

## VLA Utilization Report December 2005

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	12, 22	8.52
AB1150	Birzan, L. McNamara, B. Carilli, C. Rafferty, D. Nulsen, P. Wise, M.	Ohio U. Ohio U. NRAO-Socorro Ohio U. CfA MIT-CSR	Systems with X-ray cavities	3.6	12	0.85
AB1183	Bartkiewicz, A. Szymczak, M. vanLangevelde, H.J.	Torun Torun JIVE	Continuum counterpart associated with methanol ring G23.657-0.127	0.7, 1.3	17	4.26
AB1185	Beck, R. Berkhuijsen, E. Fletcher, A.	MPIfR MPIfR Univ. Newcastle	Polarimetry of two regions in M31	3.6, 6	23	6.50
AC768	Curiel, S. Girart, J.M. Raga, A.	CfA IEEC-CSIC UNAM	Proper motions of SiO emission in the L1448 outflow	0.7 line	9	4.87
AC775	Curiel, S. Ho, P.T.P. Hirano, N. Zhang, Q. Girart, J.M.	CfA CfA ASIAA CfA IEEC-CSIC	Structure and kinematics of the SiO outflow in HH211	0.7 line	16	5.11
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	18	7.22
AC793	Chandler, C. Brogan, C.L. deGregorio-Monsalvo, Gomez, J.F. Kuiper, T.	NRAO-Socorro Hawaii-IFA LAEFF LAEFF JPL	Distribution of CCS and ammonia emission from TMC-1	1.3 line	4	2.55
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	1	5.12
AC804	Claussen, M. Healy, K. Bond, H. Starrfield, S. Woodward, C. Gehrz, R. Evans, A. Rushton, M.	NRAO-Socorro Arizona State STScI ASU Minnesota Minnesota Keele Keele	Masers in V838 Mon	0.7, 1.3 line EXPLORE	2, 31	2.55
AD509	Delain, K. Rudnick, L.	Minnesota Minnesota	Structure and spectra of diffuse sources not in rich clusters	20, 90	3, 8, 11, 12	39.22
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	10, 11, 12, 16, 17, 17	36.61
AF428	Fuente, A. Testi, L. Bachiller, R. Natta, A.	OAN-Yebes Arcetri OAN-Yebes Arcetri	SEDs of Herbig Be stars	0.7, 1.3, 3.6	2, 21	4.53
AG703	deGregorio-Monsalvo, Chandler, C. Gomez, J.F. Kuiper, T.	LAEFF NRAO-Socorro LAEFF JPL	CCS observations of protostar L1448	1.3 line	13	6.62

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AG704	Gaensler, B.M. Kouveliotou, C. Gelfand, J. Taylor, G.B. Eichler, D. Granot, J. Wijers, R. Ramirez-Ruiz, E.	CfA NASA CfA NRAO-Socorro Ben Gurion Univ. KIPAC Amsterdam IAS	Monitoring the radio afterglow of SGR 1806-20	3.6, 6	19	3.38
AH877	Helfand, D. Becker, R. White, R.	Columbia Calif.-Davis STScI	Multi-array galactic plane imaging survey	20	26	5.23
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	...	12.57
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	10, 12	5.92
AK616	Kepley, A. Wilcots, E. Robishaw, T. Heiles, C. Zweibel, E.	Madison Wisconsin Calif.-Berkeley Calif.-Berkeley Wisconsin	Polarimetric imaging of the dwarf irregular galaxy NGC 4214	3.6, 6, 20	5, 19, 23, 24, 29	38.68
AK620	Kwon, W. Looney, L.	Illinois Illinois	Kinematics of outflows and disks in L1448 IRS3	0.7, 1.3 line	2, 8	9.25
AL660	Levy, L. Rose, J. vanGorkom, J.	UNC UNC Columbia	Search for HI plumes in galaxies in Pegasus 1 cluster	20 line	3	6.82
AM819	Maccarone, T. Briskin, W. Fender, R. Mendez, M. Migliari, S. Miller-Jones, J. vanderKlis, M. Yu, W.	Amsterdam NRAO-Socorro Southampton SRON Amsterdam Amsterdam Amsterdam Illinois	Catching the rise of an outburst of Aql X-1	3.5, 6	15,18,23	5.20
AM825	Morrison, G. Dickinson, M. Owen, F. Bauer, F. Koekemoer, A. Mobasher, B. Chary, R-R. Frayser, D.T.	Hawaii-Ifa NOAO NRAO-Socorro Cambridge Mt. Stromlo STScI Caltech Caltech	Deep imaging of the GOODS northern field	20	26	1.63
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	24	1.26
AO193	Olmi, L. Hofner, P. Cesaroni, R. Araya, E. Kurtz, S.	CNR NMIMT Arcetri NMIMT UNAM	Search for 13CS from candidate disks around massive stars	0.7 line	2	2.55
AP495	Phan-Bao, N. Osten, R. Lim, J. Martin, E.	IAA NRAO-CV Academia Sinica IAC	Emission from brown dwarfs	3.6	6, 19, 20, 28, 30	11.39
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	...	14.26
AR573	Riechers, D. Walter, F. Knudsen, K. Carilli, C. Bertoldi, F. Menten, K. Cox, P. Weiss, A.	MPIA MPIA MPIA NRAO-Socorro Bonn Univ. MPIfR IAP-Paris Bonn Univ.	Molecular gas in QSO host galaxies at z>4	0.7	2, 10, 11, 13	19.54

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AR583	Renno, N. Atreya, S.K. Wong, A-S. dePater, I. Sault, R.J. Cantor, B. Delory, G.	Michigan Michigan Michigan Calif.-Berkeley ATNF Malin Space Sci. Calif.-Berkeley	Simultaneous VLA/MGS observations of Martian dust events	0.7, 2, 20	1	6.77
AS800	Sjouerman, L. Messineo, M. Habing, H. Honma, M. Imai, H.	NRAO-Socorro Leiden Leiden NAOJ-Mizusawa Kagoshima U.	Monitoring circumstellar SiO masers near Sgr A*	0.7 line	18	1.71
AS805	Spitzer Legacy Team Shirley, Y. Evans II, N.	ASU Univ. Texas	Search for ionized gas near surprising Spitzer-Detected source, L1014-SMM1	3.6	6	2.98
AS848	Su, Y-N. Liu, S.-Y. Lim, J.	Academia Sinica Academia Sinica Academia Sinica	Ammonia observations of Onsaia 1 region	1.3 line	23, 30	2.74
AS850	Schreyer, K. Hofner, P. Araya, E. Linz, H. Stecklum, B.	Jena NMIMT NMIMT MPIA Thuringian	CS observations of disk candidate in AFGL 490	0.7 line	15	5.58
AS868	Suarez, O. Gomez, J.F.	ESA-LAEFF ESA-LAEFF	Water masers in PN 18061	1.3 line EXPLORE	3	0.83
AT312	Tripp, T.M. Yun, M. Bowen, D.V. Prochaska, J. Jenkins, E.B.	Massachusetts Massachusetts Princeton Calif., Santa Barbara Princeton	A damped Lyman alpha absorber in the outskirts of Virgo Cluster	20 line	22	6.25
AV281	Vollmer, B. Beck, R. Urbanik, M. Otmianowska-Mazur, K Soida, M. Chyzy, K.T. Kenney, J. vanGorkom, J.	Strasbourg MPIFR Jagiellonian Krakow Jagiellonian Jagiellonian Yale University Columbia	Polarimetric imaging of Virgo spiral galaxies	6	3, 8, 15	20.71
AV284	VandenBout, P.A. Carilli, C. Solomon, P.M. Gao, Y.	NRAO-CV NRAO-Socorro SUNY Purple Mountain	Search for HCN emission from high-redshift galaxies	0.7, 1.3 line	16, 17, 18, 19, 21, 26	30.83
AV285	Verdes-Montenegro, L Yun, M. Borthakur, S.	IAA UMass UMass	HI distribution in Hickson compact groups	20 line	27	6.60
AW641	Weiler, K. Stockdale, C. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Pooley, D. Immler, S. Ryder, S.	NRL Marquette Univ. NRAO-Socorro IPAC STScI Valencia MIT MIT NASA-GSFC AAO	Triggered observations of type II SNe	1.3, 2, 3.6 TRIGGER	20	0.82
AW664	Wright, E. Chen, X.	Calif.-Los Angeles Shao	Snapshots of 9 WMAP point sources	3.6	5	1.28
AY160	Yun, M. Verdes-Montenegro, L deOlimo, A.	Massachusetts IAA IAA	Search for diffuse HI in Hickson compact group 40	20 line	16	6.73
AY161	Young, L. Blitz, L. Rosolowsky, E.	NMIMT Calif.-Berkeley Calif.-Berkeley	Search for HI in three Virgo cluster S0 galaxies	20 line	20	3.81
AZ163	Zhang, Q. Chen, Y.J. Beuther, H.	Cfa Shanghai Cfa	SiO imaging of protostars with candidate disks	0.7 line	31	2.48
BB217	Boyce, E. Winn, J.N. Myers, S.T. Rusin, D. Hewitt, J. Keeton, C.	MIT/NRAO Cfa NRAO-Socorro Pennsylvania MIT Rutgers Univ.	Observations of gravitational lens central images	6 Phased array VLBI	9	1.61

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
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	27	10.91
BK127	Knudsen, K. Walter, F. Momjian, E. Carilli, C. Yun, M.	MPIA MPIA Arecibo NRAO-Socorro UMass	Imaging two submm-bright quasars at redshift 2.8	20 Phased array VLBI	29	5.95
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	31	6.39
BW083	Winn, J.N. Haarsma, D.B. Shapiro, I.I. Lehar, J.	CfA Calvin College CfA CombinatoRx	Spectrum of the central component of lens Q0957+561	1.3, 20 Phased array VLBI	30	3.82
BW085	Winn, J.N. Keeton, C.	CfA Rutgers Univ.	Search for additional images in Quintuple Quasar	3.6 Phased array VLBI	30	5.11
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Polarization Calibrator Monitoring Christmas and New Years Shutdowns Software General tests			31.0 52.5 6.0 12.0 41.0 50.5 54.0

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	Actual Hours	Percentage
Astronomy	406.0 ✕	61.80
Maintenance	52.5	7.99
Test/Calc	157.5	23.97
Shutdown	41.0	6.24
Total	657.00	100.00

Average downtime measured in antenna hours was 17.62% of actual antenna hours, distributed as:

System	Percentage
Antenna Pads	0.38
Cryogenics	1.76
Electrical	0.02
EVLA	84.45
Focus/Rotation	0.75
Front End	3.00
HVAC	0.01
RFI	5.87
LO/IF	0.22
Mechanical	0.12
Observing Program	0.34
Other	0.78
Power Supply	0.04
Servo	1.85
VLA Computers	0.05
VLBA Recorders	0.39

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA299	Araya, E. Hofner, P. Goss, W.M. Kurtz, S. Linz, H. Olmi, L.	NMIMT NMIMT NRAO-Socorro UNAM MPIA CNR	H2CO 6cm emission in IRAS 22305+5803	6	27	1.90
AB1180	Bagchi, J.	IUCAA	Spectral index imaging of the halo in Abell 523	20	27	1.70
AB1186	Baker, A. Chandler, C. Garcia-Burillo, S. Lehnert, M.	Univ. Maryland NRAO-Socorro OAN, Madrid MPE, Garching	SiO in Prototypical starburst M82	0.7	1,3,4	4.87
AB1188	Baker, A. O'Neil, K. Mulchaey, J. Zabludoff, A.	Maryland NRAO-GB Carnegie Obs. Wisconsin	HI imaging of isolated early-type galaxies	20 line	7, 13, 14, 18, 19, 20	44.35
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, 6	27, 28	11.47
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	5, 12, 13	13.93
AC786	Cohen, A.S. Clarke, T.E. Lane, W. Lazio, T.J.W. Kassim, N.E.	NRL NRL NRL NRL NRL	Diffuse emission in Abell 2443	20	15	3.22
AC793	Chandler, C. Brogan, C.L. deGregorio-Monsalvo, Gomez, J.F. Kuiper, T.	NRAO-Socorro Hawaii-IFA LAEFF LAEFF JPL	Distribution of CCS and ammonia emission from TMC-1	1.3 line	12, 17, 20	12.17
AC794	Cerrigone, L. Hora, J. Trigilio, C. Umana, G.	Catania CfA Noto Catania	Comparing radio and infrared properties of planetary nebulae	0.7, 1.3	1,4	2.21
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	30	2.41
AC799	Curiel, S. Ho, P.T.P. Patel, N. Hiriart, D.	CfA CfA CfA IA-UNAM	Structure of SiO emission in high-mass YSO Cepheus A/HW2	0.7 line	11	5.11
AC800	Carrasco, C. Anglada, G. Gyulbudaghian, A. Won Lee, C.	IAA, Spain IAA, Spain BAO, Armenia KAO, Korea	Attempt to detect the exciting source of HH30 at radio wavelengths	3.5, 0.7	1, 3	3.36
AC804	Claussen, M. Healy, K. Bond, H. Starrfield, S. Woodward, C. Gehrz, R. Evans, A. Rushton, M.	NRAO-Socorro ASU STScI ASU Univ. Minnesota Univ. Minnesota Keele Keele	Masers in V838 Mon	0.7, 1.3 line EXPLORE	12	1.28
AF426	Fey, A. Platais, I. Zacharias, N.	USNO Johns Hopkins Univ. USNO	Spectra of radio sources in deep optical astrometric fields	3.6, 6	21, 21	8.01
AF427	Finkbeiner, D. Miller, A.	Princeton Columbia Univ.	20 cm continuum emission from nearby galaxies	20	22, 25	5.01

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AF428	Fuente, A. Testi, L. Bachiller, R. Natta, A.	OAN-Yebes Arcetri OAN-Yebes Arcetri	SEDs of Herbig Be stars	0.7, 1.3, 3.6	30	2.98
AG700	Green, D.A.	MRAO	Structure of a candidate young Galactic SNR	3.6	5	0.78
AG703	deGregorio-Monsalvo, Chandler, C. Gomez, J.F. Kuiper, T.	LAEFF NRAO-Socorro LAEFF JPL	CCS observations of protostar L1448	1.3 line	14, 19, 20	19.43
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	14	3.23
AH877	Helfand, D. Becker, R. White, R.	Columbia Univ. LLNL STScI	MAGPIS: Multi-array Galactic plane imaging survey	20	30	1.47
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	...	4.62
AK612	Keto, E.	CfA	Kinematics of NH <sub>3</sub> in K3-50A HII region	1.3 line	15	4.07
AK617	Knapik, J. Beck, R. Chyzy, K.T. Urbanik, M.	Jagiell. Univ. MPIfR Jagiell. Univ. Jagiell. Univ.	Magnetic fields in interacting galaxies	6, 20	4	0.93
AK618	Kurtz, S. Deharveng, L. Zavagno, A. Caplan, J.	UNAM Marseille Marseille Marseille	Line search toward isolated HII regions	0.7, 1.3, 20 line	15	8.10
AL637	Laing, R. Hardcastle, M.H. Bridle, A.	ESO-Garching Bristol NRAO-CV	Deep polarimetry of the jets in the FRI radio galaxy 3C 296	3.6	27	2.56
AL660	Levy, L. Rose, J. vanGorkom, J.	UNC UNC Columbia	Search for HI plumes in galaxies in Pegasus I cluster	20 line	5, 8, 10, 19, 22	23.51
AM839	Meier, D.S. Turner, J. Tsai, C-W.	Illinois Calif.-Los Angeles UCLA	Large molecules in nearby starburst galaxies	0.7 line	25, 27	8.19
AM841	Menten, K. Alcolea, J. Schilke, P. Schuller, F.	MPIfR OAN MPIfR MPIfR	Masers in enigmatic IRAS object 19312+1950	0.7	1	0.40
AP497	Pederty, J.A. Mundy, L. Charnley, S.	NASA-GSFC Maryland SETI	Imaging hot molecular cores in low-mass protostars	0.7 line	9, 18	10.83
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	...	9.86
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	26	6.73
AR583	Renno, N. Atreya, S.K. Wong, A-S. dePater, I. Sault, R.J. Cantor, B. Delory, G.	Michigan Michigan Michigan Calif.-Berkeley ATNF Malin Space Sci. Calif.-Berkeley	Simultaneous VLA/MGS observations of Martian dust events	0.7, 2, 20	26, 28	14.76

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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	15	1.08
AS848	Su, Y-N. Liu, S.-Y. Lim, J.	Academia Sinica Academia Sinica Academia Sinica	Ammonia observations of Onsala 1 region	1.3 line	20	1.71
AS854	Shankland, P. Blank, D. Boboltz, D. Lazio, T.J.W. White, G.	USNO Univ. West, Sydney USNO NRL James Cook Univ.	VLA Search for a Kuiper Belt around GJ 876	0.7, 1.3	1	1.69
AS856	Stamatellos, D. Bontemps, S. Ward-Thompson, D. Whitworth, A.	Cardiff Bordeaux Obs. Cardiff Cardiff	Young protostars in dense cores	6	4	1.70
AS869	Soderberg, A. Frail, D.A.	Caltech NRAO-Socorro	Hydrogen rich Type 1a SN near maximum	1.3	22	0.85
AT313	Tabatabaei, F. Krause, M. Beck, R. Berkhuijsen, E.	MPIfR MPIfR MPIfR MPIfR	Correlating MIPS and 20cm images of M33	20	6, 7, 12	22.71
AV281	Vollmer, B. Beck, R. Urbanik, M. Otmianowska-Mazur, K Soida, M. Chyzy, K.T. Kenney, J. vanGorkom, J.	Strasbourg MPIfR Jagiellonian Krakow Jagiellonian Jagiellonian Yale University Columbia	Polarimetric imaging of Virgo spiral galaxies	6	8, 11	14.97
AV286	Vazquez-Semadeni, E. Ballesteros-Paredes, Rodriguez, L.F. Loiuard, L. Gomez, J.F. deGregorio-Monsalvo,	UNAM UNAM UNAM UNAM LAEFF LAEFF	Ammonia kinematics in starless cores	1.3 line	8, 16	16.65
AW641	Weiler, K. Immler, S. Lewin, W.H.G. Panagia, N. Pooley, D. Ryder, S. Sramek, R.A. Stockdale, C. VanDyk, S.	NRL NASA MIT STScI MIT AAO NRAO-Socorro Marquette IPAC	Core collapse SN (Type II)	3.5	22	0.85
AW666	Wang, Y. Zhang, Q. Rathborne, J. Jackson, J.	CfA CfA Boston Univ. Boston Univ.	NH3 observations of two MSX dark clouds	1.3 line	12	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	19, 20, 27	16.61
AZ163	Zhang, Q. Chen, Y.J. Beuther, H.	CfA Shanghai CfA	SiO imaging of protostars with candidate disks	0.7 line	6	2.54
BD110	Dougherty, S. Blomme, R. VanLoo, S. Runacres, M.C. Rauw, G.	DRAO Royal Obs. Royal Obs. Vrije Univ. Leige	Structure of O star Cyg OB2 No. 9 at 1.6, 5, and 8.4 GHz	3.6, 6, 20	14	1.22
BE046	Edwards, P.G. Takahashi, T.	ISAS ISAS	Hard X-ray quasar J0746+2549	3.6	3	1.70
BM235	Moellenbrock, G. Beasley, A.J. Claussen, M. Goss, M.	NRAO-Socorro NRAO-Chile NRAO-Socorro NRAO-Socorro	Parallax and proper motions of galactic water masers	1.3	1, 3	1.63
BT075	Tarchi, A. Brunthaler, A. Henkel, C. Menten, K. Moscadelli, L. Chiaberge, M.	IRA-Bologna JIVE MPIfR MPIfR Cagliari IRA-Bologna	Water megamaser in an FR II galaxy, 3C 403	1.3 Phased array VLBI	25	9.56



