

VLA Utilization Report December 2000

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA254	Anglada, G. Rodriguez, L.F. Torrelles, J.M.	IAA UNAM Catalunya	The L723 quadrupolar molecular outflow	3.6	16	10.0
AB901	Blomme, R. Prinja, R.K. Runacres, M.C.	Royal Obs Belgium University College Royal Obs Belgium	Radio monitoring of hot-star winds	3.6, 6	20	1.0
AB974	Black, G. Campbell, D. Nicolson, P.	NRAO-GB Cornell Cornell	Saturn occultation candidate sources	3.6, 20	28	1.5
AB976	van Breugel, W. Lacy, M. de Vries, W. Stanford, A. Becker, B. Moran, E. Dawson, S. Golap, K. Dey, A. Januzzi, B. Eisenhardt, P. Stern, D. Rottgering, H. Morganti, R. Spinrad, H.	LLNL Calif.-Davis LLNL LLNL Calif.-Davis Calif.-Berkeley Calif.-Berkeley NRAO-Socorro NOAO NOAO JPL JPL Leiden NFRA Calif.-Berkeley	NOAO deep wide field survey at 90cm	90	11	4.0
AB978	Best, P. Cimatti, A. Rottgering, H.	Ifa Arcetri Leiden	Radio source size and polarization evolution	3.6, 6	9, 11	8.0
AC524	Cartwright, J.K. Taylor, G.B. Readhead, A.C.S. Pearson, T.J.	Caltech NRAO-Socorro Caltech Caltech	Polarization monitoring observations of 3C273	0.7, 1.3	9, 18, 28	6.5
AC560	Claussen, M.J. Goss, M. Brogan, C. Desai, K.M.	NRAO-Socorro NRAO-Socorro NRAO-Socorro Renaissance Tech	Scattering in the direction of 1720 MHz OH masers in W28	6, 20 PT Link	17	4.0
AC562	Curiel, S. Trinidad, M.A. Torrelles, J.M. Canto, J. Rodriguez, L.F. Gomez, J.F. Ho, P.T.P.	UNAM UNAM Catalunya UNAM UNAM IAA CfA	Radio jet/water maser systems around YSOs	1.3	13, 23, 29	15.1
AC564	Cotton, W. Spencer, R. Saikia, D.J. Garrington, S.	NRAO-CV Jodrell Bank NCRA-Pune Jodrell Bank	Faraday rotation and jet deflection in 3C43 and 3C454	2 w/move/op	1	4.0
AC571	Carilli, C. Bertoldi, F. Menten, K. Omant, A. Cox, P. McMahon, R. Isaac, K.	NRAO-Socorro MPIfR MPIfR I. d'Astrophysique Marseille Cambridge Cambridge	High redshift QSOs from the Palomar Digital Sky Survey	20	3	13.0
AC572	Clarke, T.	NRAO-Socorro	High resolution faraday study of compact cluster core sources	20	12, 14, 19	18.1
AC573	Curiel, S. Rodriguez, L.F. Girart, J.M. Trinidad, M.A.	UNAM UNAM Illinois UNAM	The YLW 15 binary system	0.7	27	6.5
AD439	DePree, C.G. Wilner, D. Goss, M. Kurtz, S.	Agnes Scott CfA NRAO-Socorro UNAM	Ionized gas velocities in hypercompact HII regions in W49A	0.7 w/BB129	2	8.0
AD442	Dufton, Q.W. Kronberg, P.P. Allen, M.L.	Toronto Toronto Toronto	Second epoch observation of starburst galaxy NGC 3448	6 w/BH66	1	6.0
AE138	Eales, S. Carilli, C. Dunne, L. Yun, M. Lilly, S. Gear, W.	Cardiff NRAO-Socorro Cardiff NRAO-Socorro Toronto Cardiff	Star formation in two CFRS survey fields	20 w/BD69	16, 17, 18, 19	25.0

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AF370	Falcke, H. Brunthaler, A. Bower, G. Aller, M. Aller, H. Terasranta, H.	MPIfR MPIfR Calif.-Berkeley Michigan Michigan Metsahovi	III Zw 2, a superluminal jet in a spiral galaxy	0.7, 1.3, 2, 3.6, 20, 90	2, 29	2.0
AF374	Felli, M. Cesaroni, R. Testi, L. Chini, R. Nielbock, M.	Arcetri Arcetri Arcetri Bochum Bochum	Measuring the expansion of the UC HII region M17-UC1	1.3, 3.6 w/BH76	8	5.0
AF376	Fey, A. Boboltz, D. Gaume, R. Johnston, K. Claussen, M.	USNO USNO USNO USNO NRAO-Socorro	Radio star observations for a FAME/ICRF frame tie	3.6 PT Link w/BA41	10	24.0
AF377	Fassnacht, C. Rusin, D. Xanthopoulos, E. Koopmans, L.	NRAO-Socorro Pennsylvania Jodrell Bank Jodrell Bank	Monitoring of JVAS and CLASS gravitational lenses	2, 3.6, 6 w/BB129, BV40, BW53	3,6,9,10,14- 16,18,21,22, 24,26,29	18.0
AH669	Rupen, M.P. Mioduszewski, A.J.	NRAO-Socorro Univ. of Sydney	Galactic black hole X-ray transients	1.3, 2, 3.6, 6, 20, 2 w/BB129, BW53	3,14,17,21,2	8.5
AH685	Haarsma, D.B. Hewitt, J. Langston, G. Moore, C.	Calvin College MIT NRAO-GB Groningen	Time delay monitoring of gravitational lens 2016+112	3.6, 6 w/move/op	1, 22	3.5
AH721	Hong, X.Y. Jiang, D.R. Wang, W.H. An, T.	Shanghai Shanghai Shanghai Shanghai	8 gamma ray AGNs	1.3, 3.6 w/move/op	1	3.0
AH723	Hyman, S. Kassim, N. Lazio, J.	Sweet Briar NRL NRL	New galactic center radio transient?	20,6 VLA	11	6.0
AK509	Kulkarni, S.K. Frail, D. Galama, T.J. Bloom, J.S. Berger, E. Harrison, F.A.	Caltech NRAO-Socorro Caltech Caltech Caltech Caltech	Radio afterglows from gamma ray bursts		...	26.9
AK518	Koopmans, L.V.E. de Bruyn, A.G. Fassnacht, C.D. Wambsganss, J. Blandford, R.D.	Jodrell Bank NFRA NRAO-Socorro Potsdam Caltech	Radio microlensing in B 1600+434	2, 3.6, 6, 20 w/BB129	3,8,14,17,22 ,29,31	8.0
AK520	Kurtz, S. Hofner, P. Franco, J.	UNAM Arecibo/UPR UNAM	Density structure in extremely compact HII regions	0.7, 2, 6	30	8.6
AL525	Lim, J. Carilli, C. White, S.M.	Academia Sinica NRAO-Socorro Maryland	Resolving red supergiant stars	0.7, 1.3 PT link w/BW53, BP72	17,18,22	15.2
AL528	Lazio, J. Lacey, C. Cordes, J. McLaughlin, M. Kassim, N.	NRL NRL Cornell Cornell NRL	Census of steep spectrum sources in the Andromeda galaxy	90	15	10.0
AL529	Lacey, C. Kassim, N. Dyer, K. Brogan, C. Dwarakanath, K. Anantharamaiah, K.R. Bhatnagar, S.	NRL NRL NCSU NRAO-Socorro Raman Raman NCRA-Pune	Low frequency observations of galactic SNRs	90	31	8.0
AL531	Lehar, J. Buchalter, A. McMahon, R. Kochanek, C.	CfA Caltech Cambridge CfA	Gravitationally lensed radio lobes	6, 20 PT Link	23	15.0
AM645	Menten, K.M. Wagner, S.J. Appenzeller, I. Carilli, C. Bertoldi, F. Fricke, K.J.	MPIfR Heidelberg Heidelberg NRAO-Socorro MPIfR Gottingen	Survey of the FORS VLT deep field	20 w/BG113	30, 31	12.0

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AM661	Monnier, J.D. Greenhill, L.J. Tuthill, P.G. Danchi, W.C.	CfA CfA Sydney NASA/GSFC	Spectral variability of the WR 112 binary system	0.7, 1.3, 2, 3.6, 6, 20	23	3.6
AM665	McHardy, I. Uttley, P.	Southampton Southampton	Radio variability of the Seyfert galaxy NGC 4051	3.6, 6 w/BK73	14, 30	2.0
AM670	Morganti, R. Oosterloo, T. Capetti, A. Parma, P. Wills, K. deRuiter, H. Fanti, R.	NFRA NFRA Torino Bologna Sheffield U. Bologna Bologna	HI absorption lines in FRI radio galaxies	20 line w/BB129	3	5.0
AM671	Muxlow, T. Pedlar, A. Wills, K.A. McDonald, A.	Jodrell Bank Jodrell Bank Sheffield U. Manchester	Starburst galaxy M82	2 PT Link w/BP75	1	12.0
AM674	Mohan, N.R. Kurtz, S. Anantharamaiah, K.R.	Raman UNAM Raman	Extended emission around ultracompact HII regions	6 w/BW53	18	1.5
AN097	Nagar, N. Falcke, H. Wilson, A.S.	Maryland MPIFR Maryland	Using the 20cm to 850 micron spectral energy density to determine the accretion mechanism in a well defined sample of nearby galaxies	3.5, 1.3, 0.7	21	8.0
A0156	Owen, F. Morrison, G. Small, I. Iverson, R. Oemler, G. Dressler, A. Ledlow, M.	NRAO-Socorro IPAC Durham University College Carnegie Obs. Carnegie Obs. UNM/Gemini	Extremely deep survey of the CL 0939+47 field	20 w/BK73, 8G113	11, 14, 16-19, 27	54.0
AP409	Perez-Torres, M.A. Alberdi, A. Marcaide, J.M. Uson, J.	IRA Italy IAA Valencia NRAO-CV	Synchrotron self-absorption in SN 1993J	2, 3.6, 6, 20, 90	17, 21	4.5
AP417	dePater, I. Dunn, D. Engel, C. Sault, R. Owen, T. Atreya, S.	Calif.-Berkeley Calif.-Berkeley ATNF ATNF Cassini Team Michigan	Observations of Jupiter during the Cassini-Jupiter Flyby	3.6, 6	27	12.1
AP418	Pihlstrom, Y. Conway, J.E.	Onsala Onsala	HI absorption in FRI radio galaxies	20 w/BG98	7	14.0
AP420	Pederty, J.A. Hollis, J.M.	NASA-GSFC NASA-GSFC	Monitoring of the R Aquarii Binary System's Orbit and Jet dynamics	0.7 PT Link w/BH76	8	6.5
AR435	Rudnick, L. Koralsky, B. Petre, R. Gotthelf, E. Holt, S.	Minnesota Minnesota NASA-GSFC Columbia NASA-GSFC	Gas A: probing the x-ray/radio connections	6	9	12.0
AR440	Rudnick, L. Young, A. Makishima, K. Tshiro, M. Iyomoto, N. Kassim, N. Worrall, D.	Minnesota Minnesota Tokyo Tokyo Toyko NRL Bristol	Radio lobe physics - radio spectra and inverse compton x-rays	6, 20, 90 w/BC107	26	3.9
AR441	Rudnick, L. Young, A. Kassim, N. Slee, O.B. Sarazin, C. Andernach, H. Roy, A.	Minnesota Minnesota NRL ATNF Virginia Guanajuato MPIFR	Cluster "relic" physics - spectral and x-ray studies	90	26	8.1
AR444	Rodriguez, L.F. Anglada, G. Torrelles, J.M.	UNAM IAA Catalunya	Testing the binary hypothesis for the FU Ori object V1057 Cyg	3.6 w/BW53	17	4.0
AS568	Sramek, R. Weiler, K. VanDyk, S. Panagia, N.	NRAO-Socorro NRL UCLA STScI	Properties of radio supernovae	1.3, 2, 3.6, 6, 20	3	2.0
AT249	Taylor, G. Peck, A. Giovannini, G.	NRAO-Socorro MPIFR Bologna	Location and kinematics of the HI gas in 3C293	6, 20 PT Link w/BV40	15	8.0

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AT254	Tschager, W. Schilizzi, R.T. Perley, R. Rottgering, H.J. Snellen, I. Miley, G.K.	Leiden JIVE NRAO-Socorro Leiden Cambridge Leiden	New sample of faint compact steep-spectrum radio sources	400	26, 29	16.0
AU084	Ulvestad, J.	NRAO-Socorro	NGC 7582 - Black hole or supernova powered?	3.6, 6	12	2.3
AZ129	Zhao, J.-H. Bower, G. Goss, M. McGary, R.S.	CfA Calif.-Berkeley NRAO-Socorro Harvard	VLA Monitoring Sgr A*	0.7, 1.3, 2 w/BB129	3, 9, 17, 29	4.0
AZ130	Zebker, H. Harcke, L. Butler, B. Slade, M. Jurgens, R.	Stanford Stanford NRAO-Socorro JPL JPL	Goldstone/VLA Radar observations of Ganymede and Callisto	3.6 w/BH66	1, 2, 4, 11	33.5
BA041	Aller, H. Aller, M. Homan, D.C. Hughes, P.A. Roberts, D.H. Wardle, J.F.C.	Michigan Michigan Brandeis Michigan Brandeis Brandeis	Oblique shocks in jets: evolution of parsec scale structures of sources with rapidly variable polarization	2,1.3,7 w/AF376	10	25.3
BB129	Brogan, C. Claussen, M.J. Goss, M.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	VLBA Zeeman observations of OH masers associated with SNRs	18 w/AD439, AH669, AZ129, AK518, AF377, AM670	2,3	11.0
BC107	Cassaro, P. Stanghellini, C. Dallacasa, D. Bondi, M. Zappala, R.A.	Catania Noto Bologna Bologna Catania	90cm observations of jets in blazars	90 Single antenna VLBI w/AR440, AR441	26	14.2
BD069	Diamond, P.J. Kemball, A.J.	Jodrell Bank NRAO-Socorro	TX Cam: the final curtain	0.7 Single antenna VLBI w/AE138, W40	19	6.2
BG098	Greenhill, L.G. Diamond, P.J. Moran, J.M.	CfA Jodrell Bank CfA	Maser motions in Orion BN/KL	0.7 Single antenna VLBI w/AP418	7	7.5
BG113	Gomez, J.L. Marscher, A.P. Marchenko-Jorstad, S Alberdi, A. Agudo, I. Martí, J.M. Aloy, M.A. Ibanez, J.M.	IAA Boston Boston IAA IAA U. Jaen Valencia Valencia	Monitoring superluminal components in 3C120	0.7, 1.3, 2 Single antenna VLBI w/BG113, AM645, BG113, AO156	30	14.6
BH066	Hardcastle, M.J. Birkinshaw, M. Worrall, D.M.	Bristol Bristol Bristol	90cm observations of 3C123: constraining the low energy electron population in hotspots	90 w/A130, AD442	1	6.7
BH076	Hollis, J.M. Boboltz, D.A. Forster, J.R. Pedelty, J.A.	GSFC USNO Calif-Berkeley GSFC	Searching for rotation in the SiO maser shells of five late-type stars	7 w/AF374, AP420	8	6.0
BK073	Kellermann, K. Biretta, J. Owen, F. Junor, B.	NRAO-CV STSci NRAO-Socorro New Mexico	Kinematics of parsec and subparsec structure of MB7 jet	2 Single antenna VLBI w/AO156, AM665	30	11.1
BP072	Palmer, P. Goss, M.	Chicago NRAO-Socorro	VLBA observations of 211 J=1/2 OH in galactic sources	6 w/AL525	22	7.0
BP075	Patnaik, A. Kemball, A.	MPIR, Bonn NRAO-Socorro	Search for gravitational lensing in damped Ly systems	2 w/AM671	1	8.6
BV040	Vlemmings, W.H.T. Baudry, A. Diamond, P. Habing, H.J. Schilizzi, R.T. van Langevelde, H.	Leiden Bordeaux Jodrell Bank Leiden JIVE JIVE	Monitoring the amplified stellar image in 4 AGB stars	18 w/AT249, AF377	15	12.0
BW053	Winn, J. Cohen, A. Hewitt, J.	MIT MIT MIT	Model constraints for a new flat spectrum gravitational lens	3.6 w/AL525, AH669, AR444, Test, AM674, AF377	17, 18	10.6
W023	Jones, D.L. Wehrle, A.E.	JPL JPL	NGC 4261	20 Phased array VLBI	22, 23	5.4

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W040	Junor, B. Biretta, J.	New Mexico STScI	Proper motion in the Vir A jet	6 Phased array VLBI w/BD69	20	4.5
	Staff	NRAO	Baselines, Pointing, Delays			45.4
			Holiday			35.8
			Maintenance			48.1
			Move/Operations			6.5
			Shutdown			1.2
			Software			32.6
			General tests			28.7

The average downtime was 4.6%.

The array was scheduled for 95.2% (710.3 hours)
551.0 hours (73.9% of time) for astronomical programs
78.5 hours (10.5% of time) for tests/calibration
80.7 hours (10.8% of time) for maintenance
Total 710.3 hours (95.2%) scheduled.

Array was in the A configuration from December 1 through December 31 .

Total number of programs was 67.

The following independent proposals shared simultaneous observing time (144.9 hours total simultaneous observing):

Projects	Hours
AC564/MOVE/OP	4.0
AD439/BB129	5.7
AD442/BH66	2.2
AE138/BD69	6.0
AF374/BH76	0.5
AF376/BA41	24.0
AF377/BB129	1.0
AF377/BV40	1.0
AF377/BW53	0.6
AG669/BW53	1.0
AH669/BB129	1.4
AH685/MOVE/OP	1.5
AH721/MOVE/OP	1.0
AK520/BK73	4.5
AL518/BB129	1.0
AL525/BP72	7.0
AL525/BW53	3.0
AL525/BW53	3.3
AL528/BV40	4.4
AM645/BG113	5.6
AM665/BK73	1.0
AM670/BB129	1.0
AM671/BP75	8.6
AM674/BW53	1.5
AO156/BA41	1.3
AO156/BC107	0.7
AO156/BG113	4.0
AO156/BK73	5.6
AP418/BG98	7.5
AP420/BH76	5.5
AR377/BC107	1.5
AR440/BC107	3.9

AR441/BC107	8.1
AR444/BW53	1.1
AT249/BV40	6.6
AZ129/BB129	1.0
AZ130/BH66	4.5
BG113/BG113	2.5
TEST/BW53	0.2
W40/BD69	0.2

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AB973	Benson, J.M. Ulvestad, J.	NRAO-Socorro NRAO-Socorro	Radio variability in compact Seyfert galaxies	3.6 w/BC100	13	20.0
AB976	van Breugel, W. Becker, B. Dawson, S. de Vries, W. Dey, A. Eisenhardt, P. Golap, K. Januzzi, B. Lacy, M. Moran, E. Morganti, R. Rottgering, H. Sprinrad, H. Stanford, A. Stern, D.	IGPP Calif.-Davis Calif.-Berkeley LLNL NOAO JPL NRAO-Socorro NOAO IGPP Calif.-Berkeley Leiden Leiden Calif.-Berkeley Calif.-Davis JPL	Deep P band observations of the NOAO Deep wide field survey	90	2	8.0
AB977	Braatz, J. Greenhill, L. Sand, D.	NRAO-GB Cfa Caltech	Maser disk in IC 1481	1.3 PT Link w/BP75	27	3.0
AB978	Best, P. Cimatti, A. Rottgering, H.	IofA Arcetri Leiden	Radio source size and polarization evolution	3.6, 6	24	8.0
AB981	Blundell, K. Close, L.	Oxford Oxford	Multi-frequency high resolution study of hotspots	0.7, 1.3	10	14.0
AC524	Cartwright, J.K. Taylor, G.B. Readhead, A.C.S. Pearson, T.J.	Caltech NRAO-Socorro Caltech Caltech	Polarization monitoring observations of 3C273	0.7, 1.3 w/BG98	9, 28	4.0
AC558	Condon, J.J.	NRAO-CV	Radio jet from an Scd galaxy?	20	9	2.0
AC561	Cesaroni, R. Hofner, P. Walmsley, M. Kurtz, S. Churchwell, E.	Arcetri Arecibo Arcetri UNAM Wisconsin	Structure of Hot Cores: ammonia (4,4) observations	1.3	3, 26	18.5
AC566	Crocker, M.M. Eyes, S.P.S. Davis, R.J. O'Brien, T. Bode, M.F. Skopal, A. Taylor, A.R.	Jodrell Bank John Moore Jodrell Bank Jodrell bank John Moores Skalnate Pleso U. Calgary	Jet dynamics in the symbiotic star CH Cygni	2, 3.6, 6, 20	9	4.5
AC570	Conway, J. Pihlstrom, Y.	Onsala Onsala	Search for HI absorption in z<0.2 narrow line radio galaxies	20	18,19,21,22	24.0
AD443	Doeleman, S. Lonsdale, C.	Haystack Haystack	The extended SiO maser emission in Orion KL	0.7 PT Link	15, 16	9.5
ADHOC	Rupen, M.	NRAO-Socorro	Adhoc Proposal	w/W33	2	0.8
AF370	Falcke, H. Brunthaler, A. Bower, G. Aller, M. Aller, H. Terasranta, H.	MPIFR MPIFR NRAO-Socorro Michigan Michigan Metsahovi	III Zw 2, a superluminal jet in a spiral galaxy	0.7, 1.3, 2, 3.6, 20, 90	3	1.5
AF377	Fassnacht, C. Rusin, D. Xanthopoulos, E. Koopmans, L.	NRAO-Socorro Pennsylvania Jodrell Bank Jodrell Bank	Monitoring of JVAS and CLASS gravitational lenses	2, 3.6, 6 w/BG98, BK71	2,4,6,7,9,16 ,18,20,21,24 ,26,27,30	17.0
AG600	Girart, J.M. Rodriguez, L.F. Curiel, S.	Illinois UNAM UNAM	Class 1 protostars with associated X-ray emission	3.6	19	4.0
AG601	Gregg, M.D. Becker, R.H. Laurent-Muehleisen, White, R.L.	Calif.-Davis Calif.-Davis Calif.-Davis STScI	Bright quasar lensing search	3.6	4, 28	7.0
AG602	Gaensler, B. Backer, D. Stappers, B. Strom, R. van der Swaluw, E.	MIT Calif.-Berkeley Amsterdam Amsterdam Utrecht	Proper motion of PSR B1951+32 in the supernova remnant CTB 80	20 PT Link w/W09	25	8.0
AH669	Rupen, M.P. Mioduszewski, A.J.	NRAO-Socorro Univ. of Sydney	Galactic black hole X-ray transients	1.3, 2, 3.6, 6, 20 w/BB125, BK71	4, 9, 10,17,18,30	9.8

