

VLA Utilization Report December 1996

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA205	Anantharamaiah, K.R. Goss, M. Subrahmanyan, R.	Raman NRAO-Socorro Raman	Recombination lines towards PKS 1830-211	20 line	22	9.0
AB705	Burke, B.F. Becker, D.J. Lehar, J. Hewitt, J.N. Roberts, D.H.	MIT MIT CfA MIT Brandeis	Time delay of the gravitational lens 0957+561	3.6, 6	26	1.5
AB805	Biretta, J. Owen, F. Zhou, F.	STScI NRAO-Socorro NMIMT	VLA monitoring of the M87 jet	0.7, 1.3	17, 19	24.0
AB807	Brown, A.	Colorado	Proper motions in complex radio source IRS7 in the CrA cloud	3.6, 6 w/BS051	29	6.0
AB808	Blundell, K.M. Rawlings, S.	Oxford Oxford	Complete sample of z>2 radio sources	1.3, 2, 3.6	9	12.0
AB809	Browne, I.W.A. Wilkinson, P.N. Nair, S. Patnaik, A.R. Perley, R.A. Schneider, P. Geiger, B.	Jodrell Bank Jodrell Bank Jodrell Bank MPIfR NRAO-Socorro MPIfA MPIfA	Time delay measurement in 0218+357	2	1,3,5,8,10,1 1,12,16-19,2 3,26,28,30	13.5
AC468	Contreras, M.E. Rodriguez, L.F.	UNAM UNAM	Nature of the clumps in the wind of WR 147	3.6	14	2.5
AC470	Conway, J. Owsianik, I.	JIVE-Onsala OSO	Search for HI absorption and OH maser emission in FR I radio galaxies	20 line w/BW029	8	12.0
AD389	DePree, C.G. Gaume, R.A. Goss, M.	Agnes Scott USNO NRAO-Socorro	7mm continuum observations of Sgr B2	0.7 line	12	6.0
AD395	Desai, K.	NRAO-Socorro	Scattering of 3c279 in the Solar Wind		23 w/BD038	5.0
ADHOC	Sramek, D.	NRAO-Socorro	ADHOC PROPOSAL		4	1.0
ADHOC	Lestrade, J.F.	Meudon	ADHOC PROPOSAL		11	0.8
AF310	Fassnacht, C. Pearson, T. Readhead, T. Myers, S. Browne, I. Wilkinson, P.	Caltech Caltech Caltech Pennsylvania Jodrell Bank Jodrell Bank	VLA monitoring of the gravitational lens system 1608+656	3.6 w/BS051	1,5,7,10, 15,20,23,29, 30	7.6
AF311	Fassnacht, C. Myers, S. Browne, I. Wilkinson, P. Pearson, T. Readhead, T.	Caltech Pennsylvania Jodrell Bank Jodrell Bank Caltech Caltech	Deep imaging of the gravitational lens candidate 2045+265	2, 3.6, 6, 20	30	6.5
AG500	Gaume, R. Martin-Pintado, J. Kassim, N. Johnston, K.	USNO Yebes NRL USNO	Spectral index of MWC 349	2, 3.6, 6, 20, 90	5	4.1
AH588	Helfand, D.J. Becker, R.H. White, R.L.	Columbia Calif.-Davis STScI	Rapid variability in extragalactic radio sources	3.6, 20 w/BS051	1,3,6,11,22, 24,29,31	6.0
AH589	Hirano, N. Umemoto, T. Furuya, L.	Hitotsubashi NAO Ibaraki	Water maser observations of the very young outflow source 1623-242	1.3 line	30	2.0
AH592	Hjellming, R.M. Rupen, M.P.	NRAO-Socorro NRAO-Socorro	Monitoring galactic black hole X-ray transients	2, 3.6, 6, 20	2, 7, 16	3.2
AH593	Hewitt, J.N. Moore, C.B. Haarsma, D.B.	MIT MIT MIT	Gravitational lens time delays	2, 3.6	1,5-12,15-20 ,22,23,26-30	32.5
AH594	Herrnstein, J.R. Greenhill, L.J. Moran, J.M. Trotter, A.	CfA CfA CfA Harvard	Monitoring the rapidly varying compact continuum source in NGC 4258	1.3, 2, 3.6, 6 w/BS051	7, 22, 29, 31	14.0
AH605	Hofner, P. Stecklum, B. Henning, T.	Cologne MPG-Jena UNM	UC HII region G5.97 in M8	2	24	1.5
AI066	Ivison, R.J. Eyres, S.P.S. Davis, R.J. Kenny, H.T. Bode, M.F. Lloyd, H.M.	Royal Edinburgh Keele Jodrell Bank Canadian Military John Moores John Moores	VLA/Merlin imaging of quiescent symbiotic binaries	6	5, 26	2.7

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AK397	Kulkarni, S.R. Frail, D.A.	Caltech NRAO-Socorro	Search for radio counterparts of gamma ray bursters	20	5	1.0
AK425	Kollgaard, R.I. Ghisellini, G. Maraschi, L. Pesce, J. Sambruna, R. Urry, C.M.	Penn State Torino Genova STScI STScI STScI	Multifrequency monitoring of blazars	1.3, 2, 3.6, 6, 20	3, 6, 23	2.0
AK432	Knapp, G.R. Rupen, M.P. Gunn, J.E.	Princeton NRAO-Socorro Princeton	Mapping evolved stars	0.7, 1.3	19	17.5
AL395	Lim, J.	Academia Sinica	Imaging the circumstellar envelopes of Be Stars	0.7, 1.3	1	5.0
AL397	Longair, M. Best, P. Eales, S. Rawlings, S. Rottgering, H.	Cambridge Cambridge Cardif Oxford Leiden	6C radio galaxies at $z \sim 1$	3.6, 6 w/BW029	8, 9, 10	33.0
AL398	Lim, J. White, S.M.	Academia Sinica Maryland	The chromosphere of the M supergiant Betelgeuse	0.7, 1.3, 2, 3.6, 6	20	11.0
AL401	Lacy, M. Ridgway, S. Rawlings, S. King, L.	Oxford Oxford Oxford Oxford	Rotation measures of $z \sim 1$ radio sources	6, 20	31	5.5
AL402	Lucas, P. Roche, P.F. Blundell, K.M.	Oxford Oxford Oxford	Low mass young stellar objects	2, 3.6	13	8.5
AL403	Leitch, E.M. Pearson, T.J. Readhead, A.C.S.	Caltech Caltech Caltech	Monitoring of point sources in the OVRO microwave background fields	1.3, 2, 3.6	24, 26, 30	5.0
AM534	Marti, J. Rodriguez, L.F. Reipurth, B.	CEA-Saclay UNAM ESO	Monitoring the high proper motion thermal radio jet in HH 80-81	3.6	28	4.0
AM540	Mirabel, F. Rodriguez, L.F.	Saclay UNAM	Proper motions in the superluminal source GRS 1915+105	3.6	12, 28	4.5
AM545	Menten, K.M. Reid, M.J.	CfA CfA	Formaldehyde and ammonia absorption toward lens 0218+357	0.7, 1.3 line	2	11.5
AM546	McCarthy, P. Rush, B. Kapahi, V. van Breugel, W. Athreya, R. Lawrence, C.	MWLC Obs. MWLC Obs NCRA-Pune Lawrence Livermore NCRA-Pune JPL	Mapping the gravitational lens candidate MRC 0406-244	3.6	16	3.5
AM557	Mirabel, F. Goss, M.	Saclay NRAO-Socorro	Search for 1720 maser emission near GRS 1915+105	20 line	1	2.0
A0127	O'Dea, C. Baum, S. DeVries, W. Biretta, J. Macchetto, D.	STScI STScI STScI STScI STScI	High resolution observations of optical synchrotron jets	0.7, 1.3, 2	14, 16	22.0
AP331	Pooley, G.G. Hardcastle, M.J. Riley, J.M. Alexander, P.	MRAO MRAO MRAO MRAO	Constraining the luminosity function of jets in FR II radio galaxies	3.6, 6	14	18.0
AP341	Pentericci, L. Rottgering, H. Miley, G.K. Carilli, C.	Leiden Leiden Leiden NRAO-Socorro	Distorted, high rotation measure, radio galaxy PKS 1138-262	3.6, 6 w/BR045	28, 30	8.5
AR277	Rodriguez, L. Gomez, Y. Canto, J. Lizano, S. Escalante, V.	UNAM UNAM UNAM UNAM UNAM	First images of protoplanetary disks	0.7, 3.6 w/BR045, BS051	6, 10, 21-23, 27, 28, 30	90.0
AR361	Rodriguez, L.F. Gomez, Y.	UNAM UNAM	Mapping MWC 349A at the highest VLA angular resolution	0.7, 1.3	16	4.0
AR362	Reid, M.J. Menten, K.M.	CfA CfA	VLA Observations of the 43 GHz SiO masers and stellar size of red giants	0.7 line	29	8.0
AR365	Rawlings, S. Blundell, K. Lacy, M. Willott, C.	Oxford Oxford Oxford Oxford	Radiogalaxies at redshifts above 5	20	5, 17	20.0

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AR368	Richards, E.A. Fomalont, E.B. Kellermann, K.I. Partridge, R.B. Windhorst, R.A.	Virginia NRAO-CV NRAO-CV Haverford Arizona State	The Hubble deep field	3.6	1	3.4
AS568	Sramek, R. Weiler, K. Van Dyk, S. Panagia, N.	NRAO-Socorro NRL Calif.-Berkeley STScI	Properties of radio supernovae	1.3, 2, 3.6, 6, 20 w/MOVE/OP	16, 17, 21	6.5
AS598	Serjeant, S. Lacy, M. King, L. Rawlings, S. Blundell, K.	Imperial College Oxford Oxford Oxford Oxford	Are damped Ly absorbers gravitational lenses?	1.3, 2	24	4.0
AT198	Torrelles, J.M. Gomez, J.F. Rodriguez, L.F. Curiel, S. Ho, P.T.P.	IAA IAA UNAM UNAM CfA	Radio jet H2O maser systems around YSOs	1.3 line	15	12.0
AW461	Winnberg, A. Engels, D.	Onsala Hamburg (Germany)	OH/IR star OH26.5+0.6	1.3 line	10	1.0
AY074	Yun, M.	NRAO-Socorro	Spin temperature of HI Tidal debris in M81 group		3	1.8
AZ083	Zhao, J.-H. Chen, H.	CfA CfA	L1641N: a newly discovered protobinary	0.7, 3.6	4	8.1
AZ087	Zhao, J.-H. Goss, M. Yusef-Zadeh, F. Falcke, H. Sjouwerman, L.	CfA NRAO-Socorro Northwestern Maryland Onsala	Sgr A* and its nearby sources	0.7, 1.3	6	8.0
BA018	Attridge, J.M. Homan, D.C. Roberts, D.H. Wardle, J.F.C.	Brandeis Brandeis Brandeis Brandeis	Second epoch imaging of a blazar sample	6	30	1.5
BB062	Boboltz, D.A. Diamond, P.J. Kemball, A.J. Claussen, M.J. Kogan, L.	VPI&SU/NRAO-Socorro NRAO-Socorro NRAO-Socorro NRAO-Socorro NRAO-Socorro	Polarization observations of OH masers in envelopes of OH/IR stars	20	1	2.0
BB064	Benz, A.O. Conway, J.E. Alef, W. Gudel, M.	ETH Onsala MPIfR Paul Scherrer	Planet search via astrometry of dMe stars	3.6 Phased array VLBI w/MOVE/OP	11	10.0
BD038	Desai, K.M. Anantharamaiah, K.R. Dhawan, V. Gothaskar, P.	NRAO-CV Raman NRAO-Socorro NCRA	Scattering of 3C279 in the solar wind	0.7, 1.3, 2 Phased array VLBI w/AD395	23	5.0
BR034	Roberts, D.H. Wardle, J.F.C. Ojha, R. Homan, D.C. Aller, H.D. Aller, M.F. Hughes, P.A.	Brandeis Brandeis Brandeis Brandeis Michigan Michigan Michigan	Sources with rapidly varying polarization	1.3, 2	5	2.0
BR044	Rupen, M.P. Bartel, N. Beasley, A.J. Conway, J. Bietenholz, M. Rius, A. Altunin, V. Jones, D. Graham, D. Venturi, T. Umana, G.	NRAO-Socorro York NRAO-Socorro Onsala York Barcelona JPL JPL MPIfR Bologna Bologna	VLBI imaging of supernova 1993J in M81	3.6, 6, 20 Phased array VLBI	12	18.0
BR045	Romney, J.	NRAO-Socorro	Structural monitoring, polarization, and recombination-line studies in 3C84		27 w/AP341,AR277	6.1
BS043	Swain, M.R. Lobanov, A.P.	Rochester NRAO-Socorro	VLBA observation of the core of 3C353	20 Phased array VLBI	1	5.0
BS051	Shaffer, D.B. Kellermann, K.	Radiometrics NRAO-CV	CTD93-CD or CSO: Where is the nucleus?	1.3, 2 Single antenna VLBI w/AR277, AH594, AH588, AF310	29	11.8

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BT024	Taylor, G. O'Dea, C.	NRAO-Socorro STScI	HI absorption in PKS 2322-123	6, 20 Phased array VLBI	7	12.0
BT026	Trotter, A.S. Greenhill, L.J. Moran, J.M.	Harvard CfA CfA	Multi-wavelength continuum properties of nucleus of NGC 3079	2, 3.6, 6 Phased array VLBI	1	11.8
BW029	Wrobel, J.M. Ulvestad, J.S. Carilli, C.L.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	Inner 30 pc of Mrk 231	1.3, 2, 3.6, 6, 20 Single antenna & Phased array VLBI w/AL397, AC470	27, 8	23.7
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations New Years Shutdown Software General tests Christmas Shutdown		31 6, 7, 18, 24 24, 25	46.0 44.3 12.0 3.3 30.8 10.9 33.7

The average downtime was 5.0%.

The array was scheduled for
 571.1 hours (76.6% of time) for astronomical programs
 66.2 hours (8.9% of time) for tests/calibration
 75.1 hours (10.1% of time) for maintenance
 Total 712.4 hours (95.5%) scheduled.

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

Total Number of astronomical programs was 62.

The following independent proposals shared simultaneous observing time (28.7 hours total simultaneous observing):

Projects	Hours
AB807/BS051	5.7
AC470/BW029	1.9
AD395/BD038	5.0
AF310/BS051	1.0
AH588/BS051	1.0
AH594/BS051	3.5
AL397/BW029	9.8
AP341/BR045	1.3
AR277/BR045	4.8
AR277/BS051	0.6
AS568/MOVE/OP	2.0
MOVE/OP/BB064	10.0

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AA206	Aoki, K. Wilson, A.S. Yoshida, M. Ohtani, H. Kosugi, G.	NAO Maryland NAO Kyoto NAO	High velocity outflow in the Seyfert galaxy NGC 7319	3.6, 6, 20	4	6.0
AB705	Burke, B.F. Becker, D.J. Lehar, J. Hewitt, J.N. Roberts, D.H.	MIT MIT Cfa MIT Brandeis	Time delay of the gravitational lens 0957+561	3.6, 6	10	2.0
AB796	Bridle, A.H. Burns, J.O. Hough, D.H. Laing, R.A. Lonsdale, C.J. Wardle, J.F.C.	NRAO-CV NM State Trinity RGO Haystack Brandeis	Deep VLA imaging of complete sample of 3CR lobe-dominated quasars	3.6, 6	7, 8, 9, 12	52.1
AB806	van Breugel, W. Stanford, A. DeBreuck, C. Lehnert, M. Rottgering, H.	Lawrence Livermore Lawrence Livermore Lawrence Livermore Leiden Leiden	Radio loud far infrared galaxies	20	14	12.0
AB809	Browne, I.W.A. Wilkinson, P.N. Nair, S. Patnaik, A.R. Perley, R.A. Schneider, P. Geiger, B.	Jodrell Bank Jodrell Bank Jodrell Bank MPIfr NRAO-Socorro MPIFA MPIFA	Time delay measurement in 0218+357	2 w/BB062	1,5,7,9-11,1 3,14,18,19,2 4-27,30	16.5
AB811	Bastian, T.S.	NRAO-Socorro	Solar wind turbulence during solar minimum	2, 3.6, 6, 20	1, 2, 3, 11	3.9
AB812	Becker, R. Helfand, D. White, R.	Calif.-Davis Columbia STScI	Rapidly varying FIRST radio sources	3.6, 20	10	6.0
AC473	Chambers, K.C.	Hawaii	Faint low frequency radio source population	3.6, 90	16	12.0
AC476	Cotton, B. Bridle, A. Bondi, M. Feretti, L. Giovannini, G. Laing, R. Lara, L. Venturi, T.	NRAO-CV NRAO-CV Bologna Bologna Bologna RGO Bologna Bologna	Imaging and polarimetry of NGC 315	6	2	12.0
AD388	Dahlem, M. Bade, N.	STScI Hamburg	NGC 5905-Search for an AGN	3.6	3	1.0
ADHOC	de Pater, I.	UCLA-Berkeley	Adhoc Proposal		5	1.8
ADHOC	Blundell, K.	Oxford	Adhoc Proposal		6	3.0
ADHOC	Wilner, D.	Cfa	Adhoc Proposal		10	1.0
ADHOC	Blundell, K.	Oxford	Adhoc Proposal		20	0.6
ADHOC	Moore, C.	MIT	Adhoc Proposal		7	0.9
AF309	Frayer, D.T. Seaquist, E.R. Papadopoulos, P. Yee, H. Bechtold, J.	Toronto Toronto Toronto Toronto Arizona	Two high redshift protogalaxy candidates	3.6, 20	14	6.0
AF310	Fassnacht, C. Pearson, T. Readhead, T. Myers, S. Browne, I. Wilkinson, P.	Caltech Caltech Caltech Pennsylvania Jodrell Bank Jodrell Bank	VLA monitoring of the gravitational lens system 1608+656	3.6 w/BB062	1,3,8,11,15, 18,23,27	8.0
AF318	Florkowski, D.	USNO	Monitoring the radio emission from the Wolf-Rayet Binary HD 192641	0.7, 2, 6, 20	30	1.0
AG448	Greenhill, L.J. Henkel, C.	Cfa MPIfr	Monitoring the acceleration of water megamaser features in NGC 4258	1.3 line	21	4.4
AH587	Hollis, J.M. Pedelty, J.A.	NASA-GSFC NASA-GSFC	Attempt to resolve the R Aquarii binary system	0.7	19	8.0
AH588	Helfand, D.J. Becker, R.H. White, R.L.	Columbia Calif.-Davis STScI	Rapid variability in extragalactic radio sources	3.6, 20	3, 30	2.0
AH592	Hjellming, R.M. Rupen, M.P.	NRAO-Socorro NRAO-Socorro	Monitoring galactic black hole x-ray transients	2, 3.6, 6, 20	2, 15, 25	4.1

