

## VLA Utilization Report December 1995

Prog#	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AM499	Morrison, G. Owen, F.	NRAO-Socorro NRAO-Socorro	Imaging the two most extreme Butcher-Oemler clusters	20	26	6.0
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	2	16.0
AP296	Preston, R.A. Folkner, W.M.	JPL JPL	Earth based observation of Galileo probe for Jupiter wind estimation	3.6	3, 7	6.5
AP327	de Pater, I. Grossman, A.	Calif.-Berkeley Caltech	Jupiter at the Time of the Galileo Probe Entry	2, 3.6, 6, 20	3, 4	14.0
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	3.5
AS574	Seaquist, E.	Toronto	A possible protogalaxy	3.6 w/BD027	30	4.5
AS575	Simon, L. Higdon, J.	Iowa ATNF	Ring galaxy Arp 141	20 line	28	7.5
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	15, 16	12.0
AW404	Wilcots, E.M. Hodge, P.W.	NRAO-Socorro Washington	HI study of nearby irregular IC 1613	20 line	16, 18	16.0
AW419	Watson, A. Cox, A.L. Wilcots, E.	Lowell NRAO-Socorro Wisconsin	Sub-arcsecond imaging of nuclear starbursts at 2cm and 6cm	2	7, 27	5.5
AW420	Wannier, P. Stapelfeldt, K. Sahai, R. Koerner, D. Werner, M. Trauger, J.	JPL JPL JPL JPL JPL	Protostellar disks in bright HII regions	3.6	15	12.0
AW421	Wallin, J. Higdon, J.	George Mason ATNF	HI observations of two interacting ring galaxies	20 line	26	5.0
AY072	Young, L. Lo, K.Y.	Illinois Illinois	HI in the dwarf irregular galaxy Leo A	20 line	1	10.0
AZ074	van Zee, L. Haynes, M.P. Salzer, J.J. Westpfahl, D.	Cornell Cornell Wesleyan NMIMT	HI in the star forming regions in IZw18	20 line	3,15	9.5
BA014	Aaron, S. Wardle, J. Roberts, D.	Brandeis Brandeis Brandeis	Polarization and spectral index mapping of the CSS quasar 3C309.1	2, 3.6	11	1.5
BB043	Beasley, A.J. Bastian, T.S. Niell, A.	NRAO-Socorro NRAO-Socorro Haystack	High-frequency VLBA observations of AE Aqr	1.3 Phased array VLBI	1	12.0
BB054	Bower, G.C. Backer, D.	Calif.-Berkeley Calif.-Berkeley	Multi-frequency polarimetry of 3C 454.3	1.3, 3.6	3	3.0
BD023	Denn, G.R. Mutel, R.L.	Iowa Iowa	Monitoring BL Lac, with polarization	1.3, 2, 3.6	21	2.0
BD027	Diamond, P.J. Kemball, A.J.	NRAO-Socorro NRAO-Socorro	Multi-epoch observations of stellar SiO masers	0.7 Single antenna VLBI w/AH492, AD370, AC451, AS574	24	24.0
BG041	Geldzahler, B. Kafatos, B. Hollis, J.M. Bradshaw, C. Pedelty, J.A.	George Mason George Mason NASA-GSFC George Mason NASA-GSFC	High resolution observations of the symbiotic star R Aqr	6 Phased array VLBI	9	7.1
BG047	Greenhill, L. Koekemoer, A. Gwinn, C.R. Moran, J. Herrnstein, J. Henkel, C. van Breugel, W. Dey, A.	CfA Univ. Paris 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	22	7.0
BJ020	Junor, B. Biretta, J.A. Wardle, J.	New Mexico STScI Brandeis	VLBA 6, 4cm polarimetry of Vir A.		1, 9	4.5
BL026	Lobanov, A.P. Zensus, J.A.	NRAO-CV NRAO-CV	Relativistic shocks and transition zones in 3C273 and BL lacertae	1.3, 2, 3.6, 6	1	4.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA181	Alexander, P. Green, D.A. Clemens, M.S.	MRAO MRAO MRAO	Star-formation history in interacting galaxies NGC 4490/NGC 4485	3.6 line	26	1.5
AA193	Anantharamaiah, K.R. Roy, A. Goss, M. Zhao, J.H.	Raman NRAO-Socorro NRAO-Socorro IAA-Taipei	Recombination lines from external galaxies	20 line	23	7.0