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AI086	Iverson, R.J. Smail, I. Blain, A.W. Kneib, J.-P.	University College Durham Cambridge Toulouse	Lyman break galaxy SMM J14011+0252: is it a SCUBA source?	20	10, 13	10.5
AK509	Kulkarni, S.K. Frail, D. Galama, T.J. Bloom, J.S. Berger, E. Harrison, F.A.	Caltech NRAO-Socorro Caltech Caltech Caltech Caltech	Radio afterglows from gamma ray bursts	w/BB125/BK71	1,2,6,7,9,16 ,18,21,22,24 ,26,29,30 1,BH66	24.9
AK511	Krishnamurthi, A. Linsky, J.L. Osten, R. Brown, A. Gagne, M. Ayres, T.R.	Colorado Colorado Colorado Colorado West Chester U. Colorado	Observations of AU mic and TZ CrB with Chandra	2, 3.6, 6	12	7.0
AK518	Koopmans, L.V.E. de Bruyn, A.G. Fassnacht, C.D. Wambsganss, J. Blandford, R.D.	Jodrell Bank NFRA NRAO-Socorro Potsdam Caltech	Radio microlensing in B 1600+434	2, 3.6, 6, 20 w/BK71	5,9,11,16,19 ,22,26,30	8.5
AK523	Kurtz, S.E. Shepherd, D.S. Claussen, M.J.	UNAM NRAO-AOC NRAO-Socorro	The massive molecular outflow G192.16-3.82	0.7, 1.3, 3.6, 6 PT Link	24,25	6.0
AL523	Lovell, J. Winn, J. Jauncey, D. Edwards, P. Reynolds, J. Tzioumis, A.	ATNF MIT ATNF ISAS ATNF ATNF	GLASS: the gravitational lens and astrometric southern survey	2, 3.6	5	4.5
AM665	McHardy, I. Uttley, P.	Southampton Southampton	Radio variability of the Seyfert galaxy NGC 4051	3.6, 6 w/BK71	3, 16, 30	3.0
AM668	Menten, K.M. Reid, M.J.	MPIfR CfA	Compact radio sources in Orion KL	0.7, 3.6 PT Link	9, 12	20.0
AM669	Marti, J. Paredes, J.M. Peracaula, M.	U. Jaen Barcelona Barcelona	ToO observations of the Cygnus X-3 arcsecond radio jets	3.6, 6	9,12,13	10.0
AM670	Morganti, R. Oosterloo, T. Capetti, A. Parma, P. Wills, K. deRuiter, H. Fanti, R.	NFRA NFRA Torino Bologna Sheffield U. Bologna Bologna	HI absorption lines in FRI radio galaxies	20 line	25	7.0
AM672	Murphy, D.W. Marshall, H. Lovell, J. Jauncey, D. Preston, R. Birkinshaw, M. Worrall, D. Schwartz, D.	JPL MIT ATNF ATNF JPL Bristol Bristol CfA	A sample of core dominated radio sources	6, 20 w/BG98	4	12.0
AM675	Molnar, L. Dunn, D.	Calvin College Berkeley	High dynamic range mapping of Saturn at large ring inclination	20 w/BK71	16	12.0
AM679	Migenes, V. Coziol, R. Moellenbrock, G.	Guanajuato Guanajuato NRAO-GB	Confirmation of water megamasers in starburst galaxies	1.3 line w/BK71	29	1.0
AN095	Neff, S.G. Ulvestad, J.	NASA-GSFC NRAO-Socorro	Star formation in merging galaxies: an age ordered sequence	3.6, 6 PT Link	2, 17, 22	16.5
AN097	Nagar, N. Falcke, H. Wilson, A.S.	Maryland MPIfR Maryland	The 20cm to 850 micron spectral energy density in nearby galaxies	0.7, 1.3, 3.6	22	8.0
A0156	Owen, F. Morrison, G. Small, I. Iverson, R. Oemler, G. Dressler, A. Ledlow, M.	NRAO-Socorro IPAC Durham University College Carnegie Obs. Carnegie Obs. UNM/Gemini	Extremely deep survey of the CL 0939+47 field	20 w/BK71	30	6.0
AP395	Perlman, E. Landt, H. Padovani, P.	STScI STScI STScI	X-ray bright flat spectrum radio quasars	20 w/G5	14	9.0
AP423	Partridge, R.B.	Haverford	Transient source in the Lynx deep field	3.6, 20	3	3.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AR445	Rodriguez, L.F. Wilner, D. Ho, P.T.P.	UNAM CfA CfA	Young source IRAS 04386+2557	0.7	3	9.0
AR446	Reid, M. Menten, K.	CfA MPIfR	Imaging the radio photospheres and dust forming zone in Miras	0.7 w/W33	2, 3, 6	12.0
AR448	Reipurth, B. Rodriguez, L.F. Anglada, G. Bally, J.	Colorado UNAM IAA Colorado	Multiplicity and dynamical processes in early stellar evolution	3.6 w/09d2, BP75	25-28	44.0
AR451	Reid, M.J. Menten, K.M.	CfA MPIfR	Locating SiO masers for an infrared position for Sgr A*	0.7 w/BC100	13,16	10.0
AS701	Sokoloski, J.L. Kaiser, C. Charles, P.A.	Southampton MPIAP-Garching Southampton	Symbiotic binaries during outburst	3.6, 6, 20	17	3.0
AT252	Tarchi, A. Neininger, N. Klein, U.	Bonn Univ Bonn Univ Bonn Univ	Compact sources in NGC 2146	2, 3.6 w/G5	15	4.5
AW530	Wrobel, J.M. Walker, R.C. Schwartz, C. Laing, R.A. Bridle, A.H.	NRAO-Socorro NRAO-Socorro Calif.-Santa Barbara Oxford NRAO-CV	Proper motions in the FRI radio galaxy M84	6 w/BB125	18	12.0
AW545	Wilner, D. Ho, P.T.P. Rodriguez, L.	CfA CfA UNAM	Nearby T Tauri Stars	0.7 PT Link w/BG98	1,2,8	23.6
AY118	Yusef-Zadeh, F. Bower, G.	Northwestern NRAO-Socorro	Shock excited OH masers at the galactic center	20	11	8.0
AZ129	Zhao, J.-H. Bower, G. Goss, M. McGary, R.	CfA Calif.-Berkeley NRAO-Socorro CfA	VLA Monitoring of Sgr A*	0.7, 1.3, 2	5,10,16,27	4.3
AZ130	Zebker, H. Harcke, L. Butler, B. Slade, M. Jurgens, R.	Stanford Stanford NRAO-Socorro JPL JPL	Goldstone/VLA Radar observations of Ganymede and Callisto	3.6 w/BH66	30	5.5
BB125	Beasley, A.J. Claussen, M.J. Herrnstein, J.R.	NRAO-CV NRAO-Socorro Renaissance Tech	Monitoring of WR140	3.6, 6, 20 Single antenna VLBI w/AW530, AH669, AK509	20, 18	11.8
BC110	Cotton, W. Spencer, R. Saikia, D.J. Garrington, S.	NRAO-CV Jodrell Bank NCRA-Pune Jodrell Bank	Search for jet deflecting gas in 3C43 and 3C454	20 Single antenna VLBI w/AR451, AB973	13	12.0
BD069	Diamond, P.J. Kemball, A.J.	Jodrell Bank NRAO-Socorro	TX Cam: the final curtain	0.7 Single antenna VLBI w/AM675	20, 16	10.1
BG098	Greenhill, L.G. Diamond, P.J. Moran, J.M.	CfA Jodrell Bank CfA	Maser motions in Orion BN/KL	0.7 Single antenna VLBI w/AM672, AW545, AF377, AC524	4,8	16.9
BG099	Gomez, J.-L. Agudo, I. Marscher, A.P. Marchenko, S. Alberdi, A. Garcia-Miro, C. Cawthorne, T.	IAA IAA Boston Boston IAA IAA Lancashire	Polarization of sources with compact stationary components	0.7, 1.3, 2 w/W33	2	2.0
BH066	Hardcastle, M.J. Worrall, D.M. Birkinshaw, M.	Bristol Bristol Bristol	Hot spots of 3C123	90 Single antenna VLBI w/AK509	30	6.3
BH075	Hagiwara, Y. Diamond, P.J. Nakai, N. Henkel, C.	MPIfR Jodrell Bank NAO-Nobeyama MPIfR	Nuclear water maser in NGC 5793	1.3 Phased array VLBI	27	8.0
BK071	Kowatsch, P. Krichbaum, T.P. Roy, A. Zensus, J.A. Witzel, A. Fricke, K.J.	MPIfR MPIfR MPIfR MPIfR MPIfR Gottingen	Two-sided jet in Seyfert 2 galaxy NGC 3079	3.6, 6, 20 Single antenna VLBI w/AM679, AK509, AF377, AO166, AM665, AK518, AH669	29	12.1

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BP075	Patnaik, A. Kemball, A.	MPIFR NRAO-Socorro	Search for gravitational lensing in damed Ly systems	3.6 w/AB977, AR448	27	6.8
BR067	Ratner, M.I. Bartel, N. Bietenholz, M.F. Lebach, D.E. Lestrade, J.-F. Ransom, R.R. Shapiro, I.I.	CfA York York CfA Meudon York CfA	Astronomy of IM Peg in 2000 for the gravity probe-b mission	2, 3.6, 6 Phased array VLBI	5, 6	24.0
GB037	Browne, I.W.A. Jackson, N.J.F. Biggs, A.D. Mao, S. Wilkinson, P.N. Wucknitz, O. Porcas, R.W. Patnaik, A.R.	Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Hamburg MPIFR MPIFR	Gravitational lens system B0218+35	3.6 Phased array VLBI	11	7.0
GB038	Bartel, N. Rupen, M.P. Beasley, A.J. Bietenholz, M.F. Conway, J. Altunin, V. Graham, D. Venturi, T. Umana, G.	York NRAO-Socorro NRAO-CV York Onsala JPL MPIFR Bologna Noto	SN1993J and the core-jet in M81	3.6, 6, 20 Phased array VLBI	12	12.0
GM040	Marcaide, J.M. Guirado, J.C. Alberdi, A. Lara, L. Ros, E. Diamond, P. Shapiro, I.I. Preston, R.A. Schilizzi, R.T. Mantovani, F. Perez-Torres, M.A. Trigilio, C. Van Dyk, S. Weiler, K.W. Sramek, R.A. Whitney, A.R.	Valencia Valencia IAA IAA MPIFR Jodrell Bank CfA JPL JIVE Bologna IRA Italy Noto IPAC NRL NRAO-Socorro Haystack	Monitoring of the expansion of SN 1993J at 6 and 18cm	6, 20 Phased array VLBI	20, 24	22.0
GO005	Owsianik, I.	MPIFR	The study of inner jet in 3C236	6, 20 Single antenna VLBI w/AP395, AT252, Test	14	9.6
GP028	Pihlstrom, Y. Conway, J. van Langevelde, H. Jaffe, W. Schilizzi, R.	Onsala Onsala JIVE Leiden JIVE	HI absorbing gas in NGC 4261	20 Phased array VLBI	21	11.6
W009	Linfield, R.P. Ulvestad, J.S.	JPL NRAO-Socorro	The most compact TDRSS Sources: J1924-2914 and J2218-0335	6, single antenna VLBI w/AG602, AR448	25	8.4
W330P	Kameno, S.	NAO	GPS Source J0905+48	1 w/BG99, AR446, Adhoc	1	14.0
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Shutdown Software General tests Thanksgiving Shutdown			41.9 41.0 0.9 30.5 29.6 26.3

The average downtime was 3.0%.

The array was scheduled for 96.4% (695.7 hours)
553.2 hours (76.6% of time) for astronomical programs
70.9 hours (9.8% of time) for tests/calibration
71.5 hours (9.9% of time) for maintenance
Total 695.7 hours (96.4%) scheduled.

Array was in the A configuration from November 1 through November 30 .

Total number of programs was 65.

The following independent proposals shared simultaneous observing time (104.6 hours total simultaneous observing):

Projects	Hours
AB973/BC110	9.9
AB977/BP75	1.0
AC524/BG98	0.1
ADHOC/W33	0.2
AF377/BG98	1.0
AF377/BK71	1.0
AG602/W09	5.0
AH669/BB125	2.0
AH669/BK071	1.0
AK509/BB125	4.7
AK509/BH066	1.6
AK509/BK071	1.5
AK518/BK071	1.0
AM665/BK071	1.0
AM672/BG098	8.0
AM675/BD069	8.1
AM679/BK071	0.6
AO166/BK071	6.0
AP395/G05	2.0
AR446/W33	4.0
AR448/BP075	5.8
AR448/W09	3.4
AR451/BC110	2.1
AT252/G05	4.5
AW530/BB125	3.7
AW545/BG098	4.1
AW545/BG098	3.8
AZ130/BH066	4.7
BG099/W033	9.9
TEST/G005	2.9

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA252	Alexander, P. Clemens, M.S.	MRAO MRAO	The ISM in interacting/merging galaxies	20	23	10.5
AB923	Bicknell, G.V. Allen, M.G. Morganti, R.	Mt. Stromlo Toronto NFRA	Origin of radio emission in Seyfert Galaxy NGC 2992	20	27	5.0
AB972	Beasley, A.J. Claussen, M.J. Palma, C. Majewski, S.R.	NRAO-CV NRAO-Socorro Virginia Virginia	Search for SiO masers in globular clusters	0.7	12, 14, 16	19.5
AB979	Blundell, K. Cruz, M.J. Rawlings, S.	Oxford Oxford Oxford	First z>4 radio quasars from a VLA 74MHz survey	3.6	28, 30	13.5
AC467	Colina, L. Alberdi, A. Torrelles, J.M. Panagia, N. Wilson, A.	IFCA IAA Catalunya STScI Maryland	Search for radio supernovae in luminous Seyfert galaxies	2, 3.6	26	5.0
AC524	Cartwright, J.K. Taylor, G.B. Readhead, A.C.S. Pearson, T.J.	Caltech NRAO-Socorro Caltech Caltech	Polarization monitoring observations of 3C273	0.7, 1.3	8, 15, 28	7.0
AC557	Clarke, T.E.	NRAO	Search for polarized sources behind galaxy clusters	6	1	17.5
AC559	Charmandaris, V. Combes, F. Liszt, H.	Cornell Paris Obs. NRAO-CV	OH and HI absorption from the HVC toward B1923+210	20	8	12.0
AC563	Curjel, S. Rodriguez, L.F. Moran, J. Canto, J. Raga, A.	UNAM UNAM CfA UNAM UNAM	Monitoring of the Serpens Radio jet	2, 3.6, 6	27	12.0
AC565	Cotton, W. Perrin, G. Wuillez, J. Sol, H. Jaffe, W. Mennesson, B.	NRAO-CV Meudon Paris Obs Paris Obs Leiden Leiden	Search for thermal emission near the nucleus of NGC 1068	0.7	23	12.0
AC569	Capak, P. Tonry, J. Gregory, P.C.	U. of Hawaii U. of Hawaii UBC	Identification of variable radio sources	3.6, 20 w/move/op	6	12.0
AD440	Van Dyk, S.	IPAC	Searching for radio supernovae in Wolf-Rayet galaxies	6, 20	20	10.0
AF370	Falcke, H. Brunthaler, A. Bower, G. Aller, M. Aller, H. Terasranta, H.	MPIfR MPIfR NRAO-Socorro Michigan Michigan Metsahovi	III Zw 2, a superluminal jet in a spiral galaxy	0.7, 1.3, 2, 3.6, 20, 90	21	1.0
AF377	Fassnacht, C. Rusin, D. Xanthopoulos, E. Koopmans, L.	NRAO-Socorro Pennsylvania Jodrell Bank Jodrell Bank	Monitoring of JVAS and CLASS gravitational lenses	2, 3.6, 6	8,10,13,15,1 7,20-25,28,3 1	15.2
AG589	Gudel, M. Beasley, A.J. Audard, M. Benz, A.O. Mewe, R. Brinkman, A. Savin, D.	Paul Scherrer NRAO-CV Paul Scherrer ETH Utrecht Utrecht Columbia	Bright stellar coronae observed with XMM	3.6, 6 w/move/op	9, 13, 15	23.0
AG600	Girart, J.M. Rodriguez, L.F. Curjel, S.	Illinois UNAM UNAM	Class 1 protostars with associated X-ray emission	3.6	27	4.0
AH669	Rupen, M.P. Mioduszewski, A.J.	NRAO-Socorro Univ. of Sydney	Galactic black hole X-ray transients	1.3, 2, 3.6, 6, 20	1,6,9,16,19, 26	9.9
AH685	Haarsma, D.B. Hewitt, J. Langston, G. Moore, C.	Calvin College MIT NRAO-GB Groningen	Time delay monitoring of gravitational lens 2016+112	3.6, 6	24	1.5
AH707	Helfand, D.J. Becker, R.H. White, R.L. Warwick, R.	Columbia Calif.-Davis STScI Leicester	A new x-ray/radio image of the milky way	20 line	2	2.0
AH718	Ho, L.C. Ulvestad, J.S.	Carnegie Obs. NRAO-Socorro	AGN Content in late-type galaxies	6	16	2.5

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH719	Hoare, M.G. Gibb, A.G.	Leeds Leeds	High frequency continuum from the ionized winds of luminous YSOs	0.7, 1.3, 3.6	29	7.5
AH724	Holzappel, W. Carlstrom, J. Dawson, K.	Chicago Chicago	Point source contamination of BIMA anisotropy fields	W/BG098	2, 2	3.0
AJ276	Jackson, N. McKean, J. Browne, I. Wilkinson, P. Marlow, D. Rusin, D. Helbig, P.	Jodrell Bank Jodrell bank Jodrell Bank Jodrell Bank Pennsylvania Pennsylvania Groningen	Parent population of faint flat spectrum radio samples	20 W/BB125	22	6.0
AK509	Kulkarni, S.K. Frail, D. Galama, T.J. Bloom, J.S. Berger, E. Harrison, F.A.	Caltech NRAO-Socorro Caltech Caltech Caltech Caltech	Radio afterglows from gamma ray bursts	W/MOVE/OP,	1,4,7-9,12,1 3,15,16,19-2 2,26,29 BB127,BB125	30.2
AK518	Koopmans, L.V.E. de Bruyn, A.G. Fassnacht, C.D. Wambsganss, J. Blandford, R.D.	Jodrell Bank NFRA NRAO-Socorro Potsdam Caltech	Radio microlensing in B 1600+434	2, 3.6, 6, 20 W/BB125	6,9,16,19,22 ,26,30	8.5
AK525	Keohane, J.W. Williams, N. Clearfield, C. Olbert, C. Frail, D.A.	NCSSM NCSSM NCSSM NCSSM NRAO-Socorro	X-Ray point source in IC 443	20	7	10.0
AL523	Lovell, J. Winn, J. Jauncey, D. Edwards, P. Reynolds, J. Tzioumis, A.	ATNF MIT ATNF ISAS ATNF ATNF	GLASS: the gravitational lens and astrometric southern survey	2, 3.6	14, 27, 31	11.0
AL525	Lim, J. Carilli, C. White, S.M.	ASIAA NRAO-Socorro Maryland	Red supergiant stars	0.7	8	2.0
AM628	Mirabel, F. Dhawan, V. Rodriguez, L.F.	Saclay NRAO-Socorro UNAM	Coordinated VLA and XMM observations of the microquasar GRS 1915+105	6,3.5,2	10, 13, 14	3.0
AM645	Menten, K.M. Wagner, S.J. Appenzeller, I. Carilli, C. Bertoldi, F. Fricke, K.J.	MPIfR Heidelberg Heidelberg NRAO-Socorro MPIR Göttingen	Survey of the FORS VLT deep field	20	24, 28	12.0
AM661	Monnier, J.D. Greenhill, L.J. Tuthill, P.G. Danchi, W.C.	CFA CFA Sydney NASA/GSFC	Spectral variability of the WR 112 binary system	0.7, 1.3, 2, 3.6, 6, 20	17	3.0
AM669	Marti, J. Paredes, J.M. Peracaula, M.	Jaen Barcelona Barcelona	TOO Observations of Cygnus X-3 arcsecond radio jets	6, 3.5	20	5.0
AN093	Natta, A. Testi, L. Wilner, D. Shepherd, D.	Arcetri Arcetri CfA NRAO-AOC	Protoplanetary disks around intermediate mass PMS stars	0.7, 3.6 W/BG098	2	7.5
AN095	Neff, S.G. Ulvestad, J.	NASA-GSFC NRAO-Socorro	Star formation in merging galaxies: an age ordered sequence	3.6, 6 with PT W/BG053	24, 30, 31	18.0
AO153	Olmi, L. Testi, L. Shepherd, D. Cesaroni, R.	Massachusetts Arcetri NRAO-AOC Arcetri	OH Masers in high mass star formation regions	20 W/BB127	9, 12	12.0
AP405	Parma, P. Capetti, A. de Ruiter, H.R. Fanti, R. Morganti, R.	Bologna Torino Bologna Bologna NFRA	An 8.4 GHz snapshot survey of B2 low luminosity radio galaxies	3.6	5, 5	12.5

