. Perlman, E. Schwartz, D. Stawarz, L. Worrall, D.	CfA Bristol MIT MIT CfA Boston Univ. MIT Maryland-Baltimore CfA CfA Bristol	Chandra/VLA observations of quasar 4C 19.44	2, 6	30	8.13
DYNAMI			Dynamic scheduling			142.5
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Software Students General tests		8, 11	34.0 62.0 12.0 46.5 4.17 4.0

**VLA  
Utilization Report  
July, 2006**

	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	448.94	76.90
Maintenance	62.00	10.62
Test/Calc	72.89	12.48
<b>Total</b>	<b>583.83</b>	<b>100.00</b>

Average downtime measured in antenna hours was 26.30% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Cryogenics	0.27
Dynamic	36.37
EVLA	54.25
FOC/ROT	1.17
Front End	0.60
HVAC	0.13
RFI	2.70
LO/IF	0.06
Monitor/Control	0.54
Other	0.11
Power Supply	0.15
Servo	0.99
Site Power	0.76
VLA Computers	0.99
VLA Correlator	0.32
Weather	0.59

## VLA Utilization Report June 2006

Progrm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA304	Araya, E. Hofner, P. Goss, M. Linz, H. Kurtz, S. Olm, L.	NMIMT NMIMT NRAO-Socorro MPIA UNAM CNR	Formaldehyde 6cm maser in G23.71-0.20	1.3, 3.6, 6	21	4.42
AA305	Araya, E. Hofner, P. Goss, M. Linz, H. Kurtz, S. Olm, L.	NMIMT NMIMT NRAO-Socorro MPIA UNAM CNR	Formaldehyde 6cm masers from Arecibo and GBT surveys	6 line	13, 14	13.02
AB1187	Brogan, C.L. Kassim, N.E. Lazio, T.J.W. Nord, M.	NRAO-CV NRL NRL NRL	Galactic center mosaic at 330 MHz	90	1, 1	9.14
AB1204	Bietenholz, M.F. Bartel, N. Rupen, M.	York U. York U. NRAO-Socorro	Spectral evolution of young pulsar nebula/black hole in SN 1986J	0.7, 1.3, 2, 3.6, 6, 20	6	5.66
AB1212	Blake, C. Moore, J. Pimblet, K. Drinkwater, M.	Univ. BC Queensland Queensland Queensland	Continuum imaging toward local supercluster filaments	20	10, 11	4.13
AC750	Clarke, T.E. Lane, W. Sarazin, C. Kassim, N.E.	NRL NRL Virginia NRL	FRIs in high and low density environments	90, 400	17	4.82
AC803	Carilli, C. Beelen, A. Bertoldi, F. Cox, P. Fan, X. Menten, K. Omont, A. Strauss, M. Walter, F.	NRAO-Socorro IAP Bonn IRAM Arizona MPIfR IAP Princeton MPIA	VLA Obs. of z <sup>~</sup> 6 SDSS QSOs	20	4,9	2.79
AC805	Croston, J. Hardcastle, M.H. Kraft, R.	Hertfordshire Hertfordshire CFA	Structure and spectrum of radio galaxy NGC 3801	6, 20	27	1.22
AC819	Claussen, M. Bond, H. Evans, A. Gehrz, R. Healy, K. Rushton, M. Starrfield, S. Woodward, C.	NRAO-Socorro STScI Keele Minnesota ASU Keele ASU Minnesota	Monitoring the SiO masers in V838 Monocerotis	0.7, 1.3	3	1.21
AC821	Clarke, T.E. Reynolds, C.S.	NRL Maryland	Structure and spectral indices of PKS 2354 in core of Abell 4059	20	9	7.09
AC825	Chomiuk, L. Wilcots, E. Doane, N. Sanders, W. Zweibel, E.	Wisconsin Wisconsin Wisconsin Wisconsin Wisconsin	Imaging X-ray super bubbles in nearby spiral galaxies	20	17	6.50
AC827	Curiel, S. Girart, J.M.	UNAM Barcelona	Structure of protostellar systems in L1448N IRS 3	0.7, 1.3	27	5.61
AD521	Dulwich, F. Birkinshaw, M. Padgett, C. Perlman, E. Worrall, D.	Bristol Bristol UMBC UMBC Bristol	Mapping the magnetic field in jet of 3C15	2	5	2.44
AD527	Dey, A. Brand, K. Higdon, J. Jannuzi, B. Soifer, B. Weedman, D.	NOAO NOAO Cornell NOAO Caltech Cornell	Large Ly alpha nebula at z=2.656	6, 20	19	1.22
AD529	Clarke, T. Dupke, R.	NRL Michigan	Are cold fronts generated by ICM Buoyant bubbles?	90	3,4	7.29
AD530	DeLaney, T. Kassim, N.E. Gaensler, B.M.	CFA NRL CFA	Spectral index imaging of SN 1006	90, 400	2, 6	6.48

## VLA Utilization Report June 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AE157	Eyres, S. Bode, M. O'Brien, T. Evans, N. Davis, R. Worters, H. Porcas, R. Rushton, M.	Lancashire John Moores Jodrell Bank Texas Jodrell Bank Lancashire MPIFR Keele University	ToO Observations of RS Oph	1.3, 3.6, 6, 20 ToO	6, 12, 17, 26	3.25
AF438	Frail, D.	NRAO-Socorro	Shell-type SNRs with evidence for TeV emission	20 line	9	5.64
AG715	Gaensler, B.M. Gelfand, J. Taylor, G.B. Kouveliotou, C. Eichler, D. Lyubarsky, Y. Granot, J. Ramirez-Ruiz, E. Wijers, R. Fender, R.P. Garrett, M.A.	CfA CfA UNM NASA-MSFC Ben Gurion Univ. Ben Gurion Univ. KIPAC IAS Amsterdam Southampton JIVE	Imaging and monitoring of afterglow of SGR 1806-20	3.6, 6, 20	22	4.06
AG716	Giacintucci, S. Venturi, T. Brunetti, G. Cassano, R. Dallacasa, D. Bardelli, S.	INAF INAF INAF Bologna Bologna INAF	Radio galaxy in cluster A521	3.6, 6	10	5.69
AG718	Garay, G. Brooks, K.J. Rodriguez, L.F. Moran, J. Franco-Hernandez, R.	Chile ATNF UNAM CfA CfA	Proper motions in lobes of massive protostar IRAS 16547-4247	3.6	8	1.63
AG727	Giovannini, G. Feretti, L. Giroletti, M. Taylor, G.	Bologna Bologna Bologna UNM	Multi-frequency monitoring of superluminal giant radio galaxy 1144+35	2,6,20	3	1.74
AH894	Hyman, S. Lazio, T.J.W. Ray, P.S. Kassim, N.E. Wijnands, R. Muno, M.P.	Sweet Briar NRL NRL NRL Amsterdam Calif.-LosAngeles	Monitoring GCRT J1745-3009 and other radio transients in GC	90	7, 26	5.30
AH910	Hamidouche, M. Wang, S. Looney, L.	Univ. Illinois Univ. Illinois Univ. Illinois	Circumstellar structures of Herbig AeBe stars	0.7, 1.3, 3.6	2	4.04
AH912	Haan, S. Schinnerer, E. Mundell, C.G. Garcia-Burillo, S. Combes, F.	MPIA MPIA John Moores Obs. National Paris Obs.	HI imaging of selected NUGA galaxies	20 line	29, 30	16.09
AH913	Helfand, D. Becker, R. White, R.	Columbia Calif.-Davis STScI	MAGPIS: A multi-array Galactic Plane imaging survey	20	28	6.55
AH917	Helfand, D. Camilo, F. Halpern, J. Zimmerman, N. Ransom, S. Reynolds, J.	Columbia Columbia Columbia Columbia McGill ATNF	AXP XTE J1810-197	3.6, 6, 20 ToO	3, 11, 19	2.09
AJ328	Johnson, K. Hunt, L. Ulvestad, J.	Virginia Arcetri NRAO-Socorro	Supernova candidate in ultra-low metallicity galaxy SBS0335-052	3.6, 20	15, 29	2.29
AK634	Kulkarni, S. Fox, D. Frail, D.	Caltech Penn State NRAO-Socorro	Long and short of radio afterglows in the Swift Era	0.7, 20	1,2,7,8,18,2 4,25	11.46
AK635	Kedziora-Chudczer, L. Bignall, H. Jauncey, D. Macquart, J-P. Lovell, J. Tzioumis, A. Rickett, B. Ojha, R.	ATNF JIVE ATNF NRAO-Socorro ATNF ATNF Calif.-San Diego ATNF	Extreme scintillator PKS 0405-385	3.6, 6 ToO	15	3.08

## VLA Utilization Report June 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AM865	McNamara, B. Rupen, M. Harrison, T.	NMSU NRAO-Socorro NMSU	Coordinated VLA/RXTE/APO/Keck look at LMXB GX 17+2	0.7, 1.3, 2, 3.6, 6, 20	23, 30	0.96
AM868	Miller, N. Hornschemeier, A. Mobasher, B.	Johns Hopkins STScI STScI	Deep continuum imaging of two regions in Coma cluster	20	18, 22, 23, 24, 25	23.33
A0198	Ofek, E. Frail, D. Gal-Yam, A.	Tel Aviv NRAO-Socorro Caltech	Survey for radio selected supernova		1,2	3.13
A0205	Osten, R. Hawley, S.L. Bastian, T. Reid, I.N.	Maryland Washington Univ. NRAO-CV STScI	Spectrum of emission from brown dwarfs	3.6, 6, 20	30	8.73
AP452	Perley, R.A. Condon, J.J. Cotton, W.D. Lane, W.M. Cohen, A.S. Kassim, N.E. Lazio, T.J.W. Erickson, W.C.	NRAO-Socorro NRAO-CV NRAO-CV NRL NRL NRL NRL Maryland	The VLA low-frequency sky survey (VLSS)	400	3, 4, 5, 7, 8	35.13
AP500	Pihlstrom, Y. Sjouwerman, L.	UNM NRAO-Socorro	Monitoring galactic center 1720 MHz OH masers	20 line	12	3.25
AP509	Perley, R. Lane, W. Cohen, A.S. Cotton, W.D. Condon, J.J. Lazio, J. Kassim, N.E. Erickson, W.	NRAO-Socorro NRL NRL NRAO-CV NRAO-CV NRL NRL Maryland	VLA Low-frequency Sky Survey wrap-up	400	17, 19, 27	19.94
AR603	Rupen, M. Mioduszewski, A.J. Dhawan, V.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	Monitoring of and triggered response to X-ray transients	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	3, 8, 11, 18, 24, 25	33.73
AR604	Riechers, D. Walter, F. Carilli, C. Bertoldi, F. Weiss, A.	MPIA MPIA NRAO-Socorro Bonn Univ. MPIFR	Imaging the molecular Einstein ring at z = 4.12	0.7 line	19, 22, 23, 24, 25, 26	37.99
ASB46	Soderberg, A. Chevalier, R. Frail, D. Kulkarni, S.	Caltech Virginia NRAO-Socorro Caltech	Enigmatic Type Ibc SN and their mysterious engines	1.3,2,3.5, 6,20	1,15	0.83
AT319	Tarchi, A. Brunthaler, A.	IRA MPIFR	Continuum monitoring of megamaser galaxy 3C403	1.3	29	0.81
AT329	Tsai, C-W. Turner, J. Meier, D.S.	UCLA Calif.-Los Angeles NRAO-Socorro	Continuum survey for HII regions in NGC 2403	3.6, 6	18	7.30
AT330	Tripp, T. Yun, M.	UMass UMass	Rare opportunity to study 21cm absorption and emission in a nearby galaxy	20	30	1.54
AW675	Weiler, K. Immler, S. Lewin, W. Marcaide, J. Panagia, N. Pooley, D. Ryder, S. Sramek, R. Stockdale, C. VanDyk, S.	NRL NASA MIT Valencia STScI Calif., Berkeley AAO NRAO-Socorro Marquette IPAC	Triggered obs. of Type II SNe	1.3, 2	27	1.63
AW681	Willson, R.F.	Tufts	Solar metric and decimetric bursts	90, 400	24, 25, 26	11.58
AZ167	Zijlstra, A. Hajduk, M. Kerber, F. vanHoof, P. Pollaco, D. Evans, A. Eyles, S.P. Kimeswenger, S.	Manchester UMIST ESO Queens-Belfast Queens University Keele Central Lancashire Univ. of Innsbruck	Monitoring the spectral indices of Sakurai's object and CK Vul	3.6, 6	10, 11	10.42
BP132	Patience, J. Pihlstrom, Y. Prato, L.	Caltech UNM Lowell	Measuring the distance to the intriguing Young Star AS353	6	19,24,25,26	1.62