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AH593	Hewitt, J.N. Moore, C.B. Haarsma, D.B.	MIT MIT MIT	Gravitational lens time delays	2, 3.6 w/BB062	1,3,5-8,10,11 1,13-15,17-19 21,22,24-27,30	37.3
AH597	Hoare, M.G.	Leeds	Deep imaging of GL 490	3.6	1	2.0
AH598	Hoare, M.G. Gaume, R.A. Fischer, J.	Leeds USNO NRL	High frequency continuum from the ionized winds of luminous YSOs	0.7, 2, 3.6, 6	1	0.4
AI063	Ivison, R.J. Seauquist, E.R.	Royal Edinburgh Toronto	Third-epoch imaging of RX Puppis during a phase of low excitation	3.6	15	4.0
AK397	Kulkarni, S.R. Frail, D.A.	Caltech NRAO-Socorro	Search for radio gamma ray bursters - HETE and SAX followup	20	3	1.0
AK425	Kollgaard, R.I. Ghisellini, G. Maraschi, L. Pesce, J. Sambruna, R. Urry, C.M.	Penn State Torino Genova STScI STScI STScI	Multifrequency monitoring of blazars	1.3, 2, 3.6, 6, 20	13, 26	1.5
AK434	Kenny, H.T. Dougherty, S.M. Eyres, S.P.S. Taylor, A.R. Davis, R.J.	Canadian Military DRAO Keele Calgary Jodrell Bank	Stellar orbital motion in two symbiotic novae	1.3	24	3.0
AL395	Lim, J.	Academia Sinica	Imaging the circumstellar envelopes of Be Stars	0.7, 1.3	30	7.0
AL400	Ledlow, M. Owen, F. Keel, W.	New Mexico State NRAO-Socorro Alabama	A powerful radio galaxy in a spiral host	3.6, 20	4, 6	10.0
AL401	Lacy, M. Ridgway, S. Rawlings, S. King, L.	Oxford Oxford Oxford Oxford	Rotation measures of z ⁻¹ radio sources	6, 20	30	2.5
AL403	Leitch, E.M. Pearson, T.J. Readhead, A.C.S.	Caltech Caltech Caltech	Monitoring of point sources in the OVRO microwave background fields	1.3, 2, 3.6	12	4.0
AL404	Lazio, J. Cordes, J. Kassim, N. Arzoumanian, Z.	Cornell Cornell NRL Cornell	Search for heavily scattered pulsars in and beyond the galactic center	20, 90	8	8.0
AL405	Laing, R. Bridle, A. Feretti, L. Giovannini, G. Parma, P. Perley, R.	RG0 NRAO-CV Bologna Bologna Bologna NRAO-Socorro	Imaging and polarimetry of 3C 31	3.6	12	12.1
AL414	Laine, S. Gottesman, S.	Florida Florida	Nucleus of NGC 7479	2, 3.6, 6	3	1.5
AM540	Mirabel, F. Rodriguez, L.F.	Saclay UNAM	Proper motions in the superluminal source GRS 1915+105	3.6	14, 27	3.1
AM543	Menten, K.M. Reid, M.J.	CfA CfA	Resolving the power source in the Orion BN/KL region	0.7, 3.6 line	20	10.0
AM544	Moore, C.	MIT	Parallel X-ray and VLA observations of the Rapid Burster	20,3.6 w/AP334	11	4.7
A0129	Ojha, R. Wardle, J.F.C. Roberts, D.H.	Brandeis Brandeis Brandeis	Flat spectrum structures in the CSS source 3C48	0.7, 1.3	9	8.0
AP334	Perley, R.A. Carilli, C. Dreher, J.	NRAO-Socorro NRAO-Socorro SETI Inst.	VLA Observations of Cygnus A at 43 GHz	0.7 w/AM544	19,20	7.5
AP337	Pedlar, A. Thean, A. Kukula, M.J. Baum, S.A. O'Dea, C.P.	Jodrell Bank NRAL RO Edinburgh STScI STScI	Seyferts from the 12-micron Galaxy sample	3.6	24	8.0
AP344	Perley, R. Roser, H.-J.	NRAO-Socorro MPIFA	Low frequency observations of Pictor A	90	19,20	7.5
AR277	Rodriguez, L. Gomez, Y. Canto, J. Lizano, S. Escalante, V.	UNAM UNAM UNAM UNAM UNAM	First images of protoplanetary disks	0.7, 3.6	10, 25	19.0
AR362	Reid, M.J. Menten, K.M.	CfA CfA	VLA Observations of the 43 GHz SiO masers and stellar size of red giants	0.7 line	2	4.0

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AR363	Reid, M.J. Masson, C.R. Menten, K.M. Moran, J.M. Wilner, D.J.	Cfa Cfa Cfa Cfa Cfa	Synchrotron emission from the H2O maser source in W30H	3.6	15	12.0
AR368	Richards, E.A. Fomalont, E.B. Kellermann, K.I. Partridge, R.B. Windhorst, R.A.	Virginia NRAO-CV NRAO-CV Haverford Arizona State	The Hubble deep field	3.6 w/BB062	1,18,19,22-2 5,29	72.0
AR369	Rizza, E. Burns, J. Ledlow, M. Owen, F.	New Mexico State New Mexico State New Mexico State NRAO-Socorro	Radio galaxies in distant Abell clusters	20 w/BB062	16, 18	19.0
AS568	Sramek, R. Weiler, K. VanDyk, S. Panagia, N.	NRAO-Socorro NRL Calif.-Berkeley STSci	Properties of radio supernovae	1.3, 2, 3.6, 6, 20 w/BB062	19	1.0
AS594	Seaquist, E.R. Frail, D. Frayer, D.T.	Toronto NRAO-Socorro Toronto	Search for 1720 MHz and 1612 MHz masers in M82 and NGC 253	20 line	17	23.0
AS596	Stocke, J.T. Rector, T.A. Perlman, E.	Colorado Colorado USRA-GSFC	High dynamic range mapping of EMSS BL lacertae objects	3.6, 20	23	12.0
AS599	Stockton, A. Ridgway, S.E.	Hawaii Oxford	Radio optical alignment in z~1 quasars	3.6, 20	13, 20	3.5
AW419	Watson, A. Cox, A.L. Wilcots, E.	Lowell Wisconsin Wisconsin	Sub-arcsecond imaging of nuclear starbursts at 2cm and 6cm	6	22	6.5
AW444	Wills, K.A. Pedlar, A. Muxlow, T.W.B. Gallimore, J.	Jodrell Bank Jodrell Bank Jodrell Bank MPE	HI absorption against the starburst in M82	20 line	26	12.0
AW446	Wilson, A.S. Falcke, H.	Maryland Maryland	Radio outflows and the narrow line region in Seyfert galaxies	2, 3.6	3, 4	19.0
AW447	Walker, C. Benson, J.	NRAO-Socorro NRAO-Socorro	Superluminal motion on kiloparsec scales in 3C120	6	1	14.0
AY076	Yusef-Zadeh, F. Roberts, D. Goss, M. Frail, D. Green, A.	Northwestern Illinois NRAO-Socorro NRAO-Socorro Sydney	Follow up observation of shock excited OH masers in Sgr A	20 line	22	8.0
AY078	Yusef-Zadeh, F. Roberts, D. Wardle, M.	Northwestern Illinois Sydney	Radio continuum study of WR/WN and OH/IR stars in galactic center	0.7 line	10	8.0
BA020	Aaron, S. Wardle, J. Roberts, D.H.	Brandeis Brandeis Brandeis	Twisted Jet of Mk501	3.6 line	2	2.0
BB062	Boboltz, D.A. Diamond, P.J. Kemball, A.J. Claussen, M.J. Kogan, L.	VP1&SU/NRAO-Socorro NRAO-Socorro NRAO-Socorro NRAO-Socorro NRAO-Socorro	Polarization observations of OH masers in envelopes of OH/IR stars	20 Single antenna VLBI WAR368, AF310, AH592, AR369, AS568, AH593, ABB09	18	24.0
BH023	Hagiwara, Y. Kawabe, R. Diamond, P.J. Kameno, S. Nakai, N. Inoue, M. Kohno, K. Katagiri, S.	Graduate University Nobeyama NRAO-Socorro Nobeyama Nobeyama Nobeyama Nobeyama Nobeyama	The nuclear region of NGC 5793	20 phased array VLBI	30	7.9
BN004	Nakai, N. Inoue, M. Hagiwara, Y. Diamond, P.	Nobeyama Nobeyama Graduate University NRAO-Socorro	H2O megamaser in the LINER galaxy IC 1481	1.3 Phased array VLBI	29	11.1
BR045	Romney, J.D. Dhawan, V. Kellermann, K.I. Alef, W. Inoue, M. Kameno, S. Horiuchi, S. Gabuzda, D.	NRAO-Socorro NRAO-Socorro NRAO-CV MPIfr Nobeyama Nobeyama Nobeyama Lebedev	Structural monitoring of 3C 84	2 Phased array VLBI	21	15.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched hours
	Staff	NRAO	Baselines, Pointing, Delays			40.5
			Maintenance			43.8
			Software			26.7
			Tests			7.7
			Thanksgiving Shutdown		27	26.9

The average downtime was 1.9%.

The array was scheduled for
 548.2 hours (75.9% of time) for astronomical programs
 50.6 hours (7.0% of time) for tests/calibration
 70.5 hours (9.8% of time) for maintenance
 Total 669.3 hours (92.7%) scheduled.

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

Total Number of astronomical programs was 59.

The following independent proposals shared simultaneous observing time (28.7 hours total simultaneous observing):

Projects	Hours
AB809/BB062	1.0
AF310/BB062	1.0
AH593/BB062	2.0
AH593/BB062	1.0
AM544/AP334	4.7
AR368/BB062	6.8
AR368/BB062	1.8
AR369/BB062	9.5
AS568/BB062	1.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA207	Attridge, J.M. Homan, D.C. Roberts, D.H. Wardle, J.F.C.	Brandeis Brandeis Brandeis Brandeis	Imaging of a large sample of blazars	3.6, 6, 20 w/move/op	25	6.5
AB705	Burke, B.F. Becker, D.J. Lehar, J. Hewitt, J.N. Roberts, D.H.	MIT MIT CfA MIT Brandeis	Time delay of the gravitational lens 0957+561	3.6, 6 w/GW014	19	2.0
ABB09	Browne, I.W.A. Wilkinson, P.N. Nair, S. Patnaik, A.R. Perley, R.A. Schneider, P. Geiger, B.	Jodrell Bank Jodrell Bank Jodrell Bank MPIfR NRAO-Socorro MPIfA MPIfA	Time delay measurement in 0218+357	2 w/ extra test/Goss	12,14,15,17, 21,25-28,31	11.1
ABB11	Bastian, T.S.	NRAO-Socorro	Solar wind turbulence during solar minimum	2, 3.6, 6, 20	6	1.5
AC308	Condon, J. Cotton, W. Perley, R.	NRAO-CV NRAO-CV NRAO-Socorro	All sky survey	20	1	6.0
AD391	Dougherty, S.M. Williams, P.M. van der Hucht, K.A.	DRAO RO Edinburgh SRON (Utrecht)	WR 146	0.7, 1.3, 3.6, 6, 20, 90	25	2.0
AD392	DeBreuck, C. van Breugel, W. Rottgering, H. Miley, G.	Lawrence Livermore Lawrence Livermore Leiden Leiden	Highest redshift radio galaxies	6, 20	28	18.0
AD394	Dulk, G.A. Leblanc, Y. Bastian, T.S.	Paris Obs Paris Obs NRAO-Socorro	Magnetic fields of extrasolar planets	20, 90 w/GW014	6, 10, 12, 14, 15, 17,19	61.0
AD395	Desai, K.	NRAO-Socorro	Scattering of 3C279 in the Solar Wind	20,90	12,14	10.0
AD397	Davis, R.J.	Jodrell Bank	Alpha Orionis - short baselines for Merlin Map	6	21	1.0
ADHOC	Kollgaard, R.	Penn State	Adhoc Proposal		8	1.0
ADHOC	Blundell, K.	Oxford	Adhoc Proposal		21	3.7
ADHOC	Perley, R.A.	NRAO-Socorro	Adhoc Proposal		22	0.5
AF307	Fiebig, D.	Heidelberg	Confined water masers in Orion-A West	1.3 line	25	1.5
AF310	Fassnacht, C. Pearson, T. Readhead, T. Myers, S. Browne, I. Wilkinson, P.	Caltech Caltech Caltech Pennsylvania Jodrell Bank Jodrell Bank	VLA monitoring of the gravitational lens system 1608+656	3.6 w/BD038, BA022	10, 12, 15, 18	7.5
AF313	Fabian, A. Taylor, G.	Cambridge NRAO-Socorro	Searching for HI gas in 2 newly discovered cooling flow clusters	20 line	11, 18	5.0
AF314	Falcke, H. Zhao, J.-H. Goss, W.M. Minter, T. Zylka, R. Blitz, L. Wilson, A.	Maryland IAA-Taipei NRAO-Socorro NRAO-GB MPIfR Maryland Maryland	Multiband campaign to measure the flux of Sgr A*	0.7, 1.3, 2, 3.6, 6, 20 w/BA022	25, 26, 27	5.0
AF315	Falcke, H. Wilson, A.S. Ho, L.C.	Maryland Maryland Calif.-Berkeley	Search for Sgr A*'s in other nearby galaxies	2	7, 10, 18	24.0
AF318	Florkowski, D.	USNO	Monitoring the radio emission from the Wolf-Rayet Binary HD 192641	0.7, 2, 6, 20	15	1.0
AF320	Furuya, L. Kawabe, R. Kitamura, Y. Saito, M. Umemoto, T.	Ibaraki NAO-Nobeyama ISAS Tokyo Univ NAO	VLA H2O maser observations of class 0 protostar candidates	1.3 line	15	3.0
AG448	Greenhill, L.J. Henkel, C.	CfA MPIfR	Monitoring the acceleration of water megamaser features in NGC 4258	1.3 line	3	4.5
AG493	Gagne, M. Linsky, J. Brown, A. Gudel, M.	Colorado Colorado Colorado Paul Scherrer	Flare star EQ Peg	3.6 w/move/op	1, 2, 3, 4, 5	56.7
AG499	Goodrich, R.W.	Keck	Radio axes of broad absorption line QSOs	3.6	29	12.0
AH573	Hjellming, R.	NRAO-Socorro	Radio and X-ray activity in the Galactic Black Hole Binary GRO J1655-40	20,6,3.6,2	1	1.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH588	Helfand, D.J. Becker, R.H. White, R.L.	Columbia Calif.-Davis STScI	Rapid variability in extragalactic radio sources	3.6, 20	23, 24, 27, 31	4.5
AH592	Hjellming, R.M. Rupen, M.P.	NRAO-Socorro NRAO-Socorro	Monitoring galactic black hole x-ray transients	2, 3.6, 6, 20 w/BA022	6, 11, 18, 26, 27	6.0
AH593	Hewitt, J.N. Moore, C.B. Haarsma, D.B.	MIT MIT MIT	Gravitational lens time delays	2, 3.6 w/BD038, GW014, BA022	9, 10, 12, 14-1 9, 21, 23-31	36.7
AH595	Hankins, T. Moffett, D. Delaney, Y.	NMIMT NMIMT NMIMT	Wide-bandwidth studies of the crab pulsar "giant" pulses	6, 20, 90 HTRP	11, 12, 14, 16	20.0
AH598	Hoare, M.G. Gaume, R.A. Fischer, J.	Leeds USNO NRL	High frequency continuum from the ionized winds of luminous YSOs	0.7, 2, 3.6, 6	31	4.5
AI063	Ivison, R.J. Seaquist, E.R.	Royal Edinburgh Toronto	Third-epoch imaging of RX Puppis during a phase of low excitation	3.6	31	4.5
AI064	Ishida, C.M. Sanders, D.B. Barnes, J.E.	Hawaii Hawaii Hawaii	Morphology of luminous infrared galaxies	3.6, 20 w/BA022	26	6.0
AK376	Kulkarni, S.R. Frail, D.A.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters	20	30	1.0
AK397	Kulkarni, S.R. Frail, D.A.	Caltech NRAO-Socorro	Search for radio counterparts of gamma ray bursters - HETE followup	20	11	1.8
AK425	Kollgaard, R.I. Ghisellini, G. Maraschi, L. Pesce, J. Sambruna, R. Urry, C.M.	Penn State Torino Genova STScI STScI STScI	Multifrequency monitoring of blazars	1.3, 2, 3.6, 6, 20	11, 19, 24, 30	3.0
AK431	Kovo, D. Turner, J. Beck, S.C.	Tel Aviv UCLA Tel Aviv	Multi-frequency continuum maps of Wolf-Rayet dwarf galaxies	20	27	4.0
AK435	Karovska, M. Mattei, J.	CfA AAVSO	Jet formation in CH Cyg symbiotic system	3.6, 2	27	2.0
AL396	Lockley, J.J. Eyres, S.P.S. Wood, J.H.	Keele Keele Keele	Peculiar binary V Sge: cataclysmic variable or colliding wind	6	12	4.5
AL404	Lazio, J. Cordes, J. Kassim, N. Arzoumanian, Z.	Cornell Cornell NRL Cornell	Search for heavily scattered pulsars in and beyond the galactic center	20, 90 w/GW014	19, 24	16.0
AL406	Lo, K.Y. Goss, M.	Illinois NRAO-Socorro	1720 OH maser in V1057 Cygni	20 line	27	3.0
AM533	Miranda, L.F. Torrelles, J.M. Eiroa, C.	Complutense IAA Madrid	Young double shell planetary nebula IC 4997	1.3, 2, 3.6	20	9.5
AM540	Mirabel, F. Rodriguez, L.F.	Saclay UNAM	Proper motions in the superluminal source GRS 1915+105	3.6 w/GW014	19, 28	4.0
AM544	Moore, C.B. Rutledge, R.R. Lewin, W.H.G. van Paradijs, J.	MIT MIT MIT Amsterdam	Parallel X-ray and VLA observations of the rapid burster 1733-335	3.6, 20 w/BD038	14	4.0
AM548	Morganti, R. Tadhunter, C. Oosterloo, T.	ATNF Sheffield ATNF	Radio morphology of 2-Jy radio galaxies	6 w/BA022	25, 26	7.0
AP338	Paredes, J.M. Marti, J. Tavani, M. Peracaula, M. Kniffen, D. Mattox, J.	Barcelona CEA-Saclay Columbia Barcelona Hampden-Sydney Maryland	Simultaneous radio and gamma ray observations of LS I 61d 303	2, 3.6	2, 3, 4	1.5
AR362	Reid, M.J. Menten, K.M.	CfA CfA	VLA Observations of the 43 GHz SiO masers and stellar size of red giants	0.7 line	26, 31	12.0
AS568	Sramek, R. Weiler, K. VanDyk, S. Panagia, N.	NRAO-Socorro NRL Calif.-Berkeley STScI	Properties of radio supernovae	1.3, 2, 3.6, 6, 20	5, 6, 13, 21, 23, 24	22.5
AT200	vanderTak, F. Welch, J. van Dishoeck, E. van Langevelde, H.	Calif.-Berkeley Calif.-Berkeley Leiden JIVE	Nature of W3 IRS5: cluster or cavity?	0.7, 1.3	23	10.9
AW362	White, S.	Maryland	The stellar activity cycle on active stars	3.6, 6, 20 w/BA022	25, 26	3.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AY074	Yun, M.S.	NRAO-Socorro	Spin temperature of HI tidal debris in M81 group	20 line	28	12.5
BA022	Aaron, S. Roberts, D.H. Wardle, J.	Brandeis Brandeis Brandeis	Continuing polarization study of the CSS quasar 3C309.1	20 single antenna VLBI w/AW362, A1064, AH593, AF310, AM548, AF314, BA022, AH592, BA022	26	16.2
BC051	Cotton, W.D. Feretti, L. Giovannini, G. Lara, L. Ventura, T. Marcaide, J.M.	NRAO-CV Bologna Bologna Bologna Bologna Valencia	VLBA polarization observations of NGC 315	6 Phased array VLBI	6	10.0
BC057	Carrara, E.A. Zensus, J.A. Abraham, Z. Lobanov, A.P.	NRAO-Socorro NRAO-CV Sao Paulo MPIR	Parsec scale structure of the 3C273 jet: multi-frequency monitoring	0.7, 1.3, 3.6, 6	3	2.5
BD037	Denn, G. Mutel, R.	Iowa Iowa	Polarized VLB jet of BL Lac	1.3, 2, 6	6	2.0
BD038	Desai, K.M. Anantharamaiah, K.R. Dhawan, V. Gothaskar, P.	NRAO-CV Raman NRAO-Socorro NCRA	Scattering of 3C279 in the solar wind	0.7, 1.3, 2 w/AH593, AF310, AB395, AS395, AM544	10, 12, 14	18.9
BP031	Preuss, E. Alef, W. Pauliny-Toth, I.I.K. Kellermann, K.I. Gabuzda, D.	MPIfR MPIfR MPIfR NRAO-CV Lebedev	Polarimetry of the FRII radio galaxy 3C111	0.7, 3.6	2	2.5
BS044	Satoh, S. Inoue, M. Nakai, N. Shibata, K.M. Migenes, V. Kameno, S. Fujisawa, K.	NAO NAO NAO NAO NAO NAO ISAS	Monitoring of the continuum and H2O maser emission in NGC 3079	1.3, 2, 3.6 Phased array VLBI	20	13.0
BS051	Shaffer, D.B. Kellermann, K.	Radiometrics NRAO-CV	CTD93-CD or CSO: Where is the nucleus?	0.7	27	1.0
GG028	Gabuzda, D.C. Kollgaard, R.I. McHardy, I.	ASC Lebedev Penn State Southampton	BL Lacertae object spirals-true host galaxies or intervening systems	6 Phased array VLBI	22	24.5
GM027	Marcaide, J.M. Ros, E. Alberdi, A. Diamond, P.J. Shapiro, I.I. Guirado, J.C. Preston, R.A. Jones, D. Witzel, A. Krichbaum, T.P. Schilizzi, R.T. Mantovani, F. Trigilio, C. Whitney, A.R.	Valencia Valencia ESA-LAEFF NRAO-Socorro Cfa JPL JPL JPL MPIfR MPIfR JIVE Bologna Noto Haystack	Monitoring the expansion of SN 1993J at 6 cm	6 Phased array VLBI	21	12.2
GW014	Leppanen, K. Valtaoja, E. Wiik, K. Schilizzi, R. Pilbratt, G.	JIVE Metsahovi Metsahovi JIVE ESTEC	Sample of 15 AGN	1.3 Single antenna VLBI w/Baselines, AH593, Pointing, AB705, AD394, AL404, AM540	18	24.0
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Software General tests		2, 4, 8, 9,	40.5 48.7 64.5 31.7 36.7