AA194	Antonucci, R. Barvainis, R. Geller, R.	Calif.-Santa Barbara Haystack Calif.-Santa Barbara	Nature of the optical/ultraviolet emission in AGN	1.3	6	5.0
AB628	Becker, R.H. Helfand, D.J. White, R.L. Perley, R.	Calif.-Davis Columbia STScI NRAO-Socorro	Survey of the north galactic cap.	20	5,7-11,14, 17,19,21,23, 24,26,28, 29	173.0
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	2.0
AC429	Cowan, J. Branch, D.	Oklahoma Oklahoma	Search for extragalactic intermediate age supernovae	6	4	8.0
AC441	Cotton, B. Swain, M. Bridle, A. Kassim, N.	NRAO-CV Rochester NRAO-CV NRL	J2146+82-Large radio galaxy with misaligned outbursts?	90	23	4.0
AC445	Clarke, T.E. Kronberg, P.P. Bohringer, H.	Toronto Toronto MPE	Polarizaion observations of radio sources through Abell clusters	3.6, 20	21	10.0
AC451	Carilli, C. Womble, D. Sargent, W.	Cfa Calif.-San Diego Caltech	HI 21cm absorption towards 0959+682 by Tidal debris in the M81 group	20 line w/BD027	29	10.0
AC452	Chen, H. Zhao, J.-H.	Cfa IAA-Taipei	Direct imaging of circumstellar disk around L1641N	0.7, 1.3	1	4.0
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 w/BD027	29, 31	16.0
ADHOC1	Blundell, K.	Oxford	Ad Hoc Proposal		9	0.9
ADHOC2	Frail, D.	NRAO	Ad Hoc Proposal		14, 26	2.0
ADHOC3	Claussen, M.	NRAO	Ad Hoc Proposal		30	0.6
AE097	Eilek, J. Loken, C. Owen, F.	NMIMT NMSU NRAO-Socorro	The ends of type I radio tails	90	3	6.0
AF294	Frail, D.A. Kulkarni, S.R. Vasisht, G.	NRAO-Socorro Caltech Caltech	The soft gamma ray repeater SGR 1806-20	3.6, 6	14, 28	3.5
AH492	Hjellming, R. Gehrz, R. Seaquist, E. Taylor, A.	NRAO-Socorro Minnesota Toronto Calgary	Image and light curve evolution of radio novae	1.3, 2, 3.6, 6, 20 w/BD027	29	3.5
AJ250	Jackson, N. Bremer, M. Roland, J.	Jodrell Bank Leiden IAP (France)	Completion of an unbiased sample of radio sources	6	11	1.5
AK376	Kulkarni, S.R. Frail, D.A.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters		18, 22	2.5
AK403	deKoff, S. Biretta, J. Baum, S. Sparks, W. Miley, G. Macchetto, D.	STScI STScI STScI STScI Leiden STScI	HST/VLA snap-shot survey of 3CR radio galaxies	2, 3.6	4, 9	8.5
AK410	Knopp, G. Chambers, K.C.	Hawaii Hawaii	High redshift radio galaxies - morphology and polarization	6	5, 24, 16	13.5
AK419	Keane, M.	NOAO-CTIO	A new sample of southern compact groups	20	15, 14	9.0
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	3, 11, 21	5.0
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	6, 17, 30	13.5
AL382	Lestrade, J.	Paris Obs.	Search for emission from 51 Peg	3.6	7	1.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BL030	Lonsdale, C.J. Barthel, P.D.	Haystack Kapteyn	Resolving the interaction edge of 3C205 south	6 Phased array VLBI	30	18.3
BS019	Sjouwerman, L. Diamond, P. van Langevelde, H.J. Winnberg, A. Habing, A. Lindqvist, M.	Leiden 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	23	2.5
GR012	Rupen, M.P. Bartel, N. Beasley, A.J. Conway, J. Bietenholz, M. Sorathia, B. Graham, D. Venturi, T. Umana, G. Rius, A. Altunin, V. Jones, D.	NRAO-Socorro York NRAO-Socorro JIVE-Onsala York York MPIfR Bologna Noto Barcelona JPL JPL	VLBI imaging of supernova 1993J in M81	3.6, 6, 20 Phased array VLBI	17	16.4
HOLI			Holiday			36.9
MVOP			Move/Operations			1.9
OPR			Operations			37.1
	Staff	NRAO	Maintenance Software General Tests			46.8 26.4 71.7