VLA Utilization Report June 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
GB058	Bartel, N. Rupen, M. Bietenholz, M.F. Beasley, A.J. Graham, D. Altunin, V. Venturi, T. Umana, G. Cannon, W. Conway, J.E.	York U. NRAO-Socorro York U. NRAO-Santiago MPIFR JPL Bologna Noto York U. Onsala	Structural and spectral evolution of SN 1993J	6, 20 Phased array VLBI	16	8.77
S70272	Maccarone, T.J. Kaiser, C.R. Brocksopp, C. Sokoloski, J.L. Gunn, K. Fender, R.P.	Amsterdam Southampton MSSL CfA Southampton Southampton	Chandra/VLA observations of jet from GRS 1915+105	6	27	0.58
S70810	Miller, J. Grindlay, J. vanderKlis, M. Wijnands, R. Mendez, M. Raymond, J. Rupen, M. Steeghs, D. Homan, J. Lewin, W.H.G.	Michigan CfA Amsterdam Amsterdam Utrecht-SRON CfA NRAO-Socorro CfA MIT MIT	Chandra/VLA observations of neutron star binaries	3.6, 6	25	1.85
S70998	Miller, J. Markoff, S. Nowak, M.A. Rupen, M. Steeghs, D.	Michigan MIT MIT NRAO-Socorro CfA	Chandra/VLA observations of LLAGN M81*	3.6	6	1.44
DYNAMI	Dynamic		Dynamic scheduling			181.0
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Software Students		16	34.0 62.0 12.0 57.0 1.55

**VLA  
Utilization Report  
June, 2006**

	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	374.30	66.47
Maintenance	62.00	11.01
Test/Calc	126.81	22.52
<b>Total</b>	<b>563.11</b>	<b>100.00</b>

Average downtime measured in antenna hours was 29.54% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Cryogenics	0.34
Dynamic	39.83
EVLA	48.84
FOC/ROT	0.03
Front End	0.80
HVAC	0.03
RFI	4.52
LO/IF	1.29
Mechanical	0.01
Monitor/Control	0.11
Obs Program	0.07
Other	1.07
Servo	0.31
Site Power	0.07
VLA Computers	0.59
VLA Correlator	0.19
Weather	1.90

## VLA Utilization Report May 2006

Progn	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA301	Argo, M. Beswick, R. Fenech, D. Muxlow, T. Pedlar, A. Wills, K.	Manchester Manchester Manchester Jodrell Bank Manchester Sheffield	Continued monitoring of radio supernovae and SNR in nearby starbursts	2, 3.6, 6, 20	19	0.83
AB1187	Brogan, C.L. Kassim, N.E. Lazio, T.J.W. Nord, M.	Hawaii-IFA NRL NRL NRL	Galactic center mosaic at 330 MHz	90	27, 28, 29, 30, 31	14.85
AB1192	Birkinshaw, M. Worrall, D. Schwartz, D. Marshall, H.	Bristol Bristol CfA MIT	Deep 90cm imaging of unusual X-ray emission in PKS 1055+201	90	4	4.82
AB1207	Brunthaler, A. Menten, K. Reid, M. Xu, Y.	MPIfR MPIfR CfA Shanghai Obs.	Calibrator search near methanol masers	3.6, 6	21, 26	6.95
AB1210	Blomme, R. DeBecker, M. Rauw, G. Runacres, M. VanLooy, S.	OMA Liege Liege Brussel Leeds	Colliding winds of the O+0 star binary Cyg OB2	3.6, 6, 20	24	0.75
AC749	Colina, L. Alberdi, A. Torrelles, J.M. Panagia, N. Wilson, A.	IFCA IAA IEEC-Barcelona STScI Maryland	Search for RSNe in highly luminous infrared galaxies	3.6	13	4.06
AC803	Carilli, C. Beelen, A. Bertoldi, F. Cox, P. Fan, X. Menten, K. Omont, A. Strauss, M. Walter, F.	NRAO-Socorro IAP Bonn IRAM Arizona MPIfR IAP Princeton MPIA	VLA Obs. of z~6 SDSS QSOs	20	30	4.23
AC806	Clarke, T.E. Sarazin, C. Reiprich, T.	NRL Virginia Bonn	Structure and spectrum of radio relic in Abell 4038	90, 400	5	4.77
AC807	Capetti, A. Balmaverde, B. Axon, D.J.	Torino Torino Rochester	Continuum survey of nearby early-type galaxies	6	9	0.81
AC809	Clarke, T.E. Donahue, M. Taylor, G.B.	NRL Michigan State UNM	Structure of radio-quiet cooling flow cores and a massive outburst	90, 400	2, 5	8.92
AC817	Chandler, C. Greenhill, L. Humphreys, L. Matthews, L. Reid, M.	NRAO-Socorro CfA CfA CfA CfA	Angular momentum transport and mass loss during massive star formation	0.7	20	14.66
AC819	Claussen, M.J. Healy, K. Bond, H. Starrfield, S. Woodward, C. Gehrz, R. Evans, A. Rushton, M.	NRAO-Socorro ASU STScI ASU Minnesota Minnesota Keele Keele	Monitoring the SiO masers in V838 Monocerotis	0.7, 1.3 line	9	1.22
AD521	Dulwich, F. Birkinshaw, M. Padgett, C.A. Perlmán, E. Worrall, D.	Bristol Bristol UMBC UMBC Bristol	Mapping the magnetic field in jet of 3C15	2	26	2.37
AD525	Diamond-Stanic, A. Carilli, C. Fan, X. Anderson, S.B. Brandt, W. Kim, J. Schneider, D. Strauss, M.	Arizona NRAO-Socorro Arizona Caltech Penn State Univ. of Arizona Penn State Princeton	Structure of high-redshift quasars without emission lines	6, 20	9	5.69
AD529	Dupke, R. Clarke, T.	Michigan NRL	Are cold fronts generated by ICM Buoyant bubbles?	90	27	0.03



## VLA Utilization Report May 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AE153	Eilek, J.	NMIMT	Imaging of cooling core radio sources	20, 90 with PT	11, 12	25.11
AE156	Eyres, S. Bode, M. O'Brien, T. Evans, N. Davis, R. Worters, H. Porcas, R. Uytterhoeven, K.	Central Lancashire John Moores Jodrell Bank Texas Jodrell Bank Central Lancashire MPIfR Central Lancashire	ToO Observations of RS Oph	1.3, 3.6, 6, 20 ToO	2, 16, 28	2.88
AF434	Franco-Hernandez, R.	CfA	Time variability in ultracompact HII region NGC 7538 IRS1	2	12	3.09
AF439	Figer, D. Law, C. Kudritzki, R. Najarro, P. MacKenty, J.W. Robberto, M. Muno, M.P. Herrero, A.	STScI Northwestern Univ. Hawaii CSIC STScI STScI Calif.-Los Angeles IAC	Structure and spectra of two clusters of red supergiants	6, 20	24	5.30
AF440	Fish, V. Brisken, W. Sjouwerman, L.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	Where did it go?	20	18	0.10
AF441	Fish, V. Sjouwerman, L.	NRAO-Socorro NRAO-Socorro	Excited OH in OH/IR stars	6	25, 26	4.10
AG715	Gaensler, B.M. Gelfand, J. Taylor, G.B. Kouveliotou, C. Eichler, D. Lyubarsky, Y. Granot, J. Ramirez-Ruiz, E. Wijers, R. Fender, R.P. Garrett, M.A.	CfA CfA UNM NASA-MSFC Ben Gurion Univ. Ben Gurion Univ. KIPAC IAS Amsterdam Southampton JIVE	Imaging and monitoring of afterglow of SGR 1806-20	3.6	10	6.20
AG718	Garay, G. Brooks, K. Franco-Hernandez, R. Moran, J. Rodriguez, L.	Chile ATNF CfA CfA UNAM	Proper motions in radio lobes of massive protostar IRAS 16547-4247	3.5	31	1.63
AG722	Galvan-Madrid, R.	UNAM	Rare maser species	1.3	29, 30	1.66
AH885	Harris, D.E.	CfA	Monitoring knot HST-1 in the M87 jet	1.3, 2, 3.6	7	6.37
AH899	Helfand, D. Halpern, J. Gotthelf, E. Becker, R.	Columbia Columbia Columbia Calif.-Davis	Monitoring anomalous X-ray pulsar XTE J1810-197	3.6, 20	7	0.41
AH902	Hofstadter, M.	JPL	Imaging the atmospheres of Uranus and Neptune	1.3, 2, 6	7, 8, 14	19.47
AH908	Hallinan, G. Golden, A. Doyle, J.G. Antonova, A. Bourke, S. Brisken, W.	NUI, Galway Ireland-Galway Armagh Armagh NUI NRAO-Socorro	Continuum monitoring of an M9 dwarf	3.6, 6	19, 20	18.79
AH910	Hamidouche, M. Hamidouche, M. Looney, L. Wang, S.	Illinois Illinois Illinois Illinois	Resolving and probing circumstellar structures of Herbig AeBe stars	0.7, 1.3, 3.6	27, 28	3.97
AH917	Helfand, D.	Columbia	Monitoring the remarkable transient AXP XTE J1810-197	3.6, 6, 20	18, 19, 20, 22, 24	1.53
AJ325	Johnson, K.	Virginia	Survey for super star clusters in low-metallicity galaxies	1.3, 3.6, 6	1, 14	16.84
AJ326	Jacoby, B. Lazio, T.J.W.	NRC-NRL NRL	Birthplace of PSR B1834-06?	20	23, 24	1.56
AK583	Kulkarni, S. Soderberg, A.M. Cenko, S. Frail, D. Harrison, F.A. Fox, D. Gal-Yam, A. Moon, D-S. Cameron, B.	Caltech Caltech Caltech NRAO-Socorro Caltech Caltech Caltech Caltech Caltech	Gamma-ray bursts, x-ray flashes, and core collapse SNe	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	3, 5, 6, 8, 10, 12	7.19