The average downtime was 5.8%.

The array was scheduled for
532.9 hours (71.3% of time) for astronomical programs
133.8 hours (17.9% of time) for tests/calibration
80.4 hours (10.8% of time) for maintenance
Total 747.1 hours (100%) scheduled.

Array was in configuration AD from October 1 through October 15.

and in the A configuration from October 16 through October 31,

Total Number of astronomical programs was 60.

The following independent proposals shared simultaneous observing time (62.9 hours total simultaneous observing):

Projects	Hours
AA207/MOVE/OP	4.7
AB705/GW014	2.0
AD394/GW014	5.0
AD395/BD038	5.0
AD395/BD038	5.5
AF310/BA022	1.0
AF310/BD038	0.2
AF310/BD038	0.5
AF314/BA022	1.5
AG494/MOVE/OP	2.7
AG493/MOVE/OP	2.3
AH592/BA022	1.5
AH593/BA022	1.5
AH593/BD038	1.0
AH593/BD038	0.8
AH593/GW014	1.0
A1064/BA022	5.3
AL404/GW014	8.0
AM540/GW014	1.7
AM544/BD038	1.4
AM548/BA022	2.5
AW362/BA022	1.0
BA022/BA022	1.0
Baseline/GW014	1.3
Pointing/GW014	5.0

The average downtime was 5.8%.

The array was scheduled for
503.3 hours (67.4% of time) for astronomical programs
137.5 hours (18.4% of time) for tests/calibration
80.4 hours (10.8% of time) for maintenance
Total 721.2 hours (96.5%) scheduled.

Array was in configuration AD from October 1 through October 15.

and in the A configuration from October 16 through October 31,

Total Number of astronomical programs was 60.

The following independent proposals shared simultaneous observing time (62.9 hours total simultaneous observing):

Projects	Hours
AA207/MOVE/OP	4.7
AB705/GW014	2.0
AD394/GW014	5.0
AD395/BD038	5.0
AF310/BA022	1.0
AF310/BD038	0.2
AF310/BD038	0.5
AF314/BA022	1.5
AG494/MOVE/OP	2.7
AG493/MOVE/OP	2.3
AH592/BA022	1.5
AH593/BA022	1.5
AH593/BD038	1.0
AH593/BD038	0.8
AH593/GW014	1.0
A1064/BA022	5.3
AL404/GW014	8.0
AM540/GW014	1.7
AM544/BD038	1.4
AM548/BA022	2.5
AW362/BA022	1.0
BA022/BA022	1.0
Baseline/GW014	1.3
Pointing/GW014	5.0

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AG 493 / 2.7

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA198	Anglada, G. Sepulveda, I. Torrelles, J.M. Rodriguez, L.F. Yang, J.	UNAM Barcelona IAA UNAM NRO	Powering source of L1287 outflow:deeply embedded object or FU Ori Star	1.3 line	1	7.0
AB705	Burke, B.F. Becker, D.J. Lehar, J. Hewitt, J.N. Roberts, D.H.	MIT MIT CfA MIT Brandeis	Time delay of the gravitational lens 0957+561	3.6, 6 w/BM058	15	3.0
AB766	Blundell, K. Rawlings, S. Lacy, M. Littlewood, C. Willott, C. Serjeant, S.	Oxford Oxford Oxford Oxford Oxford Imperial College	The evolution of radio quasars and their environments from z=0.5-3	3.6, 6 w/BD034	3	1.5
AB789	Bujarrabal, V. Alcolea, J.	OAN OAN	M1-92, Minkowski's footprint	1.3	19, 22, 28	4.6
AB791	Balcells, M. van Gorkom, J. Sancisi, R.	Groningen Columbia Kapteyn	Accreting HI on NGC 3656	20 line	9	4.2
AB793	Brown, A. Drake, S.A. Jones, K. Ayres, T.	Colorado USRA-GFSC Queensland Colorado	Multiwavelength study of flaring and coronal structure on HR1099	2, 3.6, 6, 20 w/BD034	2, 3, 4, 5, 6, 7	57.5
AB813	Butler, B. Palmer, P.	NRAO-Socorro Chicago	Detection of OH from Comet Hale-Bopp	20 line	6, 27, 30	9.5
AC308	Condon, J. Cotton, W. Perley, R.	NRAO-CV NRAO-CV NRAO-Socorro	All sky survey	20 w/BM058	4,7,9-11,13- 15,17-26,28- 30	187.1
AC441	Cotton, B. Swain, M. Bridle, A. Kassim, N.	NRAO-CV Rochester NRAO-CV NRL	J2146+82-Large radio galaxy with misaligned outbursts?	6, 20, 90	1	2.0
AD384	DePree, C.G. Churchwell, E. Goss, M.	Agnes Scott College Wisconsin NRAO-Socorro	7mm line and continuum observations of the unusual source M17-UC1	0.7 line	12	2.0
AD386	DePree, C.G. Howard, E. Koerner, D.	Agnes Scott College Rochester JPL	CS J=1,0 observations of the rotating Torus around K3-50A	0.7, 1.3 line	1	3.0
ADHOC1	Frail, D.A.	NRAO-Socorro	Adhoc Proposal		18	1.1
AF318	Florkowski, D.	USNO	Wolf-Rayet binary HD 192641	20, 6, 3.6	9	1.0
AG489	Gopalswamy, N. Kundu, M.R. Lara, A. Hanaoka, Y. Nitta, N. Gurman, J.B.	Maryland Maryland Maryland Nobeyama Lockheed NASA-GSFC	Study of solar filaments using VLA, Nobeyama Radioheliograph	1.3, 2, 3.6, 6, 20, 90	8, 15, 17	19.1
AH572	Hjellming, R.M. Rupen, M.P.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole candidate J1719	2, 3.6, 6, 20 w/BD034	2, 9, 12	3.6
AH573	Hjellming, R.M. Rupen, M.P.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole binary GRO J1655	2, 3.6, 6, 20	6, 19	2.0
AJ255	Jore, K. Broeils, A. Haynes, M.	Cornell Stockholm Cornell	Formation of counter-rotating components in Sa galaxies	20 line	5	8.0
AK376	Kulkarni, S.R. Frail, D.A.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters		15	1.5
AK424	Krause, M. Dumke, M.	MPIfR MPIfR	Magnetic field configuration in the edge on spirals NGC4565 & NGC 5907	6	28	8.0
AK427	Kassim, N.E.	NRL	333 MHz imaging of W44	90 w/BD034	2	3.0
AK430	Kawabe, R. Ohta, K. Yamada, T. Kohn, K.	Nobeyama Kyoto Inst. Physical/Chem Nobeyama	CO Imaging of the luminous quasar BR1202-075 at z=4.7	0.7 line	13, 14	22.0
AM512	Mirabel, F. Rodriguez, L.F.	Saclay UNAM	Large scale radio lobes in GRS 1915+105	2	29	4.5
A0123	O'Donoghue, A.A. Eilek, J.A. Owen, F.N.	St. Lawrence NMIMT NRAO-Socorro	Examining the morphological and dynamical basis for FRI/FRII boundary	6	19	2.0
A0125	Olling, R.	Columbia	Determining the shape of dark matter halos from the flaring of HI	20 line	27, 29	18.1

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AP332	dePater, I.	Calif-Berkeley	Jupiter Patrol: Aftermath of Comet-Jupiter Crash	20, 90	20	3.0
AP338	Paredes, J.M. Marti, J. Tavani, M. Peracaula, M. Kniffen, D. Mattox, J.	Barcelona Saclay Columbia Barcelona Hampden-Sydney Maryland	Simultaneous radio and gamma ray observations of LS I 61d 303	2, 3.6 w/BM058	6,8,9,12,14-17,19-22,24-26,28-30	11.7
AQ011	Quillen, A.C. Yun, M.S. Kenney, J. Pogge, R.W.	Ohio State NRAO-Socorro Yale Ohio State	Barred spirals NGC 2903 and NGC 3351	2 line	16	1.0
AS568	Sramek, R. Weiler, K. VanDyk, S. Panagia, N.	NRAO-Socorro NRL Calif.-Berkeley STScI	Properties of radio supernovae	1.3, 2, 3.6, 6, 20	12	1.5
AS591	Simpson, C.E. Gottesman, S.T.	Florida Inst. Florida Inst.	Evolution of low-mass dwarf galaxies: an HI study	20 line	20, 24	16.5
AU066	Urbanik, M. Klein, U. Chyzy, K. Beck, R.	Jagiellonian MPIfR Jagiellonian MPIfR	Magnetic fields in irregular galaxies	3.6, 6	1, 2	20.0
AV226	van Gorkom, J.H. Carilli, C.L. Stoche, J.T. Shull, J.M.	Columbia NRAO-Socorro Colorado Colorado	HI Environment of nearby Ly A clouds	20 line	16, 17, 19, 27	34.1
AW433	Wootten, A. Mangum, J. Torrelles, J. Gomez, J.F. Barsony, M. Hurt, R.	NRAO-CV Arizona IAA IAA Calif.-Riverside Calif.-Riverside	Structure of the disk(s) of a multiple protostar, S68N	1.3 line	3	9.0
AW440	White, S.M. Lim, J. Aschwanden, M. Kundu, M.R.	Maryland Academia Sinica Maryland Maryland	Multiwavelength campaign for AU Mic	3.6, 20	8, 9	14.0
AY073	Yun, J.L. Moreira, M.C. Torrelles, J.M.	Lisbon Lisbon IAA	Radio continuum sources seen towards Bok globules	2, 6	5	2.0
AZ084	Zwaan, M.A. Briggs, F.H. Sprayberry, D.	Groningen Groningen Groningen	Galaxies with extreme low surface density HI	20 line	12	4.5
BB056	Blundell, K.M. Lacy, M. Beasley, T.J. Walker, R.C.	Oxford Oxford NRAO-Socorro NRAO-Socorro	Parsec scale structure of radio quiet quasars	3.6 Phased array VLBI	22	11.9
BD034	Dhawan, V. Kellermann, K.I. Romney, J.D.	NRAO-Socorro NRAO-CV NRAO-Socorro	3C84 at 7mm	0.7 Single antenna VLBI w/AK427, AH572, AB793, AB766	2	14.3
BH020	Hagiwara, Y. Kawabe, R. Diamond, P.J. Kameno, S. Nakai, N. Inoue, M. Kohno, K.	Graduate University Nobeyama NRAO-Socorro Nobeyama Nobeyama Nobeyama Nobeyama	Newly found H2O megamaser in galaxy NGC 5793	1.3 Phased array VLBI	16	8.0
BM056	Moran, J.M. Herrnstein, J.R. Greenhill, L.J. Miyoshi, M. Inoue, M. Nakai, N. Diamond, P.J. Henkel, C.	Cfa Cfa Cfa Mitzusawa Nobeyama Nobeyama NRAO-Socorro MPIfR	The proper motions of the water vapor masers in NGC 4258	1.3 Phased array VLBI	21	14.0
BM058	Marvel, K.B. Claussen, M. Wootten, A. Wilking, B.	NMSU NRAO-Socorro NRAO-CV Missouri	Water masers in low luminosity YSOs	1.3 Single antenna VLBI w/AC308, AP338, test/AB705	15	7.6
BN003	Nakai, N. Inoue, M. Miyoshi, M. Diamond, P.	Nobeyama Nobeyama Mitzusawa NRAO-Socorro	H2O megamaser in the seyfert galaxy NGC 5506	1.3 Phased array VLBI	7	10.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BR034	Roberts, D.H. Wardle, J.F.C. Ojha, R. Roman, D.C. Aller, H.D. Aller, M.F. Hughes, P.A.	Brandeis Brandeis Brandeis Michigan Michigan Michigan	Sources with rapidly varying polarization	1.3, 2	28	2.5
BR040	Ratner, M.I. Bartel, N. Lebach, D.E. Lestrade, J-F. Shapiro, I.I.	CfA York CfA Meudon CfA	Astrometry of HR 1099 and IM Peg for the gravity probe-b mission	3.6 Phased array VLBI	12,13	7.9
	Staff	NRAO	Baselines, Pointing, Delays Filming of motion picture "Contact" Maintenance Software General tests			34.5 25.5 62.0 30.0 21.5

The average downtime was 3.1%.

The array was scheduled for
 549.2 hours (76.1% of time) for astronomical programs
 97.7 hours (13.5% of time) for tests/calibration
 75.1 hours (10.4% of time) for maintenance
 Total 722.0 hours (100.0%) scheduled.

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

Total Number of astronomical programs was 43.

The following independent proposals shared simultaneous observing time (21.9 hours total simultaneous observing):