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Progrm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AR441	Rudnick, L. Young, A. Kassim, N. Slee, O.B. Sarazin, C. Andernach, H. Roy, A.	Minnesota Minnesota NRL ATNF Virginia Guanajuato MPIFR	Cluster "relic" physics - spectral and x-ray studies	90	29	12.0
AR446	Reid, M. Menten, K.	Cfa MPIFR	Imaging the radio photospheres and dust forming zone in Miras	0.7	25, 29	20.1
AR451	Reid, M.J. Menten, K.M.	Cfa MPIFR	Locating SiO masers for an infrared position for Sgr A*	0.7	23, 28, 30	15.5
AS568	Sramek, R. Weiler, K. VanDyk, S. Panagia, N.	NRAO-Socorro NRL IPAC STScI	Properties of radio supernovae	1.3, 2, 3.6, 6, 20 W/MOVE/OP/BD69	7, 15, 16, 19	27.5
AS697	Schoenmakers, A.P. Rottgering, H. deBruyn, A.G. Kaiser, C.R.	NFRA Dwingeloo Leiden NFRA MPIAP-Garching	Structure and formation of double-double radio galaxies	3.6, 6, 20 W/BB125	21, 22	28.0
AS701	Sokoloski, J.L. Kaiser, C. Charles, P.A.	Southampton MPIAP-Garching Southampton	Symbiotic binaries during outburst	3.6, 6, 20	12	4.0
AT250	Kardeshev, N.S. Cheepashchuk, A.M. Marshall, H.L. Preston, R.A. Slee, O.B. Tingay, S.J. Tsarevsky, G.S.	Lebedev Sternberg MIT JPL ATNF ATNF ATNF	Search for new galactic microquasars among ROSAT sources	3.6, 6	17	8.0
AT251	Thean, A. Pedlar, A. Gillibrand, T.I. Baum, S.A. Kukula, M.J. O'Dea, C.P.	Bologna Jodrell Bank Jodrell Bank STScI Edinburgh STScI	Newly recognized Seyferts from the extended 12-micron sample	3.6	31	3.0
AW362	White, S.	Maryland	The stellar activity cycle on active stars	3.6, 6, 20 W/MOVE/OP	9, 13	3.0
AW545	Wilner, D. Ho, P.T.P. Rodriguez, L.	Cfa Cfa UNAM	Nearby T Tauri Stars	0.7 with PT	31	3.5
AW546	Williams, P.M. Dougherty, S.M.	Edinburgh DRAO	Spectral energy distribution of WR 125	3.6, 6, 20	19	1.5
AY119	Yun, M.S. Owen, F. Ledlow, M.	NRAO-Socorro NRAO-Socorro UNM/Gemini	HI absorption in a disk galaxy with a powerful FR I source	20 with PT	22	5.0
AZ129	Zhao, J.-H. Bower, G. Goss, M. McGary, R.S.	Cfa NRAO-Socorro NRAO-Socorro Harvard	VLA Monitoring Sgr A*	0.7, 1.3, 2	5, 9, 17, 24, 31	5.0
BB125	Beasley, A.J. Claussen, M.J. Herrnstein, J.R.	NRAO-CV NRAO-Socorro Renaissance Tech	Monitoring of WR140	3.6, 6, 20 Single antenna VLBI W/MOVE/OP/AS697/AK518/AK509/AJ276	14, 22	10.5
BB127	Blundell, K. Close, L.	Oxford Oxford	90cm imaging of the hotspots in CSOs	90 Single antenna VLBI W/A0153/TESTS/AK509/AF377	9	14.1
BD069	Diamond, P.J. Kemball, A.J.	Jodrell Bank NRAO-Socorro	TX Cam: the final curtain	0.7 Single antenna VLBI W/MOVE/OP/BD69	18, 18	10.6
BG098	Greenhill, L.G. Diamond, P.J. Moran, J.M.	Cfa Jodrell Bank Cfa	Maser motions in Orion BN/KL	0.7 Single antenna VLBI W/AN93/AH724/TEST	2	8.1
BLO85	Lara, L. Alberdi, A.	IAA IAA	Five daily snapshots on IDV 0917+624	1.3, 2 Phased array VLBI W/MOVE/OP	8, 13, 14, 15, 17	24.3
BM138	Mutel, R. Ignace, R. Gayley, K.	Iowa Iowa Iowa	Wolf-Rayet binaries WR 146 and WR 147	3.6, 20 Phased array VLBI	1, 5	8.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BW053	Winn, J. Cohen, A.S. Hewitt, J.N.	MIT MIT MIT	Model constraints for a new flat-spectrum gravitational lens	3.6	10	5.3
V053	Witzel, A.	MPIfR	Polarization variability of intraday variable sources	6 Phased array VLBI W/TEST	11, 15	17.0
W071	Kameno, S. Wajima, K. Imai, M. Inoue, M. Satoh, S.	NAO ISAS NAO NAO NAO	Survey for GPS Sources	20 Single antenna VLBI	31	9.0
	Staff	NRAO	Baselines, Pointing, Delays Calibrator Flux Ratios Calibrator flux ratios Maintenance Move/Operations Software General tests			36.9 24.5 24.0 43.6 72.0 32.0 48.5

The average downtime was 6.8%.

The array was scheduled for 100.0% (747.1 hours)
521.6 hours (69.8% of time) for astronomical programs
149.9 hours (20.1% of time) for tests/calibration
75.5 hours (10.1% of time) for maintenance
Total 747.1 hours (100.0%) scheduled.

Array was in the D configuration from October 1 through October 2 .

Array was in the A configuration from October 2 through October 31

Total number of programs was 57.

The following independent proposals shared simultaneous observing time (99.1 hours total simultaneous observing):

Projects	Hours
AC569/MOVE/OP	9.4
AF377/BB127	0.9
AG589/MOVE/OP	5.2
AH724/BG098	1.5
AJ276/BB125	3.0
AK509/BB125	1.0
AK509/BB127	1.0
AK509/TEST	4.5
AK518/BB125	1.0
AN093/BG098	5.5
AN095/BW053	5.3
AO153/BB127	6.0
AS568/BD069	4.7
AS697/BB125	5.5
AW362/MOVE/OP	2.0
BB125/MOVE/OP	1.5
BL085/MOVE/OP	4.7
BL085/MOVE/OP	4.8
BL085/MOVE/OP	3.9
MAINT/BB127	0.1
MOVE/OP/AS568	8.0
MOVE/OP/BD069	3.3
TEST/BB127	2.0
TEST/BB127	4.1
TEST/BG098	1.1
TEST/MOVE/OP	0.1
TEST/V53	9.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA248	Aalto, S. Huttemeister, S. Horellou, C.	Onsala Bonn Univ. Onsala	HI in the "Medusa" merger, NGC 4194	20 line	10	2.0
AA249	Anglada, G. Rodriguez, L.F. Estalella, R. Beltran, M.T.	IAA UNAM Barcelona Cfa	IRAS 2A, MMS 2, and SVS 13 sources in HH7-11	0.7	7	8.1
AB958	Beltran, M.T. Estalella, R. Ho, P.T.P. Anglada, G.	Cfa Barcelona Cfa IAA	7mm from young thermal radio jets	0.7	23	7.0
AB965	Bosma, A. O'Brien, J. Freeman, K.C. Athanasoulas, E. Bureau, M.	Marseille Mt. Stromlo Mt. Stromlo Marseille Sterrewacht Leiden	Thin edge-on galaxies	20 line	9	14.0
AB985	Berger, E. Becker, K.M. Clarke, M. Mellon, R. Teng, S. Woodruff, T.	Caltech Oberlin Carleton Pennsylvania State Maryland Southwestern	X-ray brown dwarf LP944-20	3.6	20, 27	7.0
AC524	Cartwright, J.K. Taylor, G.B. Readhead, A.C.S. Pearson, T.J.	Caltech NRAO-Socorro Caltech Caltech	Polarization monitoring observations of 3C273	0.7, 1.3	11, 24	4.0
AC548	Clarke, T.	NRAO-Socorro	Rotation measure of distant radio sources behind nearby galaxy clusters	6	27	5.0
AC556	Chen, Y. Zheng, X. Zhang, Q. Ho, P.T.P.	Shanghai Obs. Nanjing Cfa Cfa	Ammonia mosaic of OMC-2 and OMC-3	1.3	24	9.0
AC557	Clarke, T.	NRAO-Socorro	Search for polarized sources behind galaxy clusters	6	30	2.5
ADHOC1	Dhawan, V.	NRAO-Socorro	Adhoc Proposal		27	0.5
AF370	Falcke, H. Brunthaler, A. Bower, G. Aller, M. Aller, H. Terasranta, H.	MPIR, Bonn MPIR, Bonn NRAO-Socorro Michigan Michigan Metsahovi	III Zw 2, a superluminal jet in a spiral galaxy	0.7, 1.3, 2, 3.6, 20, 90	27	1.5
AF372	Feretti, L. Govoni, F. Giovannini, G.	Bologna Bologna Bologna	New radio halos and relics from the NVSS	20 w/BB125	25	16.0
AG594	Gary, D.E. Lee, J. Gallagher, P.T. Bastian, T.	New Jersey Tech New Jersey Tech New Jersey Tech NRAO-CV	Solar active regions with VLA and OVSA	2, 3.6, 6, 20 w/BD069	17, 21, 22	16.5
AG598	Guerra, E.J. Haarsma, D.B. Partridge, R.B.	Rowan Calvin College Haverford	Inverted spectrum radio sources	0.7, 1.3, 6, 20	14, 15	3.1
AH669	Rupen, M.P. Mioduszewski, A.J.	NRAO-Socorro Univ. of Sydney	Galactic black hole X-ray transients	1.3, 2, 3.6, 6, 20	8, 12, 13, 18, 23, 26	10.8
AH706	Hofner, P. Kurtz, S. Vargas, C.	Arecibo UNAM U. Puerto Rico	Catalog of methanol masers in massive star forming regions	0.7 line w/BB125	25	8.0
AH707	Helfand, D.J. Becker, R.H. White, R.L. Warwick, R.	Columbia Calif.-Davis STScI Leicester	A new x-ray/radio image of the milky way	20 line w/BY12	4	7.0
A1079	Iverson, R.J. Barvainis, R.E. Lewis, G.F. Papadopoulos, P.	University College RFB Research Univ. Washington Leiden	Molecular gas in a superluminous galaxy	0.7, 20, 6	16	4.0
A1082	Irwin, J.A. Saikia, D.J. English, J.	Queen's Univ NCRA-Pune STScI	HI Observations of 11 edge-on spiral galaxies	20	8, 15	20.0
A1083	Isaak, K. Chandler, C. Carilli, C. Withington, S.	Cavendish Astrophys NRAO-Socorro NRAO-Socorro Cavendish Astrophys	Search for HCN emission from BR 1202-0725 at z = 4.7	2	2, 3, 4	24.0
AJ271	Jamrozy, M. Machalski, J.	Jagiellonian Jagiellonian	Detection of radio cores in candidate "giant" radiogalaxies	3.6	30	1.5

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Prog#	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AK509	Kulkarni, S.K. Frail, D. Galama, T.J. Bloom, J.S. Berger, E. Harrison, F.A.	Caltech NRAO-Socorro Caltech Caltech Caltech Caltech	Radio afterglows from gamma ray bursts	w/BG98, BY12, BR69	1,4-6,10,13-18,22,24	37.1
AL513	Lim, J. Carilli, C.	Academia Sinica NRAO-Socorro	Polarized dust emission in NGC 1333/IRAS 4A	0.7	11	8.1
AL515	Ledlow, M. Owen, F.	UNM NRAO-Socorro	Search for giant, low-power FRI radio galaxies	20 w/BD69	20	8.0
AL518	Lebron, M. Osorio, M.	UNAM UNAM	Possible hot core in G111.6+0.3	1.3 w/V53	28	4.0
AM643	Muhle, S. Klein, U. Wilcots, E. Duric, N. Huttemeister, S.	Bonn Univ. Bonn Univ. Wisconsin New Mexico Bonn Univ.	Magnetic fields in starburst galaxies	3.6, 6	19, 23	12.0
AM653	Mohan, N.R. Anantharamaiah, K.R. Goss, M.	Raman Raman NRAO-Socorro	Radio recombination lines from Dwarf starburst galaxies	2, 3.6 w/V53	29	4.0
AM655	Murgia, M. Parma, P. Fanti, R. deRuiter, H. Bondi, M. Ekers, R. Fomalont, E.	IRA-Bologna Bologna Bologna CNR - Bologna Bologna ATNF NRAO-CV	Synchrotron age of low luminosity radio galaxies	2, 3.6, 6	17, 28	4.5
AM661	Monnier, J.D. Greenhill, L.J. Tuthill, P.G. Danchi, W.C.	Cfa Cfa Sydney NASA/GSFC	Spectral variability of the WR 112 binary system	0.7, 1.3, 2, 3.6, 6, 20	8	3.0
AM665	McHardy, I. Uttley, P.	Southampton Southampton	Radio variability of the Seyfert galaxy NGC 4051	3.6, 6	1, 15, 29	3.0
AM666	Moran, E.C. Laurent-Muehleisen, van Breugel, W. Becker, R.H.	Calif-Berkeley Calif-Davis Lawrence Livermore Calif-Davis	Origin of narrow line Seyfert 1 radio variability	3.6, 6, 20	10	2.0
AN093	Natta, A. Testi, L. Wilner, D. Shepherd, D.	Arcetri Arcetri Cfa NRAO-Socorro	Protoplanetary disks around intermediate mass PMS stars	0.7, 3.6 w/BY12	5, 10	18.0
AO147	Ogley, R.N. Mirabel, I.F. Chaty, S. Marti, J. Rodriguez, L.F. Stirling, A.M.	Saclay Saclay Open University U. Jaen UNAM Lancashire	Super-soft X-ray white dwarf binaries	3.6, 6	26, 28	4.5
AP401	Pisano, D.J. Wilcots, E.M.	Wisconsin Wisconsin	Possible gas rich companions to isolated galaxies	20	16	6.0
AR428	Reynaud, D. Downes, D. Roussel, H. Vigroux, L. Beck, R.	Saclay IRAM Saclay Saclay MPIR, Bonn	Magnetic fields in the barred spiral NGC 1530	3.6, 6 w/BR69	18	9.5
AR432	Rosenberg, J. Schneider, S.	Massachusetts Massachusetts	HI imaging of low surface brightness galaxies	20 line	2, 22	6.0
AR435	Rudnick, L. Koralsky, B. Petre, R. Gotthelf, E. Holt, S.	Minnesota Minnesota NASA-GSFC Columbia NASA-GSFC	Cas A: probing the x-ray/radio connections	6	6	4.5
AR440	Rudnick, L. Young, A. Makishima, K. Tshiro, M. Iyomoto, N. Kassim, N. Worrall, D.	Minnesota Minnesota Tokyo Univ Tokyo Univ Toyko Univ NRL Bristol	Radio lobe physics - radio spectra and inverse compton x-rays	6, 20	9, 10	6.0
AS686	Saikia, D.J. Ishwara-Chandra, C.H.	NCRA-Pune NCRA-Pune	Giant radio sources	6	11	2.0
AS689	Su, Y.N. Lim, J. Ho, P.T.P.	NCU, Taiwan Academia Sinica Cfa	Search for hot molecular gas around candidate massive protostars	1.3 w/BB125	26	7.0

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Prog#	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS692	Statler, T.S. van Gorkom, J. Krejny, M. Terndrup, D.M.	Ohio U. Columbia Ohio U. Ohio State U.	HI Imaging of the shell elliptical NGC 2634	20	9	5.5
AS693	Stocke, J.T. McLin, K.M. Gibson, B. Carilli, C. Hibbard, J. van Gorkom, J.	Colorado Colorado Colorado NRAO-Socorro NRAO-CV Columbia	HI in galaxies in the vicinity of local Ly A clouds	20	1, 2, 3	27.5
AS694	Stelzer, B. Newhauser, R. Fernandez, M. Guenter, E. Menten, K. Schmitt, J. Hambaryan, V.	MPE, Garching MPE, Garching MPE, Garching TLS, Germany MPIR, Bonn Hamburg Byurakan	Coordinated multi-wavelength observations of YY Gem	6, 20	30	13.0
AS695	Shah, R. Carilli, C. Menten, K. Wootten, A.	U. Virginia NRAO-Socorro MPIR, Bonn NRAO-CV	Cosmological D/H ratio at high redshift	0.7	16	8.5
AT245	Taylor, A.R. Dickey, J.M. McClure-Griffiths, N Gaensler, B. Green, A. Heyer, M. Irwin, J. Jackson, J. Landecker, T. Brunt, C. Kerton, C. Lockman, F.J. Martin, P.G.	Calgary Minnesota Minnesota MIT Sydney Massachusetts NCRA/Queen's Boston DRAO DRAO DRAO NRAO-GB U. of Toronto	VLA Galactic plane HI survey	20 line w/BR69, BC105	1,5,7,11,14, 15,17-19,21, 24,29,30	115.2
AU083	Udomprasert, P.S. Mason, B.S. Myers, S.T. Pearson, T.J. Readhead, A.C.S.	Caltech Caltech NRAO-Socorro Caltech Caltech	Point sources towards Abell 478 and Abell 754	0.7, 1.3	14	5.9
AW539	Wilcots, E.M. Hunter, D.A. Kearns, K.	Wisconsin Lowell Wisconsin	Mapping the extended HI around irregular galaxies	20 w/BC105	18	9.9
AW543	Wiseman, J.J. Fuller, G. Wootten, A.	Johns Hopkins Manchester NRAO-CV	Gas kinematics around the youngest protostars and jets	1.3 w/BG98	1, 4	12.0
AZ120	Zhang, Q. Hunter, T. Sridharan, T.K. Ho, P.	CfA CfA CfA CfA	Disk/Jet system around the high-mass young star in AFGL 5142	1.3 line	2, 3	15.0
AZ128	Zhao, J-H. Bower, G. Goss, M.	CfA NRAO-Socorro NRAO-Socorro	Monitoring Sgr A*		8, 13, 26	3.1
BB125	Beasley, A.J. Claussen, M.J. Herrnstein, J.R.	NRAO-CV NRAO-Socorro Renaissance Tech	Monitoring of WR140	3.6, 6, 20 Single antenna VLBI w/AF372, AH706, AS689	25, 26	12.8
BC105	Cotton, W.D. Saslaw, W.C.	NRAO-CV Virginia	Search for lensing by the star in front of 3C 435B	3.6 Single antenna VLBI w/AT145	18	10.3
BD069	Diamond, P.J. Kemball, A.J.	Jodrell Bank NRAO-Socorro	TX Cam: the final curtain	0.7 Single antenna VLBI	16, 21	6.1
BG098	Greenhill, L.G. Diamond, P.J. Moran, J.M.	CfA Jodrell Bank CfA	Maser motions in Orion BN/KL	0.7 Single antenna VLBI w/AK509, AW543	1	8.6
BP068	Palmer, P. Goss, M.	Chicago NRAO-Socorro	H2CO masers with the VLBA	6 Phased array VLBI w/move/op	22	12.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BR069	Rusin, D. Norbury, M. Koopmans, L. Wilkinson, P.N. Browne, I.W.A. Jackson, N. Myers, S.T. Fassnacht, C.D. Marlow, D.R. Tegmark, M.	Pennsylvania Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank NRAO-Socorro NRAO-Socorro Pennsylvania Pennsylvania	New CLASS gravitational lens systems B2319+051 and B0852+052	6 Single antenna VLBI w/AT245, AR428, AK509, test, AH66 9	17	25.7
BY012	Yi, J. Booth, R.S. Winnberg, A. Humphreys, E.M.L. Conway, J. Diamond, P.J.	Onsala Onsala Onsala Onsala Jodrell Bank	v=1 and v=2 SiO masers in Mira variables R Cas and TX Cam	0.7 Single antenna VLBI w/AH707, AK509, AN93	4	15.3
V053	Witzel, A.	MPIR, Bonn	Polarization variability of intraday variable sources		28 w/tests/AL518, AM653	15.1
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Software General tests			38.4 48.1 11.7 31.6 51.3

The average downtime was 3.5%.

The array was scheduled for 100.0% (722.0 hours)
551.6 hours (76.4% of time) for astronomical programs
91.7 hours (12.7% of time) for tests/calibration
78.7 hours (10.9% of time) for maintenance
Total 746.1 hours (100.0%) scheduled.

Array was in the D configuration from September 1 through September 30 .

Total number of programs was 58.