## VLA Utilization Report May 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AK626	Karovska, M. Matthews, L.D.	Cfa NRAO-CV	Multifrequency continuum monitoring of Mira A & B	0.7, 1.3, 3.6, 6	16	2.77
AK635	Kedziora-Chudczer, L	ATNF	Extreme scintillator PKS 0405-385	3.6, 6 ToO	7	3.14
AK636	Koerding, E. Rodriguez, L. Mirabel, F.	Southampton UNAM ESO	Jet driven water masers in GRS 1915+105	1.3	19	0.56
AL664	Landt, H. Bignall, H. Padovani, P. Perlman, E.	Cfa JIVE ESO Maryland-Baltimore	Imaging a faint sample of BL Lacertae objects	20	13	8.44
AL670	Lazio, T.J.W. Kassim, N.E. Cohen, A.S. Lane, W. Clarke, T.E.	NRL NRL NRL NRL NRL	Imaging FR II radio galaxies at low frequencies	90, 400 with PT	15	5.74
AM858	Miller-Jones, J. Fender, R.P. Rupen, M.	Amsterdam Southampton NRAO-Socorro	Triggered monitoring of GRS 1915+105	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	4, 16	4.06
AM859	Martin-Pintado, J. Chandler, C. Thum, C.	IEM-CSIC NRAO-Socorro IRAM	Kinematics of disk around massive star in MWC349	1.3 line with PT	1	4.89
AN127	Nakanishi, K. Okumura, S. Kawabe, R. Kohno, K. Kuno, N. Sato, N.	Nobeyama Nobeyama Nobeyama Tokyo Univ. Nobeyama NAOJ	SED monitoring of luminous infrared galaxy NGC6240	1.3, 2, 3.6, 6, 20	3	2.43
AO198	Ofek, E. Frail, D. Gal-Yam, A.	Tel Aviv NRAO-Socorro Caltech	Survey for radio selected supernova	3.6, 20	1	0.84
AO201	Owen, F. Morrison, G. Lonsdale, C.J. Eilek, J. Smith, G. Polletta, M.	NRAO-Socorro Hawaii-Ifa Caltech-IPAC NMIMT Calif.-San Diego Calif.-San Diego	Imaging the SWIRE Deep Field at 90cm	90	16	10.19
AP500	Pihlstrom, Y.	UNM	Monitoring galactic center 1720 MHz OH masers	20 line	24	3.03
AR570	Rupen, M. Mioduszewski, A.J. Dhawan, V.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	Monitoring of and triggered response to X-ray transients	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	3, 7, 8, 9, 10, 14	8.40
AR593	Rodriguez, L.F. Gomez, L. Loiuard, L. Lizano, S.	UNAM UNAM UNAM UNAM	Proper motions of compact continuum sources in Orion	3.6	12	7.76
AR603	Rupen, M.	NRAO-Socorro	Monitoring of and triggered response to X-ray transients	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	27, 27	27.90
AS831	Shepherd, D. Testi, L. DePree, C.G. Scoles, S.	NRAO-Socorro Arcetri Agnes Scott College Agnes Scott College	Massive outflow sources observed with Spitzer	3.6	11, 18	5.90
AS860	Schmitt, H.R. RosaGonzalez, D. Terlevich, R. Terlevich, E.	NRL INAOE Cambridge INAOE	Search for young star clusters in nearby starbursts	3.6, 6, 20	6	8.01
AS873	Stoeke, J. Hart, Q.	Colorado Colorado	Structure of AGN in ten clusters of galaxies	20	28	3.14
AS876	Sokoloski, J. Rupen, M. Mioduszewski, A.	Cfa NRAO-Socorro NRAO-Socorro	Structure of RS Oph	0.7, 1.3, 3.6 with PT ToO	17	3.25
AS878	Sjouwerman, L. Brunthaler, A.	NRAO-Socorro MPIR	Possible OH masers in M31	18	20	1.65
AT316	Thuan, T. Izotov, Y.I. Hunt, L.K. Hibbard, J.	Virginia Main Astron. Obs. Arcetri NRAO-CV	Continuum observations of metal-deficient blue compact dwarfs	20	8, 11	3.61
AT319	Tarchi, A. Brunthaler, A. Henkel, C. Braatz, J.A.	IRA-Bologna MPIFR MPIFR NRAO-GB	Continuum monitoring of megamaser galaxy 3C 403	1.3	2	1.19
AU110	Umama, G. Buemi, C. Leto, P. Trigilio, C.	INAF INAF INAF INAF	Radio obs. as probe for mass-loss and shaping in LBVs	1.3, 2, 6, 3.6	26	0.79

VLA Utilization Report May 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AW675	Weiler, K. Stockdale, C.J. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Immler, S. Pooley, D. Ryder, S.	NRL Marquette Univ. NRAO-Socorro IPAC STScI Valencia MIT NASA-GSFC Calif.-Berkeley AAO	Triggered observations of type II SNe	1.3, 2, 3.6, 6, 20, 90 TRIGGER	5, 12, 28	2.43
AW678	Wucknitz, O. Czoske, O. Schmidt, R. Garrett, M.A.	JIVE Univ. of Bonn Potsdam JIVE	Possible jet in massive lensing cluster of galaxies Cl0024+1654	20	6	7.08
AY163	Yi, J. Booth, R. Conway, J.E.	KASI Onsala Onsala	Joint VLA/VLBA observations of SiO masers in two Miras	0.7 line with PT	15	6.54
AY164	Yun, M.	Massachusetts	Imaging the FLS Verification Strip at 20cm	20	1, 1, 4, 5, 8, 14, 15	44.57
BB219	Bietenholz, M. Bartel, N. Rupen, M.	York York NRAO-Socorro	Unusual Type Ib/c SN and GRB Candidate SN	3.6		9.54
BF089	Forbrich, J. Massi, M. Ros, E. Menten, K.	MPIfR MPIfR MPIfR MPIfR	Non-thermal emission from protostars	3.6 Phased array VLBI	24	3.05
BY021	Yi, J. Yi, Jiyune Booth, R. Conway, J.	KASI KASI Onsala Onsala	Obs. of extended emission in circumstellar SiO masers	0.7	15	0.32
S60570	Audard, M. Briggs, K. Brown, A. Gizis, J. Guedel, M. Osten, R. Telleschi, A.	Columbia Paul Scherrer CASA Delaware Paul Scherrer NRAO-Socorro Paul Scherrer	Chandra Obs.	3.6	30	4.87
S70601	Forman, W.R.	CfA	Chandra/VLA observations of galaxy IC 1262	90	3	8.10
S70702	Miller, J. Fabian, A. Reynolds, C.S. vanderKlis, M. Wijnands, R. Rupen, M. Steeghs, D. Charles, P.A. Raymond, J. Homan, J. Lewin, W.H.G.	CfA Cambridge Maryland Amsterdam Amsterdam NRAO-Socorro CfA Southampton CfA MIT MIT	Triggered Chandra/VLA observations of BH transient in outburst	3.6, 6 TRIGGER	26	1.56
S70810	Miller, J.	CfA	Chandra/VLA observations of neutron star binaries	3.6, 6	7, 10, 19	3.73
S70998	Miller, J. Miller, J. Markoff, S. Nowak, M. Rupen, M. Steeghs, D.	CfA CfA MIT MIT NRAO-Socorro CfA	Chandra/VLA obs. of LLAGN M81*	3.6	16	1.44
DYNAMI	Dynamic, D.		Dynamic scheduling			132.0
	Staff	NRAO	Baselines, Pointing, Delays			40.0
			Maintenance			71.5
			Polarization Calibrator Monitoring			12.0
			Software			60.0
			General tests			13.0

**VLA  
Utilization Report  
May, 2006**

	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	414.42	66.09
Maintenance	71.50	11.40
Test/Calc	141.15	22.51
Total	627.07	100.00

Average downtime measured in antenna hours was 22.02% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Antenna Pads	0.53
Cryogenics	0.32
Dynamic	8.50
Electrical	0.11
EVLA	73.93
FOC/ROT	0.04
Front End	0.26
HVAC	0.04
RFI	3.16
LO/IF	3.12
Mechanical	0.15
Monitor/Control	0.03
Obs Program	0.66
Other	0.25
Power Supply	0.43
Servo	1.30
Site Power	0.06
VLA Computers	0.59
VLA Correlator	6.34
Weather	0.19

VLA Utilization Report April 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA303	Axon, D.J. Capetti, A. Balmaverde, B. Batcheldor, D. Merritt, D.	Rochester Torino Torino Rochester Rochester	Deep study of nucleated dwarf ellipticals in Virgo Cluster	3.6	16, 21, 24	27.46
AB1196	Beltran, M. Cesaroni, R. Codella, C. Furuya, R. Olmi, L. Testi, L.	Barcelona Arcetri CNR-Roma Caltech CNR Arcetri	Continuum source in massive disk G24.78+0.08	0.7, 1.3 line with PT	7, 8	7.89
AB1198	Brunthaler, A. deBlok, E. Reid, M. Henkel, C. Falcke, H.	MPIfR Mt. Stromlo CfA MPIfR ASTRON	Water maser survey of NGC 6822	1.3 line	10, 17	3.67
AC749	Colina, L. Alberdi, A. Torrelles, J.M. Panagia, N. Wilson, A.	IFCA IAA IEEC-Barcelona STScI Maryland	Search for RSNe in highly luminous infrared galaxies	3.6	14	0.59
AC807	Capetti, A. Balmaverde, B. Axon, D.J.	Torino Torino Rochester	Continuum survey of nearby early-type galaxies	6	14, 23	2.80
AC809	Clarke, T.E. Donahue, M. Taylor, G.B.	NRL Michigan State UNM	Structure of radio-quiet cooling flow cores and a massive outburst	90, 400	7, 18	7.79
AC810	Curiel, S. Canto, J. Ho, P.T.P. Rodriguez, L.F. Torrelles, J.M. Patel, N.	UNAM UNAM CfA UNAM IEEC-Barcelona CfA	Monitoring the high-mass Cepheus A/HW2 source	0.7, 1.3, 3.6, 6	16	8.06
AC811	Choi, M.	KAO-TRAO	Water maser at protostellar jet-core impact point	1.3 line	24	1.21
AC812	Castangia, P. Tarchi, A. Henkel, C. Menten, K.	Cagliari IRA-Bologna MPIfR MPIfR	Water maser and continuum in merger galaxy NGC 520	1.3 line	17	2.81
AC817	Chandler, C. Greenhill, L.J. Reid, M. Humphreys, L. Matthews, L.D.	NRAO-Socorro CfA CfA CfA NRAO-CV	Kinematics and polarimetry of SiO masers in source I in Orion	0.7 line with PT	10, 15	14.67
AC819	Claussen, M.J. Healy, K. Bond, H. Starrfield, S. Woodward, C. Gehrz, R. Evans, A. Rushton, M.	NRAO-Socorro Arizona State STScI ASU Univ. Minnesota Minnesota Keele Keele University	Monitoring the SiO masers in V838 Monocerotis	0.7, 1.3 line	4	1.63
AD527	Dey, A. Soifer, B.T. Weedman, D.W. Higdon, J.L. Jannuzi, B. Brand, K.	NOAO Caltech-IPAC Cornell Cornell NOAO NOAO	A large Ly $\alpha$ nebula at z=2.656	6, 20	15, 18	14.79
AE153	Eilek, J. Owen, F.	NMIMT NRAO-Socorro	Imaging of cooling core radio sources	20, 90 with PT	28	8.02
AE156	Eyres, S. Bode, M. O'Brien, T. Evans, N. Davis, R. Worters, H. Porcas, R. Uytterhoeven, K.	Central Lancashire John Moores Jodrell Bank Texas Jodrell Bank Lancashire MPIfR Lancashire	ToO Observations of RS Oph	1.3, 3.6, 6, 20 ToO	6, 13, 20, 27	3.33
AF431	Frail, D. Cameron, P. Kulkarni, S.	NRAO-Socorro Caltech Caltech	Triggered search for coherent emission from GRBs	90, 400 TRIGGER	7	1.10