Projects	Hours
AB705/BM058	1.0
AB766/BD034	0.8
AB793/BD034	11.5
AC308/BM058	1.1
AH572/BD034	1.0
AK427/BD034	1.0
AP338/BM058	0.5
Tests/BM058	5.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA198	Anglada, G. Sepulveda, I. Torrelles, J.M. Rodriguez, L.F. Yang, J.	UNAM Barcelona IAA UNAM NRO	Powering source of L1287 outflow: deeply embedded object or FU Ori Star	1.3 line	31	1.0
AA200	Arnal, M. Rodriguez, L.F.	IAR UNAM	Anisotropic winds in WR stars?	3.6	1	0.5
AB705	Burke, B.F. Becker, D.J. Lehar, J. Hewitt, J.N. Roberts, D.H.	MIT MIT CfA MIT Brandeis	Time delay of the gravitational lens 0957+561	3.6, 6	19	2.0
AB775	Beck, R. Shoutenkov, V. Shukurov, A. Sokoloff, D.	MPIfR Lebedev Moscow U. Moscow U.	Magnetic fields in barred galaxies	3.6, 6	17	7.0
AB780	Bridle, A.H. Perley, R.A. Swain, M.R.	NRAO-CV NRAO-Socorro Rochester	Fully sampled imaging of the lobes of 3C219	2, 3.6	18	5.0
AB785	Bourke, T. Myers, P.	CfA CfA	OH Zeeman observations of S88B	20 line	22	12.5
AB794	Balser, D.S. Bania, T.M. Rood, R.T. Wilson, T.L.	NRAO-GB Boston Virginia MPIfR	3He+ measurements in planetary nebulae: J320	3.6 line w/BG050	1-3, 13, 15, 19 , 22	41.5
AC308	Condon, J. Cotton, W. Perley, R.	NRAO-CV NRAO-CV NRAO-Socorro	All sky survey	20 w/BM058	1, 3, 4, 7, 9, 12 , 14, 15, 17, 21 , 23, 25, 26, 30	135.5
AC461	Clarke, T.E. Kronberg, P.P. Bohringer, H.	Toronto Toronto MPE	Polarization of radio sources within and behind Abell Clusters	6, 20	4, 5, 8	28.0
AD378	Dahlem, M.	STScI	Extended HI structure of NGC 4666	20 line	13	3.5
AD380	Dubner, G. Cillis, A. Holdaway, M.A. Kassim, N. Mirabel, F.	IAFE IAFE NRAO-Tucson NRL Saclay	Radio continuum observations in the direction of W50	20, 90	18	7.0
AD385	DePree, C.G. Churchwell, E. Goss, M.	Agnes Scott Wisconsin NRAO-Socorro	H52 alpha observations of G20.08	0.7 line	13	2.0
ADHOC	Claussen, M.	NRAO-Socorro	Adhoc Proposal		2, 3	1.4
ADHOC	Sramek, R.	NRAO-Socorro	Adhoc Proposal		17	0.5
ADHOC	Hjellming, R.	NRAO-Socorro	Adhoc Proposal		21	1.0
AG448	Greenhill, L.J. Henkel, C.	CfA MPIfR	Monitoring the acceleration of water megamaser features in NGC 4258	1.3 line	12	5.0
AG449	Gizani, N. Leahy, J.P. Garrington, S.T. Perley, R.A.	Jodrell Bank Jodrell Bank Jodrell Bank NRAO-Socorro	Faraday rotation in Hercules A	3.6	13	1.5
AG486	Golla, G. Beck, R.	Bochum MPIfR	Radio halo of NGC 4631: wind or dynamo?	20	18, 25	16.0
AG492	Goss, M. Cappa, C.	NRAO IAR	HI associated with planetary nebula NRC 2359	20 line	10	3.0
AH572	Hjellming, R.M. Rupen, M.P.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole candidate J1719	2, 3.6, 6, 20	2, 13, 14, 29	5.8
AH573	Hjellming, R.M. Rupen, M.P.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole binary GRO J1655	2, 3.6, 6, 20	8, 24	3.0
AJ253	Jorsater, S. Kristen, H. van Moorsel, G. Lindblad, P.A.B. Broeils, A.	Stockholm Stockholm NRAO-Socorro Stockholm Stockholm	HI Observations of the bright barred spiral galaxies	20 line	15	4.1
AK376	Kulkarni, S.R. Frail, D.A.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters		6	1.5
AK429	Kuiper, T.B.H. Velusamy, T. Langer, W.D.	JPL JPL JPL	CCS in protostar L483	1.3 line	5	8.0
AL383	Lisenfeld, U. Alexander, P. Pooley, G.G.	Arcetri MRAO MRAO	Cosmic ray propagation and the star formation history of galaxies	3.6, 6	2, 25	10.0
AL384	Lim, J. White, S.M. Cully, S.L.	Academia Sinica Maryland Calif.-Berkeley	Radio and x-ray observations of eclipsing Binary V471 Tauri	3.6, 6	28, 29	24.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AN070	Nordgren, T.E. Terzian, Y.	Cornell Cornell	Morphology and kinematics of the possible merger remnant Mrk 266	20 line	19	4.0
AN071	Nordgren, T.E. Salpeter, E.E. Terzian, Y. Chengalur, J.N.	Cornell Cornell Cornell NFRA	HI morphology and orbital kinematics of galaxy pairs	20 line	11, 12	16.0
A0123	O'Donoghue, A.A. Eilek, J.A. Owen, F.M.	St. Lawrence NMIMT NRAO-Socorro	Examining the morphological and dynamical basis for FRI/FRII boundary	6	2, 5, 19	6.5
AR352	Richer, J. Chandler, C.	MRAO MRAO	Thermal SiO emission in molecular outflows	0.7 line	8	10.0
AR359	Robinson, B. Yusef-Zadeh, F. Roberts, D. Goss, M. Uchida, K. Green, A.	Northwestern Northwestern Illinois NRAO-Socorro MPIFR Sydney	A search for 1720 MHz OH emission from the galactic center	20 line	19, 28	16.0
AS568	Sramek, R. Weiler, K. VanDyk, S. Panagia, N.	NRAO-Socorro NRL Calif.-Berkeley STSci	Properties of radio supernovae	1.3, 2, 3.6, 6, 20	6	2.0
AS586	Schoenmakers, A.P. van der Laan, H. de Bruyn, A.G. Rottgering, H.	Utrecht Utrecht NFRA Leiden	Giant radio galaxy candidates with redshifts above 0.4	3.6 w/BG050	3, 23	22.5
AS587	Szomoru, A. van Gorkom, J. Gregg, M.	Groningen Columbia Lawrence Livermore	HI-deficient galaxies at the center of the Bootes void?	20 line	24, 26	24.0
AS588	Szomoru, A. van Gorkom, J. Gregg, M.	Groningen Columbia Lawrence Livermore	Structure of substructure; voids in voids	20 line w/BG045, BM058	10, 11, 16	35.9
AU066	Urbanik, M. Klein, U. Chyzy, K. Beck, R.	Jagiellonian Bonn Jagiellonian MPIFR	Magnetic fields in irregular galaxies	3.6, 6	30	11.0
AV223	Vasquez, R. Torrelles, J.M. Lopez, J.A. Miranda, L.F.	IAA IAA UNAM Complutense	Search for BRETS in planetary nebulae	3.6 line	8	1.5
AV227	Verdes-Montenegro, L Yun, M.S. Huchtmeier, W.K. del Olmo, A. Perea, J.D.	IAA NRAO-Socorro MPIFR IAA IAA	HI Study of Hickson compact group HCG 96	20 line	20	4.0
AV229	Vasisht, G. Soberman, G.E. Frail, D.A.	Caltech Caltech NRAO-Socorro	Search for extended lobes around galactic X-ray transients	90	23, 27	7.6
AW436	Wilcots, E.M. Hodge, P.W. Olsen, K.	Wisconsin Washington Washington	HI Mosaic of IC 1613	20 line	29	12.0
AW437	Wyrowski, F. Walmsley, C.M. Hofner, P.	Cologne Cologne Cologne	Carbon recombination lines as a probe of the Orion PDR	3.6 line	24, 26	14.0
AW438	Wilson, T.L. Gaume, R.A. Johnston, K.J.	MPIFR USNO USNO	Heating source of Orion-KL nebula	1.3 line	20	7.5
AW443	Wiseman, J. Brown, R.	NRAO-CV NRAO-CV	High velocity ionized wind in DR 21	3.6 line	20	12.0
AW450	Wilcots, E.M. Hoessel, J.G.	Wisconsin Wisconsin	HI in possible Local Group member DDO 187	20 line	8	2.1
AY079	Yun, M.S.	NRAO-Socorro	Continuum sources in the field of distant RG 1202-07	3.6	29	1.5
BB064	Benz, A.O. Conway, J.E. Alef, W. Gudel, M.	ETH Onsala MPIFR Paul Scherrer	Planet search via astrometry of dMe stars	3.6 Phased array VLBI	9	10.0
BD031	Diamond, P.J. Field, D. Kemball, A.J. Gray, M.D. Mashedier, M.R.W.	NRAO-Socorro Bristol NRAO-Socorro Bristol Bristol	Polarization observations of OH masers in star forming regions	20	2	2.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BG045	Greenhill, L.J. Moran, J.M. Danchi, W.C. Bester, M.	CfA CfA Calif.-Berkeley Calif.-Berkeley	Snapshot survey of SiO maser stars at maximum and minimum luminosity	0.7 single antenna VLBI w/tests, AS588	11	10.2
BG047	Greenhill, L. Koekemoer, A. Gwinn, C.R. Moran, J. Herrnstein, J. Henkel, C. van Breugel, W. Dey, A.	CfA Mt. Stromlo Calif.-Santa Barbara CfA CfA MPIfR Lawrence Livermore Lawrence Livermore	Ultraluminous water maser emission in an early-type galaxy at 100Mpc	1.3 Phased array VLBI	2	5.6
BG050	Greenhill, L. Chernin, L.	CfA Calif.-Berkeley	Collimation and launch of protostellar outflows	1.3 Single antenna VLBI w/AB794, AS586	3	9.7
BL038	Lestrade, J.F. Phillips, R.B. Jones, D.I. Preston, R.A.	Meudon Haystack JPL JPL	Search for extra solar planets by VLBI astrometry	3.6 Phased array VLBI	1, 12, 13	18.0
BM058	Marvel, K.B. Claussen, M. Wootten, A. Wilking, B.	NMSU NRAO-Socorro NRAO-CV Missouri	Water masers in low luminosity YSOs	1.3 Single antenna VLBI w/AC308, tests, AS588	16	9.2
BR034	Roberts, D.H. Wardle, J.F.C. Ojha, R. Homan, D.C. Aller, H.D. Aller, M.F. Hughes, P.A.	Brandeis Brandeis Brandeis Brandeis Michigan Michigan Michigan	Sources with rapidly varying polarization	1.3, 2	2	3.0
BR041	Rupen, M.P. Bartel, N. Beasley, A.J. Conway, J. Bietenholz, M. Rius, A. Altunin, V. Jones, D. Graham, D. Venturi, T. Umana, G.	NRAO-Socorro York NRAO-Socorro Onsala York Barcelona JPL JPL MPIfR Bologna Bologna	VLBI Imaging of Supernova 1993J in M81	3.6, 6, 20 Phased array VLBI	31	18.0
	Staff	NRAO	Baselines, Pointing, Delays		...	45.5
			Maintenance		...	42.5
			Software		...	32.5
			General Tests		...	28.4

The average downtime was 4.6%.

The array was scheduled for

602.7 hours (80.8% of time) for astronomical programs

68.3 hours (9.2% of time) for tests/calibration

75.0 hours (10.1% of time) for maintenance

Total 746.0 hours (100.1%) scheduled.

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

Total Number of astronomical programs was 52.

The following independent proposals shared simultaneous observing time (29.1 hours total simultaneous observing):

Projects	Hours
AB794/BG050	5.0
AC308/BM058	0.7
AS586/BG050	4.7
AS588/BG045	6.2
AS588/BM058	1.4
Tests/BM058	2.0
Tests/BM058	5.1
Tests/BG045	4.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA195	Alexander, P.	Cambridge	Efficient ram-pressure stripping in close galaxy pairs	20	25	5.8
AA199	Andre, P. Motte, F. Bontemps, S. Bernard, J.-P.	CEA-Saclay CEA-Saclay CEA-Saclay IAS-Orsay	Nature of newly discovered cold protostellar clumps	3.6 w/BW027	25	8.0
AA200	Arnal, M. Rodriguez, L.F.	IAR UNAM	Anisotropic winds in WR stars?	3.6 w/BW027	25, 31	2.5
AB705	Burke, B.F. Becker, D.J. Lehar, J. Hewitt, J.N. Roberts, D.H.	MIT MIT CfA MIT Brandeis	Time delay of the gravitational lens 0957+561	3.6, 6	7	2.0
AB774	Beck, R. Hoernes, P.	MPIfR MPIfR	Magnetic arms in NGC 6946	3.6	21, 23	16.0
AB775	Beck, R. Shoutenkov, V. Shukurov, A. Sokoloff, D.	MPIfR Lebedev Moscow U. Moscow U.	Magnetic fields in barred galaxies	3.6, 6	22	14.0
AB787	Bastian, T.S. Chiuderi-Drago, F. Alissandrikis, C.	NRAO-Socorro Florence Athens	Search for linearly polarized radiation over solar active regions	3.6, 6 line w/BG050	5, 13, 16, 28	22.0
AB790	Benz, A.O. Krucker, S. Bastian, T. Keller, C.U. Harrison, R.A.	ETH ETH NRAO-Socorro NOAO-Tucson RAL	Chromospheric and coronal changes above the network of the quiet Sun	1.3, 2, 3.6, 6	12, 27	16.0
AB792	Brown, A. Ambruster, C. Jeffries, R. Bromage, G.	Colorado Villanova Birmingham Lancashire	Correlation between stellar radio emission and rotation	2, 3.6, 6, 20	11, 18	7.5
AC308	Condon, J. Cotton, W. Perley, R.	NRAO-CV NRAO-CV NRAO-Socorro	All sky survey	20	1,3-8,11-20, 22,25,27,30	249.3
AC431	Capetti, A. Zirbel, E. Parma, P.	STScI STScI Bologna	The properties of intermediate luminosity radio galaxies	6	15	3.0
AC459	Cepa, J. del Rio, S. Vila, B. Kawabe, R. Brinks, E.	IAC IAC Nobeyama Nobeyama Guanaajuato	Atomic gas in early type galaxies	20 line	15, 16	3.5
AC463	Carilli, C. Menten, K. Reid, M. Rupen, M.	NRAO-Socorro CfA CfA NRAO-Socorro	Redshifted molecular absorption towards red quasars and grav. lenses	0.7, 3.6 line	23, 26	13.0
AC465	Crutcher, R.M. Roberts, D.A. Troland, T.H.	Illinois Illinois Kentucky	OH Zeeman mapping of NGC 2024	20 line	19	10.5
AC477	Cimatti, A. Freudling, W.	Arcetri ESO	A high redshift radiogalaxy	3.6, 2, 1.3	19	1.5
ADHOC1	Dhawan, V.	NRAO-Socorro	Adhoc Proposal		10,13	1.5
ADHOC2	Troland, T.	Kentucky	Adhoc Proposal		13	6
ADHOC3	Rupen, M.	NRAO-Socorro	Adhoc Proposal		29	0.8
AF304	Feretti, L. Giovannini, G.	Bologna Bologna	Clusters with possible radio halos	20	14	10.0
AF318	Florkowski, D.	USNO	Wolf-Rayet binary HD 192641	20, 6, 3.6	4, 27	4.0
AG458	Guedel, M.	Paul Scherrer	Two remarkably active, late F-type stars with widely different ages	3.6	29	2.1
AG482	Gomez, Y. Rodriguez, L.F.	UNAM UNAM	H2CO in MWC349A	2 line	29	6.5
AG484	Gibson, S.J. Holdaway, M.A. Nordsieck, K.H.	Wisconsin NRAO-Tucson Wisconsin	HI mapping of nebular filaments in the Pleiades Region	20 line w/BM058	21, 26	10.0
AH571	Huchtmeier, W. Westpfahl, D. Adler, D.	MPIfR NMIMT NRAO-Socorro	CAS 1 and MB 1: A local group member and a merger victim	20 line	27	3.0
AH572	Hjellming, R.M. Rupen, M.P.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole candidate J1719	2, 3.6, 6, 20	10	1.5
AH573	Hjellming, R.M. Rupen, M.P.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole binary GRO J1655	2, 3.6, 6, 20	29,31	3.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH584	Hunter, D.A. Wilcots, E.M. van Woerden, H. Gallagher, J.S.	Lowell Wisconsin Groningen Wisconsin	Gas halo around nearby irregular galaxy Sextans A	20 line w/BM058	21, 26	20.0
AK376	Kulkarni, S.R. Frail, D.A.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters		14	2.0
AL385	Lacy, M. Rawlings, S. Hughes, D. Stevens, R.	Oxford Oxford RO Edinburgh Oxford	Search for CO Emission in most distant known radio galaxy	0.7, 1.3 line	15, 18	11.8
AL390	Lee, J. White, S.M. Kundu, M.R.	Maryland Maryland Maryland	Solar active regions	2, 3.6, 6	6	10.0
AM466	Mirabel, I.F. Duc, P.-A. Brinks, E.	CNRS, France CNRS, France Guajuato	HI in the merger Arp 105	20 line	16, 30	2.5
AM529	Minter, A. Lockman, F.J.	NRAO-GB NRAO-GB	The spatial power spectrum of HI fluctuations	20 line	7	12.0
AM530	Miralles, M.P. Kurtz, S.	FCRAO UNAM	IRAS 20333+4102: an ultra compact HII region in expansion?	3.6 w/BW027	25	1.0
AM531	Miralles, M.P. Ho, P.	FCRAO CfA	IRAS 18507+0121: a dense core with an unusual line profile	1.3 line w/BW027	24	4.0
AR354	Reipurth, B. Rodriguez, L.F.	ESO UNAM	Exciting sources of new giant HH flows	3.6	30	5.5
AR356	Raga, A. Reipurth, B. Canto, J. Rodriguez, L.F.	UNAM ESO UNAM UNAM	Exciting source of the "deflected" HH system 270/110	3.6, 6	23	6.5
AR357	Raulin, J.-P. Gopalswamy, N. Kundu, M.R. Lara, A. Gurman, J.	Maryland Maryland Maryland Maryland NASA-GSFC	Search for cool material in solar active regions	6, 20, 90 w/BM058	4, 8	16.0
AS568	Sramek, R. Weiler, K. VanDyk, S. Panagia, N.	NRAO-Socorro NRL Calif.-Berkeley STScI	Properties of radio supernovae	1.3, 2, 3.6, 6, 20	6	3.0
AT188	Thornley, M.D. Mundy, L.G.	Maryland Maryland	Searching for density wave signatures in nearby flocculent galaxies	20 line	25	3.1
AW449	Willis, T.	DRAO	A large, amorphous radiosource near 3C 380		11	1.5
AZ081	Zepka, A. Lundgren, S.C. Kassim, N.E. Cordes, J.M. Frail, D.A.	Calif.-Berkeley NRL NRL Cornell NRAO-Socorro	Search for the supernova remnant of young pulsar J0631+1036	20, 90	30	4.5
AZ084	Zwaan, M.A. Briggs, F.H. Sprayberry, D.	Groningen Groningen Groningen	Galaxies with extreme low surface density HI	20 line	20	8.0
AZ085	Zwaan, M.A. Briggs, F.H. Sprayberry, D.	Groningen Groningen Groningen	HI selected galaxies from the Arecibo deep strip survey	20 line	28	3.5
AZ086	Zhang, Q. Ho, P.T.P.	CfA CfA	HC3N in infall candidate W51E	0.7 line	2	8.0
BG047	Greenhill, L.	CfA	Ultraluminous water maser emission in an early type galaxy at 100 Mpc	1.3	29,31	2.0
BG050	Greenhill, L. Chernin, L.	CfA Calif.-Berkeley	Collimation and launch of protostellar outflows	1.3 Single antenna VLBI w/Baselines, AB787	5	7.9
BH021	Hough, D.H. Readhead, A.C.S.	Trinity Caltech	Lobe-dominated superluminal quasar 3C245	2, 3.6, 6	3	3.0
BL027	Lestrade, J.-F. Phillips, R.B. Jones, D.L. Preston, R.A.	Meudon Haystack JPL JPL	Astrometric monitoring of Sigma2 CrB	3.6 Phased array VLBI	28	11.2
BL038	Lestrade, J.F. Phillips, R.B. Jones, D.L. Preston, R.A.	Meudon Haystack JPL JPL	Search for extra solar planets by VLBI astrometry	3.6 Phased array VLBI	1, 11	12.0
BM058	Marvel, K.B. Claussen, M. Wooten, A. Wilking, B.	New Mexico State NRAO-Socorro NRAO-CV Missouri	Water masers in low luminosity YSOs	1.3 Single antenna VLBI w/AG484, AH584, AR357	4, 26	16.4

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BM060	Menten, K.M. Reid, M.J.	CfA CfA	Proper motions of SiO masers in the central parsec of the galaxy	0.7 Single antenna VLBI w/Pointing, adhoc, tests	12	5.8
BW027	Wilkinson, P. Augusto, P. Browne, I.	Jodrell Bank Jodrell Bank Jodrell Bank	Resolved flat spectrum radio sources	6 Single antenna VLBI w/AM531, AM530, AA199, AA200	24	12.0
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Software Summer student projects General Tests		8, 8	51.0 54.6 30.4 2.3 33.4

The average downtime was 4.6%.

The array was scheduled for
 578.4 hours (77.5% of time) for astronomical programs
 82.7 hours (11.1% of time) for tests/calibration
 85.0 hours (11.4% of time) for maintenance
 Total 746.1 hours (100.0%) scheduled.

Array was in configuration D from July 1 through July 31.

Total Number of astronomical programs was 50.