The following independent proposals shared simultaneous observing time (111.0 hours total simultaneous observing):

Projects	Hours
AF372/BB125	1.8
AG594/BD69	5.5
AH669/BR69	2.0
AH706/BB125	8.0
AH707/BY12	7.0
AK509/BG98	1.0
AK509/BG98	1.6
AK509/BR69	2.0
AK509/BY12	2.0
AK509/MOVE/OP	3.0
AL515/BD69	4.2
AL518/V53	4.0
AM653/V53	3.4
AN93/BY12	6.3
AR428/BR69	9.5
AS689/BB125	0.5
AT245/BR69	9.5
AT245/BR69	0.2
AT245/BR69	5.1
AW539/BR69	5.2
AW543/BG98	6.0
MOVE/OP/BP68	8.7
SOFTWARE/BD69	1.9
TEST/BD69	2.5
TEST/BR69	2.5
TEST/V53	2.6
TEST/V53	5.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA243	Allen, M.L. Kronberg, P.P. Clarke, T.E.	Toronto Toronto NRAO-Socorro	Distribution and structure of HII regions in M82	0.7	11	5.0
AA247	Anglada, G. Rodriguez, L.F.	IAA UNAM	Exciting sources of new CO bipolar outflows	3.6	16	9.0
AB937	Bohringer, H. Schuecker, P. Feretti, L. Giovannini, G. Govoni, F.	MPE MPE Bologna Bologna Bologna	Search of radio halos in REFLEX clusters	20	11	3.0
AB954	Barton, E. van Zee, L.	DAO DAO	Compact narrow emission line galaxies	20 line	18	4.0
AB961	Bosma, A. Freeman, K.C. Bureau, M. Athassoula, E. O'Brien, J.	Marseille Mt. Stromlo Sterrewacht Leiden Marseille Mt. Stromlo	Edge-on barred spirals	20	4, 7	16.0
AB964	Brunner, R.J. Fassnacht, C. Djorgovski, G. Stern, D. Perley, R. Ulvestad, J.	Caltech NRAO-Socorro Caltech JPL NRAO-Socorro NRAO-Socorro	Optically selected $z > 4$ quasars	6	28, 28, 30	48.2
AC524	Cartwright, J.K. Taylor, G.B. Readhead, A.C.S. Pearson, T.J.	Caltech NRAO-Socorro Caltech Caltech	Polarization monitoring observations of 3C273	0.7, 1.3	10, 24	4.5
AC544	Castelletti, G. Golap, K. Dubner, G. Goss, M.	IAFE NRAO IAFE NRAO-Socorro	CTB80	90	13	4.0
AD436	Djorgovski, S.G. Brunner, R.J. Harrison, F. Ulvestad, J. Perley, R. Mahabal, A.	Caltech Caltech Caltech NRAO-Socorro NRAO-Socorro Caltech	A possible population of type 2 quasars	3.6	21	24.0
AF373	Fabian, D. Pisano, D.J. Wakker, B.P. Wilcots, E.M.	Wisconsin Wisconsin Wisconsin Wisconsin	HI in galaxy groups	20 w/BB125	19, 20	24.0
AG586	Gaensler, B.M. Gotthelf, E.V. Vasisht, G. Slane, P.O.	MIT Columbia JPL CFA	Anomalous X-ray pulsars	20, 90	6	2.5
AG587	Gaensler, B. Crawford, F. Kaspi, V. Manchester, D. Camilo, F.	MIT MIT MIT ATNF Columbia	Parkes Multi-beam pulsars	6, 20	20	1.0
AG596	Gibb, A.G. Hoare, M.G.	Leeds Leeds	SiO and methanol imaging of the HH25 MMS outflow	0.7, 1.3 line	5	3.0
AH669	Hjellming, R.M. Rupen, M.P. Mioduszewski, A.J.	NRAO-Socorro NRAO-Socorro Univ. of Sydney	Galactic black hole X-ray transients	1.3, 2, 3.6, 6, 20	2, 7, 13, 28	6.1
AH707	Helfand, D.J. Becker, R.H. White, R.L. Warwick, R.	Columbia Calif.-Davis STScI Leicester	A new x-ray/radio image of the milky way	20 line w/BG105	17, 25-27	21.7
AH711	Hunter, D.A. Wilcots, E.	Lowell Wisconsin	Extended gas around irregular galaxies	20	5	6.0
AH713	Hameed, S. Young, L.	New Mexico State NMIMT	HI Imaging of Early type Spirals	20	19	2.0
AI083	Isaak, K. Chandler, C. Carilli, C. Withington, S.	Cavendish NRAO-Socorro NRAO-Socorro Cavendish	Search for HCN emission from BR 1202-0725 at $z = 4.7$	2	26	8.5
AK485	Kulkarni, S. Bloom, J.S. Djorgovski, S.G. Frail, D.A. Harrison, F.A.	Caltech Caltech Caltech NRAO-Socorro Caltech	Radio afterglows of gamma-ray bursts	20, 6, 3.5, 2 .0 w/BG105	7	2.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AK509	Kulkarni, S.K. Frail, D. Galama, T.J. Bloom, J.S. Berger, E. Harrison, F.A.	Caltech NRAO-Socorro Caltech Caltech Caltech Caltech	Radio afterglows from gamma ray bursts	w/BC081/BD069	1,3,6,7,11,13,15-17,19,21,23,25,30	26.6
AL500	Laing, R.A. Parma, P. de Ruiter, H.R. Bridle, A.H. Fanti, R.	Oxford Bologna Bologna NRAO-CV Bologna	Decelerating relativistic jets in FRI radio galaxies	3.6	17	1.0
AL515	Ledlow, M. Owen, F.	UNM/Gemini NRAO-Socorro	Search for giant, low-power FRI radio galaxies	20 w/BC081	5	6.2
AL516	Lim, J. Wen-Shuo, L. Ho, P.T.P.	Academia Sinica Taiwan Univ. CfA	HI Imaging of Seyfert galaxies	20 w/BD069	19-21	22.0
AM643	Muhle, S. Klein, U. Wilcots, E. Duric, N. Huttemeister, S.	Bonn Univ. Bonn Univ. Wisconsin UNM Bonn Univ.	Magnetic fields in starburst galaxies	3.6, 6 w/BG105	11, 13, 17, 27	14.5
AM651	Mohan, R. Dwarakanath, K.S. Goss, M. Srinivasan, G.	IIS Raman NRAO-Socorro Raman	HI emission from optically selected interstellar clouds	20	3	8.0
AM652	Minier, V. Booth, R. Conway, J. Polatidis, A. Pestalozzi, M.	Onsala Onsala Onsala Onsala Onsala	Ammonia emission from methanol maser regions	1.3	2, 4	8.0
AM653	Mohan, N.R. Anantharamaiah, K.R. Goss, M.	Raman Raman NRAO-Socorro	Radio recombination lines from Dwarf starburst galaxies	2, 3.6	14, 18	15.0
AM654	Molinari, S. Testi, L. Cesaroni, R. Shepherd, D.	IPAC Arcetri Arcetri NRAO-Socorro	Ammonia observations of candidate massive protostars	1.3	8, 9, 11	30.0
AM665	McHardy, I. Uttley, P.	Southampton Southampton	Radio variability of the Seyfert galaxy NGC 4051	3.6, 6	14	1.0
AM666	Moran, E.C. Laurent-Muehleisen, W. van Breugel, W. Becker, R.H.	Calif.-Berkeley Calif.-Davis Lawrence Livermore Calif.-Davis	Origin of narrow line Seyfert 1 radio variability	3.6, 6, 20	8	3.5
AO152	Owen, F.N. Ledlow, M.J. Dwarakanath, K.S. Keel, W.C.	NRAO-Socorro UNM/Gemini Raman Alabama	Radio continuum spectrum for 154109+661544	0.7, 1.3, 2, 3.6, 6	28	4.0
AP380	Pooley, G.G. Hardcastle, M.J. Riley, J.M. Alexander, P. Gilbert, G.	MRAO Bristol MRAO MRAO MRAO	Radio jets of FRII radio sources	3.6, 6 w/BC081	6, 25	5.0
AP404	Petric, A. Rupen, M.	NMIMT NRAO-Socorro	Continuum imaging of face on spirals	6, 20	11, 13	8.0
AR432	Rosenberg, J. Schneider, S.	Massachusetts Massachusetts	HI imaging of low surface brightness galaxies	20 line	4, 9, 18	7.0
AR439	Reipurth, B. Rodriguez, L.F.	Colorado UNAM	Binary sources that excite Herbig -Haro systems	3.6	19	4.0
AR441	Rudnick, L. Young, A. Kassim, N. Slee, O.B. Sarazin, C. Andernach, H. Roy, A.	Minnesota Minnesota NRL ATNF Virginia Guanaajuato MPIFR	Cluster "relic" physics - spectral and x-ray studies	6, 20, 90	7	4.5
AS686	Saikia, D.J. Ishwara-Chandra, C.H.	NCRA-Pune NCRA-Pune	Giant radio sources	6	18	1.5

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AT245	Taylor, A.R. Dickey, J.M. McClure-Griffiths, N Gaensler, B. Green, A. Heyer, M. Irwin, J. Jackson, J. Landecker, T. Brunt, C. Kerton, C. Lockman, F.J. Martin, P.G.	Calgary Minnesota Minnesota MIT Sydney Massachusetts NCRA/Queen's Boston DRAO DRAO DRAO NRAO-GB U. of Toronto	VLA Galactic plane HI survey	20 line	1-5,8-11,14, 15,17-19,22- 24,29-31	119.3
AT247	Thompson, M.A. Gibb, A.G.	Kent Leeds	Temperature structure of hot cores	1.3	1	2.5
AW536	Wong, T. Thornley, M.D. Blitz, L. Bock, d. Helfer, T.T. Regan, M.W. Sheth, K. Vogel, S.	Calif.-Berkeley NRAO-CV Calif.-Berkeley Calif.-Berkeley Arizona DTM Maryland Maryland	HI in nearby spirals with CO observations	20	11	2.0
AW543	Wiseman, J.J. Fuller, G. Wootten, A.	Johns Hopkins Jodrell Bank NRAO-CV	Gas kinematics around the youngest protostars and jets	1.3 w/BG105	24-26	24.6
AY086	Yun, M. del Olmo, A. Huchtmeier, W.K. Perea, J.D. Verdes-Montenegro, L	U. Massachusetts IAA MPIR, Bonn IAA IAA	HI Clouds in densest compact groups	21	10	1.5
AZ128	Zhao, J-H. Bower, G. Goss, M.	CFA NRAO-Socorro NRAO-Socorro	Monitoring Sgr A*	2,1.3,0.7	6, 13	2.3
BB125	Beasley, A.J. Claussen, M.J. Herrnstein, J.R.	NRAO-CV NRAO-Socorro Renaissance Tech	Monitoring of WR140	3.6, 6, 20 Single antenna VLBI w/AF373	19	10.5
BC081	Cotton, W.D. Fanti, C. Fanti, R. Dallacasa, D. Foley, A.R. Schilizzi, R.T. Spencer, R.E.	NRAO-CV Bologna Bologna Bologna NFRA JIVE Jodrell Bank	Faraday rotation in the core of 3C138	6 Single antenna VLBI w/AL515,AK509,AG586,AP380, Baselines	6	12.2
BD069	Diamond, P.J. Kemball, A.J.	Jodrell Bank NRAO-Socorro	TX Cam: the final curtain	0.7 Single antenna VLBI AL516,AK509,BG105	27, 21	12.4
BG105	Giovannini, G. Feretti, L. Venturi, T. Cotton, W.D. Lara, L. Taylor, G.	Bologna Bologna Bologna NRAO-CV IAA NRAO-Socorro	VLBA observations of two compact symmetric objects	3.6, 6 Single antenna VLBI w/AW543,BD69,AM643,AK485,AH70 7	27	10.1
BG107	Greenhill, L.G. Moran, J.M. Diamond, P.J. Henkel, C.	CFA CFA Jodrell Bank MPIFR	Wrap up to monthly monitoring of the NGC 4258 maser	1.3 Phased array VLBI	12	14.4
BM138	Mutel, R. Ignace, R. Gayley, K.	Iowa Iowa Iowa	Wolf-Rayet binaries WR 146 and WR 147	3.6, 20 Phased array VLBI	23	4.2
BR067	Ratner, M.I. Bartel, N. Bietenholz, M.F. Lebach, D.E. Lestrade, J.-F. Ransom, R.R. Shapiro, I.I.	CFA York U. York U. CFA Meudon York U. CFA	Astrometry of IM Peg in 2000 for the gravity probe-b mission	2, 3.6, 6 Phased array VLBI	6	12.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
W079	Meier, D.L. Tingay, S.J. Preston, R.A. Murphy, D.W. Jones, D.L. Fujisawa, K. Hirabayashi, H. Kobayashi, H. Edwards, P.	JPL ATNF JPL JPL JPL NAO ISAS NAO ISAS	Centaurus A	6 Phased array VLBI Move/Op	5, 6	9.1
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Software General tests			49.9 51.8 4.1 37.8 32.4

The average downtime was 3.8%.

The array was scheduled for 100.0% (746.1 hours)
 574.2 hours (77.0% of time) for astronomical programs
 82.0 hours (11.0% of time) for tests/calibration
 89.7 hours (12.0% of time) for maintenance
 Total 746.1 hours (100.0%) scheduled.

Array was in the D configuration from August 1 through August 31 .

Total number of programs was 51.

The following independent proposals shared simultaneous observing time (45.3 hours total simultaneous observing):

Projects	Hours
AF373/BB125	3.9
AG586/BC081	2.5
AH707/BG105	2.8
AK485/BG105	2.0
AK509/BC081	2.0
AK509/BD069	1.9
AL515/BC081	1.8
AL516/BB125	6.5
AL516/BD069	6.6
AM643/BG105	2.5
AP380/BC081	1.5
AW543/BG105	0.8
Baselines/BC081	4.4
BD069/BG105	2.0
W79/MOVE/OP	4.1

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA246	Adornes, A. Ludke, E. Bergmann, T. Norris, R.	Santa Maria Santa Maria UFRGS ATNF	An HI imaging survey of southern seyfert galaxies	20 w/BG105	3	4.0
AB937	Bohringer, H. Schuecker, P. Feretti, L. Giovannini, G. Govoni, F.	MPE MPE Bologna Bologna Bologna	Search for radio halos in REFLEX clusters	20	3	3.0
AB952	Brosius, J. Thompson, B. White, S.	NASA-GSFC NASA-GSFC Maryland	Coronal magnetography: coordinated observations with SOHO/CDS	2, 3.6, 6, 20 W/BT050	27, 30	20.0
AB963	Bower, G.C. Hjellming, R.M.	NRAO-Socorro NRAO-Socorro	Polarimetry of Cygnus X-1	2, 3.6, 6	26	12.0
AB968	Butler, B. Palmer, P.	NRAO-Socorro Chicago	Observing OH occultation events involving Comet S2 linear	20 line	17, 19	16.0
AC524	Cartwright, J.K. Taylor, G.B. Readhead, A.C.S. Pearson, T.J.	Caltech NRAO-Socorro Caltech Caltech	Polarization monitoring observations of 3C273	0.7, 1.3	13, 31	4.0
AC555	Cappa, C. Goss, M.	IAR NRAO-Socorro	Wolf-Rayet ring nebulae	6	3	7.0
AC556	Chen, Y. Zheng, X. Zhang, Q. Ho, P.T.P.	Nanjing Nanjing CfA CfA	Ammonia mosaic of OMC-2 and OMC-3	1.3	29	5.5
AD437	Dunn, D. dePater, I. Engel, C. Sault, R.	Berkeley Calif-Berkeley ATNF ATNF	Jupiter's atmosphere	1.3, 2 W/BG106/BG098	14, 15, 31	36.2
AF370	Falcke, H. Brunthaler, A. Bower, G. Aller, M. Aller, H. Teraszanta, H.	MPIfR MPIfR NRAO-Socorro Michigan Michigan Metsahovi	III Zw 2, a superluminal jet in a spiral galaxy	0.7, 1.3, 2, 3.6, 20, 90 W/BT050	1, 30	2.5
AG575	Greenhill, L.J. Chandler, C.J. Herrnstein, J.R. Reid, M.J.	CfA NRAO Renaissance Tech CfA	Orion BN/KL: the maser shell around source I	0.7 line	22	6.0
AG586	Gaensler, B.M. Gotthelf, E.V. Vasisht, G. Slane, P.O.	MIT Columbia JPL CfA	Anomalous X-ray pulsars	6	7	1.5
AG587	Gaensler, B. Crawford, F. Kaspi, V. Manchester, D. Camilo, F.	MIT MIT MIT ATNF Columbia	Parkes Multi-beam pulsars	6, 20	17, 28	3.0
AG593	Green, D.A.	MRAO	Newly identified Galactic SNR G353.9-2.0	3.6, 20, 90	10	3.5
AH669	Hjellming, R.M. Rupen, M.P. Mioduszewski, A.J.	NRAO-Socorro NRAO-Socorro JIVE-Socorro	Galactic black hole X-ray transients	1.3, 2, 3.6, 6, 20	6, 16, 18, 19, 21	10.1
AH709	Hjellming, R.M. Rupen, M.P. Narayan, R. Williams, R.K.	NRAO-Socorro NRAO-Socorro CfA U. Florida	Radio variability in V404 Cyg	3.6 W/BB124	20	14.0
AH710	Hatchell, J. Miller, T. Fuller, G.	Manchester Manchester Manchester	Shock associated SiO in high mass star forming regions	0.7	9, 10	10.0
AH724	Holzappel, W. Carlstrom, J. Dawson, K.	Calif.-Berkeley Chicago Calif.-Berkeley	Point source contamination of BIMA anisotropy fields	3.6, 6 W/MOVE/OP	1, 19	7.5
AH725	Hyman, S. Lazio, J. Kassim, N.	Sweet Briar College NRL NRL	A new galactic center transient?	6, 20 W/Pointing	15, 19	3.5
AI079	Iverson, R.J. Lewis, G.F. Padadopoulos, P. Barvainis, R.E.	University College Washington Leiden REB Research	Molecular gas in z=4 superluminous galaxy APM 0827+5255	0.7, 1.3, 6, 20	3	2.5

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AK509	Kulkarni, S.K. Frail, D. Galama, T.J. Bloom, J.S. Berger, E. Harrison, F.A.	Caltech NRAO-Socorro Caltech Caltech Caltech Caltech	Radio afterglows from gamma ray bursts	W/BM125	1,2,4,5,8,9, 13,15,21-24, 27,28	25.8
AL511	Lang, C.C. Goss, M.	NRAO/UCLA NRAO-Socorro	The Snake galactic center filament	3.6, 6 W/BG105	2	7.4
AL515	Ledlow, M. Owen, F.	UNM NRAO-Socorro	Search for giant, low-power FRI radio galaxies	20	23	6.0
AL516	Lim, J. Wen-Shuo, L. Ho, P.T.P.	Academia Sinica Taiwan Univ. CfA	HI Imaging of Seyfert galaxies	20	28	9.0
AL517	La Rosa, T.N. Lang, C.C. Lazio, T.J.W. Kassim, N.E. Anantharamaiah, K.R. Gross, C.	Kennesaw St. NRAO/UCLA NRL NRL Raman/NRAO-Socorro NRL	Polarimetric study of the galactic center source G359.85+0.39	6	5	6.0
AM653	Mohan, N.R. Anantharamaiah, K.R. Goss, M.	Raman Raman NRAO-Socorro	Radio recombination lines from Dwarf starburst galaxies	2 W/BD069	16	12.0
AM659	Massi, M. Menten, K.M.	MPIfR MPIfR	Day-to-day variation of T Tauri stars	1.3 W/BG105	1,3,5,7,8,10, 13,17	10.0
AM663	Motte, F. Schilke, P. Menten, K.M. Lis, D.	MPIfR MPIfR MPIfR Caltech	Mosaicing of active high mass star forming region W43	2, 3.6, 6	25	5.0
AM664	Mason, B.S. Myers, S.T. Udomprasert, P.S. Cartwright, J.K. Pearson, T.J. Readhead, A.C.S	Caltech NRAO-Socorro Caltech Caltech Caltech Caltech	VLA Observations of radio sources in CBI intrinsic anisotropy field	0.7, 1.3	7	9.0
AM665	McHardy, I. Uttley, P.	Southampton Southampton	Radio variability of the Seyfert galaxy NGC 4051	3.6, 6 W/BM125/BG106	8, 15, 24, 30	5.1
AM666	Moran, E.C. Laurent-Muehleisen, van Breugel, W. Becker, R.H.	Berkeley Calif.- Davis Lawrence Livermore Calif.-Davis	Origin of narrow line Seyfert 1 radio variability	1.3, 2, 3.6, 6, 20, 90	23, 31	13.0
AP400	Palmer, P. dePater, I. Snyder, L.	Chicago Calif-Berkeley Illinois	OH Imaging of Comet LINEAR (C/1999 S4)	20	2, 4, 9	21.0
AP402	Pisano, D.J. Wilcots, E.M.	Wisconsin Wisconsin	Fraction of isolated galaxies with companions	20	1, 9	10.0
AR431	Rand, R. Higdon, J. Duric, N. Lacey, C.	UNM Groningen New Mexico NRL	Thermal and non-thermal emission in the barred spiral galaxy M83	3.6, 6, 20	4, 5	9.6
AR432	Rosenberg, J. Schneider, S.	Massachusetts Massachusetts	HI imaging of low surface brightness galaxies	20 line	21	9.5
AR436	Roberts, M. Romani, R. Gaensler, B.	Stanford Stanford MIT	Unidentified GeV sources in the galactic plane	6, 20	20	6.5
AR440	Rudnick, L. Young, A. Makishima, K. Tshiro, M. Iyomoto, N. Kassim, N. Worrall, D.	Minnesota Minnesota Tokyo Univ Tokyo Univ Toyko Univ. NRL Bristol	Radio lobe physics - radio spectra and inverse compton x-rays	20, 90	10, 13	6.5
AR441	Rudnick, L. Young, A. Kassim, N. Slee, O.B. Sarazin, C. Andernach, H. Roy, A.	Minnesota Minnesota NRL ATNF Virginia Guanajuato MPIfR	Cluster "relic" physics - spectral and x-ray studies	6, 20, 90	26	4.5
AS568	Sramek, R. Weiler, K. VanDyk, S. Panagia, N.	NRAO-Socorro NRL UCLA STScI	Properties of radio supernovae	1.3, 2, 3.6, 6, 20	5	1.5