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BW083	Winn, J.N. Haarsma, D.B. Shapiro, I.I. Lehar, J.	CfA Calvin College CfA CombinatoRX	Spectrum of the central component of lens Q0957+561	1.3, 20 Phased array VLBI	22	10.33
GM057	Marcaide, J.M. Marti-Vidal, I. Guirado, J.C. Alberdi, A. Perez-Torres, M.A. Lara, L. Ros, E. Diamond, P.J. Shapiro, I.I. Preston, R. Schilizzi, R.T. Mantovani, F. Trigilio, C. VanDyk, S.D. Weiler, K. Sramek, R. Whitney, A.R.	Valencia Valencia Valencia IAA IAA Granada MPIFR Jodrell Bank CfA JPL SKA Bologna Noto IPAC NRL NRAO-Socorro Haystack	Monitoring the expansion of SN 1993J at 6 and 18 cm	6, 20 Phased array VLBI	6	10.27
DYNAMI			Dynamic scheduling test			46.1
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Polarization Calibrator Monitoring Thanksgiving Shutdown Software Students General tests		5, 8, 14	43.0 71.5 5.0 12.5 26.5 43.0 3.5 49.5

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	Scheduled Hours	Percentage
Astronomy	491.0	68.19
Maintenance	71.5	9.93
Test/Calc	131.0	18.19
Shutdown	26.5	3.68
Total	720.00	100.00

Average downtime measured in antenna hours was 23.32% of scheduled antenna hours, distributed as:

System	Percentage
Cryogenics	0.31
Dynamic	18.78
Electrical	0.01
EVLA	60.44
Focus/Rotation	1.37
Front End	1.45
HVAC	0.01
RFI	3.35
LO/IF	0.62
Mechanical	0.07
Monitor/Control	0.45
Other	0.06
Servo	0.45
Site Power	0.13
VLA Correlator	0.56
VLBA Recorders	0.31
Weather	11.36
Wyemon	0.25

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Progrm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB1186	Baker, A. Chandler, C. Lehnert, M.D. Garcia-Burillo, S.	Maryland NRAO-Socorro MPE Obs. National	Imaging SiO(1-0) emission from M82	0.7 line	15, 17, 18, 23, 25, 27	26.1
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	29, 30	11.04
AC792	Choi, M.	KAO-TRA0	SiO study of directional variability of protostellar outflows	0.7 line	17	1.7
AC794	Cerrigone, L. Hora, J. Trigilio, C. Umana, G.	Catania Cfa Noto Catania	Comparing radio and infrared properties of planetary nebulae	1.3	7	0.80
AC799	Curiel, S. Hiriart, D. Ho, P.T.P. Patel, N.	Cfa UNAM Cfa Cfa	Tracking down the high-velocity SiO emission in high mass YSO Cep A/HW2	0.7	11,14	5.10
AC800	Carrasco, C. Anglada, G. Gyulbudaghian, A. Won Lee, C.	IAA, Spain IAA, Spain BAO, Armania KAO, Korea	An attempt to detect the exciting source of HH 30	3.5	12	1.70
AC801	Chatterjee, S. Cordes, J. Lazio, T.J.W.	Cfa Cornell NRL	Astrometric position for a new relativistic binary pulsar	20	1	1.26
AD509	Delain, K. Rudnick, L.	Minnesota Minnesota	Structure and spectra of diffuse sources not in rich clusters	90	3	2.2
AD515	Dedes, L. Kalberla, P.	RAIUB Bonn Univ	HI clumps in the outer Galactic halo	20 line	20, 25, 27	20.44
AF428	Fuente, A. Testi, L. Bachiller, R. Natta, A.	OAN-Yebes Arcetri OAN-Yebes Arcetri	SEDs of Herbig Be stars	0.7, 1.3, 3.6	29	3.41
AG700	Green, D.A.	Cavendish	Young galactic SNR associated with ASCA X-ray source	3.5	31	1.35
AG701	Guenther, E. Schreyer, K. Linz, H.	Tautenburg Jena MPIA	Photometry of HD209458 before, during and after planetary eclipse	6	5, 12	10.05
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	22	3.20
AH865	Hollis, J.M. Remijan, A. Boboltz, D. Jewell, P.R. Lovas, F.J.	NASA-GSFC NASA-GSFC USNO NRAO-GB NIST	Structure of glycolaldehyde and ammonia regions in Sgr B2(N)	1.3, 2 line	15, 21, 23	12.76
AH878	Hewitt, J.W. Yusef-Zadeh, F.	Northwestern Northwestern	Survey of 1720 MHz OH masers in the inner galaxy	20 line	1	6.94
AH882	Hofner, P. Araya, E. Cesaroni, R. Kurtz, S. Olma, L. Olmi, L.	NMIMT NMIMT Arcetri UNAM Arcetri Arcetri	Expansion of hypercompact HII regions in G10.47+0.03	0.7	8	2.79
AH888	Hota, A. Saikia, D.J.	NCRA-TIFR NCRA-TIFR	100 kpc long radio tailed irregular galaxies in A1367	20	5	0.84
AH891	Hoffman, I. Goss, M. Palmer, P.	Cleriq Sciences NRAO-Socorro Chicago	interpretation of VLBA+Y27 obs. of H2CO masers	6	11	0.78
AJ321	Jamrozy, M. Mack, K.-H. Siemiginowska, A. Stawarz, L.	Krakow INAF-Bologna Cfa Cfa	Fossil radio lobes	90, 20	5,9,10,12	4.19

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
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	...	7.98
AK611	Kurtz, S. Caplan, J. Deharveng, L. Zavagno, A.	UNAM Marseille Marseille Marseille	Non thermal ultracompact HII region at border of Sh 217	20, 6	11	0.85
AK619	Kanekar, N. Carilli, C. Stoche, J.	NRAO-Socorro NRAO-Socorro Colorado	43 GHz flux densities of a radio-selected sample	0.7	18, 20, 28	5.27
AK629	Kondratko, P. Greenhill, L. Moran, J.	Harvard SAO SAO	Discovery of water maser emission in two nearby AGN with the GBT	1.3	12	1.63
AL652	Landt, H. Bignall, H. Padovani, P. Perlman, E.	CfA JIVE ESO Maryland-Baltimore	A faint sample of BL Lacertae objects	20	3	1.70
AL659	Lazio, T.J.W. Brogan, C. Gaensler, B. Gelfand, J. Kassim, N. Lazendic, J. McClure-Griffiths, N	NRL CfA CfA CfA NRL MIT ATNF	High resolution imaging of and a search for OH masers	18, 6	5,7,8,9	4.81
AL663	Lin, Y-T. Huffenberger, K. Partridge, R.B. Mohr, J. Crawford, T.	Univ. Illinois Princeton Haverford Illinois Univ. Chicago	Spectral energy distributions of radio sources in galaxy clusters	0.7, 1.3, 3.6, 6	23, 28, 29, 31	35.0
AM794	Machalski, J. Jamroz, M. Koziel, D.	Jagiellonian Univ. RAIUB Jagiellonian Univ.	Mapping of radio lobes in Giant radio galaxies	6	31	2.17
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	16	0.85
AM842	Morris, M. Walter, F.	UCLA MPIA	Mapping the huge HI envelope around IIZw 44		5,6,9	2.33
AO194	Osten, R. Jayawardhana, R.	NRAO-CV Univ. of Toronto	Emission from young brown dwarf SSSPM J1102-3431	3.6	29	3.40
AP487	Pandian, J. Momjian, E. Goldsmith, P.	Cornell Arecibo Cornell	HI absorption to resolve the distance ambiguity of methanol masers	20 line	2	5.55
AP495	Phan-Bao, N. Osten, R. Lim, J. Martin, E.	IAA NRAO-CV Academia Sinica IAC	Emission from brown dwarfs	3.6	23	2.85
AP498	Chandler, C. Fabian, A. Worsley, M.	NRAO-Socorro IoA IoA	Spectral measurements of GB 1428+4217	0.7, 1.3, 3.5	14	0.43
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	...	3.06
AR579	Ribo, M. Ueda, Y. Chaty, S.	CEA-Saclay JAXA/ISAS Univ. Paris	Simultaneous VLA/IR/Astro-E2 look at microquasar GRS 1915+105	2, 3.6, 6, 20	16, 17	10.77
AR583	Renno, N. Atreya, S.K. Wong, A-S. dePater, I. Sault, R.J. Cantor, B. Delory, G.	Michigan Michigan Michigan Calif.-Berkeley ATNF Malin Space Sci. Calif.-Berkeley	Simultaneous VLA/MGS observations of Martian dust events	0.7, 2, 20	15, 18, 19	20.14
AS800	Sjouerman, L. Messineo, M. Habing, H. Honma, M. Imai, H.	NRAO-Socorro Leiden Leiden NAOJ-Mizusawa Kagoshima U.	Monitoring circumstellar SiO masers near Sgr A*	0.7 line	16	1.64

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
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, 27	2.44
AS854	Shankland, P. Blank, D. Boboltz, D. Lazio, T.J.W. White, G.	USNO Sydney USNO NRL James Cook	VLA Search for Kuiper Belt around GJ 876		14	1.70
AS856	Stamatellos, D. Bontemps, S. Ward-Thompson, D. Whitworth, A.	Cardiff Bordeaux Cardiff Cardiff	Young protostars in dense cores	6	5,6,7,8,13,14	4.61
AT307	Toribio, M.C. Solanes, J. Uson, J.M.	Barcelona Barcelona NRAO-CV	Imaging HI deficient spirals on the outskirts of Virgo	20 line	1, 2	8.07
AV283	Verheijen, M. Bershady, M.A. Swaters, R. Andersen, D. Westfall, K.	Groningen Wisconsin Maryland MPIA Wisconsin	HI imaging of spiral galaxies from Disk Mass Project	20 line	2	1.70
AV284	VandenBout, P.A. Carilli, C. Solomon, P.M. Gao, Y.	NRAO-CV NRAO-Socorro SUNY Purple Mountain	Search for HCN emission from high-redshift galaxies	0.7, 1.3 line	16, 21, 23	9.71
AV285	Verdes-Montenegro, L Yun, M. Borthakur, S.	IAA Massachusetts UMass	HI distribution in Hickson compact groups	20 line	22	3.26
AW641	Weiler, K. Stockdale, C. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Pooley, D. Immler, S. Ryder, S.	NRL Marquette Univ. NRAO-Socorro IPAC STScI Valencia MIT MIT NASA-GSFC AAO	Triggered observations of type II SNe	1.3, 2, 3.6, 6, 20, 90 TRIGGER	1, 2	1.70
AW644	Willson, R.F.	Tufts	Collaborative obs. of solar type III bursts	400, 90	17	0.64
AW658	Wijnands, R. Rupen, M. Maccarone, T.J. Fender, R.P.	Amsterdam NRAO-Socorro Univ. Amsterdam Amsterdam	Coordinated observations of very faint x-ray transients	3.6, 6	28	5.56
AW664	Wright, E. Chen, X.	Calif.-Los Angeles Shao	Snapshots of 9 WMAP point sources	3.6	17, 17, 18	2.72
AW670	Willson, R.	Tufts	VLA-RHESSI Obs. of Solar microflares	1.2, 2, 3.5	7,8,13	13.90
AY160	Yun, M. del Olmo, A. Verdes-Montenegro, L	UMass IAA, Spain IAA, Spain	Is there diffuse intergroup HI in Hickson compact group 40	21	9, 10	2.47
AZ161	vanZee, L.	Indiana	HI imaging of nearby dwarf irregular galaxies	20 line	2	1.79
AZ163	Zhang, Q. Chen, Y.J. Beuther, H.	Cfa Shanghai Cfa	SiO imaging of protostars with candidate disks	0.7 line	18	2.49
BC156	Claussen, M. Bond, H. Evans, A. Gehrz, R. Healy, K. Rushton, M. Starrfield, S. Woodward, C.	NRAO-Socorro STScI Keele Univ. Minnesota ASU Keele ASU Univ. Minnesota	SiO masers in V838 Monocerotis	0.7	6	0.84
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	2, 2	13.63
BM239	Moscadelli, L. Furuya, R. Claussen, M.J. Kitamura, Y. Testi, L. Wootten, A. Goddi, C.	Cagliari Caltech NRAO-Socorro ISAS Arcetri NRAO-CV Cagliari	Proper motions of H2O masers in YSO Serpens SMM1	1.3 line	18	0.85

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
GB052	Bartel, N. Bietenholz, M.F. Rupen, M.	York U. York U. NRAO-Socorro	Shell and central source of SN 1986J	6, 20 Phased array VLBI	24	10.52
GM057	Marcaide, J.M. Marti-Vidal, I. Guirado, J.C. Alberdi, A. Perez-Torres, M.A. Lara, L. Ros, E. Diamond, P.J. Shapiro, I.I. Preston, R. Schilizzi, R.T. Mantovani, F. Trigilio, C. VanDyk, S.D. Weiler, K. Sramek, R. Whitney, A.R.	Valencia Valencia Valencia IAA IAA Granada MPIFR Jodrell Bank CfA JPL SKA Bologna Noto IPAC NRL NRAO-Socorro Haystack	Monitoring the expansion of SN 1993J at 6 and 18 cm	6, 20 Phased array VLBI	22	10.67
DYNAMI			Dynamic scheduling test			97.67
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Polarization Calibrator Monitoring Software Students General tests		17	34.0 62.0 6.0 12.0 53.0 2.56 45.6

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	Scheduled Hours	Percentage
Astronomy	546.0	73.39
Maintenance	62.0	8.33
Test/Calc	136.0	18.28
Total	744.0	100.00

Average downtime measured in antenna hours was 21.48% of scheduled antenna hours, distributed as:

System	Percentage
Antenna Pad	0.43
Clocks	0.09
Cryogenics	0.19
Dynamic	25.86
EVLA	66.42
Focus/Rotation	0.12
Front End	2.01
HVAC	0.03
RFI	1.00
LO/IF	1.22
Monitor/Control	1.39
Other	0.03
Power Supply	0.52
Servo	0.25
Site Power	0.03
VLA Computers	0.24
VLA Correlator	0.14
VLBA Recorder	0.05

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB1179	Bower, G.C. Bolatto, A. Kalas, P. Matthews, B. Wright, J. Graham, J. Marcy, G.	Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley	Continuum survey of low-mass stars closer than 10 pc	3.6, 20	3, 15	3.83
AC775	Curiel, S. Ho, P.T.P. Hirano, N. Zhang, Q. Girart, J.M.	CfA CfA ASIAA CfA Barcelona	Structure and kinematics of the SiO outflow in HH211	0.7 line	28	6.81
AC783	Czoske, O. Wucknitz, O. Garrett, M.A.	Univ. of Bonn Potsdam JIVE	Search for halo and relics in merging cluster Cl0024+1654	20	14, 22	8.52
AC787	Chen, Y.J. Zhang, Q. Wang, Y. Beuther, H. Sridharan, T.K. Hunter, T.R.	Shanghai CfA CfA CfA CfA CfA	Survey of NH3(3,3) in massive stellar disk candidates	1.3 line	19, 25	12.67
AC802	Claussen, M. Healy, K. Starrfield, S. Bond, H.	NRAO-Socorro ASU ASU STScI	Masers in V838 Mon	0.7, 1.3 line EXPLORE	1	1.33
AD509	Delain, K. Rudnick, L.	Minnesota Minnesota	Structure and spectra of diffuse sources not in rich clusters	90	29	20.16
AD511	Domainko, W. Feretti, L. Ferrari, C. Gitti, M. Schindler, S.	Innsbruck Bologna Cote d'Azur Innsbruck Innsbruck	Diffuse emission in galaxy cluster RXJ1347.5-1145	20	3	1.70
AF423	Feretti, L. Orru, E. Brunetti, G. Giovannini, G. Govoni, F. Murgia, M. Setti, G.	Bologna Cagliari Bologna Bologna Bologna Bologna Bologna	Halo in galaxy cluster A2218	90	18	11.02
AF424	Fomalont, E. Kelly, J. Kellermann, K. Rosati, P. Shaver, P.	NRAO-CV U. Virginia NRAO-CV MPIE ESO-Garching	Spectral indices and variability of sources in UDF and CDFS	6	1, 4	8.89
AG691	Gentile, G. Yegorova, I. Salucci, P. Klein, U. Pizzella, A. Jozsa, G.	SISSA-Trieste SISSA-Trieste SISSA-Trieste Bonn Univ. Padova Bonn Univ.	HI rotation curves of giant spiral galaxies	20 line	8, 10, 17, 25	28.86
AG694	Gaensler, B.M. Kouvelioutou, C. Gelfand, J. Taylor, G.B. Eichler, D. Granot, J. Wijers, R. Ramirez-Ruiz, E.	CfA NASA CfA NRAO-Socorro Ben Gurion Univ. KIPAC Amsterdam IAS	Monitoring the radio afterglow of SGR 1806-20	3.6, 6, 20	30	3.86
AG697	Gross, C. Brogan, C.L. Clarke, T.E. Dickel, J. Kassim, N.E. Weiler, K.	NRL Hawaii Virginia Illinois NRL NRL	Low-frequency imaging of the SNR IC 443	90	16	4.57
AH881	Hibbard, J. Corbin, M. Vacca, W.D.	NRAO-CV Arizona State Hawaii	HI imaging of ultracompact blue dwarf galaxies	20 line	...	44.70
AH890	Hyman, S. Lazio, J. Ray, P. Kassim, N.	Sweet Briar NRL NRL NRL	Bursting GC transient	20, 90 EXPLORE	16, 22, 27	7.30