The following independent proposals shared simultaneous observing time (42.2 hours total simultaneous observing):

Projects	Hours
AA199/BW027	8.0
AA200/BW027	0.1
AB787/BG050	5.8
ADHOC/BM060	0.5
AG484/BM058	4.4
AH584/BM058	4.6
AM530/BW027	1.0
AM531/BW027	3.0
AR357/BM058	7.3
Baselines/BG050	2.2
Pointing/BM060	4.5
Test/BM060	0.8

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB705	Burke, B.F. Becker, D.J. Lehar, J. Hewitt, J.N. Roberts, D.H.	MIT MIT CfA MIT Brandeis	Time delay of the gravitational lens 0957+561	3.6, 6	11	2.5
AB781	Bock, D.C. Frail, D.A. Green, A.J.	Sydney NRAO-Socorro Sydney	The Vela X region	20 HTRP w/BG050	2, 6	8.4
AB786	Beck, R. Ehle, M. Ye, T.	MPIFR ATNF Sydney	Search for magnetic arms in NGC 2997	3.6, 6	1, 9	13.0
AB797	Brogan, C.L. Troland, T.H. Roberts, D.A. Crutcher, R.M.	Kentucky Kentucky Illinois Illinois	HI and OH Zeeman observations toward M17	20 line	2	8.0
AB799	Brinks, E. Duc, P.-A.	Guanajuato ESO	HI in NGC 6845	20 line	19	1.5
AC308	Condon, J. Cotton, W. Perley, R.	NRAO-CV NRAO-CV NRAO-Socorro	All sky survey	20	1, 3, 5-13, 15, 16, 18, 20, 22, 23, 29, 30	196.8
AD374	Duncan, A.R. Haynes, R.F. Stewart, R.T. Goss, M. Holdaway, M.	Queensland ATNF ATNF NRAO-Socorro NRAO-Tucson	SNR candidates from the Parkes 2.4 GHz galactic plane survey	20	1	7.0
ADHOC1	Carilli, C.	NRAO	Adhoc Proposal		4	1.0
ADHOC2	Hjellming, R.M.	NRAO	Adhoc Proposal		4	1.4
ADHOC3	Blundell, K.	Oxford	Adhoc Proposal		27	1.0
AF305	Fomalont, E.B. Kellermann, K.I. Richards, E. Partridge, R.B. Windhorst, R.A.	NRAO-CV NRAO-CV Virginia Haverford Arizona State	The Hubble deep field; sensitive 8.4 GHz obs.	3.6 w/move/ops	15, 16, 20-24 BS040	58.1
AG448	Greenhill, L.J. Henkel, C.	CfA MPIFR	Monitoring the acceleration of water megamaser features in NGC 4258	1.3 line	27	5.0
AG472	Gaensler, B.M. Frail, D.A. Manchester, R.N. Green, A.J.	Sydney NRAO-Socorro ATNF Sydney	Two unusual barrel supernova remnants	20, 90	21	3.0
AG485	Gaiama, T.J. deBruyn, A.G. van Paradijs, J. Hanton, L.	Amsterdam NFRA Amsterdam Dublin	Candidate counterparts to GRB 940301	3.6, 6, 20, 90	30	2.0
AG492	Goss, M. Cappa, C.	NRAO-Socorro IAR	HI associated with planetary nebula NGC 2359.	20 line	22-24	11.0
AH572	Hjellming, R.M. Rupen, M.P.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole candidate J1719	2, 3.6, 6, 20	2, 15, 25	3.0
AH573	Hjellming, R.M. Rupen, M.P.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole binary GRO J1655	2, 3.6, 6, 20	9, 21	2.0
AH576	Habbal, S.R. Gonzales, R.	CfA CfA	Coordinated ground and space based observations of macrospicules	3.6, 6 BG050	1, 2, 8, 9	28.0
AH582	Hibbard, J.E. Rich, R.M. Barnes, J.E. van der Hulst, T.	Hawaii Columbia Hawaii Groningen	Dwarf formation in the tidal tail of "the antennae"	20 line	2	3.5
AK421	Kobulnicky, C. Skillman, E.	Minnesota Minnesota	HI Mapping of the nearby peculiar starburst galaxy NGC 5253	20 line	9	2.0
AK425	Kollgaard, R.I. Ghisellini, G. Maraschi, L. Pesce, J. Samburua, R. Urry, C.M.	Penn State Torino Genova STSci STSci STSci	Multifrequency monitoring of blazars	1.3, 2, 3.6, 6, 20	2, 3, 19	4.5
AK428	Kurtz, S.	UNAM	Ionized outflows from massive stars	3.6 line	17	1.0
AL364	Leitch, E.M. Myers, S.T. Readhead, A.C.S.	Caltech Pennsylvania Caltech	Point source contaminants in the OVRO microwave background fields	0.7, 1.3, 2, 3.6	15	4.0
AL371	Leto, G. Pagano, I. Umana, G. Trigilio, C. Rodono, M.	Noto Catania Noto Noto Catania	dMe star spectral energy distribution	0.7, 1.3, 2, 3.6, 6	25	3.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AL389	Alberto-Lopez, J. Vasquez, R. Gomez, Y. Rodriguez, L.F.	UNAM IAA UNAM UNAM	Kinematics of the peculiar BRET NGC 2440	3.6 line	7, 10	12.0
AM532	Moore, E.	Rutgers	HI observations of two early type barred spiral galaxies	20 line	14	6.0
AN072	Navarro, J. Stappers, B.W. Bailes, M.	NRAO-Socorro Mt. Stromlo ATNF	Continuum eclipses of PSR J2051-0827	90 HTRP	26	5.0
AP332	dePater, I.	Calif-Berkeley	Jupiter Patrol - aftermath of the comet-Jupiter crash	20, 90	22	3.0
AR350	Reipurth, B. Rodriguez, L.F.	ESO UNAM	Thermal jets in selected class 0 sources	3.6	27	4.0
AR353	Rajagopal, J. Srinivasan, G. Dwarakanath, K.S.	Raman Raman Raman	HI studies of interstellar clouds identified through Ca+ & Na abs.	20 line	28	10.5
AR357	Raulin, J.-P. Gopalswamy, N. Kundu, M.R. Lara, A. Gurman, J.	Maryland Maryland Maryland Maryland NASA-GSFC	Search for cool material in solar active regions	6, 20, 90	29	8.0
AR358	Robinson, B. Yusef-Zadeh, F. Roberts, D.	Northwestern Northwestern Illinois	Radio continuum observations of G359.1-0.5 and the "Snake"	3.6, 6	19	7.5
AS568	Sramek, R. Weiler, K. VanDyk, S. Panagia, N.	NRAO-Socorro NRL Calif.-Berkeley STSci	Properties of radio supernovae	1.3, 2, 3.6, 6, 20	7, 10, 21	9.0
AS589	Serabyn, G. Morris, M. Pauls, T.	Caltech Calif.-Los Angeles NRL	The galactic center arc filaments	1.3 BM060	14	8.0
AS590	Schiminovich, D. van Gorkom, J. van der Hulst, J.M. Wilkinson, A.	Columbia Columbia Groningen Manchester	HI imaging of shell galaxies	20 line	8, 10, 11, 13	22.9
AT184	Thorsett, S.E. Taylor, J.H. McKinnon, M.M. Hankins, T.H. Stinebring, D.R.	Princeton Princeton NRAO-GB NMIMT Oberlin	Timing fast pulsars at the VLA	6, 20, 90	26, 27	12.5
AT196	Takano, S. Nakai, N. Kawaguchi, K. Winnewisser, G.	Cologne NAO-Nobeyama NAO-Nobeyama Cologne	Observation of NH3 in NGC253	1.3 line	10, 20, 22	17.5
AT197	Troland, T. Crutcher, R.M. Roberts, D.A. Goss, M.	Kentucky Illinois Illinois NRAO-Socorro	OH Zeeman observations toward Orion A	20 line	21	4.0
AV224	Vermeulen, R. Taylor, G.	Caltech NRAO-Socorro	Search for HI absorption at z=3.4 in the damped LyA system in 1239+376	90 line	18	5.0
AW362	White, S.	Maryland	The stellar activity cycle on active stars	3.6, 6, 20	14	1.0
AW442	Willson, R.F. Lang, K.R. Kile, J.N. Rothberg, B.	Tufts Tufts Tufts Tufts	Evolving solar noise storms	20, 90	14, 15, 16	15.0
AY073	Yun, J.L. Moreira, M.C. Torrelles, J.M.	Lisboa Lisboa IAA	Radio continuum sources seen towards Bok globules	2, 6	30	5.0
BC057	Carrara, E.A. Zensus, J.A. Abraham, Z. Lobanov, A.P.	NRAO-Socorro NRAO-CV Sao Paulo NMIMT	Parsec scale structure of the 3C273 jet: multi-frequency monitoring	0.7, 1.3, 3.6, 6	12	2.6
BG050	Greenhill, L. Chernin, L.	CfA Calif.-Berkeley	Collimation and launch of protostellar outflows	1.3 Single antenna VLBI w/AH576, AB781	2	7.9
BJ024	Jauncey, D.	CSIRO	VLA and VLBA Target of Opportunity Obs. of PKS 0405-385	1.3, 3.6	17	6.8
BK041	Kemball, A.J. Porcas, R.W. Patnaik, A.R.	NRAO-Socorro MPIfR MPIfR	VLBI polarimetry of the gravitational lens system 0218+357	0.7, 1.3, 2	3	5.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BM060	Menten, K.M. Reid, M.J.	CfA CfA	Proper motions of SiO masers in the central parsec of the galaxy	0.7 Single antenna VLBI w/AS589	14	5.9
BR034	Roberts, D.H. Wardle, J.F.C. Ojha, R. Homan, D.C. Aller, H.D. Aller, M.F. Hughes, P.A.	Brandeis Brandeis Brandeis Brandeis Michigan Michigan Michigan	Sources with rapidly varying polarization	1.3, 2	3	3.0
BS040	Sykes, C.M. Wilkinson, P.N. Browne, I.W.A. Jackson, N.J. Nair, S. Myers, S. de Bruyn, G. Fassnacht, C.D. Readhead, A.C. Pearson, T.J. Koopmans, L.	Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Pennsylvania NFRA Caltech Caltech Caltech Groningen	Gravitational lens J1934+504	20 Single antenna VLBI w/AF305, Tests	24	15.4
GM027	Marcaide, J.M. Ros, E. Alberdi, A. Diamond, P.J. Shapiro, I.I. Guirado, J.C. Preston, R.A. Jones, D. Witzel, A. Krichbaum, T.P. Schilizzi, R.T. Mantovani, F. Trigilio, C. Whitney, A.R.	Valencia Valencia ESA-LAEFF NRAO-Socorro CfA JPL JPL JPL MPIfR MPIfR JIVE Bologna Bologna Haystack	Monitoring the expansion of SN 1993J at 6 cm	6 Phased array VLBI w/BJ024	17	11.0
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Software General Tests		25, 27, 28	39.3 48.1 15.9 28.8 41.0

The average downtime was 2.6%.

The array was scheduled for
 558.0 hours (77.3% of time) for astronomical programs
 89.6 hours (12.4% of time) for tests/calibration
 76.9 hours (10.6% of time) for maintenance
 Total 724.5 hours (100.3%) scheduled.

Array was in configuration DnC from June 1 through June 27.


Array was in configuration D from June 27 through June 30.

Total Number of astronomical programs was 48.

The following independent proposals shared simultaneous observing time (35.3 hours total simultaneous observing):

Projects	Hours
AB781/BG050	3.1
AF305/BS040	5.0
AF305/move/op	2.3
AH576/BG050	4.8
AS589/BM060	5.9
GM027/BJ024	3.8
Test/BS040	2.5
Test/BS040	7.9

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA197	Aschwanden, M.J. Gary, D.E. Bastian, T.S.	Maryland Caltech NRAO-Socorro	Gyroresonance stereoscopy	2, 3.6, 6	23, 24, 26	30.0
AB705	Burke, B.F. Becker, D.J. Lehar, J. Hewitt, J.N. Roberts, D.H.	MIT MIT CfA MIT Brandeis	Time delay of the gravitational lens 0957+561	3.6, 6	27	2.0
AB766	Blundell, K. Rawlings, S. Lacy, M. Littlewood, C. Willott, C. Serjeant, S.	Oxford Oxford Oxford Oxford Oxford	The evolution of radio quasars and their environments from z=0.5-3	3.6	21	3.0
AB775	Beck, R. Shoutenkov, V. Shukurov, A. Sokoloff, D.	MPIfR Lebedev Moscow U. Moscow U.	Magnetic fields in barred galaxies	3.6, 6	20	7.0
AB781	Bock, D.C. Frail, D.A. Green, A.J.	Sydney NRAO-Socorro Sydney	The Vela X region	20 HTRP	11	4.5
AB783	Barvainis, R. Lonsdale, C.	Haystack Haystack	Radio spectra of broad absorption line quasars	0.7, 1.3, 2, 3.6, 6	7, 8	18.5
AB784	Barvainis, R. Antonucci, R.	Haystack Calif.-Santa Barbara	Ultra high redshift CO search	2, 3.6 line	2	7.5
AB786	Beck, R. Ehle, M. Ye, T.	MPIfR ATNF Sydney	Search for magnetic arms in NGC 2997	3.6, 6	19, 20, 28	18.1
AB792	Brown, A. Ambruster, C. Jeffries, R. Bromage, G.	Colorado Villanova Birmingham Lancashire	Correlation between stellar radio emission and rotation	2, 3.6, 6, 20 move/ops	3, 5	
AC308	Condon, J. Cotton, W. Perley, R.	NRAO-CV NRAO-CV NRAO-Socorro	All sky survey	20	8, 10, 12-18, 20 (0) 27, 29-31	228.6
AD379	Dwarakanath, K.S. Mitra, D.K.	Raman Raman	Steep spectrum sources selected at 34 MHz	20, 90	9	3.0
ADHOC1	Blundell, K.	Oxford	Adhoc1		7	1.5
ADHOC2	Hjellming, R.	NRAO-Socorro	Adhoc2		12	1.0
ADHOC3	Dhawan, V.	NRAO-Socorro	Adhoc3		29	1.0
AG448	Greenhill, L.J. Henkel, C.	CfA MPIfR	Monitoring the acceleration of water megamaser features in NGC 4258	1.3 line	9	5.0
AG485	Galama, T.J. deBruyn, A.G. van Paradijs, J. Hanlon, L.	Amsterdam NFRA Amsterdam Dublin	Candidate counterparts to GRB 940301	3.6, 6, 20, 90	10, 30	5.0
AG490	Gray, R.	Gray Data	The Ohio State Univ. "WOW" signal	6, 20 line	7	4.0
AH569	Hufnagel, B. Marvel, K.	Michigan State New Mexico State	Search for masers in the AGB stars of the open cluster NGC 7419	0.7, 1.3, 20 line	4	4.5
AH572	Hjellming, R.M. Rupen, M.P.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole candidate J1719	2, 3.6, 6, 20	1, 2, 4, 20	3.5
AH573	Hjellming, R.M. Rupen, M.P.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole binary GRO J1655	2, 3.6, 6, 20	10, 28	2.0
AK376	Kulkarni, S.R. Frail, D.A.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters		27, 31	5.0
AK425	Kollgaard, R.I. Ghisellini, G. Maraschi, L. Pesce, J. Sambruna, R. Urry, C.M.	Penn State Torino Genova STScI STScI STScI	Multifrequency monitoring of blazars	1.3, 2, 3.6, 6, 20	2, 20, 23, 24, 26, 31	6.0
AL376	Lo, K.Y. Tolstoy, E.	Illinois STScI	HI Distribution in the transition dwarf galaxy-Phoenix	20 line	18	2.0
AL388	Lim, J. White, S.M. Drake, S.A. Phillips, R.B.	Academia Sinica Maryland USRA-GFSC Haystack	Radio spectrum of radio bright magnetic Bp stars	0.7, 1.3, 2, 3.6, 6	2, 18	19.0
AR350	Reipurth, B. Rodriguez, L.F.	ESO UNAM	Thermal jets in selected class 0 sources	3.6	12	4.0
AS568	Sramek, R. Weiler, K. VanDyk, S. Panagia, N.	NRAO-Socorro NRL Calif.-Berkeley STScI	Properties of radio supernovae	1.3, 2, 3.6, 6, 20	3, 14, 19, 20, 27, 28	12.5

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS585	Simon, T. Bastian, T.S. Hawley, S.L. Fisher, G.H.	Hawaii NRAO-Socorro Michigan State Calif.-Berkeley	Joint EUV, Soft x-ray, radio, and optical observations of flares	2, 3.6	3, 4, 5	30.0
AU067	Umana, G. Leone, F. Trigilio, C.	Noto Catania Noto	Radio spectrum of B Lyrae	0.7, 1.3, 2, 3.6, 6	5	5.0
AV223	Vasquez, R. Torrelles, J.M. Lopez, J.A. Miranda, L.F.	IAA IAA UNAM Madrid	Search for BRETs in planetary nebulae	3.6 line	16, 31	3.0
AV226	van Gorkom, J.H. Carilli, C.L. Stoche, J.T. Shull, J.M.	Columbia NRAO-Socorro Colorado Colorado	HI environment of nearby Ly A clouds	20 line	11-14, 16-19	40.0
AW362	White, S.	Maryland	The stellar activity cycle on active stars	3.6, 6, 20	2	2.0
AW425	Whiteoak, J.B.Z. Reich, W. Wiebelbinski, R. Megeath, S.T. Uchida, K.	MPIfR, Bonn MPIfR, Bonn MPIfR, Bonn Haystack MPIfR, Bonn	Clumped regions and star formation in S296	6, 20	19	2.0
AW441	Wilcots, E.M. Elmegreen, B.G. Gallagher, J.S.	Wisconsin IBM Wisconsin	HI Observations of NGC 925 & NGC 1744	20 line	31	6.5
AZ083	Zhao, J.-H. Chen, H.	IAA-Taipei CfA	L1641N: a newly discovered protobinary	0.7, 3.6	17	8.0
BC051	Cotton, W.D. Feretti, L. Giovannini, G. Lara, L. Ventura, T. Marcaide, J.M.	NRAO-CV Bologna Bologna Bologna Bologna Valencia	VLBA polarization observations of NGC 315	6 Phased array VLBI	10	10.0
BD031	Diamond, P.J. Field, D. Kemball, A.J. Gray, M.D. Mashedier, M.R.W.	NRAO-Socorro Bristol NRAO-Socorro Bristol Bristol	Polarization observations of OH masers in star forming regions	20	6	2.0
BD035	Doeleman, S. Claussen, M.	Haystack NRAO-Socorro	A new radio flare in N-Galaxy 3C111	0.7, 1.3, 2	4	4.5
BG049	Gallimore, J.F. Baum, S.A. O'Dea, C.P.	MPE STScI STScI	VLBA Mapping of thermal emission from the Torus in NGC 1068	3.6, 20 Phased array VLBI	6	12.0
BR040	Ratner, M.I. Bartel, N. Lebach, D.E. Lestrade, J-F. Shapiro, I.I.	CfA York CfA Meudon CfA	Astrometry of HR 1099 and IM Peg for the gravity probe-b mission	3.6 Phased array VLB	25	15.0
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Software General Tests		1, 4, 6, 9	56.0 43.6 20.6 32.9 44.3

The average downtime was 3.1%.

The array was scheduled for
 550.2 hours (73.8% of time) for astronomical programs
 119.3 hours (16.0% of time) for tests/calibration
 76.5 hours (10.3% of time) for maintenance
 Total 100.0% hours (746.1%) scheduled.

Array was in configuration DnC from May 1 through May 31.

Total Number of astronomical programs was 38.