## VLA Utilization Report April 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AF433	Franco-Hernandez, R. Moran, J. Rodriguez, L.F. Lizano, S. Avalos, M.	CfA CfA UNAM UNAM UNAM	Structure of hypercompact HII regions	0.7	2	3.33
AG697	Gross, C. Brogan, C.L. Clarke, T.E. Dickel, J. Kassim, N.E. Weiler, K.	NRL Hawaii-IFA NRL Illinois NRL NRL	Low-frequency imaging of the SNR IC 443	90, 400	8, 9	9.49
AG710	Giroletti, M. Giovannini, G. Taylor, G.	Bologna Bologna UNM	High resolution observations of low power compact radio galaxies	1.3	4	3.24
AG711	Greaves, J.S. Richards, A.M.S.	St. Andres Jodrell Bank	Structure of HL Tau at 5 AU resolution	1.3 with PT	1	8.35
AG726	Gugliucci, N. Braatz, J.	Virginia NRAO-GB	Cals and maser position for UGC 3789	1.3 EXPLORE	21	1.62
AH893	Hardcastle, M.H. Croston, J. Kassim, N.E. Perley, R.	Hertfordshire Hertfordshire NRL NRAO-Socorro	Low frequency observations of 3C 353	90, 400 with PT	27	6.90
AH894	Hyman, S. Lazio, T.J.W. Ray, P.S. Kassim, N.E. Wijnands, R. Muno, M.P.	Sweet Briar NRL NRL NRL Amsterdam Calif.-Los Angeles	Monitoring GCRT J1745-3009 and other radio transients in GC	90	5, 14, 25	5.28
AH899	Helfand, D. Halpern, J. Gotthelf, E. Becker, R.	Columbia Columbia Columbia Calif.-Davis	Monitoring anomalous X-ray pulsar XTE J1810-197	3.6, 20	3	1.70
AH902	Hofstadter, M. Butler, B. Gurwell, M. Orton, G. Hammel, H.	JPL NRAO-Socorro CfA JPL SSI	Imaging the atmospheres of Uranus and Neptune	1.3, 2, 6	21	6.29
AJ325	Johnson, K. Hunt, L.K. Hibbard, J. Thuan, T.X.	Virginia Arcetri NRAO-CV Virginia	Survey for super star clusters in low-metallicity galaxies	1.3, 3.6, 6 with PT	1	1.70
AK583	Kulkarni, S. Soderberg, A.M. Cenko, S. Frail, D. Harrison, F.A. Fox, D. Gal-Yam, A. Moon, D-S. Cameron, B.	Caltech Caltech Caltech NRAO-Socorro Caltech Caltech Caltech Caltech Caltech	Gamma-ray bursts, x-ray flashes, and core collapse SNe	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	...	5.21
AK626	Karovska, M. Matthews, L.D.	CfA NRAO-CV	Multifrequency continuum monitoring of Mira A & B	0.7, 1.3, 3.6, 6	7, 14	5.23
AK627	Khan, S. Ashby, M. Benford, D. Carilli, C. Chenial, P. Shafer, R. Staguhn, J. Willner, S.P.	CfA CfA NASA NRAO-Socorro NRC/GSFC NASA/GSFC Cologne CfA	Deep observation of first 350-micron selected galaxy	20	10	7.64
AL666	Leipski, C. Bennert, N. Falcke, H.	Bochum Calif.-Riverside ASTRON	Polarimetry of "figure 8" jet of ESO 428-G14	3.6 with PT	14	4.10
AL670	Lazio, T.J.W. Kassim, N.E. Cohen, A.S. Lane, W. Clarke, T.E.	NRL NRL NRL NRL NRL	Imaging FR II radio galaxies at low frequencies	90, 400	13	5.68
AM831	Monnier, J.D. Greenhill, L.J. Tuthill, P.G. Danchi, W.	Michigan CfA Sydney U. NASA-GSFC	Monitoring the colliding wind binary WR 112	3.6	22	1.28

## VLA Utilization Report April 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AM845	Menten, K. Reid, M. Claussen, M.J. Sahai, R.	MPIfR CfA NRAO-Socorro JPL	Imaging carbon star IRC+10216	0.7, 1.3	22	5.83
AM855	Myers, S.T. Boyce, E. Winn, J.N.	NRAO-Socorro MIT CfA	Search for asymmetric gravitational lenses from CLASS	1.3, 3.6, 6	3	1.28
AM857	Morrison, G. Dickinson, M. Owen, F. Bauer, F. Koekemoer, A. Mobasher, B. Chary, R-R. Frayer, D.T. Daddi, E. MacDonald, E. Pope, A. Iverson, R.J.	Hawaii-Ifa NOAO NRAO-Socorro Columbia STScI STScI Caltech Caltech NOAO NOAO UBC ROE	Imaging the GOODS Northern Field at 20cm	20	...	63.67
AM858	Miller-Jones, J. Fender, R.P. Rupen, M.	Amsterdam Southampton NRAO-Socorro	Triggered monitoring of GRS 1915+105	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	6, 13, 20, 29	5.37
AM859	Martin-Pintado, J. Chandler, C. Thum, C.	IEM-CSIC NRAO-Socorro IRAM	Kinematics of disk around massive star in MWC349	1.3 line with PT	15	7.06
AO198	Ofek, E.O. Gal-Yam, A. Frail, D.	Tel Aviv University Caltech NRAO-Socorro	Survey for radio-selected supernova	3.6, 20	9, 23, 30	5.02
AO199	Olsson, E. Beswick, R. Aalto, S. Magnusson, J. Pedlar, A.	Onsala Space Obs. Jodrell Bank Onsala Onsala Jodrell Bank	HI absorption study of LINERs NGC5218 & NGC1614	20 line	2	6.41
AP502	Paladino, R. Murgia, M.	Cagliari Bologna	Continuum-CO correlation for NGC 3627 at hundred-parsec resolution	20	11	9.78
AP503	Pihlstrom, Y. Sjouwerman, L.	UNM NRAO-Socorro	Extragalactic 1720 MHz OH megamasers	20 line	19, 22	9.51
AP504	Paladino, R. Murgia, M. Orru, E.	Cagliari Bologna Cagliari	Spectral index image of spiral galaxy NGC4826	90	5	5.59
AP510	Paredes, J. Marti, J. Chandra, I. Bosch-Ramon, V.	Barcelona U. Jaen NCRA Barcelona	TeV J2032+4130 in Cygnus	3.6 EXPLORE	1, 3	1.70
AR570	Rupen, M. Mioduszewski, A.J. Dhawan, V.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	Monitoring of and triggered response to X-ray transients	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	...	10.34
AR587	Romani, R. Healey, S. Taylor, G.B. Ulvestad, J.S. Michelson, P. Sadler, E.	Stanford Stanford UNM NRAO-Socorro Stanford Sydney U.	Survey for GLAST blazar candidates	3.6	3, 3	5.90
AR595	Reid, M. Menten, K.	CfA MPIfR	Continuum and SiO study of VY Cma	0.7	17	5.56
AR596	Robberto, M. Kamp, I. Keto, E.	STScI STScI CfA	Imaging Orion Proplyds	20	10	3.61
AS865	Stalder, B. Chambers, K.	Ifa Hawaii	Imaging sources near bright natural guide stars	3.6	20	1.22
AS876	Sokoloski, J. Rupen, M. Mioduszewski, A.	CfA NRAO-Socorro NRAO-Socorro	Structure of RS Oph	0.7, 1.3, 3.6 ToO w/PT	9	1.63
AS877	Soderberg, A.	Caltech	SN 2006bk: Over luminous Type Ic at 220 Mpc	3.6	12	0.40
AT317	Torrelles, J.M. Dent, W. Osorio, M. Calvet, N. Anglada, G.	IEEC-Barcelona UKATC, ROE IAA Michigan IAA	Circumstellar disc around Herbig AeBe star HD 1691242	0.7	17	2.01
AT318	Taylor, G.B. Fabian, A. Allen, S. Gentile, G.	UNM Cambridge Stanford SISSA-Trieste	Search for emission in high luminosity clusters	20, 90	3, 4, 14	8.04

VLA Utilization Report April 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AT319	Tarchi, A. Brunthaler, A. Henkel, C. Braatz, J.A.	IRA-Bologna MPIfR MPIfR NRAO-GB	Continuum monitoring of megamaser galaxy 3C 403	1.3	3	0.85
AU106	Urrutia, T. Becker, R. Gregg, M.	Calif.-Davis Calif.-Davis Calif.-Davis	Observations of dust-obscured quasars	6	23	1.50
AW671	Wrobel, J. Terashima, Y. Ho, L.C.	NRAO-Socorro ISAS Carnegie Obs.	LLAGN candidates in three nearby elliptical galaxies	3.6, 6	20	11.56
AW675	Weiler, K. Stockdale, C.J. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Immler, S. Pooley, D. Ryder, S.	NRL Marquette Univ. NRAO-Socorro IPAC STScI Valencia MIT NASA-GSFC Calif.-Berkeley AAO	Triggered observations of type II SNe	1.3, 2, 3.6, 6, 20, 90 TRIGGER	17, 17	2.98
AY164	Yun, M. Scott, K. Wilson, G. Yan, L. Choi, P. Frayer, D.T.	Massachusetts Massachusetts Massachusetts Caltech Caltech/IPAC Caltech	Imaging the FLS Verification Strip at 20cm	20	1, 11, 18, 23, 24, 28	29.65
AZ166	Zapata, L.A. Ho, P.T.P. Rodriguez, L.F.	Cfa Cfa UNAM	Search for companion to AB Aur	3.6	28	8.09
AZ167	Zijlstra, A. Hajduk, M. Kerber, F. vanHoof, P. Pollaco, D. Evans, A. Eyles, S.P. Kimeswenger, S.	Manchester UMIST ESO Queens-Belfast Queens University Keele Central Lancashire Univ. of Innsbruck	Monitoring the spectral indices of Sakurai's object and CK Vul	3.6, 6	9	2.44
AZ168	Zhang, Q. Keto, E. Ho, P.T.P.	Cfa Cfa Cfa	Molecular kinematics across surface of a hyper compact HII region	1.3 line	4, 10	6.96
BD114	Dougherty, S. Pittard, J. O'Connor, E. Beasley, A.J. Claussen, M.J.	DRAO Leeds UPEI NRAO-Santiago NRAO-Socorro	Structural monitoring of colliding-wind binary WR140	... Single antenna VLBI	22, 22	13.49
BK114	Kondratko, P.T. Greenhill, L.J. Moran, J. Reid, M.	Harvard Cfa Cfa Cfa	Imaging three NGC 4258-like water megamasers	1.3 Phased array VLBI	29	12.37
BK127	Knudsen, K. Walter, F. Momjian, E. Carilli, C. Yun, M.	MPIA MPIA Arecibo NRAO-Socorro Massachusetts	Imaging two submm-bright quasars at redshift 2.8	20 Phased array VLBI	30	5.67
BM241	More, A. Porcas, R. Garrett, M.A. Nair, S.	MPIfR MPIfR JIVE Raman Inst.	Imaging the gravitational lens 2016+112 at 8.4 and 15 GHz	2, 3.6 Phased array VLBI	30	5.89
S70998	Miller, J. Markoff, S. Nowak, M.A. Rupen, M. Steehls, D.	Cfa MIT MIT NRAO-Socorro Cfa	Chandra/VLA observations of LLAGN M81*	3.6	2, 26	2.77
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Software Students General tests		9	33.5 62.0 12.0 54.5 2.44 30.5