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Progn	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
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	...	8.02
AK605	Krajnovic, D. Morganti, R. Oosterloo, T. deZeeuw, T. McDermid, R. Cappellari, M. Weijmans, A-M.	Oxford ASTRON ASTRON Leiden Leiden Leiden Leiden	The HI disk in the elliptical galaxy NGC 2974	20 line	11, 19	13.10
AL652	Landt, H. Bignall, H. Padovani, P. Perlman, E.	CfA JIVE ESO Maryland-Baltimore	A faint sample of BL Lacertae objects	20	11, 12	18.96
AM829	Marti, J. Benaglia, P. Vink, J. Maiz-Apellaniz, J. Koribalski, B.	U. Jaen La Plata Imperial College STScI ATNF	Continuum observations of OB stars	3.6	15, 17	6.96
AM831	Monnier, J.D. Greenhill, L.J. Tuthill, P.G. Danchi, W.	Michigan CfA Sydney U. NASA	Monitoring the colliding wind binary WR 112	3.6	1	1.33
AM834	Mundell, C.G. Schinnerer, E. Wilcots, E. Wilson, A. Dumas, G.	John Moores MPIA Wisconsin Maryland Univ. Liverpool	HI imaging survey of Seyfert galaxies	20 line	2	4.0
AM841	Menten, K. Schuller, F. Schilke, P. Alcolea, J.	MPIfR MPIfR MPIfR OAN	Masers and continuum toward IRAS 19312+1950	0.7, 1.3, 3.6, 20 line	3	1.45
AO196	O'Sullivan, E. Harris, D. Vrtilek, J. Ponman, T.	CfA CfA CfA Birmingham	NGC 3411 galaxy group	3.6 EXPLORE	4	1.28
AP487	Pandian, J. Momjian, E. Goldsmith, P.	Cornell Arecibo Cornell	HI absorption to resolve the distance ambiguity of methanol masers	20 line	20, 26	10.84
AP490	Pihlstrom, Y. Sjouerman, L. Fish, V.L.	Caltech NRAO-Socorro NRAO-Socorro	Excited OH masers toward supernova remnants	3.6, 6 line	5	1.28
AP491	Paladino, R. Orru, E. Murgia, M.	Cagliari Cagliari Bologna	Spectral index imaging of spiral galaxies	90	1	7.11
AP493	Pidopryhora, Y. Lockman, F.J.	Ohio University NRAO-GB	Structure of cores of galactic halo HI clouds	20 line	4, 5, 8	13.88
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	...	12.59
AR572	Ribo, M. Mirabel, I.F. Bel, M.C. Goldoni, P. Chaty, S.	CEA-Saclay ESO-Chile CEA-Saclay CEA-Saclay Univ. Paris	Triggered observations of a new black hole x-ray nova	2, 3.6, 6, 20 TRIGGER	9	4.0
AR574	Roussel, H. Condon, J.J. Helou, G. Beck, R.	Saclay NRAO-CV IPAC MPIfR	Galaxies with low synchrotron to dust emission ratios	3.6, 6, 20	2, 4	17.95
AR575	Ramsay, G. Wu, K. Slee, O.B.	MSSL/UCL MSSL/UCL ATNF	Search for emission from ultra-compact binaries	6	11, 27	4.26
AS799	Seaquist, E. Muhle, S.	Toronto Toronto	Formaldehyde in starburst galaxy M82	6 line	17	10.22

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS801	Schinnerer, E. Carilli, C. Scoville, N.Z. Bertoldi, F. Blain, A.W. Bondi, M. Ciliegi, P. Impey, C. Koekemoer, A. LeFevre, O. Urry, C.M. Vettolani, P.	MPIA NRAO-Socorro Caltech Bonn Univ. Caltech Bologna Bologna Arizona Mt. Stromlo Marseille Yale Univ. CNR-Bologna	COSMOS deep 1.4 GHz imaging survey	20	2, 25	11.52
AS832	Skillman, E.	Minnesota	HI structure and kinematics of ultracompact blue dwarfs	20 line	5	9.38
AS846	Soderberg, A. Chevalier, R. Frail, D. Kulkarni, S.	Caltech Virginia NRAO-Socorro Caltech	Enigmatic Type Ibc Supernovae and their mysterious engines	0.7, 1.3, 2, 3.5, 6, 20	28	0.43
AT307	Toribio, M.C. Solanes, J. Uson, J.M.	Barcelona Barcelona NRAO-CV	Imaging HI deficient spirals on the outskirts of Virgo	20 line	18	2.45
AV283	Verheijen, M. Bershady, M.A. Swaters, R. Andersen, D. Westfall, K.	Groningen Wisconsin Maryland MPIA Wisconsin	HI imaging of spiral galaxies from Disk Mass Project	20 line	21, 26, 27	15.31
AW641	Weiler, K. Stockdale, C. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Pooley, D. Immler, S. Ryder, S.	NRL Marquette Univ. NRAO-Socorro IPAC STScI Valencia MIT MIT NASA AAO	Triggered observations of type II SNe	1.3, 2, 3.6, 6, 20, 90 TRIGGER	1, 4, 11	3.89
AW652	Walter, F. Carilli, C. Bertoldi, F. Menten, K. Cox, P. Weiss, A. Lo, K.Y.	MPIA NRAO-Socorro Bonn Univ. MPIFR IAP-Paris Bonn Univ. NRAO-CV	Structure of CO in QSO host galaxies beyond redshift four	0.7	10, 12, 16, 20	25.17
AW659	Wang, Y. Zhang, Q. Rathborne, J. Jackson, J. Chambers, E.	CfA CfA Boston Univ. Boston Univ. Boston Univ.	Survey for water masers and continuum toward MSX dark clouds	1.3	23, 24	10.03
AY159	Young, L. Blitz, L. Rosolowsky, E.	NMIMT Calif.-Berkeley Calif.-Berkeley	HI imaging of early-type galaxies with CO images	20 line	22	6.12
AZ161	vanZee, L.	Indiana	HI imaging of nearby dwarf irregular galaxies	20 line	5, 10, 11, 13, 16	33.64
BB203	Barvainis, R. Ulvestad, J.S. Birkinshaw, M. Lehar, J.	NSF NRAO-Socorro Bristol CombinatoRx	Structure of radio-quiet quasars	6 Phased array VLBI	3, 4, 9	8.29
BM231	Mioduszewski, A.J. Hynes, R.I. Rupen, M. Dhawan, V.	NRAO-Socorro Texas-Austin NRAO-Socorro NRAO-Socorro	Imaging the quiescent black hole candidate V404 Cyg	3.6 Phased array VLBI	15	8.41
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Polarization Calibrator Monitoring Software General tests			34.0 62.0 6.0 13.0 49.0 32.4

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	Scheduled Hours	Percentage
Astronomy	522.0	68.89
Maintenance	62.0	9.74
Test/Calc	136.0	21.37
Total	720.0	100.00

Average downtime measured in antenna hours was 15.99% of scheduled antenna hours, distributed as:

System	Percentage
Cryogenics	0.64
EVLA	83.20
Front End	0.71
HVAC	0.06
RFI	8.93
LO/IF	0.87
Monitor/Control	0.57
Other	1.11
Servo	2.36
Site Power	1.00
VLA Computers	0.20
VLA Correlator	0.34

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA298	Araya, E. Hofner, P. Goss, M. Kurtz, S. Olmi, L. Linz, H.	NMIMT NMIMT NRAO-Socorro UNAM CNR MPIA	Continuum toward 6cm formahdehyde maser in IRAS 18566+0408	1.3	5	3.11
AB1114	Beltran, M. Cesaroni, R. Codella, C. Furuya, R. Testi, L.	Arcetri Arcetri CNR-Roma Caltech Arcetri	Class I methanol masers toward high-mass YSOs in G24.78+0.08	0.7	22	4.0
AB1164	Bower, G.C. Cheung, C.C. Falcke, H. Markoff, S. Canizares, C. Jimenez-Garate, M.A.	Calif.-Berkeley MIT ASTRON MIT MIT MIT	Coordinated monitoring of the LLAGN in M81	0.7, 1.3, 3.6, 20	14	6.01
AB1173	Bash, F. Gebhardt, K. Goss, M. VandenBout, P.A.	Univ. of Texas Univ. of Texas NRAO-Socorro NRAO-CV	Continuum emission from globular cluster centers	3.6	11, 20, 23	14.52
AB1178	Bower, G.C. Yusef-Zadeh, F. Roberts, D.A. Falcke, H. Baganoff, F.K.	Calif.-Berkeley Northwestern Northwestern ASTRON MIT	Coordinated observations of SgrA*	0.7, 1.3	1	4.26
AB1179	Bower, G.C. Bolatto, A. Kalas, P. Matthews, B. Wright, J. Graham, J. Marcy, G.	Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley	Continuum survey of low-mass stars closer than 10 pc	3.6, 20	...	15.40
AB1180	Bagchi, J.	IUCAA	Spectral index imaging of the halo in Abell 523	20, 90	25	2.97
AC750	Clarke, T.E. Lane, W. Sarazin, C. Kassim, N.E.	Virginia NRL Virginia NRL	FRIs in high and low density environments	90	22, 23	8.60
AC768	Curiel, S. Girart, J.M. Raga, A.	Cfa Barcelona UNAM	Proper motions of SiO emission in the L1448 outflow	0.7 line	18	9.51
AC776	Clarke, T.E. Sarazin, C. Markevitch, M.	Virginia Virginia Cfa	Structure and spectra of the diffuse emission in Abell 520	20	30	4.34
AC785	Clarke, T.E. Schmitt, H.R.	Virginia NRL	Continuum structure of the NGC 507 galaxy group	20	17	3.56
AC786	Cohen, A.S. Clarke, T.E. Lane, W. Lazio, T.J.W. Kassim, N.E.	NRL Virginia NRL NRL NRL	Diffuse emission in Abell 2443	90	3	2.57
AF424	Fomalont, E. Kelly, J. Kellermann, K. Rosati, P. Shaver, P.	NRAO-CV U. Virginia NRAO-CV MPIE ESO-Garching	Spectral indices and variability of sources in UDF and CDFS	6	...	37.62
AG694	Gaensler, B.M. Kouvelioutou, C. Gelfand, J. Taylor, G.B. Eichler, D. Granot, J. Wijers, R. Ramirez-Ruiz, E.	Cfa NASA Cfa NRAO-Socorro Ben Gurion Univ. KIPAC Amsterdam IAS	Monitoring the radio afterglow of SGR 1806-20	3.6, 6, 20	25	4.44
AG696	Greve, T.R. Knudsen, K. Borys, C. vanderWerf, P. Kneib, J.-P. Blain, A.W. Ivion, R.J.	Caltech MPIA Caltech Leiden Toulouse Caltech ROE	Deep observations of three massive clusters of galaxies	6 1	1, 2, 8, 9	18.29
AH876	Honma, M. Hachisuka, K.	NAOJ NAOJ	Water masers and UC HII region in G43.8-0.1	1.3	29	2.67

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AJ313	Johnson, K. Plante, S.	Virginia Laval	Structure and spectra of low-metallicity starburst SBS0335-052	0.7, 1.3, 2, 3.6, 6	11, 12, 13, 14	21.23
AJ320	Jarvis, M. Klockner, H.-R. Clewley, L. Rawlings, S.	Oxford Oxford Oxford Oxford	Structures of a complete sample of radio sources	20	4, 7, 26	5.50
AK563	Kennedy, J. van Gorkom, J. Vollmer, B. Chung, A.	Yale University Columbia Strasbourg Columbia	Virgo cluster, a Laboratory for studying galaxy evolution	20 line	2, 4, 5, 6	34.04
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	...	16.68
AK606	Kepley, A. Wilcots, E. Zweibel, E.	Madison Wisconsin Univ. of Wisconsin	Polarimetric imaging of the dwarf irregular galaxy NGC 4214	20	7	10.19
AL647	Lang, C. Figer, D. Najarro, F.	Univ. Iowa STScI CSIC	Structure and spectra of luminous blue variables	1.3, 3.6	12, 14, 18	20.45
AL654	Lim, J. Hirano, N. Ohashi, N. Takakuwa, S.	ASIAA ASIAA ASIAA CfA-Hawaii	Imaging binary/multiple protostellar systems	0.7	4	2.22
AM821	Marecki, A. Mack, K.-H.	Torun ASTRON	Structure of potentially restarted sources	3.6, 6	8	3.11
AM825	Morrison, G. Dickinson, M. Owen, F. Bauer, F. Koekemoer, A. Mobasher, B. Chary, R-R. Frayser, D.T.	Hawaii-Ifa NOAO NRAO-Socorro Cambridge Mt. Stromlo STScI Caltech/IPAC Caltech	Deep imaging of the GOODS northern field	20	13	6.16
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	2, 21	2.83
AM834	Mundell, C.G. Schinnerer, E. Wilcots, E. Wilson, A. Dumas, G.	John Moores MPIA Wisconsin Maryland Univ. Liverpool	HI imaging survey of Seyfert galaxies	20 line	27, 28, 29	20.60
AP493	Pidopryhora, Y. Lockman, F.J.	Ohio University NRAO-GB	Structure of cores of galactic halo HI clouds	20 line	31	2.0
AR566	Rodriguez, L.F. Anglada, G. Torrelles, J.M.	UNAM IAA IEEC-Barcelona	Survey for disks in young binary systems	0.7	16	5.17
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	...	18.33
AR571	Rodriguez, L.F. Moran, J. Franco-Hernandez, R. Lizano, S.	UNAM Cfa Cfa UNAM	Hypercompact HII regions in G34.26+0.15	0.7	13	5.95
AR572	Ribo, M. Mirabel, I.F. Bel, M.C. Goldoni, P. Chaty, S.	CEA-Saclay ESO-Chile CEA-Saclay CEA-Saclay Univ. Paris	Triggered observations of a new black hole x-ray nova	2, 3.6, 6, 20 TRIGGER	10	3.76

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS801	Schinnerer, E. Carilli, C. Scoville, N.Z. Bertoldi, F. Blain, A.W. Bondi, M. Ciliegi, P. Impey, C. Koekemoer, A. LeFevre, D. Urry, C.M. Vettolani, P.	MPIA NRAO-Socorro Caltech Bonn Univ. Caltech Bologna Bologna Arizona Mt. Stromlo Marseille Yale Univ. CNR-Bologna	COSMOS deep 1.4 GHz imaging survey	20	26, 27	10.45
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	5, 19	6.13
AS841	Stamatellos, D. Ward-Thompson, D. Whitworth, A.	Cardiff Univ. ROE Cardiff Univ.	Cores with very young protostars	3.6	2	3.53
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, 11, 21, 27	5.53
AT307	Toribio, M.C. Solanes, J. Uson, J.M.	Barcelona Barcelona NRAO-CV	Imaging HI deficient spirals on the outskirts of Virgo	20 line	12	5.81
AU104	Umana, G. Cerrigone, L. Trigilio, C.	Noto Catania Noto	Survey of very young PNe candidates	3.6	2, 4	4.44
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	20	15	5.78
AW641	Weiler, K. Stockdale, C. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Pooley, D. Immler, S. Ryder, S.	NRL Marquette Univ. NRAO-Socorro IPAC STScI Valencia MIT MIT NASA AAO	Triggered observations of type II SNe	1.3, 2, 3.6, 6, 20, 90 TRIGGER	3, 4, 8, 12, 14, 20	6.14
AY159	Young, L. Blitz, L. Rosolowsky, E.	NMIMT Calif.-Berkeley Calif.-Berkeley	HI imaging of early-type galaxies with CO images	20 line	25, 26	9.89
AZ161	vanZee, L.	Indiana	HI imaging of nearby dwarf irregular galaxies	20 line	31	2.22
BB203	Barvainis, R. Uivestad, J.S. Birkinshaw, M. Lehar, J.	NSF NRAO-Socorro Bristol CombinatoRx	Structure of radio-quiet quasars	6 Phased array VLBI	19	5.33
BB209	Boyce, E. Hewitt, J. Myers, S.T.	MIT/NRAO MIT NRAO-Socorro	Observations of gravitational lens central images	3.6, 6 Phased array VLBI	19	2.65
BJ059	Jonker, P.G. Chatterjee, S. Gaensler, B.M. Fender, R.P. Maccarone, T.J. Pooley, G.G.	CfA Cornell CfA Amsterdam Amsterdam Cambridge	Imaging the jet in the neutron star binary Ser X-1	6 Phased array VLBI	21	2.22
BL132	Lazio, T.J.W. Goss, M. Brogan, C.L. Stanimirovic, S. Faison, M.D.	NRL NRAO-Socorro Hawaii-IFA Calif.-Berkeley Yale	Search for HI opacity variations toward 3C 147	20 Phased array VLBI	20	14.26

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
S60120	Mauche, C.W. Osborne, J. Abada-Simon, M. Cortina, J. Gomer, R. Harlaftis, E. Horne, K. Liedahl, D. Meintjee, P O'Brien, K. Pearson, K. Robinson, E. Skidmore, W. Torres, D. Welsh, W. Wynn, C.	LLNL Leicester Paris Obs. IFAE Rice Athens St. Andrews LLNL Univ. Free State Amsterdam Louisiana State Univ. Texas Calif.-Irvine LLNL San Diego State Leicester	Chandra/VLA observations of binary AE Aqr	3.6	30	10.78
S60255	Forbrich, J. Preibisch, T. Posselt, B. Neuhaeuser, R. Menten, K.	MPIfR Wurzburg MPIR AIU Jena MPIfR	Chandra/VLA observations of YSOs in Coronet cluster	3.6	7, 8, 11, 12	6.75
S60405	Fender, R.P. Gallo, E. Jonker, P.G. vanderKlis, M. Maccarone, T.J. Merloni, A. Miller-Jones, J.	Amsterdam Amsterdam CfA Amsterdam Univ. Amsterdam MPA Oxford	Chandra/VLA observations of binary A0620-00	3.6	19, 20	16.59
S60570	Audard, M. Briggs, K. Brown, A. Gizis, J.E. Guedel, M. Osten, R. Telleschi, A.	Columbia PSI Colorado Delaware PSI NRAO-CV PSI	Chandra/VLA observations of brown dwarfs	3.6	22	7.0
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Polarization Calibrator Monitoring Software General tests			40.5 71.5 6.0 16.0 54.5 33.5

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*Aug.*

	Scheduled Hours	Percentage
Astronomy	516.5	65.82
Maintenance	71.5	10.74
Test/Calc	156.0	23.44
Total	744.0	100.00

Average downtime measured in antenna hours was 15.22% of scheduled antenna hours, distributed as:

(Increased downtime in July was due to dynamic scheduling tests.)