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS686	Saikia, D.J. Ishwara-Chandra, C.H.	NCRA-Pune NCRA-Pune	Giant radio sources	6, 20	24	6.5
AS688	Sjouwerman, L. Lindqvist, M. van Langevelde, H. Diamond, P. Winnberg, A.	JIVE Onsala JIVE Jodrell Bank Onsala	SiO masers in Galactic Center OH/IR stars	0.7	12, 13, 14	16.5
AS691	Schmitt, H.R. Wiklind, T. Antonucci, R. Kinney, A.L.	STScI Onsala Calif.-Santa Barbara NASA Headquarters	CS Mapping of the nuclear region of Seyfert Galaxies	0.7 W/Pointing/BT050	22, 29	8.0
AS693	Stocke, J.T. McLin, K.M. Gibson, B. Carilli, C. Hibbard, J. van Gorkom, J.	Colorado Colorado Colorado NRAO-Socorro NRAO-CV Columbia	HI in galaxies in the vicinity of local Ly A clouds	20	8	10.5
AS695	Shah, R.Y. Carilli, C. Wooten, H.A. Menten, K.	U. Va. NRAO-Socorro NRAO-CV MPIFR	DCN in the absorbing system of PKS1830-211	0.7 W/BT050	27, 29	16.0
AT245	Taylor, A.R. Dickey, J.M. McClure-Griffiths, N. Gaensler, B. Green, A. Heyer, M. Irwin, J. Jackson, J. Landecker, T. Brunt, C. Kerton, C. Lockman, F.J. Martin, P.G.	Calgary Minnesota Minnesota MIT Sydney Massachusetts NCRA/Queen's Boston DRAO DRAO DRAO NRAO-GB U. of Toronto	VLA Galactic plane HI survey	20 line	1,2,7,15,16, 22,24,27,28	64.4
AT246	Thompson, B. White, S. Thomas, R. Thompson, B. Davila, J.	NASA-GSFC Maryland NASA-GSFC NASA-GSFC NASA-GSFC	Electron emission measure calibration for solar EUV spectrometers	3.6, 6, 20	26	12.0
AT247	Thompson, M.A. Gibb, A.G.	Kent Leeds	Temperature structure of hot cores	1.3 W/BG106	30	7.4
AU083	Udomprasert, P.S. Mason, B.S. Myers, S.T. Pearson, T.J. Readhead, A.C.S.	Caltech Caltech NRAO-Socorro Caltech Caltech	Point sources towards Abell 478 and Abell 754	0.7, 1.3	2, 4	7.4
AV242	Venturi, T. Bardelli, S. Dallacasa, D. Tzioumis, T. Morganti, R. Hunstead, R.W.	Bologna Bologna Bologna ATNF-CSIRO NFRA Sydney	Radio halos in merging cluster A3562	20	10	4.0
AV244	Vourlidas, A. Cook, J.W. Bastian, T.S. Gary, D.E.	George Mason NRL NRAO-Socorro New Jersey Tech	Coronal active regions	3.6, 6, 20 W/BG105/BM125	1, 3, 5, 8	24.0
AW541	Wardle, M. Yusef-Zadeh, F. Roberts, D. Green, A. Lazendic, J.	Sydney Northwestern Illinois Sydney Sydney	OH absorption towards the W28 SNR	20	8	2.0
AY111	Yin, Q.-F. Huang, J.H. Zheng, W.	NRAO-CV Nanjing Johns Hopkins	Two newly discovered Wolf-Rayet Galaxies	2, 6, 20 W/BD069	15, 16	4.0
AY115	Yusef-Zadeh, F. Roberts, D. Wardle, M.	Northwestern Illinois Sydney	Extended nature of OH emission from G357.7+0.03	20	17	6.0
AZ126	Zijlstra, A. Walsh, J. Pequignot, D.	Manchester UMIST ESO Meudon	A planetary nebula in the Fornax dwarf spherical galaxy	1.3, 2, 3.6 W/BD069	11, 16	5.0
AZ128	Zhao, J-H. Bower, G. Goss, M.	Cfa NRAO-Socorro NRAO-Socorro	Monitoring Sgr A*	2,1.3,0.7	6, 16, 19	3.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BB124	Beasley, A.J. Herrnstein, J.R.	NRAO-CV Renaissance Tech.	Monitoring of WR140	3.6, 6, 20 Single antenna VLBI W/AH709	17, 20	12.9
BD069	Diamond, P.J. Kemball, A.J.	Manchester NRAO-Socorro	TX Cam: the final curtain	0.7 Single antenna VLBI W/AY111/AZ126/AM653	20, 16	10.0
BG098	Greenhill, L. Diamond, P.J. Moran, J.	CfA Manchester CfA	Maser motions in Orion BN/KL	0.7, Single antenna VLBI W/AD437	31	8.0
BG099	Gomez, J.-L. Agudo, I. Marscher, A.P. Marchenko, S. Alberdi, A. Garcia-Miro, C. Cawthorne, T.	IAA IAA Boston Boston IAA IAA Lancashire	Polarization of sources with compact stationary components	0.7, 1.3, 2	4	2.5
BG105	Giovannini, G. Feretti, L. Venturi, T. Cotton, W.D. Lara, L. Taylor, G.	Bologna Bologna Bologna NRAO-CV IAA NRAO-Socorro	VLBA observations of two compact symmetric objects	3.6, 6 Single antenna VLBI W/AL511/Test/AA246/AM659	3	10.1
BG106	Giovannini, G. Feretti, L. Venturi, T. Taylor, G. Lara, L. Cotton, W.D.	Bologna Bologna Bologna NRAO-Socorro IAA NRAO-CV	Second epoch of three symmetric radio galaxies	3.6, 6, 20 Single antenna VLBI W/AM665/AT247/AD437	30	5.4
BM125	Murgia, M. Dallacasa, D. Stanghellini, C. Fanti, R.	IRA-Bologna Bologna Noto Bologna	Spectral analysis of CSOs	3.6, 6, 20 Single antenna VLBI W/AV244/AK509/Test/BM125	8	18.1
BM127	Marscher, A.P. Cawthorne, T.V. Stirling, A. Gear, W.K. Stevens, J.A. Marchenko, S.G. Lister, M.L. Gabuzda, D.C. Yurchenko, A.V. Smith, P. Foster, J.R.	Boston Lancashire Lancashire Cardiff MRAO Boston JPL JIVE St. Petersburg KPNO HCRO	Evolution of polarized intensity of AGN at mm-optical wavelengths	0.7	20	2.0
BT050	Taylor, G. Hough, D. Venturi, T.	NRAO-Socorro Trinity Bologna	Faraday rotation measure in FR II radio galaxies	6 Single antenna VLBI W/AS691/AS695/BT050/Test/AB952	29	23.7
W075	Edwards, P. Lovell, J.E.J. Hirabayashi, H. Moellenbrock, G.A. Fujisawa, K. Jauncey, D. Reynolds, J. Tzioumis, A. Tornikoski, M.	ISAS ATNF ISAS NRAO-GB NAO ATNF ATNF ATNF Metsahovi	High brightness temperature source PKS 1921-293	6 Phased array VLBI	4	7.2
W079	Meier, D.L. Tingay, S.J. Preston, R.A. Murphy, D.W. Jones, D.L. Fujisawa, K. Hirabayashi, H. Kobayashi, H. Edwards, P.	JPL ATNF JPL JPL JPL NAO ISAS NAO ISAS	Centaurus A	6 Phased array VLBI	22, 23	8.3

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
	Staff	NRAO	Baselines, Pointing, Delays			49.8
			Maintenance			47.8
			Move/Operations			14.9
			Software			27.8
			Student observations		20, 27	3.1
			General tests			28.5

The average downtime was 6.8%.

The array was scheduled for 100.0% (746.1 hours)
586.5 hours (78.6% of time) for astronomical programs
84.0 hours (11.3% of time) for tests/calibration
75.6 hours (10.1% of time) for maintenance
Total 746.1 hours (100.0%) scheduled.

Array was in the DnC configuration from July 1 through July 17 .

Array was in the D configuration from July 17 through July 31.

Total number of programs was 66.

The following independent proposals shared simultaneous observing time (103.5 hours total simultaneous observing):

Projects	Hours
AA246/BG105	4.0
AB952/BT050	5.6
AD437/BG106	2.0
AD437/BG098	8.0
AF370/BT050	1.5
AH709/BB124	10.4
AH724/MOVE/OP	4.5
AH725/MOVE/OP	2.0
AK509/BM125	1.0
AL511/BG105	1.4
AM653/BD069	3.0
AM658/BG105	1.0
AM659/MOVE/OP	1.0
AM665/BM125	1.0
AM665/BT050	5.9
AS691/BT050	5.1
AS693/BM125	9.5
AS695/BT050	8.0
AT247/BG106	7.4
AV244/BG105	3.1
AV244/BM125	4.1
AY111/BD069	1.0
AZ126/BD069	4.0
Test/BG105	0.6
Test/BM125	2.5
Test/BT050	3.5
Test/move/op	2.4

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB937	Bohringer, H. Schuecker, P. Feretti, L. Giovannini, G. Govoni, F.	MPE MPE Bologna Bologna Bologna	Search of radio halos in REFLEX clusters	20	17	3.0
AB938	Bower, G.C. Falcke, H. Backer, D.C.	NRAO-Socorro MPIfR Calif.-Berkeley	Circular polarization in Sgr A*	0.7, 1.3, 2, 3.6	4, 14	9.0
AB941	Brogan, C.L. Troland, T.H.	Kentucky Kentucky	HI Zeeman Observations Toward M16	20	1	6.5
AB951	Ballantyne, D.R. Martin, P.G. Kerton, C.R.	Cambridge U. of Toronto DRAO	Blister HII region KR 140	6	13	2.5
AB968	Butler, B. Palmer, P.	NRAO-Socorro Chicago	Observing OH occultation events involving Comet S2 linear	20 line	23	6.0
AC524	Cartwright, J.K. Taylor, G.B. Readhead, A.C.S. Pearson, T.J.	Caltech NRAO-Socorro Caltech Caltech	Polarization monitoring observations of 3C273	0.7, 1.3	2, 15, 30	7.6
AC538	Carilli, C. Menten, K. Yun, M.S.	NRAO-Socorro MPIfR NRAO-Socorro	Imaging the CO Emission from the z=4.4 QSO BRI 1335-0417	0.7, 3.6	6	4.5
AC540	Clarke, T.	NRAO-Socorro	Faraday rotation in extended radio sources in Abell clusters	6, 20	12, 15	4.0
AC545	Clarke, T. Ensslin, T.	NRAO-Socorro MPIfR	Faraday rotation in Abell 2256	20 w/BPO66	17	8.5
AC548	Clarke, T.	NRAO-Socorro	Rotation measure of distant radiosources behind nearby galaxy clusters	20	15	9.5
AC552	Chandler, C. Richer, J. Gueth, F.	NRAO-Socorro Cambridge MPIfR	The L1157 and L1448 protostellar jets	0.7	16	8.0
AD429	Dennett-Thorpe, J. Best, P.N. Kaiser, C.R.	Groningen Leiden MPIAP-Munich	Depolarization in FR II radio sources	6	9, 12	9.0
AE136	Edge, A.C. Frayer, D.	Durham Caltech	Search for CS emission in cooling flows	0.7	24, 25	16.0
AF370	Falcke, H. Brunthaler, A. Bower, G. Aller, M. Aller, H. Terasranta, H.	MPIfR MPIfR NRAO-Socorro Michigan Michigan Metsahovi	III Zw 2, a superluminal jet in a spiral galaxy	0.7, 1.3, 2, 3.6, 20, 90	8	1.5
AG575	Greenhill, L.J. Chandler, C.J. Herrnstein, J.R. Reid, M.J.	CfA NRAO-Socorro Renaissance Tech CfA	Orion BN/KL: the maser shell around source I	0.7 line	3	4.5
AG587	Gaensler, B. Crawford, F. Kaspi, V. Manchester, D. Camilo, F.	MIT MIT MIT ATNF Columbia	Parkes Multi-beam pulsars	6, 20	27, 30	8.0
AG591	Gottesman, S.T. Malphrus, B.K. Simpson, C.E. Iyer, M. Ratay, D.	Florida Morehead Florida Florida Florida	Tidal debris in colliding galaxies	20	11	12.0
AH669	Hjellming, R.M. Rupen, M.P. Mioduszewski, A.J.	NRAO-Socorro NRAO-Socorro ATNF	Galactic black hole X-ray transients	1.3, 2, 3.6, 6, 20	8, 15, 20, 23, 28	9.5
AH685	Haarsma, D.B. Hewitt, J. Langston, G. Moore, C.	Calvin College MIT NRAO-GB Groningen	Time delay monitoring of gravitational lens 2016+112	3.6, 6	14	1.5
AH702	Healy, K.R. Claussen, M. Hester, J.	Arizona State NRAO-Socorro Arizona State	Water maser activity in young low-mass stars in HII regions	1.3	6, 13	5.5
AK485	Kulkarni, S.R. Frail, D.A. Bloom, J.S. Djorgovski, S.G. Harrison, F.A.	Caltech NRAO-Socorro Caltech Caltech Caltech	Radio afterglows of gamma ray bursts	2, 3.6, 6, 20	2,6,8-11,13- 16,26	21.7
AK507	Koopmans, L.V.E. deBruyn, A.G. Fassnacht, C.D.	Groningen NFRA NRAO-Socorro	Radio microlensing in the gravitational lens B1600+434?	1.3, 2, 3.6	2,4,6,10,13, 16,19	7.8

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AK509	Kulkarni, S.K. Frail, D. Galama, T.J. Bloom, J.S. Berger, E. Harrison, F.A.	Caltech NRAO-Socorro Caltech Caltech Caltech Caltech	Radio afterglows from gamma ray bursts		19,20,22-24, 26-30	14.9
AK511	Krishnamurthi, A. Linsky, J.L. Osten, R. Brown, A. Gagne, M. Ayres, T.R.	Colorado Colorado Colorado West Chester U. Colorado	Observations of AU mic and TZ CrB with Chandra	2, 3.6, 6 W/BB124	18	12.0
AL490	Laine, S. Kotilainen, J.K. Norris, R.P. Reunanen, J. Ryder, S.	Kentucky Tuorla ATNF Tuorla Hawaii	Seyfert and starburst galaxies with IR line images	3.6	4	2.0
AL509	Lim, J. Ho, P.T.P.	Academia Sinica CfA	HI in low-redshift quasars	20 line	13, 17	5.0
AL511	Lang, C.C. Goss, M.	NRAO/UCLA NRAO-Socorro	The Snake galactic center filament	3.6, 6	16	3.0
AM645	Menten, K.M. Wagner, S.J. Appenzeller, I. Carilli, C. Bertoldi, F. Fricke, K.J.	MPIFR Heidelberg Heidelberg NRAO-Socorro MPIFR Gottigen	Survey of the FORS VLT deep field	6 W/TEST	1, 3	12.0
AM657	McKean, J.P. Jackson, N.J. Browne, I.W.A. Wilkinson, P.N. Mao, S. Helbig, P.	Jodrell bank Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank	Spectral indices at 5-12 mJy	1.3, 2, 3.6, 6 W/MOVE/OP	24	16.0
AM659	Massi, M. Menten, K.M.	MPIFR MPIFR	Day-to-day variation of T Tauri stars	1.3	19, 23, 24, 25, 27, 29	6.0
AM661	Monnier, J.D. Greenhill, L.J. Tuthill, P.G. Danchi, W.C.	CfA CfA Sydney NASA/GSFC	Spectral variability of the WR 112 binary system	0.7, 1.3, 2, 3.6, 6, 20	19,23,25,27, 29	4.8
AM665	McHardy, I. Uttley, P.	Southampton Southampton	Radio variability of the Seyfert galaxy NGC 4051	3.6, 6 W/MOVE/OP	15, 26	2.0
AM666	Moran, E.C. Laurent-Muehleisen, van Breugel, W. Becker, R.H.	Berkeley Calif.,-Davis Lawrence Livermore Calif.,-Davis	Origin of narrow line Seyfert 1 radio variability	1.3, 2, 3.6, 6, 20, 90	26	5.0
AO147	Ogley, R.N. Mirabel, I.F. Chaty, S. Marti, J. Rodriguez, L.F. Stirling, A.M.	Saclay Saclay Open University U. Jaen UNAM Lancashire	Super-soft X-ray white dwarf binaries	3.6, 6	27, 27	5.0
AO151	O'Neil, K. Bothun, G.D. van Gorkom, J.	Arecibo Oregon Columbia	HI in four very HI rich low surface brightness galaxies	20 line	2, 4, 5, 10	36.0
AO154	O'Brien, T.	Jodrell Bank	Classical nova V1494 Aql	20, 6, 3.6	7	2.0
AP400	Palmer, P. dePater, I. Snyder, L.	Chicago Calif-Berkeley Illinois	OH Imaging of Comet LINEAR (C/1999 S4)	20	30	5.0
AR434	Rosenberg, J. Schneider, S.	Massachusetts Massachusetts	VLA Imaging of low HI mass galaxies	20 line	4, 5, 8, 8, 9, 10	51.0
AR436	Roberts, M. Romani, R. Gaensler, B.	Stanford Stanford MIT	Unidentified GeV sources in the galactic plane	6, 20	27	3.0
AR437	Rodriguez, L.F. Girat, J.M. Curiel, S.	UNAM U.Illinois/Cham. UNAM	IR protostar YLW 15	0.7, 3.6, 6	26	2.5
AR438	Reid, M Menten, K.	CfA MPIFR	Is the radio emission from long period variables stable?	3.6 W/BG098	27, 29, 30	10.9
AS568	Sramek, R. Weiler, K. VanDyk, S. Panagia, N.	NRAO-Socorro NRL UCLA STSci	Properties of radio supernovae	1.3, 2, 3.6, 6, 20	15	2.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AU082	Umana, G. Trigilio, C. Stanghellini, C. Scuderj, S.	Noto Noto Noto Catania	Radio spectrum of two stars in Cyg OB 2	0.7, 1.3, 2, 3.6, 6	29	10.1
AW362	White, S.	Maryland	The stellar activity cycle on active stars	3.6, 6, 20	23, 26	3.5
AW528	van der Walt, J. Churchwell, E. Gaylard, M. Goedhardt, S.	Potchefstroom Wisconsin Hartebeesthoek Hartebeesthoek	Continuum emission from class II methanol masers	3.6	10	6.0
AW530	Wrobel, J.M. Walker, R.C. Schwartz, C. Laing, R.A. Bridle, A.H.	NRAO-Socorro NRAO-Socorro Calif.-Santa Barbara Oxford NRAO-CV	Proper motions in the FRI radio galaxy M84	6	3	8.0
AW531	Wolter, A. Rector, T. Maccacaro, T. Stocke, J.	Brera NOAO Brera Colorado	Radio spectral properties of x-ray selected BL lac objects	2, 3.6, 6, 20	13, 16	13.0
AY086	Yun, M.S. del Olmo, A. Huchmeier, W.K. Perea, J.D. Verdes-Montenegro, L.	NRAO-Socorro Andalucia MPIR, Bonn Andalucia Andalucia	HI Clouds in the densest compact groups	21	8,9,13	4.0
AY102	Yun, M. Hibbard, J.	NRAO-Socorro NRAO-CV	Giant radio plumes around IR luminous galaxies	20	12	2.5
AY111	Yin, Q.F. Huang, J.H. Zheng, W.	NRAO-CV Nanjing Johns Hopkins	VLA Observations of two newly discovered Wolf-Rayet Galaxies	20,6,2	8,14	2.3
AY115	Yusef-Zadeh, F. Roberts, D. Wardle, M.	Northwestern Illinois Sydney	Extended nature of OH emission from G357.7+0.03	20	23	5.0
AZ128	Zhao, J-H. Bower, G. Goss, M.	CFA NRAO-Socorro NRAO-Socorro	Monitoring Sgr A*	2, 1.3, 0.7	20, 28	2.0
BB116	Beasley, A.J. Herrnstein, J.R.	NRAO-CV Renaissance Tech	Non-thermal emission from O supergiants	3.6 Phased array VLBI	25	10.2
BB123	Brotherton, M.S. Lacy, M. Laurent-Muehleisen, Becker, R.H. Gregg, M. Beasley, A.	NOAO Calif.-Davis Calif.-Davis Calif.-Davis Calif.-Davis NRAO-CV	Radio bright broad absorption line quasars	20 Phased array VLBI	1	12.0
BB124	Beasley, A.J. Herrnstein, J.R.	NRAO-CV Renaissance Tech.	Monitoring of WR140	3.6, 6, 20 Single antenna VLBI W/AK511, TEST	18, 20	14.0
BD069	Diamond, P.J. Kemball, A.	Jodrell Bank NRAO-Socorro	TX Cam	0.7	27	1.5
BF058	Falcke, H. Reid, M. Henkel, C. Brunthaler, A.	MPIFR CFA MPIFR MPIFR	Towards measuring proper motions of local group galaxies	1.3 Phased array VLBI	20	12.0
BG086	Gomez, J.L. Marscher, A.P. Alberdi, A. Gabuzda, D.C.	IAA Boston IAA JIVE	Lac object 0735+178	0.7, 1.3, 2 W/TEST	1	2.0
BG098	Greenhill, L. Diamond, P.J. Moran, J.	CFA Jodrell Bank CFA	Maser motions in Orion, BN/KL	0.7 Single antenna VLBI W/BG098	30	5.1
BL058	Lonsdale, C. Diamond, P. Smith, H. Lonsdale, C.	Haystack Jodrell Bank Calif.-San Diego Caltech-IPAC	Radio supernovae in OH megamaser galaxy Arp220	3.6, 6, 20 Phased array VLBI	11	12.8
BM124	Mundell, C.G. Wilson, A.S. Ulvestad, J.S. Roy, A.L.	Maryland Maryland NRAO-Socorro MPIFR	Subparsec scale thermal emission from Seyfert accretion disks: Mkn 3	3.6 Phased array VLBI	18	13.0
BN013	Nagar, N.M. Peck, A.B. Mundell, C.G.	Maryland MPIFR Maryland	Neutral hydrogen absorption in the LINER NGC 6500	20 Phased array VLBI	12	10.2

VLA Utilization Report June 2000

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BP066	Palen, S.	Washington	OH main line masers in AGB stars and in PPN	20 Single antenna VLBI W/BU019, AC545	17	6.2
BU019	Uson, J. Beasley, T.	NRAO-CV NRAO-CV	HI absorption in 0902+343 at z=3.4	90 Phased array VLBI	12, 16, 17, 19	7.8
GG041	Gabuzda, D.C. Gurvits, L.I.	JIVE JIVE	Magnetic field structure in high redshift quasars	3.6, 6	5, 6	5.0
GM035	Marcaide, J.M. Perez-Torres, M.A. Guirado, J.C. Alberdi, A. Ros, E. Diamond, P.J. Shapiro, I.I. Preston, R.A. Schilizzi, R.T. Mantovani, F. Trigilio, C. Van Dyk, S. Weiler, K.W. Sramek, R.A. Whitney, A.R.	Valencia IRA Italy Valencia IAA MPIfR Jodrell Bank Cfa JPL JIVE Bologna Noto UCLA NRL NRAO-Socorro Haystack	Monitoring of the expansion of SN 1993J at 6 and 18cm	6, 20 Phased array VLBI	6	10.0
GR021	Paredes, J.M. Ribo, M. Marti, J. Massi, M.	Barcelona Barcelona U. Jaen MPIfR	A possible new microquasar: LS 5039	6 Phased array VLBI	2, 7	17.5
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Software Summer student observation General tests		29	49.0 42.8 26.7 7.0 1.0 48.4

The average downtime was 7.9%.