**VLA  
Utilization Report  
April, 2006**

	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	449.5	73.4
Maintenance	62.0	10.1
Test/Calc	101.0	16.5
Total	612.5	100.00

Average downtime measured in antenna hours was 19.3% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Antenna Pads	0.06
Cryogenics	0.49
Electrical	0.09
EVLA	74.40
Front End	2.54
HVAC	0.60
RFI	6.13
LO/IF	1.02
Mechanical	0.08
Monitor/Control	0.01
Obs Program	0.06
Other	1.13
Servo	1.61
Site Power	0.13
VLA Computers	0.08
VLA Correlator	0.61
Weather	10.95

## VLA Utilization Report March 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA301	Argo, M. Muxlow, T. Beswick, R. Pedlar, A. Wills, K.A. Fenech, D.	Manchester Manchester Manchester Manchester Sheffield Manchester	Monitoring of radio SNe and SNR in nearby starbursts	2, 3.6, 6, 20	8, 17	8.44
AA302	Argo, M. Muxlow, T. Beswick, R. Pedlar, A. Wills, K.A. Aalto, S. Booth, R.	Manchester Manchester Manchester Manchester Sheffield Onsala Onsala	Mainline OH masers in M82 starburst at high velocity resolution	20 line	19, 27	10.55
AB1190	Birzan, L. McNamara, B. Carilli, C. Rafferty, D. Nulsen, P. Wise, M.	Ohio U. NMSU NRAO-Socorro Ohio U. CfA MIT-CSR	Radio sources in clusters and a group with X-Ray cavities	20, 90 with PT	6, 13, 16	13.46
AB1194	Bohringer, H. Feretti, L. Giovannini, G. Pizzo, R. Sarazin, C. Schuecker, P. Zhang, Y.Y.	MPE Bologna Bologna Bologna Virginia MPIE MPIE	Cluster RXCJ1504.1-0248 with a luminous cooling core	3.6, 20	28, 29	10.22
AB1198	Brunthaler, A. deBlok, E. Reid, M. Henkel, C. Falcke, H.	MPIfR Mt. Stromlo CfA MPIfR ASTRON	Water maser survey of NGC 6822	1.3 line	13, 25	3.94
AB1201	Bower, G.C. Bolatto, A. Kalas, P. Matthews, B. Wright, J. Graham, J. Marcy, G.	Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley HIA Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley	Phase referencing calibrators for nearby M dwarfs	3.6	6	0.85
AB1204	Bietenholz, M.F. Bartel, N. Rupen, M.	York U. York U. NRAO-Socorro	Spectral evolution of young pulsar nebula/black hole in SN 1986J	0.7, 1.3, 2, 3.6, 6, 20, 90	5	7.51
AB1205	Bietenholz, M.F. Bartel, N.	York U. York U.	Newly identified plerion G21.5-0.9	6	7	5.04
AC803	Carilli, C. Bertoldi, F. Walter, F. Menten, K. Fan, X. Strauss, M. Cox, P. Omont, A. Beelen, A.	NRAO-Socorro Bonn Univ. MPIA MPIfR Arizona Princeton IAP-Paris IAP-Paris MPIfR	Continuum from z~6 SDSS QSOs	20	23, 23, 24	15.74
AC811	Choi, M.	KAO-TRAO	Water maser at protostellar jet-core impact point	1.3 line	24	1.26
AC814	Chatterjee, S. Lazio, T.J.W. Vlemmings, W.H.T.	Cornell NRL Jodrell Bank	Proper motion for a new relativistic binary pulsar	20	13	2.39
AC819	Claussen, M.J. Healy, K. Bond, H. Starrfield, S. Woodward, C. Gehrz, R. Evans, A. Rushton, M.	NRAO-Socorro Arizona State STSci Arizona State Minnesota Minnesota Keele Keele	Monitoring the SiO masers in V838 Monocerotis	0.7, 1.3 line	6	1.28
AD520	DeBreuck, C. Seymour, N. Klamer, I. Alexander, D. Stern, D. Vernet, J. vanBreugel, W. Carilli, C.	ESO-Garching Caltech-IPAC Sydney IoA JPL ESO Lawrence Livermore NRAO-Socorro	Polarimetric imaging of radio galaxies observed with Spitzer	3.6, 6	15	2.13

## VLA Utilization Report March 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AD524	Devine, K.E. Chandler, C. Brogan, C.L. Churchwell, E.	Wisconsin NRAO-Socorro Hawaii-IfA Wisconsin	Search for massive protostars in GLIMPSE infrared dark clouds	3.6	5, 8, 27, 30	8.91
AE156	Eyres, S. Bode, M. O'Brien, T. Evans, N. Davis, R. Worters, H. Porcas, R. Uytterhoeven, K.	Lancashire John Moores Jodrell Bank Texas Jodrell Bank Lancashire MPIfR Lancashire	ToO Observations of RS Oph	1.3, 3.6, 6, 20 ToO	6, 13, 23, 30	3.22
AF400	Fontani, F. Beltran, M. Cesaroni, R. Testi, L. Walmsley, C.M.	Arcetri Barcelona Arcetri Arcetri Arcetri	Water masers in candidate massive YSOs	1.3 line	25	0.85
AF429	Fish, V.L.	NRAO-Socorro	SH radical in Miras	3.6 line	3	8.29
AF436	Forbrich, J. Menten, K. Schreyer, K. Henning, T.	MPIfR MPIfR Jena Jena	Water maser and continuum toward candidate massive protostar UYS01	1.3, 3.6	17	1.70
AG710	Giroletti, M. Giovannini, G. Taylor, G.B.	Bologna Bologna UNM	Structure of low-power compact radio galaxies	1.3, 3.6	10, 11	6.56
AG711	Greaves, J.S. Richards, A.M.S.	St. Andres Jodrell Bank	Structure of HL Tau at 5 AU resolution	1.3 with PT	12	5.42
AG715	Gaensler, B.M. Gelfand, J. Taylor, G.B. Kouveliotou, C. Eichler, D. Lyubarsky, Y. Granot, J. Ramirez-Ruiz, E. Wijers, R. Fender, R.P. Garrett, M.A.	Cfa Cfa UNM NASA-MSFC Ben Gurion Univ. Ben Gurion Univ. KIPAC IAS Amsterdam Southampton JIVE	Imaging and monitoring of afterglow of SGR 1806-20	3.6	21	6.74
AH894	Hyman, S. Lazio, T.J.W. Ray, P.S. Kassim, N.E. Wijnands, R. Muno, M.P.	Sweet Briar NRL NRL NRL Amsterdam Calif.-Los Angeles	Monitoring GCRT J1745-3009 and other radio transients in GC	90	3, 15, 27, 31	6.85
AJ324	Johnson, K. Biswas, I. O'Connell, R.W.	Virginia Virginia Virginia	Survey for super star clusters in starburst galaxies	3.6, 6 with PT	13, 20, 25, 26	34.06
AJ325	Johnson, K. Hunt, L.K. Hibbard, J. Thuan, T.X.	Virginia Arcetri NRAO-CV Virginia	Survey for super star clusters in low-metallicity galaxies	1.3, 3.6, 6 with PT	31	1.61
AK583	Kulkarni, S. Soderberg, A.M. Cenko, S. Frail, D. Harrison, F.A. Fox, D. Gal-Yam, A. Moon, D-S. Cameron, B.	Caltech Caltech Caltech NRAO-Socorro Caltech Caltech Caltech Caltech Caltech	Gamma-ray bursts, x-ray flashes, and core collapse SNE	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	...	15.33
AL666	Leipski, C. Bennert, N. Falcke, H.	Bochum Calif.-Riverside ASTRON	Polarimetry of "figure 8" jet of ESO 428-G14	3.6 with PT	18	4.54
AM831	Monnier, J.D. Greenhill, L.J. Tuthill, P.G. Danchi, W.	Michigan Cfa Sydney U. NASA-GSFC	Monitoring the colliding wind binary WR 112	3.6	25	1.28
AM846	McHardy, I.M. Moss, D. Seymour, N. Dwelly, T.	Southampton Southampton Caltech-IPAC MSSL, UCL	Sub-mJy radio sources with X-ray counterparts	20	19	2.84

VLA Utilization Report March 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AM851	Montenegro-Montes, F Mack, K.-H. Vigotti, M. Benn, C. Gonzales-Serrano, J. Carballo, R.	IRA-Bologna ASTRON IRA-Bologna ING-La Palma Cantabria Cantabria	SEDs and polarization properties of radio-loud BAL quasars	0.7, 1.3, 2, 3.6	5, 6	4.28
AM855	Myers, S.T. Boyce, E. Winn, J.N.	NRAO-Socorro MIT CfA	Search for asymmetric gravitational lenses from CLASS	1.3, 3.6, 6	18, 19	5.09
AM857	Morrison, G. Dickinson, M. Owen, F. Bauer, F. Koekemoer, A. Mobasher, B. Chary, R-R. Frayer, D.T. Daddi, E. MacDonald, E. Pope, A. Iverson, R.J.	Hawaii-Ifa NOAO NRAO-Socorro Columbia STScI STScI Caltech Caltech NOAO NOAO UBC ROE	Imaging the GOODS Northern Field at 20cm	20	30	5.78
AM858	Miller-Jones, J. Fender, R.P. Rupen, M.	Amsterdam Southampton NRAO-Socorro	Triggered monitoring of GRS 1915+105	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	10, 17, 23, 30	2.89
AN127	Nakanishi, K. Okumura, S. Kawabe, R. Kohnno, K. Kuno, N. Sato, N.	NAOJ-Nobeyama NAOJ-Nobeyama NAOJ-Nobeyama Tokyo Univ. NAOJ-Nobeyama NAOJ-Nobeyama	SED monitoring of luminous infrared galaxy NGC6240	1.3, 2, 3.6, 6, 20	25	2.56
AO198	Ofek, E. Frail, D. Gal-Yam, A.	Tel Aviv NRAO-Socorro Caltech	Survey for radio-selected SN	3.6, 20	12	1.17
AO201	Owen, F. Morrison, G. Lonsdale, C.J. Eilek, J. Smith, G. Polletta, M.	NRAO-Socorro Hawaii-Ifa Caltech-IPAC NMIMT Calif.-San Diego Calif.-San Diego	Imaging the SWIRE Deep Field at 90cm	90	2, 3, 9	30.44
AR570	Rupen, M. Mioduszewski, A.J. Dhawan, V.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	Monitoring of and triggered response to X-ray transients	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	...	12.91
AR587	Romani, R. Healey, S. Taylor, G.B. Ulvestad, J.S. Michelson, P. Sadler, E.	Stanford Stanford UNM NRAO-Socorro Stanford Sydney U.	Survey for GLAST blazar candidates	3.6	22	2.98
AR588	Reid, M. Menten, K.	CfA MPIfR	Positions and proper motions of SiO maser stars near SgrA*	0.7 line	6, 18, 19	12.66
AS846	Soderberg, A.M. Kulkarni, S. Frail, D. Chevalier, R.A.	Caltech Caltech NRAO-Socorro Virginia	Type Ibc supernovae	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	7, 26	3.41
AS858	Sjouerman, L. Claussen, M.J.	NRAO-Socorro NRAO-Socorro	Circumstellar 1612 MHz OH masers with four spectral peaks	20 line with PT	9, 20	2.54
AS859	Schinnerer, E. Carilli, C. Bertoldi, F. Smolicic, V. Blain, A.W. Voss, H. Scoville, N.Z.	MPIA NRAO-Socorro Bonn Univ. MPIA Caltech MPIfR Caltech	Imaging the COSMOS field at 20cm	20	4, 5, 10, 11, 12, 17	31.46
AS863	Suarez, O. Gomez, J.F. Miranda, L.F.	ESA-LAEFF ESA-LAEFF IAA-CSIC	H2O and OH masers in water-fountain source IRAS16552-3050	1.3, 20 line	22, 23, 24, 26	10.02
AS864	Soderberg, A.M. Frail, D. Kulkarni, S.	Caltech NRAO-Socorro Caltech	Monitoring the bright GRB 030329	3.6, 6, 20	21	3.36
AT317	Torrelles, J.M. Dent, W. Osorio, M. Calvet, N. Anglada, G.	IEEC-Barcelona ROE IAA Michigan IAA	Circumstellar disc around Herbig AeBe star HD 1691242	0.7	4, 10, 11	6.84