System	Percentage
Cryogenics	0.58
EVLA	73.39
Front End	1.29
RFI	4.90
LO/IF	2.71
Mechanical	0.82
Monitor/Control	1.29
Other	0.84
Servo	3.37
Site Power	5.20
VLA Correlator	5.61



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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB1114	Beltran, M. Cesaroni, R. Codella, C. Furuya, R. Testi, L.	Arcetri Arcetri CNR-Roma Caltech Arcetri	Class I methanol masers toward high-mass YSOs in G24.78+0.08	0.7	13	4.5
AB1150	Birzan, L. McNamara, B. Carilli, C. Rafferty, D. Nulsen, P. Wise, M.	Ohio U. Ohio U. NRAO-Socorro Ohio Univ. CfA MIT-CSR	Systems with X-ray cavities	20	30	3.82
AB1164	Bower, G. Canizares, C. Cheung, C.C. Falcke, H. Jimenez-Garate, M. Markoff, S.	Calif.-Berkeley MIT MIT ASTRON MIT MIT	Bridging the luminosity gap	1.3	...	9.03
AB1172	Blomme, R. Prinja, R. Runacres, M.	Belgium Univ. College Belgium	New constraints on B-star mass loss rates	3.5	...	0.89
AB1178	Bower, G.C. Yusef-Zadeh, F. Roberts, D.A. Falcke, H. Baganoff, F.K.	Calif.-Berkeley Northwestern Northwestern ASTRON MIT	Coordinated observations of SgrA*	0.7, 1.3	24, 27, 29, 30	15.96
AB1179	Bower, G.C. Bolatto, A. Kalas, P. Matthews, B. Wright, J. Graham, J. Marcy, G.	Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley	Continuum survey of low-mass stars closer than 10 pc	3.6, 20	...	21.11
AC730	Clemens, M.S. Bressan, A. Prouton, O.R. Granato, G.L. Silva, L. Vega, O.	Padova Padova Padova Padova Trieste INAOE	Spectral energy distributions for compact ULIRGs	3.6	12, 19, 27	2.66
AC786	Cohen, A.S. Clarke, T.E. Lane, W. Lazio, T.J.W. Kassim, N.E.	NRL Virginia NRL NRL NRL	Diffuse emission in Abell 2443	90	28	4.35
AC801	Chatterjee, S. Lazio, T. Cordes, J.	Cornell NRL Cornell	Binary pulsar astrometry	20 EXPLORE	2	0.89
AD508	Duc, P.A. Koribalski, B. Bournaud, F. Brinks, E. Braine, J. Walter, F. Boquien, M.	Saclay ATNF Paris Hertfordshire Bordeaux MPIA CEA-Saclay	Kinematics of the intergalactic HI ring around NGC 5291	20 line	1, 2	7.11
AF422	Furuya, R. Cesaroni, R. Shinnaga, H.	Caltech Arcetri Caltech	The cluster of high-mass protostars in G19.61-0.23	0.7, 6	11	4.45
AF424	Fomalont, E. Kelly, J. Kellermann, K. Rosati, P. Shaver, P.	NRAO-CV U. Virginia NRAO-CV MPIE ESO-Garching	Spectral indices and variability of sources in UDF and CDFS	6	28, 30	7.58
AG690	Govoni, F. Murgia, M. Feretti, L. Giovannini, G. Orru, E.	Bologna Bologna Bologna Bologna Cagliari	Search for polarized filaments in cluster halos	20	24	12.34
AG694	Gaensler, B.M. Kouvelioutou, 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, 20	2, 26	7.99

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AG695	Garrett, M.A. Berciano, A. Koopmans, L. Wucknitz, O. Muxlow, T. Knudsen, K. vanderWerf, P.	JIVE Kapteyn Institute Groningen Potsdam Jodrell Bank MPIA Leiden	Deep observations of a lensed sub-mm galaxy at z=2.5	3.6	2, 3, 4	15.11
AG699	Giovanelli, R.	Cornell	Starless ALFALFA source	20 line EXPLORE	11	5.21
AH875	Hamidouche, M. Looney, L. Shaw, Y-S.	Illinois Illinois Illinois	Circumstellar structures of Herbig Ae/Be stars	0.7	25	0.89
AH879	Healy, K. Claussen, M.J. Hester, J.J.	Arizona State NRAO-Socorro Arizona State	Survey for water masers in nearby molecular clouds	1.3 line	3	3.88
AJ320	Jarvis, M. Klockner, H.-R. Clewley, L. Rawlings, S.	Oxford Oxford Oxford Oxford	Structures of a complete sample of radio sources	20	11, 16, 19, 24, 31, 31	12.41
AJ321	Jamrozy, M. Mack, K.-H. Siemiginowska, A. Stawarz, L.	Krakow Bologna CfA CfA	Fossil radio lobes	6	...	2.77
AK563	Kenney, J. van Gorkom, J. Vollmer, B. Chung, A.	Yale University Columbia Strasbourg Columbia	Virgo cluster, a Laboratory for studying galaxy evolution	20 line	...	73.64
AK583	Kulkarni, S. Cameron, B. Soderberg, A.M. Cenko, S. Frail, D. Harrison, F.A. Fox, D. Gal-Yam, A. Moon, D-S.	Caltech Caltech Caltech NRAO-Socorro Caltech Caltech Tel Aviv University Caltech	Gamma-ray bursts, x-ray flashes, and core collapse SNe	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	...	9.54
AK585	Karovska, M. Matthews, L.D.	CfA NRAO-CV	Monitoring of maser line and continuum flux densities of Mira	0.7, 1.3, 3.6, 20	4	2.67
AK604	Kaiser, C.R. Brocksopp, C. Sokoloski, J.L. Gunn, K. Fender, R.P.	Southampton MSSL CfA Southampton Amsterdam	Imaging a candidate lobe of the microquasar GRS1915+105	3.6, 6, 20	16	4.45
AK622	Kondratko, P. Greenhill, L. Moran, J.	Harvard SAO SAO	Discovery of water maser emission in a distant AGN	1.3	...	1.77
AL637	Laing, R. Hardcastle, M.H. Bridle, A.	ESO-Garching Bristol NRAO-CV	Deep polarimetry of the jets in the FRI radio galaxy 3C 296	3.6	14	5.34
AL646	Liszt, H. Pety, J. Lucas, R.	NRAO-CV IRAM IRAM	HI absorption toward extragalactic continuum sources	20 line	27	1.78
AL654	Lim, J. Hirano, N. Ohashi, N. Takakuwa, S.	Academia Sinica ASIAA ASIAA CfA-Hawaii	Imaging binary/multiple protostellar systems	0.7	28, 31	6.41
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	3, 25	2.76
AP490	Pihlstrom, Y. Sjouerman, L. Fish, V.L.	Caltech NRAO-Socorro NRAO-Socorro	Excited OH masers toward supernova remnant	1.3, 3.6, 6 line	1	3.81
AP492	Pietu, V. Testi, L. Guilloteau, S. Natta, A. Dutrey, A.	Obs. de Grenoble Arcetri Bordeaux Arcetri Obs. de Bordeaux	Imaging the disk of the Herbig Ae star MWC 480	0.7, 3.6	17, 18	7.95
AR568	Revglio, P. vanGorkom, J.	Columbia Columbia	Imaging galaxies that deviate from the FIR-radio correlation	20	2, 2, 4	5.80
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	...	12.44

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS663	Sahai, R. Claussen, M. Morris, M. de Lintel Hekkert, P Zijlstra, A.	JPL NRAO-Socorro UCLA ATNF UMIST	Probing kinematical structure of protoplanetary nebulae	18	...	6.71
AS805	Shirley, Y. Evans, N. Spitzer c2d Legacy T	NRAO-Socorro Univ. Texas	Search for ionized gas near the surprising Spitzer-Detected source	3.6, 6	...	2.22
AS838	Stocke, J. Keeney, B. Carilli, C.	Colorado Colorado NRAO-Socorro	HI imaging of host galaxies of damped Ly-alpha absorbers	20 line	3	5.43
AS839	Stemiginowska, A. Cheung, T.	SAO MIT	Deep VLA imaging of an X-ray cluster associated with a z-1.086 CSS quasar	20	...	5.60
AS840	Stocke, J. vanGorkom, J. Zamojski, M. Hibbard, J. Keeney, B.	Colorado Columbia Columbia NRAO-CV Colorado	A probable HI cloud in a void	20 line	22	3.53
AS841	Stamatellos, D. Ward-Thompson, D. Whitworth, A.	Cardiff Univ. ROE Cardiff Univ.	Cores with very young protostars	3.6	20, 21, 22, 28	15.46
AS843	Schillemat, K. Claussen, M. Shirley, Y. Simpson, C.	Clarkson College NRAO-Socorro NRAO-Socorro Wellesley	Systematic monitoring campaign for water masers	1.3	...	0.80
AS845	Shirley, Y.L. Claussen, M.J.	NRAO-Socorro NRAO-Socorro	Continuum study of two new protostellar candidates	3.6, 6	19, 19, 19, 27	20.99
AS846	Soderberg, A. Chevalier, R. Frail, D. Kulkarni, S.	Caltech Univ. Virginia NRAO-Socorro Caltech	Enigmatic type Ibc supernovae and their mysterious engines	0.7, 1.3	...	0.44
AT307	Toribio, M.C. Solanes, J. Uson, J.M.	Barcelona Barcelona NRAO-CV	Imaging HI deficient spirals on the outskirts of Virgo	20 line	9, 16	16.01
AT309	Tsai, C-W. Turner, J. Beck, S.	UCLA Calif.-Los Angeles Tel Aviv University	Imaging candidate supernebulae in starburst galaxies	1.3	1, 4	1.78
AU104	Umana, G. Cerrigone, L. Trigilio, C.	Noto Catania Noto	Survey of very young PNe candidates	3.6	25, 26	5.42
AV282	Verdes-Montenegro, L. Espada, D. Bosma, A. Leon, S. Yun, M. Athanasoulas, E. Sulentic, J.	IAA IAA Marseille IAA Massachusetts Marseille Alabama	HI imaging of well-isolated spiral galaxies	20 line	18, 22, 23, 24, 25	24.34
AW641	Weiler, K. Stockdale, C. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Pooley, D. Immler, S. Ryder, S.	NRL Marquette Univ. NRAO-Socorro IPAC STScI Valencia MIT MIT NASA-GSFC AAO	Triggered observations of type II SNe	1.3, 2, 3.6, 6, 20, 90 TRIGGER	4, 12, 21	4.17
AW649	Wilcots, E. Doane, N. Sanders, W. Chomiuk, L. Zweibel, E.	Wisconsin Wisconsin Wisconsin Wisconsin Wisconsin	Deep imaging of spiral galaxies with X-ray superbubbles	6	15, 24	11.76
AW657	White, G.J.	Univ. Kent	Continuum structure of the Beehive proplyd	3.6	10	3.52
AW661	Willson, R.F.	Tufts	Imaging source regions of coronal mass ejections	20, 90	1, 2	8.87
AZ161	vanZee, L.	Indiana	Origin of luminosity-metallicity relation	20	...	2.20
AZ162	Zapata, L.A. Rodriguez, L.F. Ho, P.T.P. Garay, G.	CfA UNAM CfA Chile	Methanol masers and continuum towards protostar IRAS 16547-4347	0.7 line	1	1.67
BB191	Barvainis, R. Ulvestad, J.S. Birkinshaw, M. Lehar, J.	NSF NRAO-Socorro Bristol CombinatoRx	Radio-quiet quasars	6 Phased array VLBI	22	4.39

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BB209	Boyce, E. Hewitt, J. Myers, S.T.	MIT/NRAO MIT NRAO-Socorro	Observations of gravitational lens central images	3.6, 6 Phased array VLBI	29	3.0
BF084	Forbrich, J. Massi, M. Ros, E. Menten, K.	MPIfR MPIfR MPIfR MPIfR	Non-thermal emission from protostars	3.6 Phased array VLBI	3, 28	10.06
BG156	Giroletti, M. Giovannini, G. Taylor, G.B.	Bologna Bologna NRAO-Socorro	Kinematics in the compact symmetric object 4C31.04	6 Single antenna VLBI	22	8.0
BM223	Maccarone, T.J. Brisken, W. Miller-Jones, J. Jonker, P.G.	Univ. Amsterdam NRAO-Socorro Oxford CfA	Imaging faint sources toward the globular cluster M15	6 Phased array VLBI	23	2.27
BR102	Ratner, M. Bartel, N. Bietenholz, M.F. Lebach, D.E. Lederman, J. Lestrade, J.-F. Ransom, R.R. Shapiro, I.I.	CfA York U. York U. CfA York University Meudon York U. CfA	Astrometric monitoring of HR 8703 in 2005 for GPB mission	2, 3.6, 6 Phased array VLBI	15	10.67
S60636	Fabbiano, G. Siemiginowska, A. Elvis, M. Baldi, A. Pellegrini, S. Greenhill, L.J.	CfA CfA CfA Bologna Bologna CfA	Chandra/VLA observations of nucleus of NGC 821	3.6, 6	21	8.0
DYNAMI			Dynamic scheduling test		5, 5, 6, 7	60.0
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Software Student observing General tests		9, 10	34.0 62.0 15.0 43.0 4.0 39.5

**VLA  
Utilization Report  
July, 2005**

	Scheduled Hours	Percentage
Astronomy	524	67.26
Maintenance	62	9.23
Test/Calc	158	23.51
Total	744	100.0

Average downtime measured in antenna hours was 13.78% of scheduled antenna hours, distributed as:

(Increased downtime in July was due to dynamic scheduling tests.)

System	Percentage
Antenna Pads	0.15
Cryogenics	0.59
Electrical	0.06
EVLA	85.11
Focus/Rotation	0.58
Front End	1.83
HVAC	0.31
RFI	5.22
LO/IF	3.23
Mechanical	0.04
Monitor/Control	0.06
Other	0.05
Servo	0.67
Site Power	0.24
VLA Computers	1.50
VLA Correlator	0.36

## VLA Utilization Report June 2005

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB1162	Boone, F. Brouillet, N. Braine, J. Kording, E. Henkel, C. Jimenez-Garate, M.A. Rupen, M.	MPIFR Bordeaux Bordeaux MPIFR MPIFR MIT NRAO-Socorro	Monitoring the ultra luminous X-ray source M81 X-9	3.6	5	1.78
AB1179	Bower, G.C. Bolatto, A. Kalas, P. Matthews, B. Wright, J. Graham, J. Marcy, G.	Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley	Continuum survey of low-mass stars closer than 10 pc	3.6, 20	9, 11	9.6
AB1181	Beasley, A.J. Claussen, M.J. Healy, K.	NRAO-Santiago NRAO-Socorro Arizona State	Survey for water masers in the Orion Nebula	1.3 line	18, 20	12.29
AC781	Cannon, J.M. Skillman, E. Walter, F.	MPIA Minnesota MPIA	HI imaging of starbursts with Lyalpha in emission and absorption	20 line	26, 26	5.31
AC788	Curiel, S. Girart, J.M. Rodriguez, L.F.	Cfa Barcelona UNAM	Search for a dust disk in the YLW 15 binary system	0.7	18	5.15
AF420	Faber, S. Chapman, S. Davis, M. Iverson, R.J. Steidel, C. Reddy, N. Smail, I.	Calif.-Santa Cruz Caltech Calif.-Davis ROE Caltech Caltech Durham	Deep imaging of the DEEP EGS region	20	2, 3, 6	21.55
AG696	Greve, T.R. Knudsen, K. Borys, C. vanderWerf, P. Kneib, J.-P. Blain, A.W. Iverson, R.J.	Caltech MPIA Caltech Leiden Toulouse Caltech ROE	Deep observations of three massive clusters of galaxies	6	18, 19, 28	16.65
AH856	Hofstadter, M. Butler, B.	JPL NRAO-Socorro	Seasonal variations and depth probing of the atmosphere of Uranus	0.7, 1.3, 2, 6, 20	21, 23	11.09
AH875	Hamidouche, M. Looney, L. Shaw, Y-S.	Illinois Illinois Illinois	Circumstellar structures of Herbig Ae/Be stars	0.7	25	3.56
AH879	Healy, K. Claussen, M.J. Hester, J.J.	Arizona State NRAO-Socorro Arizona State	Survey for water masers in nearby molecular clouds	1.3 line	...	23.49
AJ313	Johnson, K. Plante, S.	Virginia Laval	Structure and spectra of low-metallicity starburst SBS0335-052	0.7, 1.3, 2, 3.6, 6	3, 4	7.93
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	...	14.5
AK585	Karovska, M. Matthews, L.D.	Cfa NRAO-CV	Monitoring of maser line and continuum flux densities of Mira	0.7, 1.3, 3.6, 20	18, 28	3.50
AK601	Kouveliotou, C. Gelfand, J. Gaensler, B. Wijers, R. Taylor, G. Eichler, D. Fender, R. Garrett, M.	NASA-MSFC Cfa Cfa Amsterdam NRAO-Socorro Ben Gurion Univ. Amsterdam JIVE	SGR 1806-20	1.3, 3.6, 6, 20 ToO	16	4.26
AK607	Keto, E. Zhang, Q.	Cfa Cfa	Kinematics of RRLs toward HI regions with molecular flows	1.3 line	23, 24, 28	16.11
AK610	Kulkarni, S.R. Cameron, P.B. Frail, D.A.	Caltech Caltech NRAO-Socorro	Radio afterglow following giant flare from SGR 1806-20	90 ToO	11	3.11
AL625	Lang, C. Figer, D. Najarro, F.	Univ. Iowa STScI CSIC	Structure and spectra of luminous blue variable stars	0.7, 1.3	19, 21	13.03