The array was scheduled for 100.0% (722.0 hours)
 555.1 hours (76.9% of time) for astronomical programs
 117.1 hours (16.2% of time) for tests/calibration
 49.8 hours (6.9% of time) for maintenance
 Total 722.0 hours (100.0%) scheduled.

Array was in the C configuration from June 1 through June 19 .

Array was in the DnC configuration from June 19 through June 30.

Total number of programs was 67.

The following independent proposals shared simultaneous observing time (85.5 hours total simultaneous observing):

Projects	Hours
AC945/BP066	6.2
AK511/BB124	8.5
AM645/TEST	2.5
AM657/MOVE/OP	5.7
AM661/MOVE/OP	3.0
AP400/BG098	5.0
AR438/BG098	0.1
BF058/MOVE/OP	1.0
BG086/TEST	0.4
TEST/BB124	0.5
TEST/BB124	2.9

VLA Utilization Report May 2000

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB938	Bower, G.C. Falcke, H. Backer, D.C.	NRAO-Socorro MPIFR Calif.-Berkeley	Circular polarization in Sgr A*	0.7, 1.3, 2, 3.6	2, 27	9.5
AB940	Bagchi, J.	IUCAA	Extended sources in a distant galaxy cluster	90	12	2.5
AB941	Brogan, C.L. Troland, T.H.	Kentucky Kentucky	HI Zeeman Observations Toward M16	20	25, 31	9.5
AC524	Cartwright, J.K. Taylor, G.B. Readhead, A.C.S. Pearson, T.J.	Caltech NRAO-Socorro Caltech Caltech	Polarization monitoring observations of 3C273	0.7, 1.3	4, 18	4.0
AC545	Clarke, T. Ensslin, T.	NRAO MPIFR	Faraday rotation in Abell 2256	20	28	8.0
AD434	Dickey, J.M. McClure-Griffiths, N Taylor, A.R. Gibson, S. Landecker, T. Lockman, F.J. Jackson, J. Heyer, M. Gaensler, B. Green, A.	Minnesota Minnesota Calgary Calgary DRAO NRAO-GB Boston Massachusetts MIT Sydney	Galactic plane HI survey - first quadrant	20	18	10.0
AD435	Dalcanton, J. Weiner, B. Hibbard, J. Bernstein, R. West, A.	Washington Carnegie NRAO-CV Carnegie Washington	Rotation curves of edge-on LSB galaxies	20	13, 30	24.0
AF370	Falcke, H. Brunthaler, A. Bower, G. Aller, M. Aller, H. Terasanta, H.	MPIFR MPIFR NRAO-Socorro Michigan Michigan Metsahovi	III Zw 2, a superluminal jet in a spiral galaxy	0.7, 1.3, 2, 3.6, 20, 90	5, 28	2.0
AG575	Greenhill, L.J. Chandler, C.J. Herrnstein, J.R. Reid, M.J.	Cfa NRAO Renaissance Tech Cfa	Orion BN/KL: the maser shell around source I	0.7 line	16	6.0
AG586	Gaensler, B.M. Gotthelf, E.V. Vasisht, G. Slane, P.O.	MIT Columbia JPL CFA	Anomalous X-ray pulsars	20, 90	9	3.0
AG590	van Gorkom, J. Poggianti, B. Wilcots, E. Verheijen, M. Zabludoff, A. Guhathakurta, P.	Columbia Padova Wisconsin NRAO-Socorro Arizona Santa Cruz	An HI survey of clusters in the local universe	20	...	114.0
AH669	Hjellming, R.M. Rupen, M.P. Mioduszewski, A.J.	NRAO-Socorro NRAO-Socorro ATNF	Galactic black hole X-ray transients	1.3, 2, 3.6, 6, 20	5, 13, 21, 31	8.5
AH685	Haarsma, D.B. Hewitt, J. Langston, G. Moore, C.	Calvin College MIT NRAO-GB Groningen	Time delay monitoring of gravitational lens 2016+112	3.6, 6	5, 22	3.0
AH689	Hofner, P. Cesaroni, R. Rodriguez, L.F. Marti, J.	Arecibo/UPR Arcetri UNAM U. Jaen	High mass protostar IRAS 20126+4104	0.7, 1.3	11, 12	2.0
AK485	Kulkarni, S.R. Frail, D.A. Bloom, J.S. Djorgovski, S.G. Harrison, F.A.	Caltech NRAO-Socorro Caltech Caltech Caltech	Radio afterglows of gamma ray bursts	2, 3.6, 6, 20	...	25.0
AK507	Koopmans, L.V.E. deBruyn, A.G. Fassnacht, C.D.	Groningen NFRA NRAO-Socorro	Radio microlensing in the gravitational lens B1600+434?	1.3, 2, 3.6	...	13.5
AL499	Lacy, M. Ridgway, S.	Calif.-Davis Johns Hopkins	Radio optical alignments in less luminous radio sources	3.6, 20	15, 21	2.5
AL500	Laing, R.A. Parma, P. de Ruiter, H.R. Bridle, A.H. Fanti, R.	Oxford Bologna Bologna NRAO-CV Bologna	Decelerating relativistic jets in FRI radio galaxies	3.6	14, 18	6.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AL509	Lim, J. Ho, P.T.P.	Academia Sinica Cfa	HI in low-redshift quasars	20 line	2, 6, 11, 28	12.0
AL510	Lynds, R. O'Neil, E.J.	NOAO NOAO	6-cm continuum observations of NGC 6745	6	27	8.5
AM645	Menten, K.M. Wagner, S.J. Appenzeller, I. Carilli, C. Bertoldi, F. Fricke, K.J.	MPIfR Heidelberg Heidelberg NRAO-Socorro MPIfR Gottingen	Survey of the FORS VLT deep field	6	21, 22	12.0
AM649	Matthews, L.D. van Driel, W. Cox, A. Uson, J.	NRAO Paris Beloit NRAO-CV	HI Observations of Superthin galaxies	20	26, 27, 28, 29, 30	48.0
AQ149	Owen, F.N.	NRAO-Socorro	Cluster radio halo candidates	20	15, 17	6.0
AP380	Pooley, G.G. Hardcastle, M.J. Riley, J.M. Alexander, P. Gilbert, G.	MRAO Bristol MRAO MRAO MRAO	Radio jets of FR II radio sources	3.6, 6	4	1.5
AP392	Perlman, E. Jones, L. Scharf, C. Ebeling, H. Horner, D. Fairley, B.	STScI Birmingham STScI Hawaii GFSC-Umd Birmingham	Cluster radio galaxies at high redshifts	20	19, 25	24.0
AP394	Pooley, G.G. Riley, J.M. Alexander, P. Gilbert, G. Hardcastle, M.J.	MRAO MRAO MRAO MRAO Bristol	Radio jets and dynamics of FR II radio sources	3.6	19	1.0
AP395	Perlman, E. Landt, H. Padovani, P.	STScI STScI STScI	X-ray bright flat spectrum radio quasars	20	1	9.0
AR429	Roberts, M.S. Hogg, D.E.	NRAO-CV NRAO-CV	Mild tidal interactions between galaxies	20	29	8.0
AR432	Rosenberg, J. Schneider, S.	Massachusetts Massachusetts	HI imaging of low surface brightness galaxies	20 line	12	14.0
AS568	Sramek, R. Weiler, K. VanDyk, S. Panagia, N.	NRAO-Socorro NRL UCLA STScI	Properties of radio supernovae	1.3, 2, 3.6, 6, 20	12, 24	2.0
AS680	Skinner, S. Gagne, M.	Colorado West Chester U.	Simultaneous VLA/Chandra observations of the Rho Oph area	3.6, 6	15	8.0
AS683	Su, Y.N. Lim, J. Ho, P.T.P.	NCU (Taiwan) Academia Sinica Cfa	The Free-Free emission of candidate massive protostars	0.7, 1.3, 2, 3.6	5	5.5
AT237	Thomas, H. Green, D.A. Alexander, P. Eales, S.	MRAO MRAO MRAO Cardif	HI observations of galaxies in the JCMT/SCUBA galaxy survey	20	9	2.5
AU072	Uson, J.M. van Gorkom, J.H. Shambrook, A.	NRAO-CV Columbia Calif.-SantaCruz	HI Mapping of Abell 2029	20 line	3, 4, 9, 10, 11	45.0
AV241	Vergani, D. Dettmar, R.J. Klein, U.	Bonn University Bochum Bonn University	HI in disk galaxies with merging bulges	20	16	8.0
AW535	Wilcots, E.M. Armandroff, T. Caldwell, N.	Wisconsin NOAO Whipple	Gas content of F8D1, a low surface brightness galaxy in the M81 grp	20	20	16.0
AW537	Willson, R.F. Erdelyi, R. Doyle, G.	Tufts Sheffield Armagh	Microflaring on the Sun	3.6, 6	6, 7, 8	15.0
AY102	Yun, M. Hibbard, J.	NRAO-Socorro NRAO-CV	Giant radio plumes around IR luminous galaxies	20	9, 22	12.0
AY111	Yin, Q.-F. Huang, J.H. Zheng, W.	NRAO-CV Nanjing Johns Hopkins	Two newly discovered Wolf-Rayet Galaxies	6	2, 4	4.0
AZ122	van Zee, L. Salzer, J.J. Skillman, E.D.	DAO Wesleyan Minnesota	BCD Rotation curves: is the mass distribution centrally concentrated	20 line	25	6.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AZ124	Zwaan, M. van Dokkum, P. Verheijen, M. Briggs, F.	Groningen Caltech NRAO-Socorro Groningen	HI Imaging of Abell galaxy cluster 1689 at z=0.181	20	0, 1, 2	20.0
BB124	Beasley, A.J. Herrstein, J.R.	NRAO-CV Renaissance Tech	Monitoring of WR140	3.6, 6, 20 Single antenna VLBI	11, 24	14.0
BC101	Claussen, M.J. Goss, M. Desai, K.M. Frail, D.A.	NRAO-Socorro NRAO-Socorro Renaissance Tech NRAO-Socorro	1720 MHz OH masers in IC 443	20 Phased array VLBI	1	6.0
BD062	Diamond, P.J. Kemball, A.J.	Jodrell Bank NRAO-Socorro	TX Cam: the sequel	0.7 Single antenna VLBI	20, 21	10.0
BJ033	Jones, D. Wehrle, A.E.	JPL JPL	Search for parsec-scale absorption in NGC 6251	2, 3.6, 6, 20 Single antenna VLBI	29, 30	24.0
BK073	Kellermann, K. Biretta, J. Owen, F. Junor, B.	NRAO-CV STScI NRAO-Socorro New Mexico	Kinematics of parsec and subparsec structure of M87 jet	2 Single antenna VLBI	9, 8	13.0
BR067	Ratner, M.I. Bartel, N. Bietenholz, M.F. Lebach, D.E. Lestrade, J.-F. Ransom, R.R. Shapiro, I.I.	CfA York York CfA Meudon York U. CfA	Astronomy of 1M Peg in 2000 for the gravity probe-b mission	2, 3.6, 6 Phased array VLBI	15	12.0
BS078	Sanchez, C.C. Desmurs, J.F. Bujarrabal, V. Colomer, F. Alcolea, J.	OAN OAN OAN OAN OAN	SiO masers from the protoplanetary nebula OH231.8+4.2	0.7	15	2.0
BY012	Yi, J. Booth, R.S. Winnberg, A. Humphreys, E.M.L. Conway, J. Diamond, P.J.	Onsala Onsala Onsala Onsala Onsala Jodrell Bank	v=1 and v=2 SiO masers in Mira variables R Cas and TX Cam	0.7 Single antenna VLBI	12	12.0
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Software Standard Field Observation General tests		26	56.1 56.0 31.6 9.0 38.5

The average downtime was 7.6%.

The array was scheduled for 100.0% (746.1 hours)
572.3 hours (76.7% of time) for astronomical programs
87.7 hours (11.8% of time) for tests/calibration
86.0 hours (11.5% of time) for maintenance
Total 746.0 hours (100.0%) scheduled.

Array was in the C configuration from April 1 through April 30 .

The following independent proposals shared simultaneous observing time (84.4 hours total simultaneous observing):

Projects	Hours
AB940/BY012	2.5
AC941/BB124	7.6
AC545/BJ033	8.0
AD435/BJ033	3.9
AG590/BD062	2.8
AG590/BK037	11.1
AH689/BY012	0.5
AK485/BD062	1.0
AK507/BJ033	1.0
AL500/MOVE/OP	1.1
AL509/TE017	2.9
AM645/BD062	4.3
AM649/BJ033	2.4
AM649/BJ033	2.1
AP392/MOVE/OP	7.5
AR429/BJ033	1.8
AR432/BY012	9.2
AW535/MOVE/OP	0.4
BASELINE/TEST	2.7
POINTING/BJ033	5.0
SOFTWARE/TEST	3.0
STANDARD FIELD/BB124	2.9
TE017/SOFTWARE	0.1
TEST/TEST	1.7

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Prog#	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB938	Bower, G.C. Falcke, H. Backer, D.C.	NRAO-Socorro MPIFR Calif.-Berkeley	Circular polarization in Sgr A*	0.7, 1.3, 2, 3.6 w/BM126	3, 8, 9, 14, 25	18.6
AB942	Bower, G.C. Falcke, H.	NRAO-Socorro MPIFR	Polarization of radio sources in nearby galaxies	3.6	4	12.0
AB943	Best, P. van Dokkum, P. Franx, M.	Leiden Caltech Leiden	The z=0.83 cluster MS 1054-03	3.6 w/BM126	3, 6, 7	30.4
AB947	Bosma, A. Athanassoula, E.	Marseille Marseille	21cm line study of the galaxy NGC 4030	20 line	1	8.5
AC524	Cartwright, J.K. Taylor, G.B. Readhead, A.C.S. Pearson, T.J.	Caltech NRAO-Socorro Caltech Caltech	Polarization monitoring observations of 3C273	0.7, 1.3	5	2.9
AC551	Ciliegi, P. Comastri, A. Vignali, C. Fiore, F. Giommi, P. Antonelli, A.	Bologna Bologna Bologna Rome Observatory Rome Observatory Rome Observatory	HELLAS x-ray sources	6 w/BP61	10	18.0
AC552	Chandler, C. Richer, J. Gueth, F.	NRAO-Socorro Cambridge MPIFR	The L1157 and L1448 protostellar jets	0.7	14	10.0
AC553	Cote, S. Broadhurst, T. Carignan, C. Freeman, K. Wyse, R.	NRC Calif.-Berkeley Montreal Mt. Stromlo Johns Hopkins	HI mapping of galaxies associated with nearby Ly α absorbers	20	16, 20	24.0
AF367	Feretti, L. Govoni, F. Giovannini, G.	Bologna Bologna Bologna	New radio halos and relics from NVSS	20	28	12.0
AF370	Falcke, H. Brunthaler, A. Bower, G. Aller, M. Aller, H. Terasanta, H.	MPIFR MPIFR NRAO-Socorro Michigan Michigan Metsahovi	III Zw 2, a superluminal jet in a spiral galaxy	0.7, 1.3, 2, 3.6, 20, 90 w/BM126	6	1.9
AG581	Gopalswamy, N. Lara, A. Thompson, B.J.	Catholic Univ. Catholic Univ. NASA-GSFC	Search for radio counterparts of coronal Moreton waves	20, 90 w/BM126	1, 2, 3, 8	33.0
AG584	Gaensler, B. McLaughlin, M. Nicastro, L.	MIT Cornell CNR	The pulsating x-ray source SAX J0635+0533	6, 20	25	4.4
AG588	Gaensler, B. Slane, P. Schulz, N. Kassim, N.	MIT CFA MIT NRL	Search for a shell around the Crab-like SNR G21.5-0.9	20	15	2.0
AH669	Hjellming, R.M. Rupen, M.P. Mioduszewski, A.J.	NRAO-Socorro NRAO-Socorro JIVE-Socorro	Galactic black hole X-ray transients	1.3, 2, 3.6, 6, 20 w/BM126	4, 6, 7, 9, 15, 1 9, 27, 29	13.6
AH685	Haarsma, D.B. Hewitt, J. Langston, G. Moore, C.	Calvin College MIT NRAO-GB Groningen	Time delay monitoring of gravitational lens 2016+112	3.6, 6	10	1.5
AH695	Hunter, D. Hunsberger, S.	Lowell Lowell	HI in irregulars without ordered rotation	20	9	6.0
AH702	Healy, K.R. Claussen, M. Hester, J.	Arizona State NRAO-Socorro Arizona State	Water maser activity in young low-mass stars in HII regions	1.3 w/BM126	2, 4, 19	4.3
A1079	Ivion, R.J. Lewis, G.F. Padadopoulos, P. Barvainis, R.E.	University College Washington Leiden REB Research	Molecular gas in z=4 superluminous galaxy APM 0827+5255	0.7, 1.3, 6	23, 24	26.0
AK485	Kulkarni, S.R. Frail, D.A. Bloom, J.S. Djorgovski, S.G. Harrison, F.A.	Caltech NRAO-Socorro Caltech Caltech Caltech	Radio afterglows of gamma ray bursts	2, 3.6, 6, 20 w/BM126, BD60	4, 12, 13, 15, 1 8	11.2

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AK503	Kolpak, M. Jackson, J. Banja, T. Clemens, D. Simon, R. Heyer, M. Dickey, J.M. McClure-Griffiths, N	Boston Boston Boston Boston Boston Massachusetts Minnesota Minnesota	HI absorption toward sources from the BU/UMass Galactic Ring Survey	20 line w/BM126	6	5.2
AK507	Koopmans, L.V.E. deBruyn, A.G. Fassnacht, C.D.	Groningen NFRA NRAO-Socorro	Radio microlensing in the gravitational lens B1600+434?	1.3, 2, 3.6 w/BM126, BB124	2,4,7,10,15, 20,22,26,29	10.0
AL511	Lang, C. Goss, M.	NRAO-Socorro NRAO-Socorro	Intrinsic magnetic field orientation and HII environment of the Snake (G359.1-0.2)	6,3.6 w/BM126	7	2.0
AM628	Mirabel, F. Rodriguez, L.F. Dhawan, V.	Saclay UNAM NRAO-Socorro	Coordinated VLA and XMM observations of GRS 1915+105	2, 3.6, 6 w/BM126	17, 21, 22, 23	12.5
AM642	Dhawan, V. Mirabel, F. Gerard, E. Hjellming, R. Marti, J. Ogley, R. Pooley, G. Rodriguez, L.F.	NRAO-Socorro Saclay Meudon NRAO-Socorro Jaen Saclay Cambridge UNAM	Search for new microquasars	3.5	2	5.7
AN088	Nindos, A. White, S. Kundu, M. Gelfreikh, G.B.	Maryland Maryland Maryland Pulkova	Search for oscillations in sunspot microwave sources	2, 3.6 w/BM126, BD62	7, 21	20.0
AN092	Nagar, N.M. Falcke, H. Wilson, A.S.	Maryland MPIFR Maryland	M89 and its 10' optical jet	20	5	3.1
AO144	Owen, F. Eilek, J.	NRAO-Socorro NMIMT	High dynamic range 20cm imaging of the M87 halo	20	2	8.0
AO149	Owen, F.	NRAO-Socorro	Cluster radio halo candidates	20	1,2	14.5
AP380	Pooley, G.G. Hardcastle, M.J. Riley, J.M. Alexander, P. Gilbert, G.	MRAO Bristol MRAO MRAO MRAO	Radio jets of FR II radio sources	3.6, 6 w/BM126	26, 30	5.5
AR428	Reynaud, D. Downes, D. Roussel, H. Vigroux, L. Beck, R.	Saclay IRAM-Grenoble Saclay Saclay MPIFR	Magnetic fields in the barred spiral NGC 1530	3.6, 6	1	2.5
AR435	Rudnick, L. Koralsky, B. Petre, R. Gotthelf, E. Holt, S.	Minnesota Minnesota NASA-GSFC Columbia NASA-GSFC	Cas A: probing the x-ray/radio connections	6	25	6.0
AS568	Sramek, R. Weiler, K. VanDyk, S. Panagia, N.	NRAO-Socorro NRL UCLA STScI	Properties of radio supernovae	1.3, 2, 3.6, 6, 20	29	2.0
AS678	Shepherd, D. Kurtz, S. Testi, L.	NRAO-Socorro UNAM Arcetri	Disk and jet parameters of the source powering the W75N outflow	0.7	24	11.0
AS684	Sarma, A.P. Troland, T.H. Brogan, C.L.	Kentucky Kentucky Kentucky	VLA HI and OH Zeeman toward Cas A	20	16	16.0
AT229	Taylor, G. Fabian, A. Allen, S. Govoni, F.	NRAO-Socorro Cambridge Cambridge Bologna	Faraday rotation study of the 3C129 cooling flow cluster	3.6, 6	11	4.1
AT235	Trinidad, M.A. Curiel, S. D'Alessio, P. Rodriguez, L.F.	UNAM UNAM UNAM UNAM	Circumbinary disk structures around Binary YSOs	0.7, 3.6	15, 29	12.0
AT241	Thomas, H. Green, D.A. Alexander, P. Eales, S.	MRAO MRAO MRAO Cardiff	HI observations of small galaxies in the JCMT/SCUBA galaxy survey	20 w/BP61	10, 11	15.7
AV241	Vergani, D. Dettmar, R.J. Klein, U.	Bonn Bochum Bonn	HI in disk galaxies with merging bulges	20	17, 22, 23, 25	31.9