VLA Utilization Report March 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AT318	Taylor, G.B. Fabian, A. Allen, S. Gentile, G.	UNM Cambridge Stanford SISSA-Trieste	Search for emission in high luminosity clusters	20, 90	10	1.45
AT319	Tarchi, A. Brunthaler, A. Henkel, C. Braatz, J.A.	IRA-Bologna MPIfR MPIfR NRAO-GB	Continuum monitoring of megamaser galaxy 3C 403	1.3	4	0.85
AT320	Tueller, J. Markwardt, C. Gehrels, N. Braatz, J.A. Frail, D.	NASA NASA NASA NRAO-GB NRAO-Socorro	Counterparts of unidentified hard X-ray sources	20	7	9.37
AT322	Takano, S. Nakanishi, K. Nakai, N. Takano, T.	NAOJ-Nobeyama NAOJ-Nobeyama Tsukuba Univ. Chiba Univ.	The ammonia absorption line in Arp 220	1.3 line	1	10.18
AU106	Urrutia, T. Becker, R. Gregg, M.	Calif.-Davis Calif.-Davis Calif.-Davis	Observations of dust-obscured quasars	6	20, 22, 27, 29	6.55
AW673	Wilner, D. Claussen, M.J. Calvet, N. Hartmann, L.	CfA NRAO-Socorro Michigan Michigan	Imaging the protoplanetary-disk inner hole of TW Hya	0.7	6	3.41
AW675	Weiler, K. Stockdale, C.J. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Inmler, S. Pooley, D. Ryder, S.	NRL Marquette Univ. NRAO-Socorro IPAC STScI Valencia MIT NASA-GSFC Calif.-Berkeley AAO	Triggered observations of type II SNe	1.3, 2, 3.6, 6, 20, 90 TRIGGER	25, 26	2.13
AY163	Yi, J. Booth, R. Conway, J.E.	KASI Onsala Onsala	Joint VLA/VLBA observations of SiO masers in two Miras	0.7 line with PT	4	6.81
AZ168	Zhang, Q. Keto, E. Ho, P.T.P.	CfA CfA CfA	Molecular kinematics across surface of a hyper compact HII region	1.3 line	12, 14	12.83
BB217	Boyce, E. Winn, J.N. Myers, S.T. Rusin, D. Hewitt, J. Keeton, C.	MIT CfA NRAO-Socorro Pennsylvania MIT Rutgers Univ.	Observations of gravitational lens central images	6 Phased array VLBI	15	3.83
BH139	Hough, D.H. Aars, C.	Trinity Angelo State Univ.	Imaging the faint nucleus in FR II radio galaxy 3C 441	3.6 Phased array VLBI	26	3.08
S70702	Miller, J. Fabian, A. Reynolds, C.S. vanderKlis, M. Wijnands, R. Rupen, M. Steeghs, D. Charles, P.A. Raymond, J. Homan, J. Lewin, W.H.G.	CfA Cambridge Maryland Amsterdam Amsterdam NRAO-Socorro CfA Southampton CfA MIT MIT	Triggered Chandra/VLA observations of BH transient in outburst	3.6, 6 TRIGGER	17	2.35
S70998	Miller, J. Markoff, S. Nowak, M.A. Rupen, M. Steeghs, D.	CfA MIT MIT NRAO-Socorro CfA	Chandra/VLA observations of LLAGN M81*	3.6	6	1.43
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Software Students General tests		26, 31	40.5 79.1 12.0 59.5 4.76 40.5

**VLA  
Utilization Report  
March, 2006**

	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	403.0	62.98
Maintenance	79.0	12.34
Test/Calc	158.0	24.68
Total	640.0	100.00

Average downtime measured in antenna hours was 20.47% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Cryogenics	0.49
EVLA	66.77
Focus/Rotation	0.03
Front End	1.18
HVAC	0.71
RFI	10.76
LO/IF	0.19
Mechanical	0.01
Monitor/Control	0.43
Obs Program	0.02
Other	0.05
Servo	0.78
Site Power	0.83
Weather	17.74

## VLA Utilization Report February 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA302	Argo, M. Muxlow, T. Beswick, R. Pedlar, A. Wills, K.A. Aalto, S. Booth, R.	Manchester Manchester Manchester Manchester Sheffield Onsala Onsala	Mainline OH masers in M82 starburst at high velocity resolution	20 line	7, 16, 21	18.91
AB1199	Berciano-Alba, A. Garrett, M.A. Koopmans, L. Wucknitz, O.	Groningen JIVE Groningen JIVE	Deep observations of lensed sub-mm interacting galaxies at z=2.9	20	5, 10	14.62
AB1201	Bower, G.C. Bolatto, A. Kalas, P. Matthews, B. Wright, J. Graham, J. Marcy, G.	Calif., Berkeley Calif., Berkeley Calif., Berkeley HIA Calif., Berkeley Calif., Berkeley Calif., Berkeley	Phase referencing calibrators for nearby M dwarfs	3.6	5, 6, 21, 25	3.16
AC616	Colina, L. Alberdi, A. Torrelles, J.M. Panagia, N. Wilson, A.	IFCA IAA IEEC-Barcelona STScI Maryland	Search for new radio supernovae in NGC 7469	3.6	5	3.21
AC805	Croston, J. Hardcastle, M.H. Kraft, R.	Hertfordshire Hertfordshire CfA	Structure and spectrum of radio galaxy NGC 3801	6, 20	17	1.70
AC807	Capetti, A. Axon, D. Balmaverde, B.	INAF RIT Torino	Host galaxy/AGN connection in nearby early-type galaxies	6	24	2.98
AC810	Curiel, S. Canto, J. Ho, P.T.P. Rodriguez, L.F. Torrelles, J.M. Patel, N.	UNAM UNAM CfA UNAM IEEC-Barcelona CfA	Monitoring the high-mass Cepheus A/HW2 source	0.7, 1.3, 3.6, 6 with PT	11	10.19
AC813	Chatterjee, S. Wasserman, I. Cordes, J. Tye, S-H.	Cornell Cornell Cornell Cornell	Continuum search in CLS-1 field	6	22	6.74
AC818	Cheung, C.C. Landt, H.	MIT CfA	Structure of X-shaped FIRST sources	3.6, 20	4	17.89
AD520	DeBreuck, C. Seymour, N. Klamer, I. Alexander, D. Stern, D. Vernet, J. vanBreugel, W. Carilli, C.	ESO-Garching Caltech-IPAC Sydney IoA JPL ESO Lawrence Livermore NRAO-Socorro	Polarimetric imaging of radio galaxies observed with Spitzer	3.6, 6	19, 24, 26	27.35
AD524	Devine, K. Brogan, C. Chandler, C. Churchwell, E.	Wisconsin IfA NRAO-Socorro Wisconsin	Search for massive protostars in GLIMPSE infrared dark clouds	3.6	3	3.57
AE156	Eyres, S. Bode, M. Davis, R. Evans, N. O'Brien, T. Porcas, R. Uytterhoeven, K. Worters, H.	Lancashire John Moores Manchester Keele Manchester MPIfR Lancashire Lancashire	Recurrent Nova RS Oph	1.3, 3.5, 6, 20	17, 26	2.12
AF429	Fish, V.L.	NRAO-Socorro	SH radical in Miras	3.6 line	25	8.50
AF434	Franco-Hernandez, R. Rodriguez, L.F. Moran, J.	CfA UNAM CfA	Time variability in ultracompact HII region NGC 7538 IRS1	2	26	3.41