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AL654	Lim, J. Hirano, N. Ohashi, N. Takakuwa, S.	Academia Sinica ASIAA ASIAA CfA-Hawaii	Imaging binary/multiple protostellar systems	0.7	20, 22	1.78
AM793	Monnier, J.D. Greenhill, L.J. Tuthill, P.G. Danchi, W.	Michigan CfA Sydney U. NASA-GSFC	Continuum monitoring of colliding wind binary WR 112	3.6	6	0.89
AN124	Neff, S. Owen, F. Eilek, J. Morganti, R.	NASA-GSFC NRAO-Socorro NMIMT ASTRON	Intermediate-scale structure of Centaurus A	90	20	3.56
AO192	Osten, R. Jayawardhana, R.	NRAO-CV Univ. of Toronto	Brown dwarf TWA 5B	3.6 EXPLORE	9	1.78
AP487	Pandian, J. Momjian, E. Goldsmith, P.	Cornell Arecibo Cornell	HI absorption to resolve the distance ambiguity of methanol masers	20 line	22	4.44
AP490	Pihlstrom, Y. Sjouwerman, L. Fish, V.L.	Caltech NRAO-Socorro NRAO-Socorro	Excited OH masers toward supernova remnants	1.3, 3.6, 6 line	30	2.12
AR545	Rupen, M. Mioduszewski, A.J. Dhawan, V.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	Monitoring of X-ray binaries etc.	0.7, 1.3, 2, 3.6, 6, 20	2, 3, 6, 7	3.97
AR565	Remijan, A. Hollis, J.M.	NASA-GSFC NASA-GSFC	Hot cores in the protostellar system IRAS16293-2422	0.7 line	26, 27	10.67
AR568	Reviglio, P. vanGorkom, J.	Columbia Univ. Columbia	Imaging galaxies that deviate from the FIR-radio correlation	20	25, 26, 27	34.17
AR569	Reid, M. Menten, K.	CfA MPIFR	Calibrator search for VY CMa	0.7, 3.6	12	2.67
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	...	12.43
AS796	Soderberg, A. Kulkarni, S. Frail, D. Chevalier, R.	Caltech Caltech NRAO-Socorro Virginia	Triggering on further type Ibc SNe	1.3, 3.6, 6, 20 TRIGGER	5	1.24
AS800	Sjouwerman, L. Messineo, M. Habing, H. Honma, M. Imai, H.	NRAO-Socorro Leiden Leiden NAOJ-Mizusawa Kagoshima U.	Monitoring circumstellar SiO masers near Sgr A*	0.7 line	12	1.78
AS812	Schinnerer, E. Rupen, M. Kennicutt, R. Mason, B.S.	MPIA NRAO-Socorro Arizona NRAO-GB	Deep imaging of M51 at 20cm	20	1, 4, 5	18.53
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	21	1.33
AS838	Stoeke, J. Keeney, B. Carilli, C.	Colorado Colorado NRAO-Socorro	HI imaging of host galaxies of damped Ly-alpha absorbers	20 line	18, 20, 21, 23, 30	14.2
AS844	Schinnerer, E. Carilli, C. Smolcic, V.	MPIA NRAO-Socorro MPIA	Spectral indices of COSMOS sources without optical counterparts	6	19	8.43
AT309	Tsai, C-W. Turner, J. Beck, S.	UCLA Calif.-Los Angeles Tel Aviv University	Imaging candidate supernovae in starburst galaxies	1.3	24	11.42
AU104	Umana, G. Cerrigone, L. Trigilio, C.	Noto Catania Noto	Survey of very young PNe candidates	3.6	20, 20, 23, 27, 30	9.76
AV280	deVries, W.H. Xanthopoulos, E. Becker, R.	Lawrence Livermore Lawrence Livermore Calif.-Davis	Structure of candidate FR II quasars from the SDSS	20	1, 5, 6, 7	7.93
AW641	Weiler, K. Stockdale, C. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Pooley, D. Immler, S. Ryder, S.	NRL Marquette Univ. NRAO-Socorro IPAC STScI Valencia MIT MIT NASA-GSFC AAO	Triggered observations of type II SNe	1.3, 2, 3.6, 6, 20, 90 TRIGGER	8, 12, 12, 13, 17	6.22

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AW647	Weiler, K. Stockdale, C. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Pooley, D. Immler, S.	NRL Marquette Univ. NRAO-Socorro IPAC STScI Valencia MIT MIT NASA-GSFC	Long term monitoring of radio supernovae	1.3, 2, 3.6, 6, 20	13	18.66
AY155	Yun, M. Xu, K.C. Verdes-Montenegro, L.	Massachusetts Caltech-IPAC IAA	HI distribution and kinematics in Stephan's Quintet	20 line	2, 3, 4, 5	35.54
AZ159	Zapata, L.A. Ho, P.T.P. Rodriguez, L.F.	Cfa Cfa UNAM	Spectral indices of embedded sources in NGC 6334I(N)	0.7	29	3.56
BB209	Boyce, E. Hewitt, J. Myers, S.T.	MIT/NRAO MIT NRAO-Socorro	Observations of gravitational lens central images	3.6, 6 Phased array VLBI	10	3.55
BD109	Dougherty, S. Pittard, J. O'Connor, E. Beasley, A.J. Claussen, M.J.	DRAO Leeds NRC/UPEI NRAO-Santiago NRAO-Socorro	Structural monitoring of colliding-wind binary WR140	... Single antenna VLBI	17, 17	13.78
BM223	Maccarone, T.J. Briskin, W. Miller-Jones, J. Jonker, P.G.	Univ. Amsterdam NRAO-Socorro Oxford Cfa	Imaging faint sources toward the globular cluster M15	6 Phased array VLBI	13	2.73
BW084	Winn, J.N. Rusin, D. Keeton, C.	Cfa Pennsylvania Rutgers Univ.	Search for central images in two gravitational lenses	6 Phased array VLBI	10	3.16
GB049	Bartel, N. Bietenholz, M.F. Beasley, A.J. Graham, D. Altunin, V. Venturi, T. Umana, G. Cannon, W. Conway, J.	York U. York U. NRAO-Santiago MPIfr JPL Bologna Noto York U. Onsala	SN1993J: structural and spectral evolution of shell	6, 20 Phased array VLBI	11	11.1
S60849	Kellogg, E.M. Nichols, J. Pedelty, J.A. Sokoloski, J.L.	Cfa Cfa NASA-GSFC Cfa	Chandra/VLA observations of symbiotic star R Aqr	3.6	6	7.92
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Polarization Calibrator Monitoring Software General tests			40.0 71.5 30.0 15.0 58.5 31.0



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	Scheduled Hours	Percentage
Astronomy	493	65.81
Maintenance	72	10.84
Test/Calc	155	23.34
Total	720	100.0

Average downtime measured in antenna hours was 11.44% of scheduled antenna hours, distributed as:

System	Percentage
Antenna Pads	0.78
Cryogenics	0.75
EVLA	91.08
Focus/Rotation	0.14
Front End	2.02
HVAC	0.07
RFI	0.60
LO/IF	1.17
Mechanical	0.51
Monitor/Control	0.03
Obs Program	0.39
Other	0.10
Servo	1.92
VLA Correlator	0.45

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA298	Araya, E. Hofner, P. Goss, M. Kurtz, S. Olmi, L. Linz, H.	NMIMT NMIMT NRAO-Socorro UNAM CNR MPIA	Continuum toward 6cm formahdehyde maser in IRAS 18566+0408	3.6, 6	18	3.56
AB1140	Buckalew, B. Kobulnicky, H.	Wyoming Wyoming	Continuum search for young star clusters in NGC 450	2	27	3.52
AB1150	Birzan, L. McNamara, B. Carilli, C. Rafferty, D. Nulsen, P. Wise, M.	Ohio U. Ohio U. NRAO-Socorro Ohio Univ. CfA MIT-CSR	Systems with X-ray cavities	3.6, 6, 20, 90	3, 14	15.67
AB1159	vanBreugel, W. vanGorkom, J. Morganti, R. Oosterloo, T. Croft, S. deVries, W.H.	Lawrence Livermore Columbia ASTRON ASTRON Lawrence Livermore Lawrence Livermore	HI imaging of Minkowski's object	20 line	22, 23, 24	17.96
AB1162	Boone, F. Brouillet, N. Braine, J. Kording, E. Henkel, C. Jimenez-Garate, M.A. Rupen, M.	MPIfR Bordeaux Bordeaux MPIfR MPIfR MIT NRAO-Socorro	Monitoring the ultra luminous X-ray source M81 X-9	3.6	27	1.78
AC711	Clarke, T. Sarazin, C. Blanton, E.	Virginia Virginia Virginia	Spectral-index study of cluster Abell 115	90	6, 8	5.15
AC768	Curiel, S. Girart, J.M. Raga, A.	CfA/UNAM IEEC-Barcelona UNAM	Proper motions of SiO emission in the L1448 outflow	0.7 line	13	8.78
AC773	Cohen, A.S. Lane, W. Kassim, N.E. Lazio, T.J.W.	NRL NRL NRL NRL	Structure of ultra-steep spectrum sources in the VLSS	20	10	1.31
AC775	Curiel, S. Ho, P.T.P. Hirano, N. Zhang, Q. Girart, J.M.	CfA/UNAM CfA ASIAA CfA IEEC-Barcelona	Structure and kinematics of the SiO outflow in HH211	0.7 line	9	8.62
AC779	Cheung, C.C. Siemiginowska, A. Harris, D.	MIT CfA CfA	Deep imaging of the 300 kpc X-ray jet in PKS 1127-145	3.6	10	7.11
AD500	DeLaney, T. Rudnick, L.	Minnesota Minnesota	Spectral-index imaging of Cassiopeia A	6, 20	6	10.51
AD509	Delain, K. Rudnick, L.	Minnesota Minnesota	Structure and spectra of diffuse sources not in rich clusters	90	20, 21	7.05
AF415	Furuya, R. Cesaroni, R. Shinnaga, H.	Caltech Arcetri CfA	Continuum emission toward a cluster of high-mass protostars	1.3	28, 30	6.64
AF420	Faber, S. Chapman, S. Davis, M. Iverson, R.J. Steidel, C. Reddy, N. Smail, I.	Calif.-Santa Cruz Caltech Calif.-Davis ROE Caltech Caltech Durham	Deep imaging of the DEEP EGS region	20	...	68.41
AF425	Fish, V. Reid, M.	CfA CfA	New velocity feature in W3(OH)	6, 20 line EXPLORE	27	1.31

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH810	Hoare, M. Lumsden, S. Oudmaijer, R. Busfield, A. Diamond, P. Garrington, S. Muxlow, T. Gunn, A. Spencer, R. Cotton, W. Churchwell, E. Kurtz, S. Shepherd, D. Chandler, C. Mundy, L. Gibb, A. Ridge, N. Dougherty, S. Gledhill, T. Zijlstra, A. Fender, R.	Leeds Leeds Leeds Leeds Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank NRAO-CV Wisconsin UNAM NRAO-Socorro NRAO-Socorro Maryland Maryland FCRAO DRAO Hertfordshire Manchester Amsterdam	Co-ordinated radio and infrared survey for high-mass star formation	6	9, 16	13.30
AH856	Hofstadter, M. Butler, B.	JPL NRAO-Socorro	Seasonal variations and depth probing of the atmosphere of Uranus	1.3	26	7.01
AH862	Harris, D. Junor, W. Cheung, C.C.	Cfa Los Alamos MIT	Monitoring knot HST-1 in the M87 jet	0.7, 1.3, 2	2	3.56
AH866	Hunter, D. Elmegreen, B. Brinks, E. Westpfahl, D. Nordgren, T. Wilcots, E. McIntyre, V. Ostlin, G.	Lowell Obs. IBM Guanajuato NMIMT Redlands U. Wisconsin Sydney U. Uppsala	Structure of HI in dwarf galaxies	20 line	6, 8, 9	12.21
AH869	Hoare, M.G. Urquhart, J. Lumsden, S. Oudmaijer, R. Busfield, A.	Leeds Leeds Leeds Leeds Leeds	Continuum toward red MSX sources	6	3, 8, 22	11.74
AJ313	Johnson, K. Plante, S.	Virginia Laval	Structure and spectra of low-metallicity starburst SBS0335-052	0.7, 1.3, 2, 3.6, 6	2	7.69
AJ316	Jimenez-Serra, I. Martin-Pintado, J. Rodriguez-Franco, A. Chandler, C. dePree, C.	CSIC IEM-CSIC CSIC NRAO-Socorro Agnes Scott	A hot spot near Cephus HW 2 : sulfur dioxide emission	0.7 line	1, 2, 3	7.06
AJ319	Jarvis, M. McLure, R.J. Cotter, G. Miller, L.	Oxford Oxford Oxford Oxford	Deeper imaging of radio quiet quasars	6	12	8.89
AK579	Kondratko, P. Greenhill, L. Moran, J.	Harvard Cfa Cfa	Water maser emission in 5 distant AGN	1.3 line EXPLORE	20	1.78
AK583	Kulkarni, S. Soderberg, A.M. Cenko, S. Frail, D. Harrison, F.A. Fox, D. Gal-Yam, A. Moon, D-S.	Caltech Caltech Caltech NRAO-Socorro Caltech Caltech Tel Aviv University Caltech	Gamma-ray bursts, x-ray flashes, and core collapse SNe	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	...	1.40
AK585	Karovska, M. Matthews, L.D.	Cfa NRAO-CV	Monitoring of maser line and continuum flux densities of Mira	0.7, 1.3, 3.6, 20	16, 17	2.51
AK586	Kurtz, S. Hofner, P. Araya, E.	UNAM NMIMT NMIMT	Continuum imaging of DR 21 (OH)	1.3	5	5.18
AK601	Kouveliotou, C. Gelfand, J. Gaensler, B. Wijers, R. Taylor, G. Eichler, D. Fender, R. Garrett, M.	NASA-MSFC Cfa Cfa SUNY NRAO-Socorro Ben Gurion Amsterdam JIVE	SGR 1806-20	1.3, 3.6, 6, 20 ToO	2, 13, 27	9.66

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AK610	Kulkarni, S.R. Cameron, P.B. Frail, D.A.	Caltech Caltech NRAO-Socorro	Radio afterglow following giant flare from SGR 1806-20	90 To0	24	2.57
AL646	Liszt, H. Pety, J. Lucas, R.	NRAO-CV IRAM IRAM	HI absorption toward extragalactic continuum sources	20 line	25	0.99
AL647	Lang, C. Figer, D. Najarro, F.	Univ. Iowa STScI CSIC	Structure and spectra of luminous blue variables	1.3, 3.6	9, 11, 14	20.83
AL649	Leon, S. SabaterMontes, J. Verdes-Montenegro, L Verley, S. Lisenfeld, U. PerezRamirez, D. Bergond, G. Lim, J.	IAA IAA IAA IAA JAEN Michigan State Academia Sinica	Survey for radio cores in isolated galaxies	3.6, 20	5, 13, 20, 23, 28, 30	6.09
AM793	Monnier, J.D. Greenhill, L.J. Tuthill, P.G. Danchi, W.	Michigan Cfa Sydney U. NASA-GSFC	Continuum monitoring of colliding wind binary WR 112	3.6	20	0.88
AO191	Osorio, M. Anglada, G. Rodriguez, L.F. Lizano, S.	IAA IAA UNAM UNAM	Ammonia emission from candidate hot molecular cores	1.3 line	21	7.10
AP485	Pidopryhora, Y. Liszt, H. Lockman, F.J. Rupen, M.	Ohio University NRAO-CV NRAO-GB NRAO-Socorro	HI and OH absorption in Galactic halo clouds	20 line	7	7.92
AR545	Rupen, M. Mioduszewski, A.J. Dhawan, V.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	Monitoring of X-ray binaries etc.	0.7, 1.3, 2, 3.6, 6, 20	...	12.12
AR560	Rodriguez, L.F. Loiuard, L. D'Alessio, P.	UNAM UNAM UNAM	Structure of the protoplanetary disk around HH24MMS	0.7	30	8.56
AR562	Ribo, M. Mirabel, I.F. Casares, J. Combi, J.	CEA-Saclay Saclay IAC Universidad de Jaen	Monitoring the spectrum of a new microquasar candidate	2, 3.6, 6, 20	17	1.19
AS796	Soderberg, A. Kulkarni, S. Frail, D. Chevalier, R.	Caltech Caltech NRAO-Socorro Virginia	Triggering on further type Ibc SNe	1.3, 3.6, 6, 20 TRIGGER	21	2.57
AS812	Schinnerer, E. Rupen, M. Kennicutt, R. Mason, B.S.	MPIA NRAO-Socorro Arizona NRAO-GB	Deep imaging of M51 at 20cm	20	31	5.46
AS826	Spangler, S.R. Ingleby, L.	Iowa Univ. of Iowa	Faraday rotation through the Solar corona	20	29	7.11
AS827	Sakelliou, I. Jetha, N. Porman, T. O'Sullivan, E. Vrtilek, J. Mulchaey, J. Darling, J.	Birmingham Birmingham Birmingham Cfa Cfa Carnegie Obs. Carnegie Obs.	Structure and spectra of sources in galaxy groups	90	1, 4, 7	19.56
AS832	Skillman, E.	Minnesota	HI structure and kinematics of ultracompact blue dwarfs	20 line	14	9.36
AT304	Turner, J. Naiman, J. Beck, S. Ho, P.T.P. Tsai, C-W.	Calif.-Los Angeles UCLA Tel Aviv University Cfa UCLA	The super star cluster nebula in NGC 660	1.3	31	3.47
AT310	Torrelles, J. Dent, W. Anglada, G.	IEEC-Barcelona ROE IAA	SED of Ae/Be star with CO	3.6 EXPLORE	15	0.81
AW605	Walter, F. Brinks, E. de Blok, E. Thornley, M. Kennicutt, R.	MPIA Guanajuato Univ. Cardif Bucknell U. Arizona	HI structures of nearby galaxies	20 line	5, 22, 23, 28	19.77

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AW641	Weiler, K. Stockdale, C. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Pooley, D. Immler, S. Ryder, S.	NRL Marquette Univ. NRAO-Socorro Caltech-IPAC STScI Valencia MIT MIT NASA-GSFC AAO	Triggered observations of type II SNe	1.3, 2, 3.6, 6, 20, 90 TRIGGER	5, 13, 23, 24	0.03
AW649	Wilcots, E. Doane, N. Sanders, W. Chomiuk, L. Zweibel, E.	Wisconsin Wisconsin Wisconsin Univ. of Wisconsin Univ. of Wisconsin	Deep imaging of spiral galaxies with X-ray superbubbles	20	15	9.30
AW652	Walter, F. Carilli, C. Bertoldi, F. Menten, K. Cox, P. Weiss, A. Lo, K.Y.	MPIA NRAO-Socorro MPIFR MPIFR IAP-Paris Bonn Univ. NRAO-CV	Structure of CO in QSO host galaxies beyond redshift four	0.7	1	3.56
AY155	Yun, M. Xu, K.C. Verdes-Montenegro, L	Massachusetts Caltech-IPAC IAA	HI distribution and kinematics in Stephan's Quintet	20 line	25, 27, 31	5.86
BB204	Biggs, A. Porcas, R. Rusin, D.	JIVE MPIFR Pennsylvania	Jet structures in the six-image lens system CLASS B1359+154	20 Phased array VLBI	29	10.74
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	7	13.17
BN031	Nakashima, J. Kemball, A.J. Deguchi, S.	Illinois Univ. Illinois NAOJ-Nobeyama	Structure of SiO masers in IRAS 19312+1950	0.7 Phased array VLBI	1	4.0
BR102	Ratner, M. Bartel, N. Bietenholz, M.F. Lebach, D.E. Lederman, J. Lestrade, J.-F. Ransom, R.R. Shapiro, I.I.	CfA York U. York U. CfA York University Meudon York U. CfA	Astrometric monitoring of HR 8703 in 2005 for GPB mission	2, 3.6, 6 Phased array VLBI	28	10.33
S60643	Brown, A. Ayres, T. Osten, R. Harper, G.M. Linsky, J.	Colorado Colorado NRAO-CV Colorado Colorado	Chandra/VLA/VLBA observations of binary Sigma Gem	0.7, 1.3, 2, 3.6, 6, 20	16, 17	21.29
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Software General tests			33.44 62.0 12.5 49.0 16.5