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AW519	Wilcots, E.M. Bershady, M.A. Jangren, A.	Wisconsin Wisconsin Penn State	Low redshift, luminous, compact star forming galaxies	2 w/BB124	20, 22	15.0
AW536	Wong, T. Thornley, M.D. Blitz, L. Bock, d. Helfer, T.T. Regan, M.W. Sheth, K. Vogel, S.	Calif.-Berkeley NRAO-CV Calif.-Berkeley Calif.-Berkeley Arizona DTM Maryland Maryland	HI in nearby spirals with CO observations	20 w/BD62	15, 21	16.0
AX007	Xu, C. Condon, J.J.	IPAC NRAO-CV	The intracluster starburst in Stephan's quintet	6, 20	27	10.0
AY114	Yu, K.C. Bally, J.	Colorado Colorado	Search for 1720 Hz OH masers from YSO outflows	20 w/BD60	30	8.0
AZ114	Zhang, Q. Ho, P. Hunter, T. Sridharan, T.K.	CfA CfA CfA CfA	Search for disks around intermediate to high mass young stars	1.3	17	2.9
AZ120	Zhang, Q. Hunter, T. Sridharan, T.K. Ho, P.	CfA CfA CfA CfA	Disk/Jet system around the high-mass young star in AFGL 5142	1.3 line	17,18	8.8
AZ121	van Zee, L. Salzer, J.J. Taylor, C.L. Norton, S.A.	DAO Wesleyan Ruhr Calif.-Santa Cruz	HI in compact dwarf irregular galaxies	20 w/BB124	10, 14, 19	22.4
AZ123	Zhao, J.-H. Goss, M. Anantharamaiah, K.R. Viallefond, F.	CfA NRAO-Socorro Raman Paris Obs.	Hydrogen recombination from Arp 220 and M82	0.7, 1.3	12, 13	25.9
AZ124	Zwaan, M. van Dokkum, P. Verheijen, M. Briggs, F.	Groningen Caltech NRAO-Socorro Groningen	HI Imaging of galaxy cluster Abell cluster 1689 at z=0.181	20 w/BD60	27, 28, 29, 30	28.0
BB124	Beasley, A.J. Herrnstein, J.R.	NRAO-CV Renaissance Tech.	Monitoring of WR140	3.6, 6, 20 Single antenna VLBI w/AZ121,AK507,AW519	14, 20	12.1
BC103	Chatterjee, S. Cordes, J.M. Goss, M. Fomalont, E.B. Beasley, A.J. Benson, J. Lazio, T.J.W. Arzoumanian, Z.	Cornell Cornell NRAO-Socorro NRAO-CV NRAO-CV NRAO-Socorro NRL NASA-GSFC	Gated VLBA pulsar astrometry	20	22	2.0
BD060	Dhawan, V. Kellermann, K.I. Romney, J.D.	NRAO-Socorro NRAO-CV NRAO-Socorro	Monitoring the accelerating, bent jet in 3C84	7 w/pointing/AP380/AY114/AK485	30	13.9
BD062	Diamond, P.J. Kemball, A.J.	Jodrell Bank NRAO-Socorro	TX Cam: the sequel	0.7 Single antenna VLBI w/AN88, AW536	28, 21	10.1
BI017	Ishihara, Y. Nakai, N. Diamond, P.	NAO-Nobeyama NAO-Nobeyama Jodrell Bank	High velocity features of water maser in the Seyfert IC 2560	1.3 Phased array VLBI	9	6.5
BJ031	Junor, B. Biretta, J. Wardle, J.	New Mexico STScI Brandeis	Polarimetric imaging of Virgo A	0.7, 1.3, 2 Phased array VLBI	8	13.9
BM116	Marscher, A.P. Cawthorne, T.V. Gear, W.K. Stevens, J.A. Marchenko, S.G. Lister, M.L. Gabuzda, D.C. Yurchenko, A.V. Forster, J.R.	Boston Lancashire Cardiff MRAO Boston JPL JIVE St. Petersburg Calif.-Berkeley	Monitoring mm-bright AGN	0.7 w/A0149,AB938,Test,AG581,AB943,AK507,AK485,SW,AK503,AH669	1,3,4,6,7,21	48.2
BP061	Phillips, R.B. Boboltz, D.A.	Haystack USNO	Monitoring of 43 GHz SiO maser emission towards MIRA	0.7 Single antenna VLBI w/AC551,AT241	6, 10	9.6

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Progn	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
	Staff	NRAO	Baselines, Pointing, Delays			29.4
			Maintenance			49.0
			Software			29.5
			Student Observation.		11	2.0
			General tests			22.0

The average downtime was 4.3%.

The array was scheduled for 100.0% (721.1 hours)
592.1 hours (82.1% of time) for astronomical programs
51.9 hours (7.2% of time) for tests/calibration
77.1 hours (10.7% of time) for maintenance
Total 721.1 hours (100.0%) scheduled.

Array was in the C configuration from April 1 through April 30 .

The following independent proposals shared simultaneous observing time (84.4 hours total simultaneous observing):

Projects	Hours
AB938/BM126	3.5
AB943/BM126	1.8
AB943/BM126	4.0
AB943/BM126	1.7
AC551/BP61	0.1
AF370/BM126	1.9
AG581/BM126	0.1
AH669/BM126	2.0
AH669/BM126	0.6
AH669/BM126	1.0
AH702/BM126	1.0
AK485/BD60	1.0
AK503/BM126	5.1
AK507/BB124	1.5
AK507/BM126	1.0
AK507/BM126	1.0
AL511/BM126	2.0
AM628/BM126	1.1
AN088/BD62	7.2
AN088/BM126	7.0
AN088/BM126	2.8
AO149/BM126	2.3
AP380/BD60	1.5
AT241/BP61	7.9
AW519/BB124	6.2
AW536/BD62	0.9
AY114/BD60	8.0
AZ121/BB124	2.9
Pointing/BD60	2.1
Software/BM126	2.8
Test/BM126	1.0
Test/BM126	0.1
AZ124/BD60	1.3

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA245	Arzoumanian, Z. Yusef-Zadeh, F.	NASA-GSFC Northwestern	Survey of 1720 MHz OH masers in the inner galaxy	20	2	7.5
AB935	Butler, B. Stern, S.A.	NRAO-Socorro Southwest Research	7mm observations of Pluto/Charon and Triton	0.7	3, 6, 7, 10, 12	29.5
				w/AK485/BP55		
AB937	Bohringer, H. Schuecker, P. Feretti, L. Giovannini, G. Govoni, F.	MPE MPE Bologna Bologna Bologna	Search of radio halos in REFLEX clusters	20	2	3.0
AB938	Bower, G.C. Falcke, H. Backer, D.C.	NRAO-Socorro MPIfR Calif.-Berkeley	Circular polarization in Sgr A*	0.7, 1.3, 2, 3.6	16, 26	9.0
AC524	Cartwright, J.K. Taylor, G.B. Readhead, A.C.S. Pearson, T.J.	Caltech NRAO-Socorro Caltech Caltech	Polarization monitoring observations of 3C273	0.7, 1.3	12	2.0
AC538	Carilli, C. Menten, K. Yun, M.	NRAO-Socorro MPIfR NRAO-Socorro	Imaging the CO Emission from the z=4.4 QSO BRI 1335-0417	7,3.6	20	8.1
AC544	Castelletti, G. Golap, K. Dubner, G. Goss, M.	IAFE NRAO IAFE NRAO-Socorro	CTB80	90	28	10.0
AC549	Cram, L. Mobasher, B. Ellis, R. Sullivan, M. Treyer, M. Hopkins, A.	Sydney Imperial (London) Institute of Astr. Institute of Astr. Marseille Pittsburgh	Continuum emission from UV selected starforming galaxies	20	21, 25	16.5
AD433	Di Matteo, T. Fabian, A.C. Carilli, C. Magorrian, J. Allen, S.W.	CFA Cambridge NRAO-Socorro CITA Cambridge	X-ray emitting elliptical galaxies	0.7, 1.3, 3.6	1	0.6
AF368	Filho, M.E. Barthel, P. Ho, L.C.	Kapteyn Groningen Carnegie Obs.	Searching for central engines in composite LINER/HII galaxies	3.6	26	4.0
AF370	Falcke, H. Brunthaler, A. Bower, G. Aller, M. Aller, H. Terasanta, H.	MPIfR MPIfR NRAO-Socorro Michigan Michigan Metsahovi	III Zw 2, a superluminal jet in a spiral galaxy	0.7, 1.3, 2, 3.6, 20, 90	10	1.0
AG580	Govoni, F. Taylor, G. Dallacasa, D. Feretti, L. Giovannini, G.	Bologna NRAO-Socorro Bologna Bologna Bologna	Faraday rotation in clusters A2255 and A514	3.6, 6	2, 23	17.0
AG586	Gaensler, B.M. Gotthelf, E.V. Vasisht, G. Slane, P.O.	MIT Columbia JPL CFA	Anomalous X-ray pulsars	20 w/BP55	9, 23	5.0
AH669	Hjellming, R.M. Rupen, M.P. Mioduszewski, A.J.	NRAO-Socorro NRAO-Socorro JIVE-Socorro	Galactic black hole X-ray transients	1.3, 2, 3.6, 6, 20	7,13,17, 21,27	10.5
AH685	Haarsma, D.B. Hewitt, J. Langston, G. Moore, C.	Haverford MIT NRAO-GB Groningen	Time delay monitoring of gravitational lens 2016+112	3.6, 6	17	1.5
AH695	Hunter, D. Hunsberger, S.	Lowell Lowell	HI in irregulars without ordered rotation	20	31	6.5
AH699	Ho, P.T.P. McGary, R.S. Coil, A.L.	Cfa Harvard Berkeley	1720 OH Masers near Sgr A	20	11	5.0
AH704	Hibbard, J.E. Higdon, J. Charlton, J.	NRAO-CV Groningen Pennsylvania	HI in the tidal tail of NGC 3921	20	28	12.5
AI081	Irwin, J. Chaves, T.	NCRA/Queen's NCRA/Queen's	Edge-on galaxy NGC 2613 - possible supershells	20	3, 5, 7	20.6
AJ272	Jones, D.L. Preston, R.A.	JPL JPL	Low frequency images of Pearson-Readhead AGNs	90 w/BB117	18	12.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AJ275	Jaffe, W. Ford, H.C. Tran, H. Davies, J.	Leiden Johns Hopkins Johns Hopkins Johns Hopkins	Nearby AGNs with nuclear disks	3.6 w/move/op	13	12.0
AK485	Kulkarni, S.R. Frail, D.A. Bloom, J.S. Djorgovski, S.G. Harrison, F.A.	Caltech NRAO-Socorro Caltech Caltech Caltech	Radio afterglows of gamma ray bursts	2, 3.6, 6, 20 w/AB935	3-6,13,15,17, 21,23,27,28, 31	37.3
AK503	Kolpak, M. Jackson, J. Bania, T. Clemens, D. Simon, R. Heyer, M. Dickey, J.M. McClure-Griffiths, N	Boston Boston Boston Boston Boston Massachusetts Minnesota Minnesota	HI absorption toward sources from the BU/UMass Galactic Ring Survey	20 line	20	7.8
AK507	Koopmans, L.V.E. deBruyn, A.G. Fassnacht, C.D.	Groningen NFRA NRAO-Socorro	Radio microlensing in the gravitational lens B1600+434?	1.3, 2, 3.6 w/BP55, BP65	3,6,9,12,16, 20,23,25,27, 28	11.4
AK508	Kurtz, S.	UNAM	Hot molecular core in W75N	1.3 w/BP65	25	10.0
AK514	Kenny, J. van Gorkom, J.	Yale Columbia	HI mapping of ongoing ICM/ISM stripping in NGC4522	20 line	19	7.0
AL507	Lazio, J. Kassim, N.	NRL NRL	Unidentified ultra-steep spectrum source	20	21	4.6
AL511	Lang, C.C. Goss, M.	NRAO/UCLA NRAO-Socorro	The Snake galactic center filament	3.6, 6	4,5	8.5
AM647	Minter, A. Reynolds, R.J. Balser, D.	NRAO-GB Wisconsin NRAO-GB	Faraday rotation observations to measure turbulence in the WIM	20 w/BK71/BP61	6, 10, 11, 12	41.0
AN090	Neff, S.G. Ulvestad, J.S.	NASA-GSFC NRAO-Socorro	Star formation processes in a galactic merger sequence:	3.6, 6	9	4.0
AN091	Neumann, D.M. Kassim, N. Roettiger, K.	Saclay NRL Missouri-Columbia	On the origin of radio halos in clusters of galaxies	90	18, 21	9.0
AO147	Ogley, R.N. Mirabel, I.F. Chaty, S. Marti, J. Rodriguez, L.F. Stirling, A.M.	Saclay Saclay Open University U. Jaen UNAM Lancashire	Super-soft X-ray white dwarf binaries	3.6, 6 w/BP55	2, 9, 10, 11	7.5
AO148	Oosterloo, T. Morganti, R. van Moorsel, G.	NFRA NFRA NRAO-Socorro	HI rotation curves of early-type galaxies	20 w/BP55	8,9	10.0
AO149	Owen, F.N.	NRAO-Socorro	Cluster radio halo candidates	20	23, 31	7.0
AR428	Reynaud, D. Downes, D. Roussel, H. Vigroux, L. Beck, R.	Saclay IRAM Saclay Saclay MPIFR	Magnetic fields in the barred spiral NGC 1530	3.6, 6 w/BP65	20,25-27,31	33.7
AR431	Rand, R. Higdon, J. Duric, N. Lacey, C.	UNM Groningen New Mexico NRL	Thermal and non-thermal emission in the barred spiral galaxy M83	3.6, 6, 20	1	5.0
AR432	Rosenberg, J. Schneider, S.	Massachusetts Massachusetts	HI imaging of low surface brightness galaxies	20 line	15	10.9
AS686	Saikia, D.J. Ishwara-Chandra, C.H	NCRA-Pune NCRA-Pune	Giant radio sources	6, 20	9, 13	3.5
AT237	Thomas, H. Green, D.A. Alexander, P. Eales, S.	MRAO MRAO MRAO Cardiff	HI observations of galaxies in the JCMT/SCUBA galaxy survey	20 w/BP61	12	2.0
AT243	Thompson, M.A.	Kent	Line rich and line poor UC HII regions	1.3	18 13	6.3 1.5
AV246	Venturi, T. Dallacasa, D.	Bologna Bologna	Sources in Abell A3528			
AW525	Wilcots, E.M. Sparke, L.S. Noordermeer, E.	Wisconsin Wisconsin Wisconsin	Dynamics of barred magellanic spirals	20	27	4.0
AZ124	Zwaan, M. van Dokkum, P. Verheijen, M. Briggs, F.	Groningen Caltech NRAO-Socorro Groningen	HI Imaging of galaxy cluster Abell cluster 1689 at z=0.181	20 w/BK71/BP55	4, 6, 9, 10, 11	34.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AZ125	Zabludoff, A. Mulchaey, J. Wilcots, E.M. Williams, B. van Gorkom, J.	Arizona Carnegie Obs. Wisconsin Delaware Columbia	The HI content of loose groups of galaxies	20 w/BD62/BB117/BP65	4, 17, 18, 19, 20, 24	48.5
BB117	Beasley, A.J. Herrnstein, J.R.	NRAO-CV Renaissance Tech	Monitoring of WR 140	2, 3.6, 6 Single antenna VLBI w/AJ272/AZ125	19,23,29	14.1
BD062	Diamond, P.J. Kemball, A.J.	Jodrell Bank NRAO-Socorro	TX Cam: the sequel	0.7 Single antenna VLBI w/AZ125/Baselines	9, 17	10.1
BF058	Falcke, H. Reid, M. Henkel, C. Brunthaler, A.	MPIfR Cfa MPIfR MPIfR	Towards measuring proper motions of local group galaxies	1.3	9	2.2
BK071	Kowatsch, P. Krichbaum, T.P. Roy, A. Zensus, J.A. Witzel, A. Fricke, K.J.	MPIfR MPIfR MPIfR MPIfR MPIfR Gottingen	Two-sided jet in Seyfert 2 galaxy NGC 3079	3.6, 6, 20 Single antenna VLBI w/AM647/AZ124	6	12.2
BP055	Peck, A.B. Taylor, G.B. Vermeulen, R.C.	MPIfR NRAO-Socorro NFRA	HI in compact symmetric object J1816+3457	20 Single antenna VLBI w/test/A0148/AG586/AK507/AZ124/AO147/BP935	8,9	16.1
BP061	Phillips, R.B. Boboltz, D.A.	Haystack USNO	Monitoring of 43 GHz SiO maser emission towards MIRA	0.7 Single antenna VLBI w/AT237/AM647	12, 13	10.1
BP065	Peck, A. Taylor, G.	MPIfR NRAO-Socorro	Jet and hotspot velocities in compact symmetric objects	3.6 w/AZ125/Test/Pointing/AK507/AK508/AR428	23	24.3
W022	Reid, M.	Cfa	VSOP		26	9.1
W040	Junor, B. Biretta, J.	New Mexico STScI	Proper motion in the Vir A jet	6 Phased array VLBI	22	9.1
W068	Zensus, J.A. Carrara, E. Abraham, Z. Lobanov, A.P. Unwin, S.C.	MPIfR Sao Paolo Sao Paolo MPIfR JPL	Quasar 3C 273	6 Phased array VLBI	14	9.0
W094	Hirabayashi, H. Wehrle, A. Unwin, S. Makino, F. Kii, T. Kobayashi, H. Edwards, P. Okayasu, R. Valtaoja, E.	ISAS JPL JPL ISAS ISAS NAO ISAS ISAS Tuorla	3C279	6 Phased array VLBI	30	8.4
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Software Student observations General tests		2	54.4 53.9 20.6 27.8 2.0 44.1

The average downtime was 8.0%.

The array was scheduled for 100.0% (746.1 hours)
553.4 hours (74.2% of time) for astronomical programs
111.0 hours (14.9% of time) for tests/calibration
81.7 hours (10.9% of time) for maintenance
Total 746.1 hours (100.0%) scheduled.

Array was in the CnB configuration from March 1 through March 15.