VLA Utilization Report February 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AG715	Gaensler, B.M. Gelfand, J. Taylor, G.B. Kouveliotou, C. Eichler, D. Lyubarsky, Y. Granot, J. Ramirez-Ruiz, E. Wijers, R. Fender, R.P. Garrett, M.A.	CfA CfA UNM NASA-MSFC Ben Gurion Univ. Ben Gurion Univ. KIPAC IAS Amsterdam Southampton JIVE	Imaging and monitoring of afterglow of SGR 1806-20	3.6 with PT	4	6.82
AH885	Harris, D.E. Junor, W. Cheung, C.C.	CfA Los Alamos MIT	Monitoring knot HST-1 in the M87 jet	1.3, 2, 3.6	14	6.77
AH892	Hardcastle, M.H. Kraft, R. Worrall, D.	Hertfordshire CfA Bristol	Proper motion and variability in jet of Centaurus A	3.6 with PT	18	3.24
AH894	Hyman, S. Lazio, T.J.W. Ray, P.S. Kassim, N.E. Wijnands, R. Muno, M.P.	Sweet Briar NRL NRL NRL Amsterdam Calif.-LosAngeles	Monitoring GCRT J1745-3009 and other radio transients in GC	90	18	2.51
AH899	Helfand, D. Halpern, J. Gotthelf, E. Becker, R.	Columbia Columbia Columbia Calif.-Davis	Monitoring anomalous X-ray pulsar XTE J1810-197	3.6, 20	28	0.85
AH904	Humphreys, E.M.L. Reid, M. Menten, K.	CfA CfA MPIfR	Search for water maters in the Galactic Center	1.3 line	16, 17	8.48
AK626	Karovska, M. Matthews, L.D.	CfA CfA	Multifrequency continuum monitoring of Mira A & B	0.7, 1.3, 3.6, 6	12	7.67
AL672	Loinard, L. Rodriguez, L.F. Wilner, D. Ho, P.T.P. D'Alessio, P.	UNAM UNAM CfA CfA UNAM	SED as a function of radius in IRAS16293-2422B disk	1.3	9	5.0
AL673	Lazio, T.J.W. Brogan, C.L. Gaensler, B.M. Gelfand, J. Lazendic, J. Kassim, N.E. McClure-Griffiths, N	NRL Hawaii-IFA CfA CfA MIT NRL ATNF	Search for PWN and OH masers in TeV SNR G12.8-0.0	20 line	25	2.98
AL675	Lee, T.-H. Lim, J. Kwok, S.	NOAO Academia Sinica Calgary/ASIAA	Structure and spectra of cores of narrow-waist bipolar nebulae	0.7, 1.3, 2, 3.6, 6 with PT	14	5.89
AM821	Marecki, A. Mack, K.-H.	Torun ASTRON	Structure of potentially restarted sources	20	21	0.85
AM831	Monnier, J.D. Greenhill, L.J. Tuthill, P.G. Danchi, W.	Michigan CfA Sydney U. NASA-GSFC	Monitoring the colliding wind binary WR 112	3.6	11	1.28
AM845	Menten, K. Reid, M. Claussen, M.J. Sahai, R.	MPIfR CfA NRAO-Socorro JPL	Imaging carbon star IRC+10216	0.7, 1.3	25	6.39
AM846	McHardy, I.M. Moss, D. Seymour, N. Dwelly, T.	Southampton Southampton Caltech-IPAC MSSL, UCL	Sub-mJy radio sources with X-ray counterparts	20	17, 18, 24	16.70
AM851	Montenegro-Montes, F Mack, K.-H. Vigotti, M. Benn, C. Gonzales-Serrano, J. Carballo, R.	IRA-Bologna ASTRON IRA-Bologna ING-La Palma Cantabria Cantabria	SEDs and polarization properties of radio-loud BAL quasars	0.7, 1.3, 2, 3.6	12	20.63
AM855	Myers, S.T. Boyce, E. Winn, J.N.	NRAO-Socorro MIT CfA	Search for asymmetric gravitational lenses from CLASS	1.3, 3.6, 6	11, 19	9.90



## VLA Utilization Report February 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AM857	Morrison, G. Dickinson, M. Owen, F. Bauer, F. Koekemoer, A. Mobasher, B. Chary, R-R. Frayser, D.T. Daddi, E. MacDonald, E. Pope, A. Iverson, R.J.	Hawaii-Ifa NOAO NRAO-Socorro Columbia STScI STScI Caltech-IPAC Caltech NOAO NOAO UBC ROE	Imaging the GOODS Northern Field at 20cm	20	21	5.84
AM858	Miller-Jones, J. Fender, R.P. Rupen, M.	Amsterdam Southampton NRAO-Socorro	Following the transient ejecta of GRS 1915+105 out to arcsecond scales	20	28	0.96
AN127	Nakanishi, K. Okumura, S. Kawabe, R. Kohno, K. Kuno, N. Sato, N.	NAOJ-Nobeyama Nobeyama Radio Obs. NAOJ-Nobeyama Tokyo Univ. NAOJ-Nobeyama NAOJ-Japan	SED monitoring of luminous infrared galaxy NGC6240	1.3, 2, 3.6, 6, 20	12	2.55
AO201	Owen, F. Morrison, G. Lonsdale, C.J. Eilek, J. Smith, G. Polletta, M.	NRAO-Socorro Hawaii-Ifa Caltech-IPAC NMIMT Calif.-San Diego Calif., San Diego	Imaging the SWIRE Deep Field at 90cm	90	18, 26	20.41
AO202	O'Sullivan, E. Harris, D.E. Vrtilek, J. Ponman, T.	Cfa Cfa Cfa Birmingham	Structure of AGN in NGC 3411 galaxy group	6, 20	15	5.96
AP500	Pihlstrom, Y. Sloewerman, L.	UNM NRAO-Socorro	Monitoring galactic center 1720 MHz OH masers	20 line	23	3.54
AP501	Perlman, E. Landt, H. Padovani, P. Giommi, P.	Maryland-Baltimore Cfa ESO Rome Obs.	Structure of radio quasars with synchrotron peaks in the UV or X-ray	20	6	15.70
AR570	Rupen, M. Mioduszewski, A.J. Dhawan, V.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	Monitoring of and triggered response to X-ray transients	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	...	10.26
AR585	Rigby, E. Best, P. Snellen, I.A.G.	Edinburgh Edinburgh Leiden	Structure of high-redshift FR I candidates	20 with PT	17	5.97
AS846	Soderberg, A. Chevalier, R. Frail, D. Kulkarni, S.	Caltech UVa NRAO-Socorro Caltech	Enigmatic type Ibc SN and their mysterious engines	0.7, 1.3	3	0.85
AS859	Schinnerer, E. Carilli, C. Bertoldi, F. Smolcic, V. Blain, A.W. Voss, H. Scoville, N.Z.	MPIA NRAO-Socorro Bonn Univ. MPIA Caltech MPIfR Caltech	Imaging the COSMOS field at 20cm	20	13, 20, 23, 24, 27	28.16
AS865	Stalder, B. Chambers, K.	Ifa Ifa	Studies of High-z radio source hosts near bright natural guide stars	3.5	28	1.71
AS870	Spekkens, K.	Rutgers	Starless halo or harassment relic?	20	3	0.85
AS875	Soderberg, A.	Caltech	SN 2006X: a young Type Ia SN in Virgo Cluster	3.6	9	2.13
AT317	Torrelles, J.M. Dent, W. Osorio, M. Calvet, N. Anglada, G.	IEEC-Barcelona UKATC, ROE IAA Michigan IAA	Circumstellar disc around Herbig AeBe star HD 1691242	0.7	21	2.53
AT321	Taylor, G.B. Fabian, A. Allen, S. Gentile, G. Crawford, C.	UNM Cambridge Stanford SISSA-Trieste Cambridge	Faraday rotation in the Centaurus Cluster	3.6, 6	8	4.26
AT324	Tsai, C-W. Beck, S. Turner, J.	Calif.-Los Angeles Tel Aviv Calif.-Los Angeles	Mapping the super star cluster nebula in NGC 7714	1.3	3,4	1.71
AT325	Torrelles, J.M. Rodriguez, L.F. Anglada, G.	IEEC-Barcelona UNAM IAA	Central region of quadrupolar outflow HH 111	0.7	9, 14	8.51

## VLA Utilization Report February 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AU108	Umana, G. Cerrigone, L. Trigilio, C.	INAF CfA INAF	High resolution observations of young planetary nebulae	3.6	2,3,4	1.12
AW672	Williams, P.M. Dougherty, S.	Edinburgh DRAO	Monitoring the emission from WR 125	3.6, 6, 20	18	1.70
AW673	Wilner, D. Claussen, M.J. Calvet, N. Hartmann, L.	CfA NRAO-Socorro Michigan Michigan	Imaging the protoplanetary-disk inner hole of TW Hya	0.7	9, 9, 10	10.77
AW675	Weiler, K. Stockdale, C.J. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Immler, S. Pooley, D. Ryder, S.	NRL Marquette Univ. NRAO-Socorro IPAC STScI Valencia MIT NASA-GSFC Calif.-Berkeley AAO	Triggered observations of type II SNe	1.3, 2, 3.6, 6, 20, 90 TRIGGER	26	1.70
AW676	Weiler, K. Stockdale, C.J. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Immler, S. Pooley, D.	NRL Marquette Univ. NRAO-Socorro IPAC STScI Valencia MIT NASA-GSFC Calif.-Berkeley	Long term monitoring of radio supernovae	1.3, 2, 3.6, 6, 20, 90	1	10.94
AW682	Weiler, K. Immler, S. Panagia, N. Sramek, R. Stockdale, C. VanDyk, S.	NRL NASA STScI NRAO-Socorro Marquette Caltech	Thermonuclear SN (Type Ia) 2006X	1.3	9,21	3.41
AY165	Yusef-Zadeh, F. Cotton, W.D.	Northwestern NRAO-CV	Search for extended 7mm emission from Sgr A*	0.7 with PT	10	5.90
BB143	Braatz, J. Greenhill, L. Henkel, C. Moran, J. Wilson, A.	NRAO-CV CfA MPIfR CfA UMD	Imaging nuclear water maser in Mrk 1419	1.3	3	0.42
BB220	Boboltz, D. Wittkowski, M. Driebe, T. Ohnaka, K.	USNO ESO MPIfR MPIfR	Coordinated VLBA/VLTI observations of GX Mon	0.7 line	23	0.85
S70551	Migliari, S. Fender, R.P. Miller-Jones, J. vanderKlis, M. Tomsick, J.	Amsterdam Southampton Amsterdam Amsterdam Calif.-San Diego	Chandra/VLA observations of jets of SS 433	6	19, 26, 27	7.68
S70998	Miller, J. Markoff, S. Nowak, M.A. Rupen, M. Steeghs, D.	CfA MIT MIT NRAO-Socorro CfA	Chandra/VLA observations of LLAGN M81*	3.6	8	0.96
S71062	Harris, D.E. Birkinshaw, M. Cheung, C.C. Gelbord, J. Landt, H. Jorstad, S.G. Marshall, H. Perlman, E. Schwartz, D. Stawarz, L. Worrall, D.	CfA Bristol MIT MIT CfA Boston Univ. MIT Maryland-Baltimore CfA CfA Bristol	Chandra/VLA observations of quasar 4C 19.44	6, 20	6	8.41

VLA Utilization Report February 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
S7702	Miller, J.M. Charles, P. Fabian, A. Lewin, W. Raymond, J. Reynolds, C. Rupen, M. Smith, J. Steeeghs, D. vanderKlis, M. Wijnands, R.	CfA CfA Cambridge MIT CfA Maryland NRAO-Socorro MIT CfA Amsterdam Amsterdam	Chandra/VLA observations of black hole transient		24	2.40
	Staff	NRAO	Baselines, Pointing, Delays Dynamic scheduling test Maintenance Polarization Calibrator Monitoring Software Students General tests		12	34.0 26.5 61.9 9.0 44.5 1.70 35.5

**VLA  
Utilization Report  
February, 2006**

	Actual Hours	Percentage
Astronomy	412.0	68.78
Maintenance	80.0	13.36
Test/Calc	107.0	17.86
Total	599.0	100.00

Average downtime measured in antenna hours was 15.05% of scheduled antenna hours, distributed as:

System	Percentage
Clocks/Timing	0.09
Cryogenics	1.25
Electrical	0.03
EVLA	89.11
Focus/Rotation	0.32
Front End	1.15
HVAC	0.01
RFI	1.82
LO/IF	0.69
Mechanical	0.05
Other	0.14
Servo	1.68
VLA Correlator	0.23
Weather	3.52