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	Scheduled Hours	Percentage
Astronomy	596	77.40
Maintenance	62	9.47
Test/Calc	86	13.13
Total	744	100.00

Average downtime measured in antenna hours was 14.9% of scheduled antenna hours, distributed as:

System	Percentage
Clocks	0.37
Cryogenics	0.69
Electrical	0.00
EVLA	84.56
FOC/Rot	0.04
Front End	2.70
HVAC	0.84
RFI	0.67
LO/IF	1.40
Monitor/Control	0.02
Obs Program	0.37
Other	0.52
Power Supply	0.02
Servo	4.76
Site Power	0.70
VLA Computers	0.39
VLA Correlator	1.60
VLBA Correlator	0.35
Total	100.00

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB1161	Bohringer, H. Feretti, L. Giovannini, G. Sarazin, C. Schuecker, P. Zhang, Y.Y.	MPE Bologna Bologna Virginia MPE MPIE	Imaging a cluster with a luminous cooling core	3.6, 6, 20	9, 17	6.98
AB1182	Brunthaler, A. Falcke, H. Reid, M.J. Greenhill, L.J. Henkel, C.	JIVE ASTRON CfA CfA MPIFR	A second maser in IC 10	1.3 line EXPLORE	3	0.91
AC759	Cohen, A.S. Israel, F. Kassim, N.E.	NRL Leiden NRL	Spectral flattening in the spiral galaxy NGC 891	400	4	8.18
AC765	Cesaroni, R. Beltran, M. Codella, C. Furuya, R. Olm, L. Testi, L.	Arcetri Arcetri CNR-Roma Caltech CNR Arcetri	Kinematics of ammonia towards an UC HII region	1.3 line	21	3.11
AC776	Clarke, T.E. Sarazin, C. Markevitch, M.	Virginia Virginia CfA	Structure and spectra of the diffuse emission in Abell 520	90	15	5.56
AD498	DeLaney, T. Rudnick, L. Sankrit, R. Blair, W. Petre, R. Harrus, I.	Minnesota Minnesota Johns Hopkins Johns Hopkins NASA-GSFC NASA-GSFC	Proper motions within Kepler's supernova remnant	6, 20	27	3.88
AD507	Decin, L. Blommaert, J. Groenewegen, M.A.T. Butler, B.	Katholieke Univ. Katholieke Univ. Katholieke Univ. NRAO-Socorro	Normal late-type stars at 7mm	0.7	21	1.81
AF413	Franco-Hernandez, R. Rodriguez, L.F. Moran, J.	UNAM UNAM CfA	Time variability of NGC 7538 IRS1 and other UC HII regions	0.7, 3.6, 6	28	7.2
AF414	Frail, D. Soderberg, A.M. Kulkarni, S.	NRAO-Socorro Caltech Caltech	Continued monitoring of the bright GRB 030329	3.6, 6, 20 TRIGGER	6	2.78
AF415	Furuya, R. Cesaroni, R. Shinnaga, H.	Caltech Arcetri CfA	Continuum emission toward a cluster of high-mass protostars	1.3	2	6.48
AF420	Faber, S. Chapman, S. Davis, M. Ivison, R.J. Steidel, C. Reddy, N. Smail, I.	Calif.-Santa Cruz Caltech Calif.-Davis ROE Caltech Caltech Durham	Deep imaging of the DEEP Extended Groth Strip region	20	17	7.41
AG678	Garay, G. Rodriguez, L.F.	Chile UNAM	Search for gyrosynchrotron sources toward cold massive cores	3.6	10	7.16
AG698	Gomez, J.F. deGregorio-Monsalvo, Suarez, O.	LAEFF LAEFF LAEFF	Reappearance of the water maser in L1448C	1.3 Line EXPLORE	9	0.84

## VLA Utilization Report April 2005

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH810	Hoare, M. Lumsden, S. Oudmaijer, R. Busfield, A. Diamond, P. Garrington, S. Muxlow, T. Gunn, A. Spencer, R. Cotton, W. Churchwell, E. Kurtz, S. Shepherd, D. Chandler, C. Mundy, L. Gibb, A. Ridge, N. Dougherty, S. Gledhill, T. Zijlstra, A. Fender, R.	Leeds Leeds Leeds Leeds Manchester Manchester Manchester Manchester Manchester NRAO-CV Wisconsin UNAM NRAO-Socorro NRAO-Socorro Maryland Maryland FCRAO DRAO Hertfordshire Manchester Amsterdam	Co-ordinated radio and infrared survey for high-mass star formation	6	1, 15	4.17
AH847	Humphreys, E.M.L. Reid, M. Greenhill, L.J. Moran, J. Argon, A.	CfA CfA CfA CfA CfA	Monitoring of water maser spectrum and jet continuum of NGC 4258	1.3, 3.6 line	9	2.31
AH858	Hardcastle, M.H. Harris, D. Worrall, D. Birkinshaw, M.	Bristol CfA Bristol Bristol	Hotspots of FRII sources	0.7, 1.3	28	15.8
AH871	Hamidouche, M. Looney, L. Kuo, H-L. Shaw, Y-S.	Univ. of Illinois Maryland Univ. of Illinois Univ. of Illinois	Circumstellar structures of Herbig Ae/Be stars	0.7	17	5.96
AJ313	Johnson, K. Plante, S.	Virginia Laval	Structure and spectra of low-metallicity starburst SBS0335-052	0.7, 1.3, 2, 3.6, 6	3, 23	9.6
AJ316	Jimenez-Serra, I. Martin-Pintado, J. Rodriguez-Franco, A. Chandler, C. dePree, C.	CSIC IEM-CSIC CSIC NRAO-Socorro Agnes Scott	A hot spot near Cephus HW 2 : sulfur dioxide emission	0.7 line	5, 12	12.73
AJ319	Jarvis, M. McLure, R.J. Cotter, G. Miller, L.	Oxford Oxford Oxford Oxford	Deeper imaging of radio quiet quasars	6	8	9.21
AK583	Kulkarni, S. Soderberg, A.M. Cenko, S. Frail, D. Harrison, F.A. Fox, D. Gal-Yam, A. Moon, D-S.	Caltech Caltech Caltech NRAO-Socorro Caltech Caltech Tel Aviv University Caltech	Gamma-ray bursts, x-ray flashes, and core collapse SNe	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	...	9.29
AK585	Karovska, M. Matthews, L.D.	CfA NRAO-CV	Monitoring of maser line and continuum flux densities of Mira	0.7, 1.3, 3.6, 20	26	2.31
AK594	Keto, E. Zhang, Q.	CfA CfA	Structure of Ammonia and H53alpha in star-forming region NGC 7538	0.7, 1.3 line	17, 18	14.59
AK601	Kouveliotou, C. Gelfand, J. Gaensler, B. Wijers, R. Taylor, G. Eichler, D. Fender, R. Garrett, M.	NASA-MSFC CfA CfA SUNY NRAO-Socorro Ben Gurion Univ. Amsterdam JIVE	SGR 1806-20	1.3, 2, 3.6 20 Too	1, 8, 17, 25, 30	8.17
AK610	Kulkarni, S.R. Cameron, P.B. Frail, D.A.	Caltech Caltech NRAO-Socorro	Radio afterglow following giant flare from SGR 1806-20	90 ToO	8	2.78
AL637	Laing, R. Hardcastle, M.H. Bridle, A.	ESO-Garching Bristol NRAO-CV	Deep polarimetry of the jets in the FRI radio galaxy 3C 296	3.6	20, 22	10.89



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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AL649	Leon, S. Bergond, G. Lim, J. Lisenfeld, U. Perez Ramirez, D. Sabater Montes, J. Verdes-Montenegro, J. Verley, S.	IAA, Spain Michigan State ASIAA, Taiwan Granada Jaen IAA, Spain IAA, Spain IAA, Spain	Census and morphology of radio core of a well defined sample of isolated galaxies	3.5, 20	1	1.85
AM793	Monnier, J.D. Greenhill, L.J. Tuthill, P.G. Danchi, W.	Michigan CfA Sydney U. NASA-GSFC	Continuum monitoring of colliding wind binary WR 112	3.6	16	0.93
AM818	Marti, J. Perez, D. Luque-Escamilla, P. Garrido, J. Paredes, J.M.	U. Jaen U. Jaen U. Jaen U. Jaen Barcelona	Distant hot spot candidates toward Cygnus X-3	3.6, 6	16	3.70
AM821	Marecki, A. Mack, K.-H.	Torun ASTRON	Structure of potentially restarted sources	3.6, 6, 20	15	4.17
AM825	Morrison, G. Dickinson, M. Owen, F. Bauer, F. Koekemoer, A. Mobasher, B. Chary, R-R. Frayer, D.T.	IPAC NOAO NRAO-Socorro Cambridge Mt. Stromlo STScI Caltech Caltech	Deep imaging of the GOODS northern field	20	14	6.48
AM827	Maia, M.A.G. Schmitt, H.R.	Obs. do Valongo NRL	Imaging an optically-selected Seyfert sample	3.6	7	1.31
AM828	Ma, C-J. Lim, J.	Hawaii Academia Sinica	HI absorption toward sources in galaxy clusters	20 line	16, 29	5.52
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	1, 2, 3, 5, 7	41.65
AP478	Pedlar, A. Muxlow, T. Beswick, R. Argo, M. Wills, K.A.	Jodrell Bank Jodrell Bank Jodrell Bank Manchester Sheffield	Monitoring radio SNe and SNRs in nearby starbursts	2, 3.6, 6	16	3.70
AR545	Rupen, M. Mioduszewski, A.J. Dhawan, V.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	Monitoring of X-ray binaries etc.	0.7, 1.3, 2, 3.6, 6, 20	...	9.64
AR562	Ribo, M. Mirabel, I.F. Casares, J. Combi, J.	CEA-Saclay Saclay IAC Universidad de Jaen	Monitoring the spectrum of a new microquasar candidate	2, 3.6, 6, 20	15	1.34
AS796	Soderberg, A. Kulkarni, S. Frail, D. Chevalier, R.	Caltech Caltech NRAO-Socorro Virginia	Triggering on further type Ibc SNe	1.3, 3.6, 6, 20 TRIGGER	12	1.31
AS800	Sjouerman, L. Messineo, M. Habing, H. Honma, M. Imai, H.	NRAO-Socorro Leiden Leiden NAOJ Kagoshima U.	Monitoring circumstellar SiO masers near Sgr A*	0.7 line	25	1.70
AS826	Spangler, S.R. Ingleby, L.	Iowa Iowa	Faraday rotation through the Solar corona	20	1	7.40
AS827	Sakelliou, I. Jetha, N. Ponman, T. O'Sullivan, E. Vrtilek, J. Mulchaey, J. Darling, J.	Birmingham Birmingham Birmingham CfA CfA Carnegie Obs. Carnegie Obs.	Structure and spectra of sources in galaxy groups	90	30	7.11
AS829	Shirley, Y.L. Claussen, M.	NRAO-Socorro NRAO-Socorro	The continuum source in Spitzer core L1014	3.6, 20	9	11.03

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Progrm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
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	3	3.38
AS833	Schiminovich, D. Johnson, B. Hoopes, C. Heckman, T. Treyer, M.	Columbia Columbia Johns Hopkins Johns Hopkins Marseille	Imaging ultraviolet luminous galaxies	20	11, 13, 22	33.07
AT299	Terashima, Y. Ho, L.C. Ulvestad, J.	ISAS Carnegie Obs. NRAO-Socorro	Physics of accretion flows in ultra-low-luminosity AGNs	3.5	30	0.47
AT300	Tao, A. Goss, M. Morris, M. Hong, X.-Y. Zhao, J.-H.	Shanghai Obs. NRAO-Socorro Calif.-Los Angeles Shanghai Obs. CfA	Proper motions of radio components near Sgr A*	1.3	26	4.62
AT303	Tsai, C-W. Turner, J. Beck, S. Ho, P.T.P.	UCLA Calif.-Los Angeles Tel Aviv University CfA	HII regions in M82 and NGC 253	0.7, 1.3	15, 22	5.50
AT304	Turner, J. Naiman, J. Beck, S. Ho, P.T.P. Tsai, C-W.	Calif.-Los Angeles UCLA Tel Aviv University CfA UCLA	The super star cluster nebula in NGC 660	1.3	10	3.56
AW605	Walter, F. Brinks, E. de Blok, E. Thornley, M. Kennicutt, R.	MPIA Guanajuato Univ. Cardif Bucknell U. Arizona	HI structures of nearby galaxies	20 line	1, 2, 18, 25, 26, 29	37.82
AW641	Weiler, K. Stockdale, C. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Pooley, D. Immler, S. Ryder, S.	NRL Marquette Univ. NRAO-Socorro Caltech-IPAC STScI Valencia MIT MIT NASA-GSFC AAO	Triggered observations of type II SNe	1.3, 2, 3.6, 6, 20, 90 TRIGGER	14, 26	3.60
AW652	Walter, F. Carilli, C. Bertoldi, F. Menten, K. Cox, P. Weiss, A. Lo, K.Y.	MPIA NRAO-Socorro MPIfR MPIfR IAP-Paris Bonn Univ. NRAO-CV	Structure of CO in QSO host galaxies beyond redshift four	0.7	4, 7, 8, 9, 10, 11, 12	61.37
AZ155	Zijlstra, A. Hajduk, M. Kerber, F. vanHoof, P. Pollacco, D. Evans, A. Eyes, S.P. Kimeswenger, S.	Manchester UMIST ESO Queens-Belfast Queens-Belfast Keele Central Lancashire Univ. of Innsbruck	Structure of Sakurai's object and similar candidates	6	4	5.28
BB196	Bartel, N. Bietenholz, M.F. Rupen, M.	York U. York U. NRAO-Socorro	Central compact source in SN 1986J	1.3 Phased array VLBI	25	10.99
BF083	Forbrich, J. Massi, M. Ros, E. Menten, K.	MPIfR MPIfR MPIfR MPIfR	Structure of protostar YLW15-VLA2	3.6 Phased array VLBI	30	3.56
BK113	Kemball, A.J. Diamond, P.J.	Univ. Illinois Manchester	Monitoring SiO masers at 7mm and 3mm in two evolved stars	0.7 single antenna VLBI	1, 21, 22	9.70
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	23, 24	27.34
BN032	Nakai, N. Yamauchi, A. Sato, N. Diamond, P.J.	Tsukuba Univ. NAOJ NAOJ Manchester	Water masers in LINER galaxy IC 1481	1.3 Phased array VLBI	23	9.29

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BW080	Wrobel, J. Ulvestad, J.S. Ho, L.	NRAO-Socorro NRAO-Socorro Carnegie Obs.	Radio emission from the candidate IMBH in NGC 4395	20 Phased array VLBI	30	5.33
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Software Student observation General tests		24	34.5 62.0 11.5 38.0 1.85 20.0

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	<b>Scheduled Hours</b>	<b>Percentage</b>
Astronomy	565	76.25%
Maintenance	61	9.30%
Test/Calc	94	14.45%
<b>Total</b>	<b>720</b>	<b>100.0%</b>

Average downtime measured in antenna hours was 12.3% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Cryogenics	0.75
Electrical	0.06
EVLA	78.47
Focus/Rotation	0.23
Front End	1.74
HVAC	0.04
RFI	3.36
LO/IF	0.71
Mechanical	0.22
Monitor/Control	0.19
Operator Error	3.80
Other	4.05
Servo	5.47
Site Power	0.79
VLA Correlator	0.12
VLBA Recorders	0.01

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB1154	Bains, I. Richards, A.M.S. Gledhill, T.M. Yates, J.A.	New South Wales Jodrell Bank Hertfordshire University-London	Imaging the young PN IRAS 20406+2953	1.3, 2, 3.6, 6	18	3.61
AB1156	Blomme, R. Rauw, G. DeBecker, M. Runacres, M.C. VanLooy, S.	Royal Obs Belgium Leige Universite Liege Royal Obs Belgium Royal Obs Belgium	Monitoring the colliding-wind binary Cyg OB2 8A	6	1, 2, 8, 12	3.67
AB1157	Butler, B. Gurwell, M.	NRAO-Socorro Cfa	7mm observations of Pluto/Charon	0.7	2, 11, 17	13.54
AB1162	Boone, F. Brouillet, N. Braine, J. Kording, E. Henkel, C. Jimenez-Garate, M.A. Rupen, M.	MPIFR Bordeaux Bordeaux MPIFR MPIFR MIT NRAO-Socorro	Monitoring the ultra luminous X-ray source M81 X-9	3.6	27	1.78
AC750	Clarke, T.E. Lane, W. Sarazin, C. Kassim, N.E.	Virginia NRL Virginia NRL	FRIs in high and low density environments	90, 400	14	5.50
AC773	Cohen, A.S. Lane, W. Kassim, N.E. Lazio, T.J.W.	NRL NRL NRL NRL	Structure of ultra-steep spectrum sources in the VLSS	20	25, 25, 26, 27	23.04
AC778	Chandler, C. Brogan, C.L. McMullin, J.	NRAO-Socorro Hawaii-IFA NRAO-Socorro	Deep imaging of the proto-multiple system IRAS 16293-2422	0.7	13, 29	8.22
AD498	DeLaney, T. Rudnick, L. Sankrit, R. Blair, W. Petre, R. Harrus, I.	Minnesota Minnesota Johns Hopkins Univ. Johns Hopkins Univ. NASA-GSFC NASA-GSFC	Proper motions within Kepler's supernova remnant	6, 20	8	5.03
AG673	Gelfand, J. Williams, B. Sjouerman, L. Lazio, T.J.W. Gaensler, B. Kong, A. Trudolyubov, S.	Cfa Cfa NRAO-Socorro NRL Cfa Cfa Calif., Riverside	Structures and spectral indices of M31 SNRs	6	13, 18	14.02
AG679	Goddi, C. Moscadelli, L.	Cagliari Cagliari	Continuum toward the high-mass YSO in AFGL 5142	0.7, 1.3, 2, 3.6	10	1.74
AH810	Hoare, M. Lumsden, S. Oudmaijer, R. Busfield, A. Diamond, P. Garrington, S. Muxlow, T. Gunn, A. Spencer, R. Cotton, W. Churchwell, E. Kurtz, S. Shepherd, D. Chandler, C. Mundy, L. Gibb, A. Ridge, N. Dougherty, S. Gledhill, T. Zijlstra, A. Fender, R.	Leeds Leeds Leeds Leeds Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank NRAO-CV Wisconsin UNAM NRAO-Socorro NRAO-Socorro Maryland Maryland FCRAO DRAO Hertfordshire Manchester Amsterdam	Co-ordinated radio and infrared survey for high-mass star formation	6	14, 15, 21	21.59
AH872	Hyman, S. Lazio, T.J.W. Kassim, N.E.	Sweet Briar NRL NRL	New transient GCRT J1745-3009 toward the GC	20	25	1.39
AI117	Iverson, R.J. Dunlop, J. Reike, G. Egami, E.	ROE Edinburgh Arizona Arizona	Deep imaging of the Lockman Hole	20	12, 14	13.89
AJ313	Johnson, K. Plante, S.	Virginia Laval	Structure and spectra of low-metallicity starburst SBS0335-052	0.7, 1.3, 2, 3.6, 6	20	8.25