The following independent proposals shared simultaneous observing time (3.1 hours total simultaneous observing):

Projects	Hours
AB792/move/op	3.1

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA196	Goss, M. Anantharamaiah, K. Pedlar, A.	NRAO-Socorro Raman Institute Manchester	H16B recombination lines from the galactic center	20 line	14, 20	7.5
AB705	Burke, B.F. Becker, D.J. Lehar, J. Hewitt, J.N. Roberts, D.H.	MIT MIT CFA MIT Brandeis	Time delay of the gravitational lens 0957+561	3.6, 6 w/BD027	4, 24	4.1
AB774	Beck, R. Hoernes, P.	MPIR, Bonn MPIR, Bonn	Magnetic arms in NGC 6946	20	4	12.0
AC449	Cordes, J.M. Arzoumanian, Z. Hankins, T. Moffett, D. Lundgren, S. Finley, J. Jahoda, K. Rots, A. Ulmer, M.	Cornell Cornell NMIMT NMIMT NRL Purdue NASA/GSFC USRA/GFSC Northwestern	Radio and X-ray fluctuations of the crab pulsar	3.6, 6, 20 HTRP	18, 19, 20	15.0
AC458	Cayatte, V. van Gorkom, J. Bravo, H. Balkowski, C. Amram, P.	Paris Obs. Columbia Paris Obs. Paris Obs. Marseille Obs.	HI distribution of the brightest spirals in coma cluster	20 line w/BG045	14, 15, 16, 18, 19, 20	60.1
AC459	Cepa, J. del Rio, S. Vila, B. Kawabe, R. Brinks, E.	IAC IAC Nobeyama Obs. Nobeyama Obs. Guanajuato	Atomic gas in early type galaxies	20 line w/BD027	1, 4	9.0
AD375	Dickey, J.M.	Minnesota	21 cm study of the BS12B supercluster	20 line	25, 26, 27, 28	40.0
ADHOC1	Hjellming, R.	NRAO-Socorro	Adhoc		18, 24, 26, 27	2.2
ADHOC2	Sramek, R.	NRAO-Socorro	Adhoc		1, 3, 8, 13	4.2
AE106	Edge, A.C. Grainge, K.J.B. Jones, M.E. Saunders, R.	Cambridge Cambridge Cambridge Cambridge	Extreme Giga-Hertz peaked sources	0.7, 1.3, 2, 3.6, 6	3	3.5
AF300	Fey, A. Gaume, R. Claussen, M.	USNO USNO NRAO-Socorro	Does dense gas confine G29.96-0.02	1.3 line	9	9.0
AF302	Frail, D.A. Goss, M.	NRAO-Socorro NRAO-Socorro	Confirmation of supernova remnant/molecular cloud interactions	20 line w/BD027	5, 8	9.5
AF306	Frail, D.	NRAO-Socorro	Monitoring GRO J1744-28 candidate source		7, 8, 14, 16, 30	7.0
AG432	van Gorkom, J.H. Dwarakanath, K.S. Guhathakurra, P.	Columbia NRAO-Socorro Calif., Santa Cruz	HI imaging of cluster Abell 2670	20 line w/BS036, BM060	6, 8, 13, 14, 16, 19, 22, 25	50.0
AG473	Gibb, A.G. Little, L.T. Phillips, R.R.	Kent Kent Kent	Compact radio sources as evidence for embedded young stellar objects	3.6	14	5.0
AG477	van Gorkom, J.H. Yun, M.S. Bahcall, J.N.	Columbia NRAO-Socorro Princeton	PKS 2349-014, possible link between mergers and AGNs	20 line w/BG045	21, 26, 27, 29	38.5
AG479	Gopalswamy, N. Kundu, M.R. Nitta, N.	Maryland Maryland Lockheed	Nonthermal emission and plasma flow during bright point flares	2, 3.6, 6	12, 15	14.1
AH569	Hufnagel, B. Marvel, K.	Michigan State NRAO-Socorro	Search for masers in the AGB stars of the open cluster NGC 7419	0.7, 1.3, 20 line	18	4.0
AH572	Hjellming, R.M. Rupen, M.P.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole candidate J1719-24	2, 3.6, 6, 20 w/BS036	8, 22, 29, 30	4.5
AH573	Hjellming, R.M. Rupen, M.P.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole binary GRO J1655-40	2, 3.6, 6, 20	15	2.0
AH578	Hailey, C. Craig, W.	Columbia Columbia	New pulsar in a new supernova remnant	20, 90	23	6.0
AI062	Indrani, C. Jahan, M.	Raman Institute Raman Institute	Search for pulsar companions to single line spectroscopic binaries	20	7, 15	7.5
AJ253	Jorsater, S. Kristen, H. van Moorsel, G. Lindblad, P.A.B. Broeils, A.	Stockholm Obs Stockholm Obs NRAO-Socorro Stockholm Obs Stockholm Obs	HI observations of the bright barred spiral galaxies	20 line w/BM060	23, 24	16.5

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AK376	Kulkarni, S.R. Frail, D.A.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters		1, 18	4.0
AK414	Kronberg, P.P. Allen, M.L.	Toronto Toronto	High resolution radio spectral index studies of the nucleus of M82	3.6	8	5.0
AK420	Kollgaard, R.I. Ghisellini, G. Maraschi, M. Pesce, J. Samburina, R. Urry, C.M.	Penn State Torino Genova STScI STScI STScI	Multifrequency monitoring of blazars	1.3, 2, 3.6, 6, 20 w/BD027, BG045	3, 5, 12, 14, 21, 27	6.0
AK426	Kraemer, K. Jackson, J.M.	Boston Boston	Continuum from NGC 6334 V	3.6	23	4.0
AL364	Leitch, E.M. Myers, S.T. Readhead, A.C.S.	Caltech Caltech Caltech	Point source contaminants in the OVRO microwave background fields	0.7, 1.3, 2, 3.6 w/BG050	25, 26	7.4
AL371	Leto, G. Pagano, I. Umaha, G. Trigilio, C. Rodono, M.	Noto Catania Noto Noto Catania	High frequency part of dMe stars radio spectra	0.7, 1.3, 2, 3.6, 6	1, 9, 11, 28	11.5
AL374	Lanzetta, K. Briggs, F.H. Zwaan, M.A. Webb, J.K. Barcons, X.	SUNY Groningen/Kapteyn Groningen/Kapteyn New South Wales Cantabria	Galaxies responsible for low-redshift Lyman alpha forest absorbers	20 line	12	10.0
AL377	Lu, N. Lord, S. Helou, G. Lo, K.Y. Malhotra, S.	IPAC IPAC IPAC Illinois IPAC	Galaxies of the ISO key project on normal disk galaxies	20 w/move/op	17, 20	13.0
AM479	Morrison, G. Owen, F.	NRAO-Socorro NRAO-Socorro	20 cm imaging of very rich Abell clusters	20	12	3.0
AM512	Mirabel, F. Rodriguez, L.F.	CNRS, France Mexico/UNAM	Large scale radio lobes in GRS 1915+105	6 w/BS036	22	4.0
AM513	Marti, J. Mirabel, F. Rodriguez, L.F.	Barcelona CNSR, France UNAM	Search for radio jets in Cygnus X-1	6	11	6.0
AM516	Mandolesi, N. Franceschini, A. Desert, X. Cesarsky, C. Zamorani, G.	TESRE, Bologna Padova CNRS, France CEA Bologna	An ISO survey area in the Lockman hole	6 w/BS036	21	9.0
AM518	McMahon, R. Miley, G.	Cambridge Leiden	VLA survey of ISO survey regions	20	5	10.0
AM522	McMullin, J. Blake, G.A. Mundy, L. White, S.M.	Arizona Caltech Maryland Maryland	Stellar radio population of Lynds 1641	1.3, 2, 6 w/BS036	21	2.0
AM523	Mundell, C.G. Pedlar, A. Thean, A. Shone, D. Done, C. Brinks, E.	Manchester Manchester NRAL NRAL Durham Guanajuato	Observations of neutral hydrogen in Seyfert galaxies: NGC4939	20 line	1	18.0
AN068	Neilsen Jr., E.H. Tsvetanov, Z. Petrosian, A. Ford, H.	Johns Hopkins Johns Hopkins Byurakan Obs Johns Hopkins	HI mapping of blue compact dwarf galaxies	20 line	9, 11	25.1
AO122	Owen, F. Perley, R. Cotton, W. Postman, M. Condon, J.	NRAO-Socorro NRAO-Socorro NRAO-CV STScI NRAO-CV	Deep A-array survey near 1015+51	20	6	7.0
AP328	Prada, F. Torrelles, J.M. Gomez, J.F. Perez, E. McKeith, C.D.	IAC IAA, Spain Boston IAA, Spain Queens	M82: on the wavelength dependent kinematics of edge on dusty spirals	3.6 line w/BS036	22	12.0
AP332	de Pater, I.	Calif., -Berkeley	Jupiter Patrol: Aftermath of Comet-Jupiter Crash	20, 90	19	3.0
AP336	Palmer, P. de Pater, I. Snyder, L.E.	Chicago Calif., -Berkeley Illinois	OH in comet Hyakutake	20 line	28	8.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AQ011	Quillen, A.C. Yun, M.S. Kenney, J. Pogge, R.W.	Ohio State NRAO-Socorro Yale Ohio State	Barred spirals NGC 2903 and NGC 3351	2, 6, 20 line	13	8.5
AS578	Suleiman, S.H. Kolodner, M.A. Butler, B.J. Steffes, P.G.	Georgia Tech Georgia Tech NRAO-Socorro Georgia Tech	Mapping SO2 and H2SO4 variations on Venus	1.3, 2 w/BD027	5	12.0
AW430	Wilcots, E.M. Elmegreen, B.G. Gallagher, J.S.	Wisconsin IBM Wisconsin	HI observations of late type spiral galaxies	20 line	27, 28	6.5
BD027	Diamond, P.J. Kemball, A.J.	NRAO-Socorro NRAO-Socorro	Multi-epoch observations of stellar SiO masers	0.7 Single antenna VLBI w/AB705, AC459, AK420, AF302, AS578	4	23.5
BD033	Dewey, R. Beasley, A.	Princeton NRAO-Socorro	VLBA observations of millisecond pulsars for frame-tie	20 Phased array VLBI	10	8.0
BG045	Greenhill, L.J. Moran, J.M. Danchi, W.C. Bester, M.	CFA CFA Calif., Berkeley Calif., Berkeley	Snapshot survey of SiO maser stars at maximum and minimum luminosity	0.7 Single antenna VLBI w/AC458, AK420, BG045	21	10.1
BG050	Greenhill, L. Chernin, L.	CFA Calif., Berkeley	Collimation and launch of protostellar outflows	1.3 Single antenna VLBI w/AG477, AL364, AD375	26	7.9
BM060	Menten, K.M. Reid, M.J.	CFA CFA	Proper motions of SiO masers in the central parsec of the galaxy	0.7 Single antenna VLBI w/AJ253, AG432	25	7.2
BS036	Stanghellini, C. O'Dea, C.P. Baum, S. Dallacasa, D. Fanti, R. Fanti, C. de Vries, W.	Bologna STScI STScI NFRA Bologna Bologna Groningen/Kapteyn	VLBA observations of GHz peaked spectrum radio sources	2, 20 Single antenna VLBI w/AM512, AM516, AM522, AH572, AG432, AP328	21	24.1
GR012	Rupen, M.P. Bartel, N. Beasley, A.J. Conway, J. Bietenholz, M. Sorathia, B. Graham, D. Venturi, T. Umaña, G. Rius, A. Altunin, V. Jones, D.	NRAO-Socorro York U. NRAO-Socorro Chalmers, Onsala York U. York U. MPIR, Bonn Bologna Bologna Barcelona JPL JPL	VLBI imaging of supernova 1993J in M81	3.6, 6, 20 Phased array VLBI	7	18.0
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Software Student observation General Tests		16	34.0 80.5 31.0 2.0 26.5

The average downtime was 3.1%.

The array was scheduled for
553.0 hours (76.7% of time) for astronomical programs
91.2 hours (12.7% of time) for tests/calibration
76.7 hours (10.6% of time) for maintenance
Total 100.0% hours (721.0%) scheduled.

Array was in configuration C from April 1 to April 30.

Array was in configuration DnC from April 30 to April 30.

Total Number of astronomical programs was 52.

The following independent proposals shared simultaneous observing time (79.5 hours total simultaneous observing):

Projects	Hours
AB705/BD027	2.2
AC458/BG045	0.2
AC459/BD027	6.0
AD375/BG050	0.7
AF302/BD027	7.0
AG432/BM060	1.3
AG432/BS036	7.0
AG477/BG045	8.8
AG477/BG050	3.2
AH572/BS036	1.0
AJ253/BM060	5.9
AK420/BD027	1.0
AK420/BG045	1.0
AL364/BG050	4.0
AL377/MOVE/OP	6.7
AM512/BS036	4.0
AM516/BS036	9.0
AM522/BS036	0.2
AP328/BS036	2.8
AS578/BD027	7.3