## VLA Utilization Report January 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA300	Arce, H. Tafalla, M. Anglada, G.	AMNH OAN IAA	Imaging ammonia cores in Perseus molecular clouds	1.3 line	10, 12	8.34
AB1185	Beck, R. Berkhuijsen, E. Fletcher, A.	MPIfR MPIfR Univ. Newcastle	Polarimetry of two regions in M31	3.6, 6	2, 6, 7, 14	28.02
AB1186	Baker, A. Chandler, C. Garcia-Burillo, S. Lehnert, M.	Maryland NRAO-Socorro OAN-Madrid MPE, Garching	SiO in the prototypical starburst M82	0.7	18,22,23,25	8.45
AB1193	Barthel, P. deZeeuw, P.T. Peletier, R.F.	Kapteyn Leiden Kapteyn	Driving nuclear activity in galaxies	3.5	31	1.27
AB1195	Blomme, R. DeBecker, M. Rauw, G. Runacres, M. VanLooy, S.	Royal Obs. Liege Liege Univ. Brussel Leeds	Colliding winds of O=O star	3.6, 6, 20	26	0.78
AB1201	Bower, G.C. Bolatto, A. Graham, J. Kalas, P. Marcy, G. Matthews, B. Wright, J.	Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley HIA Calif.-Berkeley	Astrometric detection of planets around Nearby stars	4	20,25,26,30	1.74
AC782	Carilli, C. Walter, F. Knudsen, K. Riechers, D. Bertoldi, F. Menten, K. Beelen, A. Cox, P. Omont, A.	NRAO-Socorro MPIA MPIA MPIA Bonn Univ. MPIfR MPIfR IAP-Paris IAP-Paris	Search for CO emission from QSO J1048+4637 at z=6.2	0.7	10	4.37
AC792	Choi, M.	KAO-TRAO	SiO study of directional variability of protostellar outflows	0.7 line	5, 7	5.53
AC796	Chung, A. vanGorkom, J. Kenney, J. Vollmer, B. Crowl, H. Schiminovich, D.	Columbia Columbia Yale University Strasbourg Yale Columbia	Imaging HI streamers in the Virgo Cluster	20 line	3	4.09
AC804	Claussen, M. Healy, K. Bond, H. Starrfield, S. Woodward, C. Gehrz, R. Evans, A. Rushton, M.	NRAO-Socorro ASU STScI ASU Minnesota Minnesota Keele Keele	Masers in V838 Mon	0.7, 1.3 line EXPLORE	13	1.26
AC815	Castangia, P. Braatz, J. Henkel, C. Tarchi, A.	INAF NRAO-CV MPIR, Bonn INAF	H2O kilomasers in NGC 3556 and NGC 4151	1.3	25	3.41
AC816	Curiel, S.	UNAM	On the origin of clumpy structure in HL Tau protoplanetary disk	0.7	20,22	3.37
AC820	Cameron, P.B. Frail, D. Kulkarni, S.	Caltech NRAO-Socorro Caltech	Localization and characterization of rotating radio transients	6, 20 EXPLORE	17	3.11
AD516	Devine, K.E. Chandler, C. Brogan, C.L. Indebetouw, R. Shirley, Y.L. Churchwell, E.	Wisconsin NRAO-Socorro Hawaii-IFA U. Virginia NRAO-Socorro Wisconsin	NH3 and CCS observations of GLIMPSE infrared dark clouds	1.3 line	9, 17	3.36
AD519	Dellenbusch, K. Gallagher, J.S. Knezek, P.M. Wilcots, E.	Univ. Wisconsin Wisconsin WIYN Obs. Wisconsin	HI in starbursting transition dwarf galaxies	20 line	9, 11, 12	7.75
AD524	DeVine, K. Brogan, C. Chandler, C. Churchwell, E.	Wisconsin Ifa NRAO-Socorro Wisconsin	Search for massive protostars in GLIMPSE	3.6	26,30	2.44

## VLA Utilization Report January 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AF422	Furuya, R. Cesaroni, R. Shinnaga, H.	Caltech Arcetri Caltech	The cluster of high-mass protostars in G19.61-0.23	1.3	10	2.72
AF427	Finkbeiner, D. Miller, A.	Princeton Columbia	Searching for dark matter with VLA and SZA	20	27	1.71
AG704	Gaensler, B.M. Kouveliotou, C. Gelfand, J. Taylor, G.B. Eichler, D. Granot, J. Wijers, R. Ramirez-Ruiz, E.	CfA NASA-MSFC CfA NRAO-Socorro Ben Gurion Univ. KIPAC Amsterdam IAS	Monitoring the radio afterglow of SGR 1806-20	3.6, 6	13	3.39
AH877	Helfand, D. Becker, R. White, R.	Columbia Calif.-Davis STScI	Multi-array galactic plane imaging survey	20	15	4.58
AH901	Hallinan, G. Golden, A. Doyle, J.G. Antonova, A. Bourke, S.	NUI, Galway Ireland-Galway Armagh Armagh NUI	Multifrequency observations of dwarf stars	3.6, 6, 20	20	7.75
AK583	Kulkarni, S. Soderberg, A.M. Cenko, S. Frail, D. Harrison, F.A. Fox, D. Gal-Yam, A. Moon, D-S. Cameron, B.	Caltech Caltech Caltech NRAO-Socorro Caltech Caltech Tel Aviv University Caltech Caltech	Gamma-ray bursts, x-ray flashes, and core collapse SNe	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	1, 5, 7, 13	1.10
AK614	Karovska, M. Matthews, L.D.	CfA NRAO-CV	Monitoring maser line and radio continuum fluxes of Mira	0.7, 1.3, 3.6, 20 line	13	1.70
AL660	Levy, L. Rose, J. vanGorkom, J.	UNC UNC Columbia	Search for HI plumes in galaxies in Pegasus 1 cluster	20 line	8	6.80
AL668	Lovell, J.E.J. Jauncey, D. Shabala, S. Ojha, R. Bignall, H. Kedziora-Chudczer, L. Rickett, B. Macquart, J.-P.	ATNF ATNF Cavendish ATNF JIVE ATNF Calif.-San Diego NRAO-Socorro	Followup of all-sky MASIV IDV survey	6	27	65.31
AM842	Morris, M. Walter, F.	Calif.-Los Angeles MPIA	Imaging the huge HI envelope around II Zw 44	20	16	8.16
AM843	Macquart, J.-P. deBruyn, A.G.	NRAO-Socorro ASTRON	Polarimetric monitoring of intra-hour variable quasar J1819+3845	3.6, 6	21, 22	27.24
AP495	Phan-Bao, N. Osten, R. Lim, J. Martin, E.	IAA NRAO-CV Academia Sinica IAC	Emission from brown dwarfs	3.6	1, 2	3.83
AP499	Perez-Torres, M.A. DeBreuck, C. Fort, B. Gavazzi, R.	IAA, Spain ESO IAP Pyrenees, France	Is the z=3.1 radio galaxy B3 J2330+3927	1.3	25	1.14
AR570	Rupen, M. Mioduszewski, A.J. Dhawan, V.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	Monitoring of and triggered response to X-ray transients	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	2, 7, 8, 14, 14	3.61
AR580	Riechers, D. Walter, F. Knudsen, K. Carilli, C. Bertoldi, F. Beelen, A. Weiss, A. Menten, K.	MPIA MPIA MPIA NRAO-Socorro Bonn Univ. MPIfR Bonn Univ. MPIfR	Search for molecules tracing high densities in Cloverleaf QSO	0.7, 1.3	8, 9, 12, 13	25.42
AS846	Soderberg, A.M. Kulkarni, S. Frail, D. Chevalier, R.A.	Caltech Caltech NRAO-Socorro Virginia	Type Ibc supernovae	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	1	0.83

## VLA Utilization Report January 2006

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS861	Sahai, R. Claussen, M. Morris, M. Sanchez-Contreras, C	JPL NRAO-Socorro UCLA Caltech	Mysterious outflow source - protostar, dying star, or something else?	27	27	0.09
AS868	Suarez, O. Gomez, J.F.	ESA-LAEFF ESA-LAEFF	Water masers in PN 18061	1.3 line EXPLORE	2	0.85
AS870	Spekkens, K.	Rutgers	Starless halo or harassment relic?	20	18,20,23,31	2.68
AT313	Tabatabaei, F. Krause, M. Beck, R. Berkhuijsen, E.	MPIR, Bonn MPIFR MPIFR MPIFR	Correlating MIPS and 20cm images of M33	20	5	2.13
AU108	Umana, G. Cerrigone, L. Trigilio, C.	INAF CfA INAF	High resolution obs. of young planetary nebulae	3.6	30	0.70
AV281	Vollmer, B. Beck, R. Urbanik, M. Otmianowska-Mazur, K Soida, M. Chyzy, K.T. Kenney, J. vanGorkom, J.	Strasbourg MPIFR Jagiellonian Krakov Jagiellonian Jagiellonian Yale University Columbia	Polarimetric imaging of Virgo spiral galaxies	6	2, 6, 9, 14	29.87
AV285	Verdes-Montenegro, L Yun, M. Borthakur, S.	IAA U. Mass U. Mass	HI distribution in Hickson compact groups	20 line	14	6.82
AW669	Wyrowski, F. Gibb, A.G. Hatchell, J. Pillai, T. Thompson, M.A.	MPIFR Maryland Exeter MPIFR Hertfordshire	Search for ammonia toward cold cores	1.3 line	2	2.56
AW676	Weiler, K. Stockdale, C.J. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Immler, S. Pooley, D.	NRL Marquette Univ. NRAO-Socorro IPAC STScI Valencia MIT NASA-GSFC MIT	Long term monitoring of radio supernovae	1.3, 2, 3.6, 6, 20, 90	23	20.98
BB191	Barvainis, R. Ulvestad, J.S. Birkinshaw, M. Lehar, J.	NSF NRAO-Socorro Bristol CombinatorX	Radio-quiet quasars	6 Phased array VLBI	30	2.56
BD109	Dougherty, S. Pittard, J. O'Connor, E. Beasley, A.J. Claussen, M.J.	DRAO Leeds UPEI NRAO-Santiago NRAO-Socorro	Structural monitoring of colliding-wind binary WR140	... Single antenna VLBI	20, 20	13.66
BG161	Gabuzda, D. Moloney, B. deBruyn, A.G. Macquart, J.-P. Gurvits, L.I.	Cork University Cork ASTRON NRAO-Socorro JIVE	Polarimetric imaging of scintillating quasar J1819+3845	... Phased array VLBI	5	12.56
BK127	Knudsen, K. Walter, F. Momjian, E. Carilli, C. Yun, M.	MPIA MPIA Arecibo NRAO-Socorro Massachusetts	Imaging two submm-bright quasars at redshift 2.8	20 Phased array VLBI	9	5.13
BM238	Momjian, E. Carilli, C. Walter, F. Riechers, D.	Arecibo NRAO-Socorro MPIA MPIA	Imaging the FIR-luminous QSO BRI 1335-0417 at redshift 4.4	20 Phased array VLBI	7	6.39
DYNAMI			Dynamic scheduling test			114.0
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring New Years Shutdown Software General tests			27.0 79.5 9.5 16.1 41.5 67.5

**VLA  
Utilization Report  
January, 2006**

	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	359.0	53.98
Maintenance	80.0	12.03
Test/Calc	210.0	31.58
Holiday Shutdown	16.0	2.41
Total	774.0	100.00

Average downtime measured in antenna hours was 18.05% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Antenna Pads	1.69
Cryogenics	0.56
Electrical	0.03
EVLA	82.11
Focus/Rotation	0.73
Front End	1.12
HVAC	0.13
RFI	6.33
LO/IF	1.24
Mechanical	0.04
Other	0.03
Power Supply	0.01
Servo	0.38
Site Power	0.01
VLA Computers	1.04
Weather	4.55