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AJ318	Jackson, N. Browne, I.W.A.	Jodrell Bank Jodrell Bank	Survey for lenses in FIRST/SDSS	3.6	3, 17, 29	4.14
AK583	Kulkarni, S. Soderberg, A.M. Cenko, S. Frail, D. Harrison, F.A. Fox, D. Gal-Yam, A. Moon, D-S.	Caltech Caltech Caltech NRAO-Socorro Caltech Caltech Tel Aviv University Caltech	Gamma-ray bursts, x-ray flashes, and core collapse SNe	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	...	4.54
AK601	Kouveliotou, C. Gelfand, J. Gaensler, B. Wijers, R. Taylor, G. Eichler, D. Fender, R. Garrett, M.	NASA-MSFC Cfa Cfa SUNY NRAO-Socorro Ben Gurion Univ. Amsterdam JIVE	SGR 1806-20	1.3, 3.6, 6, 20 ToO	4, 12, 19, 28, 29	8.65
AL645	Liszt, H. Pety, J. Lucas, R.	NRAO-CV IRAM IRAM	Ammonia absorption toward 3C111	1.3 line	7	2.78
AL649	Lyon, S. SabaterMontes, J. Verdes-Montenegro, L. Verley, S. Lisenfeld, U. PerezRamirez, D. Bergond, G. Lim, J.	IAA IAA IAA IAA IAA JAEN Michigan State Academia Sinica	Survey for radio cores in isolated galaxies	3.6, 20	28, 31, 31	6.53
AM793	Mohnier, J.D. Greenhill, L.J. Tuthill, P.G. Danchi, W.	Michigan Cfa Sydney U. NASA-GSFC	Continuum monitoring of colliding wind binary WR 112	3.6	5, 24	1.85
AM825	Morrison, G. Dickinson, M. Owen, F. Bauer, F. Koekemoer, A. Mobasher, B. Chary, R-R. Flayer, D.T.	IPAC NOAO NRAO-Socorro Cambridge Mt. Stromlo STScI Caltech-IPAC Caltech	Deep imaging of the GOODS northern field	20	3	4.37
AM827	Majia, M.A.G. Schmitt, H.R.	Obs. do Valongo NRL	Imaging an optically-selected Seyfert sample	3.6	12	1.85
AQ185	Orru, E. Feretti, L. Giovannini, G. Govoni, F. Lane, W. Kassim, N.E. Murgia, M. Perley, R.	Cagliari Bologna Bologna Bologna NRL NRL Bologna NRAO-Socorro	Spectral indices of giant radio galaxies	90, 400	2	11.11
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	...	168.5
AP478	Pedlar, A. Muxlow, T. Beswick, R. Argo, M. Wills, K.A.	Jodrell Bank Jodrell Bank Jodrell Bank Manchester Sheffield	Monitoring radio SNe and SNRs in nearby starbursts	2, 3.6, 6	16	3.70
AP485	Pidopryhora, Y. Liszt, H. Lockman, F.J. Rupen, M.	Ohio University NRAO-CV NRAO-GB NRAO-Socorro	HI and OH absorption in Galactic halo clouds	20 line	20, 31	11.5
AR545	Rupen, M. Mioduszewski, A.J. Dhawan, V.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	Monitoring of X-ray binaries etc.	0.7, 1.3, 2, 3.6, 6, 20	...	12.7
AR554	Romani, R. Greenhill, L.J. Michelson, P.	Stanford Univ. Cfa Stanford Univ.	Search for a kpc-scale jet in the high-z blazar Q0906+6930	6, 20	4	1.85

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Progm.	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AR562	Ribo, M. Mirabel, I.F. Casares, J. Combi, J.	CEA-Saclay Saclay IAC Universidad de Jaen	Monitoring the spectrum of a new microquasar candidate	2, 3.6, 6, 20	26	1.39
AS796	Soderberg, A. Kulkarni, S. Frail, D. Chevalier, R.	Caltech Caltech NRAO-Socorro Virginia	Triggering on further type Ibc SNe	1.3, 3.6, 6, 20 TRIGGER	19	1.39
AS811	Stoeke, J. Reynolds, C.S. Lane, W. Kassim, N.E.	Colorado Maryland NRL NRL	3C 401 - a source with X-ray cavities	90	27	3.70
AS826	Spangler, S.R. Ingleby, L.	Univ. of Iowa Univ. of Iowa	Faraday rotation through the Solar corona	20	12, 19, 28	21.28
AS830	Su, Y-N. Liu, S.-Y. Lim, J. Chen, H-R. Chang, C-M.	Academia Sinica Academia Sinica Academia Sinica Academia Sinica ASIAA	Continuum from sub-mm components in UC HII region Onsala 1	1.3, 3.6	25	2.31
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	6	3.53
AU105	Ulvestad, J. Barvainis, R. Antonucci, R.	NRAO-Socorro NSF Calif.-Santa Barbara	Continuum spectrum of water maser AGN at z=0.66	1.3, 2, 3.6, 6, 20 EXPLORE	20	1.39
AW605	Walter, F. Brinks, E. de Blok, E. Thornley, M. Kennicutt, R.	MPIA Hertfordshire Univ. Cardif Bucknell U. Arizona	HI structures of nearby galaxies	20 line	4, 17, 23, 31	25.05
AW641	Weiler, K. Stockdale, C. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Pooley, D. Immmer, S. Ryder, S.	NRL Marquette Univ. NRAO-Socorro Caltech-IPAC STScI Valencia MIT MIT NASA-GSFC AAO	Triggered observations of type II SNe	1.3, 2, 3.6, 6, 20, 90 TRIGGER	24, 26	2.71
AW651	Webb, T. Iverson, R.J. Yee, H. Hoekstra, H. Gladders, M.	Leiden ROE Toronto Univ. of Toronto Carnegie Obs.	Deep imaging toward an RCS cluster with a submm overdensity	20	9, 30	9.26
AW653	Wong, M. dePater, I. Sault, R.J.	Univ. of California Calif.-Berkeley ATNF	Coordinated ammonia imaging of Jupiter	2, 3.6	26, 27	18.5
AW655	Willson, R.F.	Tufts	Decimeter and meter-wavelength bursts from the Sun	90, 400	1	4.47
AX009	Xu, Y. Reid, M. Menten, K. Zheng, X. Moscadelli, L.	Shanghai Obs. CfA MPIfR Nanjing Cagliari	Astrometric calibrators for massive star forming regions	2	1, 10, 26	7.30
BD101	Dougherty, S. Beasley, A.J. Pittard, J. Claussen, M. Bolingbroke, N. Zauderer, A.	DRAO OVRO Leeds NRAO-Socorro NRC Maryland	Observing wind-collision and orbital motion in WR140	0.7, 1.3, 2, 3.6	8	1.84
BK113	Kemball, A.J. Diamond, P.J.	Univ. Illinois Jodrell Bank	Monitoring SiO masers at 7mm and 3mm in two evolved stars	0.7 Single antenna VLBI	9, 7, 28	13.36
GD017	Diamond, P.J. Lonsdale, C.J. Lonsdale, C.J. Smith, H.E.	Jodrell Bank Haystack Caltech-IPAC Caltech-IPAC	Monitoring evolution of compact emission of Arp 220	6, 20 Phased array VLBI	6	13.51
GD018	Darling, J. Diamond, P.J.	Carnegie Obs. Jodrell Bank	Structure of variable OH megamaser IRAS 02524+2046	20 Phased array VLBI	4	6.94

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
S60872	Wolk, S.J. Osten, R. Bourke, T. Megeath, T.	SUNY-StonyBrook NRAO-CV CfA CfA	Chandra/VLA observations of cluster around LkHa101	3.6, 6	6, 8	19.53
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Software Students		14	35.0 71.5 11.0 56.5 1.7



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	Scheduled Hours	Percentage
Astronomy	584	76.74%
Maintenance	72	10.47%
Test/Calc	88	12.79%
Total	744	100.0%

Average downtime measured in antenna hours was 9.6% of scheduled antenna hours, distributed as:

System	Percentage
Cryogenics	1.70
EVLA	76.43
Focus/Rotation	0.19
Front End	1.95
HVAC	0.20
RFI	6.55
LO/IF	2.94
Mechanical	0.12
Monitor/Control	0.07
Program Fault	0.26
Other	0.01
Servo	3.49
Servo/DCS	0.16
Site Power	0.86
VLA Correlator	5.00
VLBA Recorders	0.05

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB1145	Brunthaler, A. Falcke, H. Greenhill, L. Henkel, C. Reid, M.	JIVE ASTRON Cfa MPIR, Bonn Cfa	Search for H2O maser in M31	1.3	27	1.39
AB1156	Blomme, R. Rauw, G. DeBecker, M. Runacres, M.C. VanLoo, S.	Royal Obs.Belgium Leige Universite Liege Royal Obs.Belgium Royal Obs.Belgium	Monitoring the colliding-wind binary Cyg OB2 8A	6	...	9.18
AB1157	Butler, B. Gurwell, M.	NRAO-Socorro Cfa	7mm observations of Pluto/Charon	0.7	24	4.97
AB1164	Bower, G.C. Cheung, C.C. Falcke, H. Markoff, S. Canizares, C. Jimenez-Garate, M.A.	Calif.-Berkeley MIT ASTRON MIT MIT MIT	Coordinated monitoring of the LLAGN in M81	0.7, 1.3, 3.6, 20	23	6.94
AB1171	Becker, R.	Calif.-Davis	Missing Field in Galactic Plane Survey	20 EXPLORE	1	0.48
AC740	Chandler, C. Low, F. Wilner, D. Claussen, M.	NRAO-Socorro Arizona Cfa NRAO-Socorro	Debris disk around HD 98800	0.7, 3.6	5, 6, 7	14.78
AC742	Clarke, T.E. Sarazin, C. Blanton, E.	Virginia Virginia Univ. of Virginia	Structure of the cores of Abell 2597 and Abell 4059	6	4	3.70
AC744	Carilli, C. Menten, K. Rocha, G. Reid, M. Stocke, J. Langston, G.	NRAO-Socorro MPIFR Cambridge Cfa Colorado NRAO-GB	Search for molecular absorption toward red lensed quasar J0134-0931	2 line	12	9.74
AC770	Choi, M. Hamaguchi, K. Tatematsu, K.	KAO-TRAO NASA-GSFC NAOJ	Structure of X-ray emitting protostars in R CrA region	3.6, 6	3, 12	5.24
AC774	Carrillo, M. Kurtz, S. Finley, J. Briskin, W.	UNAM UNAM Purdue NRAO-Socorro	Proper motion of PSR 1800-21	3.6	5	0.88
AC781	Cannon, J.M. Skillman, E. Walter, F.	MPIA Minnesota MPIA	HI imaging of starbursts with Lyalpha in emission and absorption	20 line	1	3.52
AC789	Cheung, T. Gambill, J. Maraschi, L. Sambruna, R. Tavecchio, F. Urry, C.M. Wardle, J.	Brandeis George Mason Brera George Mason Brera Yale Brandeis	Detailed multi-wavelength study of spectacular X-ray jet in quasar PKS 1136-135	3.5	14	1.78
AD506	Darling, J. Carilli, C.	Carnegie Obs. NRAO-Socorro	Structure of ultra-steep spectrum sources in the WISH survey	20	5, 12	15.8
AD508	Duc, P.A. Koribalski, B. Bournaud, F. Brinks, E. Braine, J. Walter, F. Boquien, M.	Saclay ATNF Paris Guanajuato Bordeaux MPIA CEA-Saclay	Kinematics of the intergalactic HI ring around NGC 5291	20 line	1, 5	10.72
AF414	Frail, D. Kulkarni, S. Soderberg, A.	NRAO-Socorro Caltech Caltech	Continued monitoring of bright GRB 030329	3.5,6,20	18	2.23
AG679	Goddi, C. Moscadelli, L.	Cagliari Cagliari	Continuum toward the high-mass YSO in AFGL 5142	0.7, 1.3, 2, 3.6	28	1.85
AG683	deGregorio-Monsalvo, Gomez, J.F.	ESA-LAEFF ESA-LAEFF	Structure and positions of water masers in Bok globule CB65	1.3 line	12	0.85
AG684	deGregorio-Monsalvo, Gomez, J.F.	ESA-LAEFF ESA-LAEFF	Continuum and line imaging of a proto-stellar binary in CB54	1.3	1, 4	4.63
AG685	Goedhart, S. Voronkov, M.A. Minier, V. vanderWalt, D. Gaylard, M.	Hartebeesthoek Astro Space Center CEA-Saclay Potchefstroom Hartebeesthoek	Continuum monitoring of G9.62 during a methanol maser flare	0.7, 2	18	1.7

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Prog#	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH847	Humphreys, E.M.L. Reid, M. Greenhill, L.J. Moran, J. Argon, A.	CfA CfA CfA CfA CfA	Monitoring of water maser spectrum and jet continuum of NGC 4258	1.3, 3.6 line	10	2.24
AH868	Hatchell, J. Thompson, M.A. Wyrowski, F. Pillai, T. Gibb, A.G.	Exeter Hertfordshire MPIfR MPIfR Maryland	Continuum toward candidate protoclusters and precluster cores	2, 6	28	9.23
AH869	Hoare, M.G. Urquhart, J. Lumsden, S. Oudmaijer, R. Busfield, A.	Leeds Univ. Leeds Leeds Leeds Leeds	Continuum toward red MSX sources	6	13	2.78
AK583	Kulkarni, S. Soderberg, A.M. Cenko, S. Frail, D. Harrison, F.A. Fox, D. Gal-Yam, A. Moon, D-S.	Caltech Caltech Caltech NRAO-Socorro Caltech Caltech Tel Aviv University Caltech	Gamma-ray bursts, x-ray flashes, and core collapse SNe	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	2, 8, 18	4.0
AK585	Károvská, M. Matthews, L.	CfA CfA	Long-term monitoring of maser line and radio continuum fluxes of Mira	0.7, 1.3	2.31	2.31
AK601	Kouveliotou, C. Gelfand, J. Gaensler, B. Wijers, R. Taylor, G. Eichler, D. Fender, R. Garrett, M.	NASA-MSFC CfA CfA SUNY NRAO-Socorro Ben Gurion Univ. Amsterdam JIVE	SGR 1806-20	ToO, 6, 3.6, 1.3	...	10.62
AK602	Krause, O. Rieke, G. Bieging, J.	MPIA Arizona Arizona	Bipolar moving structures near Cas A	3.6 EXPLORE	6	8.36
AL625	Lang, C. Figer, D. Najarro, F.	Univ. Iowa STScI CSIC	Structure and spectra of luminous blue variable stars	0.7, 1.3	7, 8	10.59
AL629	Lang, C. Kaaret, P. Rupen, M.	Univ. Iowa Columbia NRAO-Socorro	Triggered observations of the ULX source in M82	3.6, 6 TRIGGER	1, 3, 5, 5	8.64
AL646	Liszt, H. Pety, J. Lucas, R.	NRAO-CV IRAM IRAM	HI absorption toward extragalactic continuum sources	20 line	25	0.93
AL648	Lim, J. Hirano, N. Ohashi, N. Yeh, C-C. Takakuwa, S.	ASIAA ASIAA ASIAA ASIAA CfA-Hawaii	Structure of binary/multiple protostellar systems	0.7, 1.3	4, 7, 8, 11	18.36
AM793	Monnier, J.D. Greenhill, L.J. Tuthill, P.G. Danchi, W.	Michigan CfA Sydney U. NASA-GSFC	Continuum monitoring of colliding wind binary WR 112	3.6	3, 11	1.8
AM825	Morrison, G. Dickinson, M. Owen, F. Bauer, F. Koekemoer, A. Mobasher, B. Chary, R-R. Frayser, D.T.	IPAC NOAO NRAO-Socorro Cambridge Mt. Stromlo STScI Caltech Caltech	Deep imaging of the GOODS northern field	20	20, 25	12.7
AM827	Maia, M.A.G. Schmitt, H.R.	Obs. do Valongo NRL	Imaging an optically-selected Seyfert sample	3.6	1, 9, 10, 13	10.81
AN124	Neff, S. Owen, F. Eilek, J. Morganti, R.	NASA-GSFC NRAO-Socorro NMIMT ASTRON	Intermediate-scale structure of Centaurus A	90	3, 12	7.22