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA195	Alexander, P. Clemens, M. Green, D.	MRAO MRAO MRAO	Efficient ram-pressure stripping in close galaxy pairs	20	4	13.0
AA201	Altenhoff, W. Butler, B.	MPIFR NRAO-Socorro	Continuum measurements of Comet Hyakutake	1.3, 2 W/BB055	25, 28	5.5
AB705	Burke, B. Becker, D. Lehar, J. Hewitt, J. Roberts, D.	MIT MIT CfA MIT Brandeis	Time delay of the gravitational lens 0957+561	3.6, 6	3	2.0
AB759	Browne, I. Wilkinson, P. Syskes, C.	Jodrell Bank Jodrell Bank Jodrell Bank	Ring and halo in the gravitational lens B0218+357	20	3	1.0
AB760	Browne, I. Wilkinson, P. Sykes, C. Muxlow, T. Jackson, N. Myers, S. Fassnacht, C. Readhead, A. Pearson, T. de Bruyn, A. Snellen, I.	Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Caltech Caltech Caltech NFRA Leiden	Deep imaging of the new quadruple lensed system 1608+656	6 W/BP029	12, 18	3.0
AB766	Blundell, K. Rawlings, S. Lacy, M. Littlewood, C. Willott, C. Serjeant, S.	Oxford Oxford Oxford Oxford Oxford	The evolution of radio quasars and their environments from $z=0.5-3$	3.6, 6	20	6.1
AB772	Bransford, M. Appleton, P. McCain, C. Freeman, K.	Iowa State Iowa State Mt. Stromlo Mt. Stromlo	Gas dynamics of ring galaxies in two different environments	20 line W/BP029	17, 22	12.5
AB773	Balser, D. Bania, T. Rood, R.	NRAO-GB Boston Virginia	Density structure analysis of W43	3.6 line W/BB055	10, 29	14.0
AB775	Beck, R. Shoutenkov, V. Shukurov, A. Sokoloff, D.	MPIFR Lebedev Moscow U. Moscow U.	Magnetic fields in barred galaxies	20	9, 22	7.0
AB780	Bridle, A. Perley, R. Swain, M.	NRAO-CV NRAO-Socorro Rochester	Fully sampled imaging of the lobes of 3C219	2, 3.6, 6	7, 11	19.5
AB798	Butler, B. Wootten, A. Palmer, P. Bocklee-Morvan, D. Despois, D. Yeomans, D.	NRAO-Socorro NRAO-CV Chicago Meudon Bordeaux JPL	Continuum, formaldehyde, methanol, and ammonia from Comet Hyakutake	0.7, 1.3, 2	26	12.6
AC443	Chernin, L.	Calif.-Berkeley	Water masers in protostellar outflows	1.3 line	15	3.0
AC457	Canzian, B.	USRA	Geometric phase and corotation resonance in NGC 4079	20 line	6	8.0
AD370	Dallacasa, D. Feretti, L. Giovannini, G. Klein, U.	JIVE Bologna Bologna Bonn	Probing the cluster magnetic field in Abell 119	3.6, 6	8	7.0
AD377	Di Francesco, J. Evans, N. Chandler, C.	Texas Texas Cambridge	Spectral energy distribution of Herbig Ae/Be Stars	0.7, 1.3, 3.6 W/BG050	24	3.5
ADHOC1	Thomas, D.	NRAO-Socorro	Adhoc Proposal		6	2.1
ADHOC2	Blundell, K.	Oxford	Adhoc Proposal		13	1.0
ADHOC3	O'Donoghue, A.	NRAO-Socorro	Adhoc Proposal		12	0.7
AE107	Edge, A. Allen, S. Crawford, C. Fabian, A. Boehringer, H.	Cambridge Cambridge Cambridge Cambridge MPE	Radio properties of central galaxies in x-ray selected clusters	6	19	4.0
AF299	Fey, A. Kassim, N.	USNO NRL	Low frequency observations of the Cygnus region	90	14	6.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AF301	Fomalont, E. Kellermann, K. Partridge, B. Richards, E. Windhorst, R.	NRAO-CV NRAO-CV Haverford Virginia Arizona State	The HST deep image	3.6	2, 5, 19, 21	41.0
AF306	Frail, D.	NRAO-Socorro	Monitoring GRO J1744-28 candidate source	3.6, 6	3, 10, 18, 24	4.0
AG432	van Gorkom, J. Dwarakanath, K. Guhathakurra, P.	Columbia NRAO-Socorro Calif.-Santa Cruz	HI imaging of cluster Abell 2670	20 line W/BG050	9, 15, 24	18.5
AG441	Garay, G. Brown, R. Lizano, S. Gomez, Y.	Chile NRAO-CV UNAM UNAM	The C+ recombination line emission from S88 B	20 line	21, 30	20.0
AG448	Greenhill, L. Henkel, C.	CfA MPIfR	Monitoring the acceleration of water megamaser features in NGC 4258	1.3 line	29	4.5
AG459	Guedel, M. Guinan, E. Schmitt, J. Benz, A.	Scherrer Villanova MPE ETH	Multiwavelength study of enigmatic coronal activity on 47 Cas	3.6	5	12.0
AG471	Gomez, J. Torrelles, J. Rodriguez, L. Curiel, S. Garay, G. Ho, P.	Boston IAA UNAM UNAM Chile CfA	Warm gas in the circumstellar disk around Cep A-HW2	1.3 line	18	10.5
AG475	Gregg, M. Lehnert, M. Welch, D. Cook, K. Alves, D.	Lawrence Livermore Lawrence Livermore McMaster Lawrence Livermore Calif.-Davis	Neutral hydrogen in NGC 4911	20 line	30	10.0
AH572	Hjellming, R. Rupen, M.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole candidate J1719	2, 3.6, 6, 20	5, 24	2.0
AH573	Hjellming, R. Rupen, M.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole binary GRO J1655	2, 3.6, 6, 20	14	2.0
AH577	Halpern, J.	Columbia	Identification of high energy galactic gamma ray sources	20, 90	31	9.5
AH579	Helfand, D. Becker, R. White, R. Das, S.	Columbia Calif.-Davis STScI Columbia	FIRST rapid variability in extragalactic radio sources	3.6, 20	13	8.1
AJ252	Jones, M. Grainge, K. Edge, A. Saunders, R.	MRAO MRAO Cambridge MRAO	Search for cluster radio halo sources	20	30	3.0
AK376	Kulkarni, S. Frail, D.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters		17	2.0
AK415	Krause, M.	MPIfR	The jets in spiral Seyfert NGC 4258.	3.6	10	12.0
AK420	Kollgaard, R. Ghisellini, G. Maraschi, M. Pesce, J. Sambruna, R. Urry, C.	Penn State Torino Genova STScI STScI STScI	Multifrequency monitoring of blazars	1.3, 2, 3.6, 6, 20	2, 12, 18, 24	4.0
AK422	Kliem, B. Mazets, E.	Potsdam Ioffe	Solar decimetric microbursts	20, 90	7, 19, 30	11.6
AL364	Leitch, E. Myers, S. Readhead, A.	Caltech Caltech Caltech	Point source contaminants in the OVRO microwave background fields	0.7, 1.3, 2, 3.6	23	5.5
AL371	Leto, G. Pagano, I. Umana, G. Trigilio, C. Rodono, M.	Bologna Catania Bologna Bologna Catania	dMe star spectral energy distribution	0.7, 1.3, 2, 3.6, 6	4	3.0
AL372	Lim, J. White, S. Drake, S.	Academia Sinica Maryland USRA-GFSC	Rotational modulation of magnetic Bp star Sigma Ori E	2, 3.6, 6, 20 W/BB055	27, 28, 29	31.5
AL393	Lisse, C. Fernandez, Y. Kundu, A. Neufeld, D.	Maryland Maryland Maryland Maryland	Continuum emission from Comet 1996 B2 (Hyakutake)	2, 3.5, 6	26	12.0
AM479	Morrison, G. Owen, F.	NRAO-Socorro NRAO-Socorro	20 cm imaging of very rich abell clusters	20	10	3.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AM519	Menten, K. Carilli, C. Reid, M.	CfA NRAO-Socorro CfA	Multi-molecule absorption line study of the Einstein Ring 1830-211	0.7, 1.3, 3.6, 6, line	8	8.0
AM523	Mundell, C. Pedlar, A. Thean, A. Shone, D. Done, C. Brinks, E.	Jodrell Bank Jodrell Bank NRAL NRAL Durham NRAO-Socorro	Observations of neutral hydrogen in the seyfert galaxies NGC4939	20 line	31	4.0
AO122	Owen, F. Perley, R. Cotton, W. Postman, M. Condon, J.	NRAO-Socorro NRAO-Socorro NRAO-CV STSci NRAO-CV	Deep A-array survey near 1015+51	20	31	1.5
AO123	O'Donoghue, A. Eilek, J. Owen, F.	St. Lawrence NMIMT NRAO-Socorro	Examining the morphological and dynamical basis for FRI/FRII boundary	20	9, 10	6.0
AP332	dePater, I.	Calif-Berkeley	Jupiter Patrol: Aftermath of Comet-Jupiter Crash	20, 90	15	2.7
AP335	de Pater, I. Ostro, S. Mitchell, D. Yeomans, D. Palmer, P. Snyder, L. Hudson, S.	Calif.-Berkeley JPL JPL JPL Chicago Illinois Washington State	Bistatic radar (Goldstone-VLA) on Comet Hyakutake	3.6	26	7.0
AR334	Roser, H. Perley, R. Meisenheimer, K.	MPIfA NRAO-Socorro Royal Edinburgh	High frequency mapping of the jet of 3C273	0.7, 1.3, 2, 3.6, 6	1	8.1
AR335	Rawlings, S. Lacy, M. Blundell, K. Serjeant, S.	Oxford Oxford Oxford Oxford	An HST sample of quasars at $0.5 < z < 0.7$	3.6, 6, 20	3	4.0
AS576	Simkin, S. Mackenty, J.	Michigan State STSci	HI envelope of Markarian 315	20 line	3	6.0
AS577	Szomoru, A. Goldschmidt, P. Oliver, S. Mann, R. Lawrence, A. Taylor, A.	Kapteyn Imperial Imperial Queen Mary Cambridge Cambridge	HI observations of IRAS galaxies with different rates of star formation	20 line	8	9.0
AS582	Seta, M. Hasegawa, T. Ukita, N. Giacani, E. Frail, D. Goss, M. Claussen, M.	Tokyo Tokyo Nobeyama IAFE NRAO-Socorro NRAO-Socorro NRAO-Socorro	Search for water maser emission toward the supernova remnants W44, W28	1.3 line	4	6.5
AT184	Thorsett, S. Taylor, J. McKinnon, M. Hankins, T. Stinebring, D.	Princeton Princeton NRAO-GB NMIMT Oberlin	Timing fast pulsars at the VLA	6, 20, 90	16, 17	13.0
AT187	Taramopoulos, A. Briggs, F.	Pittsburgh Kapteyn	HI observations of NGC 3894	20 line	23	6.5
AT188	Thornley, M. Mundy, L.	Maryland Maryland	Searching for density wave signatures in nearby flocculent galaxies	20 line	25	4.0
AW434	Wilner, D. Hofner, P.	CfA Cologne	Warm gas and dust emission from the Turner-Welch object in W3(OH)	0.7, 1.3 line	1	9.0
AW435	Wilner, D. Ho, P.	CfA CfA	Gravitational contraction in G45.47+0.05?	1.3 line	2	8.0
AZ078	Zabludoff, A. van Gorkom, J. Shectman, S. Zaritsky, D.	Mt. Wilson Columbia Mt. Wilson Calif.-Santa Cruz	Distribution and kinematics of HI in post merger galaxies	20 line W/BG050	22, 24	16.0
AZ079	van Zee, L. Broeils, A. Haynes, M. Salzer, J.	Cornell Stockholm Cornell Wesleyan	Star formation thresholds of isolated dwarf galaxies	20 line W/BP029	15, 16, 17	24.0
AZ081	Zepka, A. Lundgren, S. Kassim, N. Cordes, J. Frail, D.	Calif.-Berkeley NRL NRL Cornell NRAO-Socorro	Search for the supernova remnant of young pulsar J0631+1036	20, 90	9	6.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BB055	Biretta, J. Junor, B.	STScI New Mexico	Origin of the nuclear x-ray emission in M87	1.3, 20 Single antenna VLBI W/AL372, AA201, BB055, AB773	28	14.0
BB058	Bartel, N.	York	VLBI imaging of SN 1979C in M100 in the Virgo cluster	20 Phased array VLBI	14	11.8
BD030	Denn, G. Mutel, R.	Iowa Iowa	Polarization and monitoring of BL Lac as a test of AGN jet models	1.3, 2, 3.6	1	3.0
BG049	Gallimore, J. Baum, S. O'Dea, C.	MPE STScI STScI	VLBA Mapping of thermal emission from the Torus in NGC 1068	3.6, 20 Phased array VLBI	23	12.0
BG050	Greenhill, L. Chernin, L.	CfA Calif.-Berkeley	Collimation and launch of protostellar outflows	1.3 single antenna VLBI W/AG432, AD377, AZ078	24	8.1
BG052	Gwinn, C. Greenhill, L.	Calif.-Santa Barbara CfA	Study of masers in a disk around a hidden AGN	1.3 Phased array VLBI	16	8.9
BM049	Mioduszewski, A. Gabuzda, D. Aller, H.	Michigan Lebedev Michigan	Monitoring of six highly variable BL lacertae objects	1.3, 3.6 W/BB055	29	12.0
BM057	Marcaide, J. Ros, E. Alberdi, A. Diamond, P. Shapiro, I. Guirado, J. Preston, R. Jones, D. Witzel, A. Krichbaum, T. Schilizzi, R. Mantovani, F. Trigilio, C. Whitney, A.	Valencia Valencia ESA-LAEFF NRAO-Socorro CfA JPL JPL JPL MPIfR MPIfR JIVE Bologna Noto Haystack	Radio-shell expansion in SN 1993J at 6cm	6 Phased array VLBI	27	12.0
BM065	Mundell, C. Pedlar, A. Wrobel, J. Baum, S. Gallimore, J.	Jodrell Bank Jodrell Bank NRAO-Socorro STScI MPE	HI absorption in NGC 4151	20 Phased array VLBI	18	14.9
BN002	Nakai, N. Inoue, M. Miyoshi, M. Diamond, P.	NAO NAO NAO NRAO-Socorro	H2O megamaser in the seyfert galaxy IC 2560	1.3 Phased array VLBI	1	7.0
BP029	Perley, R. Bridle, A. Swain, M.	NRAO-Socorro NRAO-CV Rochester	Compact substructure in the jets of 3C219	20 single antenna VLBI W/AB772, AZ079, AB760	17	12.1
BR034	Roberts, D. Wardle, J. Ojha, R. Homan, D. Aller, H. Aller, M. Hughes, P.	Brandeis Brandeis Brandeis Brandeis Michigan Michigan Michigan	Sources with rapidly varying polarization	1.3, 2	21	2.6
BZ015	Zensus, J. Krichbaum, T. Lobanov, A. Witzel, A.	NRAO-CV MPIfR NMIMT MPIfR	Monitoring the helical trajectories in 3C345 at 43 GHz	0.7	9	3.5
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Operations Software Standard Field Observation Student observation General Tests		2 3	34.5 38.0 3.6 42.5 25.1 9.0 1.5 41.8

The average downtime was 3.8%.

The array was scheduled for
586.4 hours (78.6% of time) for astronomical programs
96.6 hours (12.9% of time) for tests/calibration
63.1 hours (8.5% of time) for maintenance
Total 100.0% hours (746.1%) scheduled.

Array was in configuration C from March 1 to March 31.

Total Number of astronomical programs was 72.

The following independent proposals shared simultaneous observing time (37.8 hours total simultaneous observing):

Projects	Hours
AA201/BB055	2.5
AB760/BP029	1.1
AB772/BP029	3.1
AB773/BB055	3.3
AD370/MOVE/OP	3.6
AD377/BG050	3.5
AG432/BG050	1.1
AL372/BB055	6.2
AZ078/BG050	3.5
AZ079/BP029	8.0
BM049/BB055	2.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB705	Burke, B. Becker, D. Lehar, J. Hewitt, J. Roberts, D.	MIT MIT CfA MIT Brandeis	Time delay of the gravitational lens 0957+561	3.6, 6	4, 25	5.0
AB740	Baum, S. Colbert, E. O'Dea, C. Pedlar, A.	STScI Maryland STScI Jodrell Bank	Three archetypical Seyferts: MKN 6, NGC 3079, MKN 231	6, 20	16	10.5
AB775	Beck, R. Shoutenkov, V. Shukurov, A. Sokoloff, D.	MPIfR Lebedev Moscow U. Moscow U.	Magnetic fields in barred galaxies	20	3	4.0
AC431	Capetti, A. Zirbel, E. Parma, P.	STScI STScI Bologna	The properties of intermediate luminosity radio galaxies	6	11	10.0
AC441	Cotton, B. Swain, M. Bridle, A. Kassim, N.	NRAO-CV Rochester NRAO-CV NRL	J2146+82-Large radio galaxy with misaligned outbursts?	6, 20	15	4.0
AC456	Chengalur, J. Giovanelli, R. Haynes, M.	NFRA Cornell Cornell	HI 1225+01	20 line	28	10.1
AD370	Dallacasa, D. Feretti, L. Giovannini, G. Klein, U.	JIVE Bologna Bologna Bonn	Probing the cluster magnetic field in Abell 119	3.6, 6	16	8.0
AD376	Drake, S. Stern, R. White, N. Antunes, A.	USRA-GFSC Lockheed NASA-GSFC NASA-GSFC	Joint XTE/VLA observation program for Algol and HR 1099	1.3, 2, 3.6, 6	5, 6	24.5
ADHOC1	Frail, D.	NRAO-Socorro	Ad Hoc Proposal		8, 12, 26	2.8
ADHOC2	Thomas, D.	NRAO-Socorro	Ad Hoc Proposal		20, 28	5.5
AE107	Edge, A. Allen, S. Crawford, C. Fabian, A. Boehringer, H.	Cambridge Cambridge Cambridge Cambridge MPE	Central galaxies of x-ray selected clusters	6	23	4
AF294	Frail, D. Kulkarni, S. Vasisht, G.	NRAO-Socorro Caltech Caltech	The soft gamma ray repeater SGR 1806-20	3.6, 6	6	1.5
AF301	Fomalont, E. Kellermann, K. Partridge, B. Richards, E. Windhorst, R.	NRAO-CV NRAO-CV Haverford Virginia Arizona State	The HST deep image	3.6	5, 12	18.0
AF302	Frail, D. Goss, W. M.	NRAO-Socorro NRAO-Socorro	Confirmation of supernova remnant/molecular cloud interactions	20 line w/BM055	4	8.0
AG448	Greenhill, L. Henkel, C.	CfA MPIfR	Monitoring the acceleration of water megamaser features in NGC 4258	1.3 line w/BD027	3, 25	7.0
AG449	Gizani, N. Leahy, J. Garrington, S. Perley, R.	Jodrell Bank Jodrell Bank Jodrell Bank NRAO-Socorro	Faraday rotation in Hercules A	3.6, 20	23	4.0
AG474	Gabuzda, D. Cawthorne, T.	Lebedev Lancashire	Rotation measures for 15 BL Lacertae objects	20	7	3.5
AG476	Geller, R. Antonucci, R. Ekers, R. Killeen, N. Desai, K. deBruyn, G.	Calif.-Santa Barbara Calif.-Santa Barbara ATNF ATNF NRL NFRA (Dwingeloo)	Search for the ionized intergalactic medium via Thomson scattered halos	20	10	2.7
AG477	van Gorkom, J. Yun, M. Bahcall, J.	Columbia NRAO-Socorro Inst Adv Study	PKS 2349-014, possible link between mergers and AGNs	20 line	21	3.5
AG479	Gopalswamy, N. Kundu, M. Mitta, N.	Maryland Maryland Lockheed	Nonthermal emission and plasma flow during bright point flares	2, 3.6, 6	24, 29	10.0
AG481	Gudel, M. Ottmann, R. Duerbeck, H.	Paul Scherrer MPE Muenster	Coordinated observations of RZ Cas	3.6 w/BD027	2	14.0
AH570	Horellou, C. Combes, F. Caseoli, F.	Onsala Paris Obs. Paris Obs.	HI in the interacting galaxy Arp 119	20 line	25	8.5

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH571	Huchtmeier, W. Westpfahl, D. Adler, D.	MPIfR NMIMT NRAO-Socorro	CAS 1 and MB 1: A local group member and a merger victim	20 line	19	8.0
AH572	Hjellming, R.M. Rupen, M.P.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole candidate J1719	2, 3.6, 6, 20 w/BD027	3, 11, 24	4.5
AH573	Hjellming, R.M. Rupen, M.P.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole binary GRO J1655	2, 3.6, 6, 20	6, 15, 29	5.0
AI061	Ivison, R.J. Seaquist, E.R.	Royal Edinburgh Toronto	OH/IR color mimics: testing the binary hypothesis	0.7, 1.3, 2, 3.6, 6	10	5.0
AJ255	Jore, K. Broeils, A. Haynes, M.	Cornell Stockholm Cornell	Formation of counter-rotating components in Sa galaxies	20 line	22, 23	16.0
AK376	Kulkarni, S.R. Frail, D.A.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters		15, 27	3.1
AK420	Kollgaard, R.I. Ghisellini, G. Maraschi, M. Pesce, J. Sambruna, R. Urry, C.M.	Penn State Torino Genova STScI STScI STScI	Multifrequency monitoring of blazars	1.3, 2, 3.6, 6, 20	1, 6, 7, 17, 26	7.0
AL364	Leitch, E.M. Myers, S.T. Readhead, A.C.S.	Caltech Caltech Caltech	Point source contaminants in the OVRO microwave background fields	0.7, 1.3, 2, 3.6 w/BW025	9	10.0
AL365	Lim, J. Walter, F.M. Wolk, S.J.	Academia Sinica SUNY-Stony Brook SUNY-Stony Brook	Radio observations of a candidate isolated neutron star	3.6 w/BD027	3	6.0
AL366	Lacy, M. Blundell, K.	Oxford Oxford	A search for remnant hotspots in radio-quiet quasar E 1821+643	20	17	2.5
AL379	Lara, L. Cotton, W.D. Feretti, L. Giovannini, G. Marcaide, J. Venturi, T.	Bologna NRAO-CV Bologna Bologna Valencia Bologna	Large angular size radio sources from the NRAO VLA Sky Survey	6, 20	18	14.0
AM503	Moffett, D. Hankins, T.	NRAO-Socorro NMIMT	Crab pulsar polarization at high radio frequencies	3.6, 6, 20	1, 22	8.0
AM509	Mehring, D. Goss, M. Palmer, P.	Illinois NRAO-Socorro Chicago	Search for 2cm H2CO masers in 6cm H2CO maser sources	2, 6	13	3.5
AM510	van Moorsel, G. Greisen, E.	NRAO-Socorro NRAO-CV	HI extent of NGC 6503	20 line	27	12.0
AM511	Marti, J. Mirabel, F. Chaty, S. Rodriguez, L.	Barcelona Saclay Saclay UNAM	Hard X-ray sources in the galactic bulge	3.6, 6	2	6.0
AM519	Menten, K. Carilli, C. Reid, M.	CfA NRAO-Socorro CfA	Multi-molecule absorption line study of the Einstein Ring 1830-211	0.7, 1.3, 3.6, 6, line	12	7.7
AM522	McMullin, J. White, S. Mundy, L. Blake, G.	Arizona Maryland Maryland Caltech	Stellar radio population of Lynds 1641	6	4	2.3
AM524	Meehan, L. Wilking, B. Claussen, M.	Missouri Missouri NRAO-Socorro	Multifrequency continuum survey of five young stellar objects	2, 3.6, 6	26	8.0
AO125	Olling, R.	Columbia	Determining the shape of dark matter halos from the flaring of HI	20 line	13, 14	18.1
AO126	Ohashi, N. Chen, H. Zhao, J. Ho, P.	CfA CfA IAA-Taipei CfA	Defining spectral index of dust emissions from circumstellar disks	0.7, 1.3	23, 24	18.0
AP330	Pildis, R. Eder, J. Schombert, J. Oemler, A.	CfA Arecibo NASA HQ Yale	HI Mapping of dwarf spiral galaxies	20 line	10	12.0
AP332	dePater, I.	Calif.-Berkeley	Jupiter Patrol: Aftermath of Comet-Jupiter Crash	20, 90	5	3.0
AR334	Roser, H. Perley, R. Meisenheimer, K.	MPIfA NRAO-Socorro Royal Edinburgh	High frequency mapping of the jet of 3C273	0.7, 1.3, 2, 3.6, 6	29	3.9
AR348	Ratnatunga, K. Hewitt, J.	Johns Hopkins MIT	Radio observations of two Einstein cross gravitational lenses	3.6, 20 w/BD027	1, 3	5.5

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AR351	Roberts, M. Hogg, D. Haynes, M.	NRAO-CV NRAO-CV Cornell	HI Asymmetry in isolated galaxies	20 line	13	4.5
AS564	Slysh, V. Kanenskii, S. Valts, I. Dzura, A. Kogan, L.	Lebedev Lebedev Lebedev Lebedev NRAO-Socorro	Imaging of Class I methanol masers	0.7 line	3	2.0
AS577	Szomoru, A. Goldschmidt, P. Oliver, S. Mann, R. Lawrence, A. Taylor, A.	Kapteyn Imperial Imperial Queen Mary Cambridge Cambridge	HI observations of IRAS galaxies with different rates of star formation	20 line w/BG051	15,16,19,20	30.5
AT189	Taylor, C. Brinks, E. Skillman, E. Thomas, D.	McMaster NRAO-Socorro Minnesota NRAO-Socorro	Star formation in low surface brightness dwarf galaxies	20 line	27	12.0
AV221	Verdes-Montenegro, L. Yun, M. Huchtmeier, W. del Olmo, A. Perea, J.	IAA NRAO-Socorro MPIfR IAA IAA	HI in Hickson groups	20 line	21	6.5
AW362	White, S.	Maryland	The stellar activity cycle on active stars	3.6, 6, 20	9	3.1
AW404	Wilcots, E. Hodge, P.	Wisconsin Washington	HI study of nearby irregular IC 1613	20 line	11	8.0
AW431	Windhorst, R. Fomalont, E. Kellermann, K. Partridge, B. Richards, E.	Arizona State NRAO-CV NRAO-CV Haverford Virginia	VLA 8.4 GHz observations of a cluster of young compact galaxies	3.6	25	10.5
AZ075	Zhang, Q. Ho, P.	CfA CfA	Contracting molecular cloud cores	1.3 line	1	6.5
AZ077	Zwaan, M. Briggs, F.	Kapteyn Kapteyn	Giant, HI selected galaxies at 22,000 km/sec	20 line	10, 12, 17	24.5
AZ082	Zhang, Q. Ho, P.	CfA CfA	Physical properties of UC HII regions	0.7	21	1.5
BB045	Benz, A. Conway, J. Alef, W. Gudel, M.	ETH JIVE-Onsala MPIfR Paul Scherrer	VLBA observations of nearby dMe stars	3.6 Phased Array VLBI	4	6.7
BD027	Diamond, P. Kemball, A.	NRAO-Socorro NRAO-Socorro	Multi-epoch observations of stellar SiO masers. w/AG481,AG448,AR348,AH572,AL365,BM055	0.7 Single antenna VLBI	2,3	24.0 26
BG051	Gwinn, C. Britton, M. Bloemhof, E.	Calif.-Santa Barbara Calif.-Santa Barbara Arizona	Angular broadening of the least-scattered pulsar	400 Phased array VLBI w/AS577	1, 15	21.0
BM055	Mantovani, F. Junor, W. Saikia, D. Salter, C.	Bologna New Mexico NCRA-Pune Arecibo	Polarization imaging of CSS sources with very high rotation measures. w/BM055,BD027,Test,AF302	3.6 Single antenna VLBI	3, 4	14.2
BM056	Moran, J. Herrnstein, J. Greenhill, L. Miyoshi, M. Inoue, M. Nakai, N. Diamond, P. Henkel, C.	CfA CfA CfA NAO NAO NAO NRAO-Socorro MPIfR	The proper motions of the water vapor masers in NGC 4258	1.3 Phased array VLBI	21	14.0
BR034	Roberts, D. Wardle, J. Ojha, R. Homan, D. Aller, H. Aller, M. Hughes, P.	Brandeis Brandeis Brandeis Brandeis Michigan Michigan Michigan	Sources with rapidly varying polarization	1.3, 2	2	2.0
BW024	Wilkinson, P. Henstock, D. Readhead, A. Taylor, G. Pearson, T.	Jodrell Bank Jodrell Bank Caltech NRAO-Socorro Caltech	Completing the search for milli-lenses in the PR, CJ1 and CJ2 survey	1.3 Phased array VLBI	17	24.5
BW025	Walker, R. Fomalont, E.	NRAO-Socorro NRAO-CV	VLBA Baselines - Service/test project. w/Move/Op,BW025,AL364,AW362,Baselines	3.6 Single antenna VLBI	8, 9	20.2

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Prog#	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
OPR			Operations			40.5
	Staff	NRAO	Maintenance Move/Operations Software General Tests		6, 8	40.6 15.7 30.0 43.7

The average downtime for the month of February 1996 was approximately 5.9%.