Array was in the C configuration from March 15 through March 31

The following independent proposals shared simultaneous observing time (98.1 hours total simultaneous observing):

Projects	Hours
AB935/AK485	8.0
AB935/BP55	0.5
AG586/BP55	2.0
AJ272/BB117	7.7
AJ275/MOVE/OP	11.0
AK507/BP55	0.9
AK507/BP65	1.0
AK508/BP65	10.0
AM647/BK71	7.3
AM647/BP61	6.2
AO147/BP55	1.0
AO148/BP55	5.0
AR428/BP65	4.1
AT237/BP61	2.0
AZ124/BK71	4.9
AZ124/BP55	6.6
AZ125/BB117	2.5
AZ125/BD62	6.0
AZ125/BP65	2.2
Baselines/BD62	2.1
Pointing/BP65	5.0
Test/BP55	0.1
Test/BP65	2.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB876	Bietenholz, M.F. Frail, D.A. Hester, J.J.	York NRAO-Socorro Arizona State	Time-variability in the radio structure of the Crab nebula	6	10, 12	10.0
AB879	Becker, R.H. White, R.L. Helfand, D.J.	Calif.-Davis STSci Columbia	FIRST survey	20	1,2,4-7,9-13	120.0
AB922	Browne, I. Marlow, D.R. Myers, S. Wilkinson, P. Fassnacht, C. Readhead, A. Xanthopoulos, E. Rusin, D. Biggs, A. Blandford, R. de Bruyn, G. Jackson, N. Koopmans, L.V.E. Norbury, M. Pearson, T.	Jodrell Bank Pennsylvania NRAO-Socorro Jodrell Bank NRAO-Socorro Caltech Jodrell Bank Pennsylvania Jodrell Bank Caltech NFRA Jodrell Bank Groningen Jodrell Bank Caltech	Gravitational lens monitoring combined program	3.6, 6, 20	1, 4, 10, 12, 14	10.0
AB925	Bondi, M. Gregorini, L. Vettolani, G. Parma, P. DeRuiter, H. Zamorani, G. Ciliegi, P. Lefevre, O. Mazure, A. Guzzo, L. Arnaboldi, M. Scaramella, R.	Bologna Bologna Bologna Bologna Bologna Bologna Marseille Marseille Milano Napoli Rome	Sub-mJy observations of VLT VIRMOS Deep Field	20	6, 11	12.0
AB935	Butler, B. Stern, S.A.	NRAO-Socorro Southwest Research	7mm observations of Pluto/Charon and Triton	0.7	29	8.0
AB938	Bower, G.C. Falcke, H. Backer, D.C.	NRAO-Socorro MPIfR Calif.-Berkeley	Circular polarization in Sgr A*	0.7, 1.3, 2, 3.6	20	5.0
AC524	Cartwright, J.K. Taylor, G.B. Readhead, A.C.S. Pearson, T.J.	Caltech NRAO-Socorro Caltech Caltech	Polarization monitoring observations of 3C273	0.7, 1.3	19	3.0
AC528	Caccianiga, A. Della Ceca, R. Maccacaro, T. Wolter, A. Gioia, I.M.	Lisbon Brera Brera Brera Bologna	Radio/Xray selected BL Lacs and radio galaxies	6, 20	13	10.0
AD428	Dallacasa, D. Stanghellini, C. Fanti, R. Centonza, M.	Bologna Noto Bologna Bologna	High frequency peakers	1.3, 2, 3.6, 6, 20	25	2.5
AD433	Di Matteo, T. Fabian, A.C. Carilli, C. Magorrian, J. Allen, S.W.	CFA Cambridge NRAO-Socorro CITA Cambridge	X-ray emitting elliptical galaxies	0.7, 1.3, 3.6	29	2.9
AF350	Falcke, H. Lobanov, A. Wright, M. Bower, G. Aller, M. Terasranta, H. Patnaik, A.	MPIfR MPIfR Calif.-Berkeley NRAO-Socorro Michigan Metsahovi MPIfR	Monitoring extremely variable spiral III Zw 2	1.3, 2, 3.6, 6, 20, 90	18	1.6
AG580	Govoni, F. Taylor, G. Dallacasa, D. Feretti, L. Giovannini, G.	Bologna NRAO-Socorro Bologna Bologna Bologna	Faraday rotation in clusters A2255 and A514	3.6, 6	29	5.0
AH669	Hjellming, R.M. Rupen, M.P. Mioduszewski, A.J.	NRAO-Socorro NRAO-Socorro JIVE-Socorro	Galactic black hole X-ray transients	1.3, 2, 3.6, 6, 20 w/move/op	3, 11, 19, 28	7.9

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH685	Haarsma, D.B. Hewitt, J. Langston, G. Moore, C.	Haverford MIT NRAO-GB Groningen	Time delay monitoring of gravitational lens 2016+112	3.6, 6	3, 24	3.0
AJ269	Jamrozy, M. Machalski, J.	Jagiellonian Jagiellonian	Detection of a radio core in "Giant" radiogalaxy candidates	6	12	4.0
AJ271	Jamrozy, M. Machalski, J.	Jagiellonian Jagiellonian	Detection of radio cores in candidate "giant" radiogalaxies	3.6	20	3.0
AK485	Kulkarni, S.R. Frail, D.A. Bloom, J.S. Djorgovski, S.G. Harrison, F.A.	Caltech NRAO-Socorro Caltech Caltech Caltech	Radio afterglows of gamma ray bursts	2, 3.6, 6, 20 w/BD62	3,4,9,10,14, 18,24,26,28	24.5
AK507	Koopmans, L.V.E. deBruyn, A.G. Fassnacht, C.D.	Groningen NFRA NRAO-Socorro	Radio microlensing in the gravitational lens B1600+434?	1.3, 2, 3.6 w/move/op	19, 22, 25, 28	4.1
AL511	Lang, C. Goss, M.	NRAO-Socorro NRAO-Socorro	Intrinsic magnetic field orientation and HII environment of the Snake	6, 3.6	21, 23	5.3
AM647	Minter, A. Reynolds, R.J. Balser, D.	NRAO-GB Wisconsin NRAO-GB	Faraday rotation observations to measure turbulence in the WIM	20	27	10.0
AM648	Monnier, J.D. Greenhill, L.J. Tuthill, P.G. Danchi, W.C.	CFA Cfa Sydney Calif.	Spectra of IR bright Wolf-Rayet Stars	1.3, 2, 3.6, 6	15, 24, 25	12.2
AN087	Neff, S.G. Ulvestad, J.S.	NASA-GSFC NRAO-Socorro	HII regions in NGC 4038/9 ("the Antennae")	2	28	5.0
A0144	Owen, F. Eilek, J.	NRAO-Socorro NMIMT	High dynamic range 20cm imaging of the M87 halo	20 w/BB117	4	11.0
AP380	Pooley, G.G. Hardcastle, M.J. Riley, J.M. Alexander, P. Gilbert, G.	MRAO Bristol MRAO MRAO MRAO	Radio jets of FR II radio sources	3.6, 6	1	7.0
AP387	dePater, I. Butler, B. Perley, R.	Calif-Berkeley NRAO-Socorro NRAO-Socorro	Jupiter's flux density at 74 and 330 MHz	90	1, 4, 5	24.0
AR402	Rudnick, L. Treichel, K. Katz-Stone, D. Giovannini, G.	Minnesota Minnesota USNA Bologna	Non-relativistic sheaths around extragalactic jets	3.6, 6, 20	3, 8	6.5
AR430	Rupen, M. Fan, X. Strauss, M. Carilli, C. Yun, M. Schneider, D. Bertoldi, F.	NRAO-Socorro Princeton Princeton NRAO-Socorro NRAO-Socorro Penn. State MPIFR	High redshift QSOs from the SDSS	6	20, 21	24.0
AR431	Rand, R. Higdon, J. Duric, N. Lacey, C.	UNM Groningen New Mexico NRL	Thermal and non-thermal emission in the barred spiral galaxy M83	3.6, 6, 20	28	5.1
AS568	Sramek, R. Weiler, K. VanDyk, S. Panagia, N.	NRAO-Socorro NRL UCLA STScI	Properties of radio supernovae	1.3, 2, 3.6, 6, 20 w/move/op	13,16,19	8.0
AS679	Snellen, I. Mack, K.-H. Schilizzi, R.T. Tschager, W.	Cambridge Bologna/Bonn JIVE Leiden	Luminosity function of nearby GPS sources	2, 3.6, 6	22	8.6
AT229	Taylor, G. Fabian, A. Allen, S. Govoni, F.	NRAO-Socorro Cambridge Cambridge Bologna	Faraday rotation study of the 3C129 cooling flow cluster	3.6, 6	8	8.0
AW362	White, S.	Maryland	The stellar activity cycle on active stars	3.6, 6, 20 w/move/op	15, 19	4.1
AW518	Wall, J. Blundell, K. Kassim, N. Lazio, J. Peck, A.	Oxford Oxford NRL NRL NRAO/NMIMT	Search for 74 MHz halos around CSO/GPS sources	400	7	12.0
AW527	Willson, R.F. Lang, K.R.	Tufts Tufts	Nonthermal radio emission from solar bursts and CMEs	90 w/BB117	5, 6, 8	12.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AW533	Wyrowski, F. Schilke, P. Menten, K.M. Walmsley, C.M.	Maryland MPIFR MPIFR Arcetri	Vibrationally excited cyanoacetylene in G10.47+0.03	0.7 Line	27	6.3
AY110	Yun, M.S. Sanders, D. Kawara, K. Taniguchi, Y.	NRAO-Socorro Hawaii Tokyo Tohoku	Radio identification of ISOPHOT Lockman Hole Survey Sources	20	3	12.0
AZ125	Zabludoff, A. Mulchaey, J. Wilcots, E.M. Williams, B. van Gorkom, J.	Arizona Carnegie Obs. Wisconsin Delaware Columbia	The HI content of loose groups of galaxies	20	28	8.0
BB111	Brisken, W. Dewey, R. Thorsett, S. Beasley, A. Benson, J.	Princeton Princeton Princeton NRAO-CV NRAO-Socorro	Proper motions of pulsars in supernova remnants	20 Phased array VLBI	18	11.1
BB117	Beasley, A.J. Herrnstein, J.R.	NRAO-CV Renaissance Tech	Monitoring of WR 140	2, 3.6, 6 Single antenna VLBI w/AO144, AW527, AW533, Test	5,23,27	22.0
BD062	Diamond, P.J. Kemball, A.J.	Jodrell Bank NRAO-Socorro	TX Cam: the sequel	0.7 Single antenna VLBI w/test/AK485	14	7.0
BG096	Gomez, J.L. Agudo, I. Alberdi, A. Cawthorne, T. Marscher, A.P.	IAA IAA IAA Lancashire Boston	Multi-frequency polarimetric VLBA observations of conical shocks in the inner jet structure of 3C371	2, 1.3 VLBA	11	2.0
GB034	Bartel, N. Rupen, M. Bietenholz, M. Beasley, A.J. Conway, J. Altunin, V. Graham, D. Venturi, T. Umana, G.	York NRAO-Socorro York NRAO-CV Onsala JPL MPIFR Bologna Noto	Detailed high resolution image of supernova 1993J in M81	3.6 Phased array VLBI	24	12.5
GG038	Giovannini, G. Feretti, L. Venturi, T. Cotton, W.D. Lara, L. Taylor, G.B.	Bologna Bologna Bologna NRAO-CV IAA NRAO-Socorro	Symmetrically expanding FRI radio galaxy 3C338	2, 3.6 Phased array VLBI	25	11.0
GG042	Greenhill, L.	CfA	Maser accretion disk in NGC 1068	1.3 Phased array VLBI	21, 23	21.5
GM036	Momjian, E. Romney, J.D. Troland, T.H. Goss, M.	Kentucky NRAO-Socorro Kentucky NRAO-Socorro	High velocity HI absorption against 3C 84	20 Phased array VLBI	19,25	15.9
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Software Student observations General tests		25, 29	54.2 45.9 26.1 23.4 4.6 54.0

The average downtime was 4.4%.

The array was scheduled for 100.0% (698.0 hours)
498.3 hours (71.4% of time) for astronomical programs
130.4 hours (18.7% of time) for tests/calibration
69.3 hours (9.9% of time) for maintenance
Total 698.0 hours (100.0%) scheduled.

Array was in the B configuration from January 1 through February 14.

Array was in the CnB configuration from February 14 through February 29

The following independent proposals shared simultaneous observing time (38.8 hours total simultaneous observing):

Projects	Hours
AK485/BD62	5.0
AK507/move/op	1.0
AM647/BB117	0.1
AO144/BB117	3.7
AP380/move/op	4.8
AP387/BB117	2.6
AS568/move/op	2.0
AW362/move/op	1.5
AW527/BB117	4.0
AW533/BB117	6.3
Test/BB117	4.0
Test/BD62	2.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB879	Becker, R.H. White, R.L. Helfand, D.J.	Calif.-Davis STScI Columbia	FIRST survey	20	1,3,5-7,9,10 ,12,15-17,19 ,20,22-24,27 ,29,31	215.6
				w/BB117		
AB917	Blundell, K. Close, L. Leahy, P. Beasley, T.	Oxford Oxford Jodrell Bank NRAO-CV	Multi-frequency high resolution study of hotspots	0.7, 1.3, 2, 90	2	5.9
AB922	Browne, I. Marlow, D.R. Myers, S. Wilkinson, P. Fassnacht, C. Readhead, A. Xanthopoulos, E. Rusin, D. Biggs, A. Blandford, R. de Bruyn, G. Jackson, N. Koopmans, L.V.E. Norbury, M. Pearson, T.	Jodrell Bank Pennsylvania NRAO-Socorro Jodrell Bank NRAO-Socorro Caltech Jodrell Bank Pennsylvania Jodrell Bank Caltech NFRA Jodrell Bank Groningen Jodrell Bank Caltech	Gravitational lens monitoring combined program	3.6, 6, 20 14,17,20,24,25,30	4,6 24,25,30	911.5
AB925	Bondi, M. Gregorini, L. Vettolani, G. Parma, P. DeRuiter, H. Zamorani, G. Ciliegi, P. LeFevre, O. Mazure, A. Guzzo, L. Arnaboldi, M. Scaramella, R.	Bologna Bologna Bologna Bologna Bologna Bologna Marseille Marseille Milano Napoli Rome	Sub-mJy observations of VLT VIRMOS Deep Field	20	24	5.9
AB927	Brogan, C.L. Troland, T.H.	Kentucky Kentucky	HI Zeeman observation toward W49	20 line w/BA36	3	12.0
AB931	Blundell, K. Kassim, N. Owen, F. Lazio, T.J.W. Rawlings, S.	Oxford NRL NRAO-Socorro NRL Oxford	A 74 MHz survey	90	17, 19, 25	15.0
AC532	Cowan, J. Stockdale, C. Rupen, M. Chu, Y.-H.	Oklahoma Oklahoma NRAO-Socorro Illinois	Observations of SN 1961V: Supernova or Not?	6 w/BW043	21, 25	12.0
AC538	Carilli, C. Menten, K. Yun, M.S.	NRAO-Socorro MPIfR NRAO-Socorro	Imaging the CO Emission from the z=4.4 QSO BRI 1335-0417	0.7, 3.6	15	8.0
AC540	Clarke, T.	NRAO	Faraday rotation in extended radio sources in Abell clusters	6, 20 w/BA036	3, 6	8.0
AE132	Estalella, R. Beltran, M.T. Ho, P.T.P. Anglada, G.	Barcelona CfA CfA IAA	Thermal radio jet in B335	3.6	1	3.0
AF350	Falcke, H. Lobanov, A. Wright, M. Bower, G. Aller, M. Terasranta, H. Patnaik, A.	MPIfR MPIfR Calif.-Berkeley NRAO-Socorro Michigan Metsahovi MPIfR	Monitoring extremely variable spiral III Zw 2	1.3, 2, 3.6, 6, 20, 90 w/BA36, BW43	3, 25	2.0
AG575	Greenhill, L.J. Chandler, C.J. Herrnstein, J.R. Reid, M.J.	CfA Cambridge Renaissance Tech CfA	Orion BN/KL: the maser shell around source I	0.7 line	1, 8	8.0
AH669	Hjellming, R.M. Rupen, M.P. Mioduszewski, A.J.	NRAO-Socorro NRAO-Socorro JIVE-Socorro	Galactic black hole X-ray transients	1.3, 2, 3.6, 6, 20	9, 18, 31	6.0
AH672	Harris, D.E. Walker, R.C. Leeuw, L.L.	CfA NRAO-Socorro Hawaii	25" knot in the radio jet of 3C 120	2	4	12.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH685	Haarsma, D. Hewitt, J. Langston, G. Moore, C.	Haverford MIT NRAO-GB Kapteyn	Time delay monitoring of gravitational lens 2016+112	6, 3.5	13	1.0
AH689	Hofner, P. Cesaroni, R. Rodriguez, L.F. Marti, J.	Arecibo/UPR Arcetri UNAM U. Jaen	High mass protostar IRAS 20126+4104	0.7, 1.3	2, 7, 8	24.5
AH690	Hill, G. Croft, S. Rawlings, S. Gay, P.	McDonald Oxford Oxford Texas	TEXOX high-redshift cluster survey	20	15, 16	24.0
AK485	Kulkarni, S.R. Frail, D.A. Bloom, J.S. Djorgovski, S.G. Harrison, F.A.	Caltech NRAO-Socorro Caltech Caltech Caltech	Radio afterglows of gamma ray bursts	2, 3.6, 6, 20 w/test/BW43	1,2,5,9,13,17,21,24,25,27,30	24.8
AK500	Kurtz, S. Carral, P. Hofner, P.	UNAM Guanajuato Arecibo/UPR	Supercompact HII region ON-2 (H2O)	0.7	21	4.0
AL507	Lazio, J. Kassim, N.	NRL NRL	Unidentified ultra-steep spectrum source	20	18	4.0
AL509	Lim, J. Ho, P.T.P.	Academia Sinica Cfa	HI in low-redshift quasars	20 line	11	12.0
AM626	Miller, N.A. Owen, F.	New Mexico State NRAO-Socorro	Search for dust-obscured star formation in E+A galaxies	20 w/BKk73	21	11.0
A0144	Owen, F. Eilek, J.	NRAO-Socorro NMIMT	High dynamic range 20cm imaging of the M87 halo	20	30	11.0
AP380	Pooley, G.G. Hardcastle, M.J. Riley, J.M. Alexander, P. Gilbert, G.	MRAO Bristol MRAO MRAO MRAO	Radio jets of FR II radio sources	3.6, 6	18	3.5
AP387	dePater, I. Butler, B. Perley, R.	Calif-Berkeley NRAO-Socorro NRAO-Socorro	Jupiter's flux density at 74 and 330 MHz	90 w/BW43	28, 29, 31	24.2
AP390	Perley, R.A. Condon, J.J. Cotton, W.D. Yin, Q.F. Wall, J.V. Kassim, N.E. Erickson, W.C.	NRAO-Socorro NRAO-CV NRAO-CV NRAO-CV Oxford NRL Maryland	74 MHz all sky survey: test observations	w/BK73	22, 23	24.5
AR411	Reipurth, B. Rodriguez, L.F.	Colorado UNAM	New thermal jets in the OMC-2 region	3.6, 6	13	4.0
AR418	Richards, E. Cowie, L. Barger, A. Fomalont, E. Kellermann, K. Partridge, B. Windhorst, R.	Arizona State Hawaii Hawaii NRAO-CV NRAO-CV Haverford Arizona State	A 20cm deep field	20	13	12.0
AR423	Rawlings, S. Croft, S. Kennefick, J.	Oxford Oxford Oxford	Thirty-two z>4 quasars	20 w/BB117	9, 10	20.0
AS568	Sramek, R. Weiler, K. VanDyk, S. Panagia, N.	NRAO-Socorro NRL UCLA STScI	Properties of radio supernovae	1.3, 2, 3.6, 6, 20	5,12	3.0
AS677	Scheuer, P. Laing, R.	MRAO Oxford	How do hot spots talk to each other?	20 w/BW43	28	2.0
AT235	Trinidad, M.A. Curiel, S. D'Alessio, P. Rodriguez, L.F.	UNAM UNAM UNAM UNAM	Circumbinary disk structures around Binary YSOs	0.7, 3.6	7	5.0
AW522	Wilner, D. Ho, P. Rodriguez, L. Beltran, M. Kastner, J.	Cfa Cfa UNAM Cfa Haystack	7mm continuum studies of T-Tauri disks	0.7 w/BD62	14	3.0
AZ121	van Zee, L. Salzer, J.J. Taylor, C.L. Norton, S.A.	DAO Wesleyan Ruhr Calif.-Santa Cruz	HI in compact dwarf irregular galaxies	20 w/BS73, BW43	29	12.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BA036	Augusto, P. Browne, I. Wilkinson, P.	Madeira Jodrell Bank Jodrell Bank	B2114+022, a gravitational lensing candidate	90 w/AB927,AF350,AC540	3	12.1
BB117	Beasley, A.J. Herrnstein, J.R.	NRAO-CV Renaissance Tech	Monitoring of WR 140	2, 3.6, 6 Single antenna VLBI w/AB879,AR423	14, 10	13.1
BD062	Diamond, P.J. Kemball, A.J.	Jodrell Bank NRAO-Socorro	TX Cam: the sequel	0.7 Single antenna VLBI w/test/AW522,Pointing	14	8.0
BG095	Gabuzda, D.C. Aller, M.F. Aller, H.D. Hughes, P.A.	JIVE Michigan Michigan Michigan	Polarization of BL lac objects	2, 3.6, 6	3	2.5
BH042	Herrnstein, J.R. Moran, J.M. Greenhill, L.J.	Renaissance Tech Cfa Cfa	Are quasars being ejected from the Nucleus of NGC 4258?	20 Phased array VLBI	9	10.0
BK073	Kellermann, K. Biretta, J. Owen, F. Junor, B.	NRAO-CV STScI NRAO-Socorro New Mexico	Kinematics of parsec and subparsec structure of M87 jet	2 Single antenna VLBI w/AM626, AP390	26, 21	13.9
BP061	Phillips, R.B. Boboltz, D.A.	Haystack USNO	Monitoring of 43 GHz SiO maser emission towards MIRA	0.7	19	1.6
BS073	Stanghellini, C. Bondi, M. Dallacasa, D. Xiang, L.	IRA IRA Bologna Urumqi	Proper motions in the radio source OQ208	3.6,2	29	5.5
BW043	Walker, R.C. Kellermann, K.I. Romney, J.D. Vermeulen, R.C. Alef, W. Benson, J.M.	NRAO-Socorro NRAO-CV NRAO-Socorro NFRA MPIFR NRAO-Socorro	Changes in the 3C84 accretion region	1.3, 2, 3.6, 6 Single antenna VLBI w/AK485,AF350,AC532,AB931,AP387,Test,AS677	25, 28	27.6
	Staff	NRAO	Baselines, Pointing, Delays Maintenance New Years Shutdown Shutdown Software General tests			45.6 46.0 12.4 1.1 27.9 31.9

The average downtime was 1.7%.

The array was scheduled for 98.3% (733.7 hours)
585.2 hours (78.4% of time) for astronomical programs
74.6 hours (10.0% of time) for tests/calibration
73.9 hours (9.9% of time) for maintenance
Total 733.7 hours (98.3%) scheduled.

Array was in the B configuration from January 1 through January 31.

The following independent proposals shared simultaneous observing time (76.3 hours total simultaneous observing):

Projects	Hours
AB927/BA36	10.3
AB931/BW43	4.6
AC532/BW43	6.0
AC540/BA36	0.8
AF350/BA36	1.0
AF350/BW43	1.0
AK485/BW43	2.2
AK485/BW43	1.0
AK485/TEST	0.7
AM626/BK73	11.0
AP387/BW43	8.0
AP390/BK73	0.4
AR423/BB117	7.4
AS677/BW43	2.0
AW522/BD62	3.0
AZ121/BS73	5.5
AZ121/BW43	0.8
BH42/BB117	3.7
POINTING/BD62	3.9
TEST/BD62	0.5
TEST/BD62	0.5
TEST/BW43	2.0