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Progrm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
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	...	98.63
AP482	Pihlstrom, Y. Sjouerman, L.	Caltech NRAO-Socorro	Galactic center 1720 MHz OH masers revisited	18	1.28	1.28
AR545	Rupen, M. Mioduszewski, A.J. Dhawan, V.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	Monitoring of X-ray binaries etc.	0.7, 1.3, 2, 3.6, 6, 20	...	8.17
AR561	Roberts, D.A. Yusef-Zadeh, F.	Northwestern Northwestern	Emission from stellar sub-clusters near Sgr A*	0.7	10, 11	8.02
AS796	Soderberg, A. Kulkarni, S. Frail, D. Chevalier, R.	Caltech Caltech NRAO-Socorro Virginia	Triggering on further type Ibc SNe	1.3, 3.6, 6, 20 TRIGGER	7, 12, 26	4.05
AS800	Sjouerman, L. Messineo, M. Habing, H. Honma, M. Imai, H.	NRAO-Socorro Leiden Leiden NAOJ-Mizusawa Kagoshima U.	Monitoring circumstellar SiO masers near Sgr A*	0.7 line	18	1.71
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	5, 25, 27	8.56
AV279	Valdettaro, R. Palla, F. Migenes, V. Brand, J.	Arcetri Arcetri Guanajuato IRA-Bologna	Search for water masers in bright rimmed clouds	1.3 line	20, 24, 25, 28	8.23
AW641	Weiler, K. Stockdale, C. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Pooley, D. Immler, S. Ryder, S.	NRL Marquette Univ. NRAO-Socorro Caltech-IPAC STScI Valencia MIT MIT NASA-GSFC AAO	Triggered observations of type II SNe	1.3, 2, 3.6, 6, 20, 90 TRIGGER	7, 7	3.61
AW655	Willson, R.F.	Tufts	Decimeter and meter-wavelength bursts from the Sun	90, 400	25, 27	9.26
AZ155	Zijlstra, A. Hajduk, M. Kerber, F. vanHoof, P. Pollacco, D. Evans, A. Eyres, S.P. Kimeswenger, S.	Manchester UMIST ESO Queens-Belfast Queens-Belfast Keele Central Lancashire Univ. of Innsbruck	Structure of Sakurai's object and similar candidates	3.6, 6	4, 6	11.27
BD103	Desmurs, J-F. Soria-Ruiz, R. Bujarrabal, V. Alcolea, J. Colomer, F.	OAN OAN OAN OAN OAN	SiO maser emission in IRC+10011	0.7 Phased array VLBI	13	5.34
BK113	Kemball, A.J. Diamond, P.J.	Univ. Illinois Jodrell Bank	Monitoring SiO masers at 7mm and 3mm in two evolved stars	0.7 Single antenna VLBI	11	6.0
BU030	Ulvestad, J.S. Johnson, K. Neff, S.	NRAO-Socorro Virginia NASA-GSFC	Search for young supernovae in super star clusters	6 Phased array VLBI	26, 26	10.65
GB053	Bartel, N. Bietenholz, M.F.	York U. York U.	Structure of SN 1979C	6, 20 Phased array VLBI	24	12.94

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Progrm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
GM059	Marcaide, J.M. Marti-Vidal, I. Guirado, J.C. Alberdi, A. Perez-Torres, M.A. Lara, L. Ros, E. Stockdale, C. Weiler, K. Sramek, R. Panagia, N. VanDyk, S.D.	Valencia Valencia Valencia IAA IAA Granada MPIfR Marquette Univ. NRL NRAO-Socorro STScI Caltech-IPAC	Structure of SN 2004et at 1.3 and 3.6cm	3.6 Phased array VLBI	20	11.2
S60115	Rupen, M.	NRAO-Socorro	Chandra/VLA Observations		23	0.46
S60314	Garcia, M. Primini, F.A. Williams, B. Yuan, F. Murray, S.S. Kaaret, P. Kong, A. Sjouerman, L.	CfA CfA CfA CfA CfA Columbia CfA NRAO-Socorro	Chandra/VLA observations of M31*		21	11.1
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Software			34.0 133.0 11.0 27.5

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	Scheduled Hours	Percentage
Astronomy	474	68.52%
Maintenance	126	20.03%
Test/Calc	72	11.45%
Total	672	100.00%

Average downtime measured in antenna hours was 8.9% of scheduled antenna hours, distributed as:

System	Percentage
Cryogenics	2.51%
EVLA	80.61%
Focus/Rotation	0.19%
Front End	5.17%
RFI	1.36%
LO/IF	5.02%
Mechanical	0.02%
Monitor/Control	0.38%
Servo	3.81%
Other	0.94%

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA297	Araya, E. Hofner, P. Goss, M. Kurtz, S. Olm, L. Linz, H.	NMIMT NMIMT NRAO-Socorro UNAM CNR MPIA	H2CO 6cm masers discovered in Arecibo and GBT surveys	6 line	10	7.04
AB1043	Blundell, K. Cruz, M.J. Peck, A.	Oxford Oxford CfA	Gas in the host galaxies of recently triggered powerful radio galaxies	90	11	0.92
AB1151	Bartel, N. Bietenholz, M.F. Rupen, M.	York U. York U. NRAO-Socorro	Monitoring the SED of SN 1986J	0.7, 1.3, 2, 3.6, 6, 20, 90	7	5.49
AB1160	Blake, C. Pimblet, K. Drinkwater, M.	Oxford Queensland Queensland	Continuum imaging toward local supercluster filaments	20	21, 21	4.48
AB1162	Boone, F. Brouillet, N. Braine, J. Kording, E. Henkel, C. Jimenez-Garate, M.A. Rupen, M.	MPIfR Bordeaux Bordeaux MPIfR MPIfR MIT NRAO-Socorro	Monitoring the ultra luminous X-ray source M81 X-9	3.6	30	1.83
AB1169	Berger, E.	Caltech	Brown dwarf 2MASS J0036+1821	6 EXPLORE	10, 11, 21	14.9
AC740	Chandler, C. Low, F. Wilner, D. Claussen, M.	NRAO-Socorro Arizona CfA NRAO-Socorro	Debris disk around HD 98800	0.7, 3.6 PT link	6	4.83
AC761	Chatterjee, S. Brisken, W. Goss, M. Benson, J. Arzoumanian, Z. Lazio, T.J.W. Cordes, J. Vlemmings, W.H.T. Thorsett, S. Lyne, A. Kramer, M.	Cornell NRAO-Socorro NRAO-Socorro NRAO-Socorro NASA-GSFC NRL Cornell Cornell Calif.-Santa Cruz Jodrell Bank Jodrell Bank	Calibrator search for pulsar astrometry with the VLBA or HSA	3.6, 20	16, 16, 17, 17	22.79
AC767	Condon, J.J. Yin, Q.F.	NRAO-CV NRAO-CV	Calibrators for GBT offset pointing and array phase referencing	3.6	17, 18	10.0
AC772	Cimo, G. Ellingsen, S. Garter, S. Jauncey, D. Lovell, J.E.J.	MPIfR Tasmania Tasmania ATNF ATNF	Daily monitoring of the IDV source PKS 1144-359	2, 3.6, 6, 20	...	13.84
AC781	Cannon, J.M. Skillman, E. Walter, F.	Minnesota Minnesota MPIA	HI imaging of starbursts with Lyalpha in emission and absorption	20 line	22, 29, 30	11.96
AD508	Duc, P.A. Koribalski, B. Bournaud, F. Brinks, E. Braine, J. Walter, F. Bosquien, M.	Saclay ATNF Paris Obs. Guanajuato Bordeaux MPIA CEA, Saclay	Kinematics of the intergalactic HI ring around NGC 5291	20 line	30, 31	10.93
AF414	Frail, D. Soderberg, A.M. Kulkarni, S.	NRAO-Socorro Caltech Caltech	Continued monitoring of the bright GRB 030329	3.6, 6, 20 TRIGGER	17, 29	3.24
AG671	Gaensler, B.M. Chatterjee, S. Camilo, F. vanderSwaluw, E. Stappers, B.W.	CfA Cornell Columbia FOM Amsterdam	Proper motion of young pulsars and their bow shocks	3.6	22	7.39
AG675	Gurwell, M. Butler, B.	CfA NRAO-Socorro	Brightness temperature of Titan before and during Huygens descent	0.7, 1.3	1, 2, 9	29.55
AG676	Golden, A. Doyle, J.G. Antonova, T.	Ireland-Galway Armagh Armagh	Monitoring the spectral indices of two brown dwarfs	3.6, 6	13, 14, 14, 30	22.74
AG684	deGregorio-Monsalvo, Gomez, J.F.	LAEFF ESA-LAEFF	Continuum and line imaging of a proto-stellar binary in CB54	1.3	22, 31	7.31

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Progrm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AG687	Greenhill, L. Beuther, H. Humphreys, E. Patel, N. Melnick, G. Moran, J.	CfA CfA Onsala CfA CfA CfA	Orion-KL at 22 GHz	1.3 line EXPLORE	6	.78
AH847	Humphreys, E.M.L. Reid, M. Greenhill, L.J. Moran, J. Argon, A.	Onsala CfA CfA CfA CfA	Monitoring of water maser spectrum and jet continuum of NGC 4258	1.3, 3.6 line	20	2.31
AI116	Jvison, R.J. Webb, T. Yee, H. Hoekstra, H. Gladders, M.	ROE Leiden Toronto Univ. of Toronto Carnegie Obs.	Deep imaging of two strong-lensing clusters	20	8	1.81
AJ313	Johnson, K. Plante, S.	Wisconsin Laval	Structure and spectra of low-metallicity starburst SBS0335-052	1.3, 2, 3.6, 6	8	6.02
AK583	Kulkarni, S. Soderberg, A.M. Cenko, S. Frail, D. Harrison, F.A. Fox, D. Gal-Yam, A. Moon, D-S.	Caltech Caltech Caltech NRAO-Socorro Caltech Caltech Tel Aviv University Caltech	Gamma-ray bursts, X-ray flashes, and core collapse SNe	0.7, 1.3, 2, 3.6, 6, 20 TRIGGER	23, 23, 28, 30, 30	4.65
AK585	Karovska, M. Matthews, L.D.	CfA NRAO-CV	Monitoring of maser line and continuum flux densities of Mira	0.7, 1.3, 3.6, 20	22, 31	4.81
AK598	Finger, M. Gaensler, B. Garrett, M. McLaughlin, M. Wijers, R.	USRA CfA JIVE Manchester Amsterdam	Search for radio emission associated with a giant flare from SGR 1806-20	20,6,3.5	7	0.27
AK599	Kulkarni, S. Cameron, P. Frail, D.	Caltech Caltech NRAO-Socorro	Resolving the connection between SGR 1806-20, LBV 1806-20 and a dense star cluster	20	4	0.87
AK601	Kouvelitou, C. Eichler, D. Fender, R. Gaensler, B. Garrett, M. Gelfand, J. Taylor, G. Wijers, R.	NASA Ben Gurion Southampton CfA JIVE CfA NRAO-Socorro Amsterdam	Comprehensive study of morphology and evolution of radio afterglow from SGR 1806-20	3.6	13	1.0
AL629	Lang, C. Kaaret, P. Rupen, M.	Iowa CfA NRAO-Socorro	Radio counterpart of Ultra-luminous X-ray source in M82	3.5, 6	29	0.93
AL636	Lin, J. Carilli, C. White, S.	Academia Sinica NRAO-Socorro Maryland	Imaging the atmospheres of red supergiant stars	0.7, 1.3, 2, 3.6, 6 PT link	3, 6, 7, 8, 9	32.63
AL640	Loiuard, L. Rodriguez, L.F. Rodriguez, M.I.	UNAM UNAM UNAM	Further astrometry of the T Tau system	2	4	5.56
AM777	Murgia, M. Parma, P. deRuiter, H. Mack, K-H. Fanti, R.	Bologna Bologna Bologna ASTRON Bologna	Spectral index imaging of fossil radio galaxies	90	4, 4	6.48
AM793	Morinier, J.D. Greenhill, L.J. Tuthill, P.G. Danchi, W.	Michigan CfA Sydney U. NASA-GSFC	Continuum monitoring of colliding wind binary WR 112	3.6	4, 30	2.71
AM827	Maia, M.A.G. Schmitt, H.R.	Obs. do Valongo NRAO-Socorro	Imaging an optically-selected Seyfert sample	3.6	...	33.34
AN124	Neff, S. Owen, F. Eilek, J. Morganti, R.	NASA-GSFC NRAO-Socorro NMIMT ASTRON	Intermediate-scale structure of Centaurus A	90	23, 24	7.40
AO190	Osten, R. Jayawardhana, R.	NRAO-CV Univ. of Toronto	Emission from young brown dwarfs in TW Hya	3.6	11, 12, 13, 14, 16, 18	9.67



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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
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	24, 24, 26, 27, 31	39.93
AP482	Pihlstrom, Y. Siouwerman, L.	Caltech NRAO-Socorro	Structure and kinematics of 1720 MHz OH masers in the GC	20 line	20	2.64
AR545	Rupen, M. Mioduszewski, A.J. Dhawan, V.	NASA-GSFC NRAO-Socorro NRAO-Socorro	Monitoring of X-ray binaries etc.	0.7, 1.3, 2, 3.6, 6, 20	...	16.84
AS796	Soderberg, A. Kulkarni, S. Frail, D. Chevalier, R.	Caltech Caltech NRAO-Socorro Virginia	Triggering on further type Ibc SNe	1.3, 3.6, 6, 20 TRIGGER	7, 14, 20, 23, 27, 30	5.36
AS801	Schinnerer, E. Carilli, C. Scoville, N.Z. Bertoldi, F. Blain, A.W. Bondi, M. Ciliegi, P. Impey, C. Koekemoer, A. LeFevre, O. Urry, C.M. Vettolani, P.	MPIA NRAO-Socorro Caltech MPIFR Caltech Bologna Bologna Arizona Mt. Stromlo Marseille Yale Univ. CNR-Bologna	COSMOS deep 1.4 GHz imaging survey	20	5, 5, 6, 7, 8	26.28
AS806	Schmitt, H.R. Anderson, J.M. Cid-Fernandes, R. Heckman, T. Gonzales-Delgado, R. Storchi-Bergmann, T.	NRAO-Socorro NMIMT UFSC Johns Hopkins IAA UFRGS	Continuum images of Palomar LLAGNs at 6cm and 3.5cm	3.6, 6	2, 3, 4, 10	3.79
AS811	Stoeke, J. Kassim, N. Lane, W. Reynolds, C.	CASA NRL NRL Maryland	Low frequency imaging of 3C401: X-ray cavities at high-z	400, 90	1	0.96
AS824	Sollins, P.K. Ho, P.T.P. Zhang, Q.	Cfa Cfa Cfa	Structure of the ionized gas inside a UCHII Region	0.7, 1.3, 3.6 PT link	2	6.50
AS828	Simpson, C. Schillemat, K. Claussen, M. Shirley, Y.L.	Wellesley Clarkson NRAO-Socorro NRAO-Socorro	Survey for water masers from pre-protostellar cores	1.3 line	11, 12, 15, 23	10.29
AS837	Skinner, S. Audard, M. Briggs, K. Gudel, M.	Colorado Columbia Paul Scherrer Paul Scherrer	Search for radio continuum emission from optically erupting T Tauri Star V1118 Ori	3.5, 6	24	0.93
AT299	Terashima, Y. Ho, L. Ulvestad, J.S.	ISAS Carnegie Obs. NRAO-Socorro	Search for emission from ultra-low-luminosity AGNs	3.6	9	3.59
AT305	Tafoya, D. Gomez, Y. Patel, N. Torrelles, J.M. Anglada, G. Gomez, J.F. deGregorio-Monsalvo, Miranda, L.F.	UNAM UNAM Cfa IEEC-Barcelona IAA ESA-LAEFF LAEFF IAA	OH polarization and 7mm continuum from PN IRAS17347-3139	0.7, 20 line	27, 28, 29	9.01
AW641	Weiler, K. Stockdale, C. Sramek, R. VanDyk, S.D. Panagia, N. Marcaide, J.M. Lewin, W.H.G. Pooley, D. Immler, S. Ryder, S.	NRL Marquette Univ. NRAO-Socorro Caltech-IPAC STScI Valencia MIT MIT NASA-GSFC AAO	Triggered observations of type II SNe	1.3, 2, 3.6, 6, 20, 90 TRIGGER	7, 15, 18	2.81
AZ152	Zabata, L.A. Ho, P.T.P. Rodriguez, L.F.	Cfa Cfa UNAM	Search for an embedded radio cluster in NGC 63341 (N)	1.3	23	3.70

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AZ154	Zapata, L.A. Rodriguez, L.F. Kurtz, S. O'Dell, C.R. Ho, P.T.P.	CFA UNAM UNAM Vanderbilt CFA	Structure and spectra of sources in OMC1 South	0.7, 1.3	6	1.71
BD101	Dougherty, S. Beasley, A.J. Pittard, J. Claussen, M. Bolingbroke, N. Zauderer, A.	DRAO NRAO-Chile Leeds NRAO-Socorro NRC Maryland	Observing wind-collision and orbital motion in WR140	... Single antenna VLBI	16, 17	13.83
BK113	Kemball, A.J. Diamond, P.J.	Univ. Illinois Jodrell Bank	Monitoring SiO masers at 7mm and 3mm in two evolved stars	0.7 Single antenna VLBI	19, 18	7.85
BR102	Ratner, M. Bartel, N. Bietenholz, M.F. Lebach, D.E. Lederman, J. Lestrade, J.-F. Ransom, R.R. Shapiro, I.I.	CFA York U. York U. CFA York University Meudon York U. CFA	Astrometric monitoring of HR 8703 in 2005 for GPB mission	2, 3.6, 6 Phased array VLBI	15	10.84
S05252	Kaaret, P. Corbel, S. Rupen, M.	Columbia CEA-Saclay NASA-GSFC	Chandra/VLA monitoring of ULX source in NGC 5408	6	29	3.7
S06314	Garcia, M. Kaaret, P. Kong, A. Murray, S.S. Primini, F.A. Sjouwerman, L. Williams, B. Yuan, F.	CFA Columbia CFA CFA CFA NRAO-Socorro CFA CFA	Chandra/VLA observations of M31*	6	28	10.96
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Polarization Calibrator Monitoring New Year Shutdown Software General tests			37.5 62.0 35.5 12.0 16.1 49.5 25.5

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	<b>Scheduled Hours</b>	<b>Percentage</b>
Astronomy	533	69.51%
Maintenance	51	7.37%
Test/Calc	144	20.81%
Holiday Shutdown	16	2.31%
<b>Total</b>	<b>744</b>	<b>100.00%</b>

Average downtime measured in antenna hours was 8.6% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Antenna Pads	2.47%
Clocks/Timing	0.23%
Cryogenics	1.73%
Electrical	0.03%
EVLA	73.82%
Focus/Rotation	1.51%
Front End	3.44%
RFI	5.55%
LO/IF	7.20%
Mechanical	0.27%
Servo	2.08%
Site Power	0.65%
VLA Correlator	1.00%
Weather	0.01%