The array was scheduled 100% (697.9 hours) of the time:

- 76.1% (531.0 hours) to astronomical programs
- 13.8% (96.3 hours) to scheduled test calibration
- 10.1% (70.6 hours) to scheduled maintenance

The array was in:

- CnB configuration from February 1 through February 5
- C configuration from February 5 through March 31

Total number of programs for February 1996 was 64

The following independent proposals shared simultaneous observing time (63.4 hours):

Projects	Hours
AF302/BM055	6.7
AG448/BD027	1.5
AG481/BD027	12.8
AL364/BW025	10.0
AL365/BD027	5.7
AR348/BD027	2.5
AS577/BG051	7.0
AW362/BW025	3.1
Baseline/BW025	2.0
BD027/BM055	0.5
BM055/BM055	2.0
Move/Op/BW025	5.1
Test/BM055	3.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB628	Becker, R. Helfand, D. White, R. Perley, R.	Calif.-Davis Columbia STScI NRAO-Socorro	Survey of the north galactic cap.	20	1, 3	21.0
AB705	Burke, B. Becker, D. Lehar, J. Hewitt, J. Roberts, D.	MIT MIT CfA MIT Brandeis	Time delay of the gravitational lens 0957+561	3.6, 6	25	2.0
AB766	Blundell, K. Rawlings, S. Lacy, M. Littlewood, C. Willott, C. Serjeant, S.	Oxford Oxford Oxford Oxford Oxford	The evolution of radio quasars and their environments from z=0.5-3	3.6, 6, 20 w/BM055	21, 26	12.0
AB778	Bliton, M. Roettiger, K. Burns, J. Loken, C. Owen, F.	NMSU Maryland NMSU NMSU NRAO-Socorro	Steep spectrum radio sources in rich clusters	20	29	4.5
AB782	Brown, A. Stringfellow, G.	Colorado Colorado	An outburst of PMS star V1143 Ori	3.6 w/B0003, Pointing	6, 10	3.0
AC447	Crane, P. Cowan, J. Primini, F. Roberts, D. Dickel, J.	Interferometrics Oklahoma CfA Illinois Illinois	Radio and X-ray variability of M31	3.6	4, 5	16.0
AC460	Carkner, L. Feigelson, E. Neuhauser, R. Wichmann, R. Krautter, J.	Penn State Penn State MPIE Heidelberg Heidelberg	Radio survey of dispersed x-ray selected T Tauri stars	3.6 w/BD022	12, 13, 14	24.0
AD370	Dallacasa, D. Feretti, L. Giovannini, G. Klein, U.	JIVE Bologna Bologna Bonn	Probing the cluster magnetic field in Abell 119	3.6, 6, 20	6, 7	16.0
AD373	Deguchi, S. Miyoshi, M. Asaki, Y.	Nobeyama Mizusawa Mizusawa	Position of OH masers relative to continuum sources	18, 1.3 line	23, 26	2.0
AD377	Di Francesco, J. Evans, N. Chandler, C.	Texas Texas Cambridge	Spectral energy distribution of Herbig Ae/Be Stars	3.6, 1.3, 0.7 w/BD022	14, 17	11.6
ADHOC1	Frail, D.	NRAO-Socorro	AD HOC Proposal		19	1.7
AF294	Frail, D. Kulkarni, S. Vasisht, G.	NRAO-Socorro Caltech Caltech	The soft gamma ray repeater SGR 1806-20	3.6, 6	4	1.0
AG437	Gray, A.	DRAO	Detailed imaging and polarimetry of G357.1-00.2, a possible SNR	20	28	4.5
AG438	Gray, A. Goss, W. M.	DRAO NRAO-Socorro	3.6 cm imaging and polarimetry of G359.1-00.2 (the Snake)	3.6 w/BM055	21	7.5
AG448	Greenhill, L. Henkel, C.	CfA MPIfr	Monitoring the acceleration of water megamaser features in NGC 4258	1.3 line w/BM055	11, 20	5.5
AG472	Gaensler, B. Frail, D. Manchester, R. Green, A.	Sydney NRAO-Socorro ATNF Sydney	Two unusual barrel supernova remnants	20, 90 w/BP025	20	8.5
AG474	Gabuzda, D. Cawthorne, T.	ASC Lebedev Lancashire	Rotation measures for 15 BL lacertae objects	20	17, 19, 29	12.5
AG478	Gopal-Krishna Bhatnagar, S. Wisotzki, L. Koehler, T.	Tata Tata Hamburg Obs. Hamburg Obs.	Search for radio continuum from QSOs in the Hamburg ESO Survey	6	29	16.0
AG480	Gudel, M. Guinan, E. Gagne, M.	Paul Scherrer Villanova Colorado	Search for active FOV stars	3.6	12, 13	6.0
AH557	Hofner, P. Stecklum, B.	Cologne MPG-Jena	M8 Revisited: What is ionizing the hourglass	1.3, 3.6	23	2.0
AH568	Harvanek, M. Stocke, J.	Colorado Colorado	Distant 3CR radio galaxies @ z=0.15-0.65	20	8	2.9
AH572	Hjellming, R. Rupen, M.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole candidate J1719	20, 6, 3.6	2, 19	3.0
AH573	Hjellming, R. Rupen, M.	NRAO-Socorro NRAO-Socorro	Radio and x-ray activity in the galactic black hole binary GRO J1655	20, 6, 3.6, 2 w/B0003	11	1.5

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AI059	Ishwara-Chandra, C. Kapahi, V. Saikia, D. Subrahmanya, C.	NCRA-Pune NCRA-Pune NCRA-Pune NCRA-Pune	Polarization studies of Molonglo complete sample	6 w/BP025	20, 31	10.5
AK376	Kulkarni, S. Frail, D.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters	20 w/BO003, BP025	11, 20, 22	5.9
AK400	Kobulnicky, C. Vacca, W. Hogg, D.	Minnesota Hawaii NRAO-CV	A starburst core and probable radio supernova in Henize 2-10	2	2	5.0
AK420	Kollgaard, R. Ghisellini, G. Maraschi, M. Pesce, J. Sambruna, R. Urry, C.	Penn State Torino Genova STSci STSci STSci	Multifrequency monitoring of blazars	1.3, 2, 3.6, 6, 20	3, 15, 19, 26	6.0
AK421	Kobulnicky, C. Skillman, E.	Minnesota Minnesota	HI Mapping of the nearby peculiar starburst galaxy NGC 5253	20 line	28	5.0
AK423	Kurtz, S. Carral, P. Rodriguez, L. Hofner, P. DePree, C.	UNAM Guanajuato UNAM Cologne NRAO-Socorro	7mm continuum emission, H2O masers, and cometary HII regions	3.6, 2, 0.7	29	7.0
AL364	Leitch, E. Myers, S. Readhead, A.	Caltech Caltech Caltech	Point source contaminants in the OVRO microwave background fields	0.7, 1.3, 2, 3.6 w/BP025	14	10.0
AL373	Lim, J. White, S.	Academia Sinica Maryland	Radio survey of nearby, highly-magnetized white dwarfs	3.6 w/BO003	8, 11	4.0
AL376	Lo, K. Tolstoy, E.	Illinois STSci	HI Distribution in the transition dwarf galaxy-Phoenix	20 line	23	4.0
AL380	de Lapparent, V. Roland, J.	IAP IAP	Radio survey of an optically selected sample of galaxies	6	22	6.0
AM499	Morrison, G. Owen, F.	NRAO-Socorro NRAO-Socorro	Imaging the two most extreme Butcher-Oemler clusters	20	5, 6, 8	30.1
AM503	Moffett, D. Hankins, T.	NRAO-Socorro NMIMT	Crab pulsar polarization at high radio frequencies	3.6, 6, 20	31	2.0
AM509	Mehringer, D. Goss, M. Palmer, P.	Illinois NRAO-Socorro Chicago	Search for 2cm H2CO masers in 6cm H2CO maser sources	6, 2	23	2.0
AM511	Marti, J. Mirabel, F. Chaty, S. Rodriguez, L.	Barcelona Saclay Saclay UNAM/Mexico	Hard X-RAY sources in the galactic bulge		26	6.5
AM519	Menten, K. Carilli, C. Reid, M.	CfA NRAO-Socorro CfA	Multi-molecule absorption line study of the Einstein Ring 1830-211	8.6, 3.6, 1.3, 0.7, line	6	3.0
AM520	Menten, K. Reid, M.	CfA CfA	Deep survey for stellar SiO and H2O masers in the central parsec	1.3, 0.7, line	13, 16, 18, 19	20.6
AM521	Matthews, L. Wilcots, E. Gallagher, J.	SUNY Wisconsin Wisconsin	HI rotation curves of extreme late-type spiral galaxies	20 line	24, 25, 26	19.0
AM522	McMullin, J. White, S. Mundy, L. Blake, G.	Arizona Maryland Maryland Caltech	Stellar radio population of Lynds 1641	6	7, 27	4.0
AM525	Moore, E.	Rutgers	HI observations of spiral galaxies	20 line	22	10.0
AP327	de Pater, I. Grossman, A.	Calif.-Berkeley Maryland	Jupiter at the Time of the Galileo Probe Entry	2 w/Move/Op	25	7.0
AP332	de Pater, I.	Calif.-Berkeley	Jupiter Patrol: Aftermath of Comet-Jupiter Crash	90, 20, 6	7	3.0
AR349	Roberts, D. Yusef-Zadeh, F. Uchida, K.	Illinois Northwestern MPIfR	OH 1720 MHz masers: G359.1-0.5, Sgr A	20 line	22	4.0
AS568	Sramek, R. Weiler, K. VanDyk, S. Panagia, N.	NRAO-Socorro NRL Calif.-Berkeley STSci	Properties of radio supernovae	1.3, 2, 3.6, 6, 20	12	7.0
AS580	Sarma, A. Troland, T. Roberts, D. Crutcher, R.	Kentucky Kentucky Illinois Illinois	OH Zeeman observations toward NGC 6334	20 line	27	8.0
AT192	Torrelles, J.	IAA	Two compact planetary nebulae	3.6	8	2.0

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Prog#	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AU063	Umana, G. Trigilio, C. Franciosini, E. Chiuderi Drago, F.	Noto Noto Florence Florence	Radio spectra of active binaries during flares	1.3, 2, 3.6, 6, 20 w/BG045	15	10.0
AV221	Verdes-Montenegro, L Yun, M. Huchtmeier, W. del Olmo, A. Perea, J.	IAA NRAO-Socorro MPIFR IAA IAA	HI in hickson groups	20 line	27	4.0
AV222	Venturi, T. Morganti, R. Bardelli, S. Hunstead, R.	Bologna ATNF Trieste Sydney	J1324-316, a possible relic radio source in cluster of galaxies	90	26	3.0
AW362	White, S.	Maryland	The stellar activity cycle on active stars	3.6, 6, 20	29	1.5
AW419	Watson, A. Cox, A. Wilcots, E.	Lowell NRAO-Socorro Wisconsin	Sub-arcsecond imaging of nuclear starbursts at 2cm and 6cm	2	4	2.0
AW425	Whiteoak, J. Reich, W. Wiebebinski, R. Megeath, S. Uchida, K.	MPIFR MPIFR MPIFR MPIFR	Clumped regions and star formation in S296	20 w/BG045	24	3.0
AW427	White, S. Franciosini, E. Umana, G.	Maryland Florence Noto	Survey of coherent emission from RS CVn Systems at low frequencies	20	2	7.6
AW430	Wilcots, E. Elmegreen, B. Gallagher, J.	Wisconsin IBM Wisconsin	HI obserations of late type spiral galaxies	20 line w/BM055	21	5.9
AZ078	Zabludoff, A. van Gorkom, J. Shectman, S. Zaritsky, D.	Mt. Wilson Columbia Mt. Wilson Calif.-Santa Cruz	Distribution and kinematics of HI in post merger galaxies	20 line	27, 28, 29, 30	17.2
AZ080	Zuckerman, B. Palmer, P. Webb, R.	Calif.-Los Angeles Chicago Calif.-Los Angeles	Search for circumstellar HI around young stars	20 line	21, 22, 23, 24	17.4
BD022	Diamond, P. Kemball, A.	NRAO-Socorro NRAO-Socorro	Observations of the SiO masers in OH/IR stars	0.7 Single antenna VLBI w/AC460,AL364,AD377,BG045	15, 13	27.1
BD027	Diamond, P. Kemball, A.	NRAO-Socorro NRAO-Socorro	Multi-epoch observations of stellar SiO masers	0.7	3	2.0
BG045	Greenhill, L. Moran, J. Danchi, W. Bester, M.	Cfa Cfa Calif.-Berkeley Calif.-Berkeley	Snapshot survey of SiO maser stars at maximum and minimum luminosity	0.7 Single antenna VLBI w/AU063,BD022,Move/Op	15	11.4
BJ021	Jones, D. Dressel, L.	JPL ARC-GSFC	Compact radio sources asociated with nuclear emission line regions	20	9	2.1
BL027	Lestrade, J. Phillips, R. Jones, D. Preston, R.	Paris/JPL Haystack JPL JPL	Astrometric monitoring of Sigma2 CrB	3.6 Phased array VLB	5	12.0
BL028	Leppanen, K. Gabuzda, D. Lobanov, A. Cawthorne, T.	Metsahovi ASC Lebedev NMIMT Lancashire	Linearly polarized structure of eight bright quasars at 1.3cm	1.3	27	3.5
BM050	Moellenbrock, G. Roberts, D. Wardle, J.	Brandeis Brandeis Brandeis	Polarization of gamma-ray blazars	1.3, 2	13	2.0
BM055	Mantovani, F. Junor, W. Saikia, D. Salter, C.	Bologna New Mexico NCRA-Pune Arecibo	Polarization imaging of CSS sources with very high rotation measures	3.6 Single antenna VLBI w/AG438,AB766,BM055	21	11.9
B0003	Ojha, R. Aaron, S. Holdaway, M. Roberts, D. Wardle, J.	Brandeis Brandeis NRAO-Tucson Brandeis Brandeis	Structure and polarization of hotspots. w/Startup,Pointing,AB782,B0003,AL373,AG448,AH 573	20, Single antenna VLBI	10	18.1
BP025	Pearson, T. Readhead, A. Worrall, D.	Caltech Caltech Cfa	Nucleus of the Quasar 3C48	2, 3.6, 20 Single antenna VLBI w/AG472,A1059,Tests,AK376	20	14.0

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Program	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BR040	Ratner, M. Bartel, N. Lebach, D. Lestrade, J. Shapiro, I.	Cfa York Cfa Paris/JPL Cfa	Reference sources for astrometry of HR 1099 and IM Peg	3.6 Phased array VLBI	11	5.0
BS019	Sjouerman, L. Diamond, P. van Langevelde, H. Winnberg, A. Habing, A. Lindqvist, M.	Onsala NRAO-Socorro JIVE-Socorro Onsala Leiden Leiden	Stellar proper motions in galactic center from SiO and H2O masers	0.7, 1.3 Phased array VLBI	12	7.0
BW021	Wardle, J. Attridge, J. Roberts, D.	Brandeis Brandeis Brandeis	Comparing emission-line BL Lacs and OVV/HPQ quasars	6	5	2.0
	Staff	NRAO	Maintenance Move/Operations Holiday Operations Software General Tests		1	55.6 26.8 15.9 72.2 31.8 62.0

The average downtime for the month of January 1996 was approximately 3.9%.

The array was scheduled 97.9% (730.2 hours) of the time:

66.0% (492.3 hours) to astronomical programs

20.2% (150.5 hours) to scheduled test calibration

11.7% (87.4 hours) to scheduled maintenance

The array was in:

B configuration from January 1 through January 8

CnB configuration from January 8 through January 31

Total number of programs for January 1996 was 72

The following independent proposals shared simultaneous observing time (24.0 hours):

Projects	Hours	Projects	Hours
AB766/BM055	6.1	AL373/B0003	2.0
AB782/Pointing	2.0	AU063/BG045	3.5
AC460/BD022	5.7	AW430/BM055	3.6
AC460/BD022	2.4	BD022/BG045	2.9
AD377/BD022	6.0	B0003/AB782	2.0
AG438/BM055	2.2	B0003/B0003	1.4
AG448/B0003	4.5	B0003/B0003	0.8
AG472/BP025	4.2	B0003/Pointing	0.3
AH573/B0003	1.5	B0003/Pointing	0.3
A1059/BP025	5.5	B0003/Startup	2.4
AK376/B0003	0.7	Move/Op/BG045	5.0
AK376/BP025	1.3	Startup/Pointing	2.8
AL364/BD022	10.0	Test/BP025	3.1