The average downtime for the month of December 1995 was approximately 1.9%.  
 The array was scheduled 91.4% (682.0 hours) of the time:  
 66.8% (498.2 hours) to astronomical programs  
 14.8% (110.7 hours) to scheduled test calibration  
 9.8% ( 73.1 hours) to scheduled maintenance

The array was in:  
 B configuration from December 1 through December 31

Total number of programs for December 1995 was 50

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

Projects	Hours
AC451/BD027	10.0
AD370/BD027	8.0
AH492/BD027	3.1
AS574/BD027	2.9

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB628	Becker, R.H. Helfand, D.J. White, R.L. Perley, R.	Calif.-Davis Columbia STScI NRAO-Socorro	Survey of the north galactic cap.	20	1,3-7,9-11, 13,16-20, 22,28,30	182.0
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	9	2.1
AB740	Baum, S.A. Colbert, E. O'Dea, C. Pedlar, A.	STScI Maryland STScI Jodrell Bank	Three archetypical Seyferts: MKN 6, NGC 3079, MKN 231	6	2	12.0
AB759	Browne, I.W.A. Wilkinson, P.N. Syskes, C.M.	Jodrell Bank Jodrell Bank Jodrell Bank	Ring and halo in the gravitational lens B0218+357	20	29	1.5
AB760	Browne, I.W.A. Wilkinson, P.N. Sykes, C.M. Muxlow, T.W.B. Jackson, N.J. Myers, S.T. Fassnacht, C.D. Readhead, A.C.S. Pearson, T.J. de Bruyn, A.G. Snellen, I.A.G.	Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Caltech Caltech Caltech Caltech NFRA Leiden	Deep imaging of the new quadruple lensed system 1608+656	1.3, 2, 3.6, 6, 20	25	4.0
AC420	Carilli, C. Rottgering, H. Best, P. Owen, F.	CfA Cambridge Cambridge NRAO-Socorro	Two classic alignment effect' high z radiogalaxies	3.6, 6, 20	10	2.0
AC443	Chernin, L.	Calif.-Berkeley	Water masers in protostellar outflows	1.3 line	17	1.0
AC452	Chen, H. Zhao, J.-H.	CfA IAA-Taipei	Direct imaging of circumstellar disk around L1641N	0.7, 1.3	29, 30	5.0
ADHOC1	Claussen, M.	NRAO	AD HOC PROPOSAL		7	0.3
ADHOC2	Sramek, R.	NRAO	AD HOC PROPOSAL		8	1.0
ADHOC3	Diamond, P.	NRAO	AD HOC PROPOSAL		8	3.5
ADHOC4	Blundell, K.	Oxford	AD HOC PROPOSAL		8, 21, 29	2.9
ADHOC5	Bastian, T.	NRAO	AD HOC PROPOSAL		21, 22	2.3
ADHOC6	Beasley, A.	NRAO	AD HOC PROPOSAL		24	1.2
AF294	Frail, D.A. Kulkarni, S.R. Vasisht, G.	NRAO-Socorro Caltech Caltech	The soft gamma ray repeater SGR 1806-20	3.6, 6	10, 28	2.5
AF297	Fey, A.L. Kassim, N.E.	USNO NRL	Low frequency obserations of the Cygnus region	90 w/BV017	26	9.0
AG448	Greenhill, L.J. Henkel, C.	CfA MPIfR	Monitoring the acceleration of water megamaser features in NGC 4258	1.3 line	9	4.5
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, 20	12	9.0
AG450	Green, D.A. Cowan, J.J.	MRAO Oklahoma	Search for young galactic SNRs: a follow up	6	2	6.1
AH559	Ho, L.C. VanDyk, S.D.	Calif.-Berkeley Calif.-Berkeley	The Nature of low luminosity active galactic nuclei	3.6	16	7.0
AH567	Ho, P.T.P. Wilner, D.	CfA CfA	7mm continuum mapping of HL Tau	0.7	5, 15	8.0
AK376	Kulkarni, S.R. Frail, D.A.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters		9	1.4
AK414	Kronberg, P.P. Allen, M.L.	Toronto Toronto	High resolution radio spectral index studies of the nucleus of M82	3.6	25	5.0
AK416	Keane, M.	NOAO-CTIO	Deep, multi-frequency imaging of PKS 2349-014	2, 3.6, 6, 20	4	11.0
AK417	Koerner, D.W. Chandler, C.J. Sargent, A.I.	JPL NRAO-Socorro Caltech	Radial Structure and dust properties of circumstellar disks	0.7, 1.3, 3.6	5, 8	13.5
AK419	Keane, M.	NOAO-CTIO	A new sample of southern compact groups	20	1, 5, 12	7.5
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	28	1.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
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	5, 24	10.0
AL366	Lacy, M. Blundell, K.	Oxford Oxford	A search for remnant hotspots in radio-quiet quasar E 1821+643	90	19	2.5
AL368	Lara, L. Cotton, W.D. Feretti, L. Giovannini, G. Marcaide, J.M. Venturi, T.	Bologna NRAO-CV Bologna Bologna Valencia Bologna	Large angular size radio sources from the NRAO VLA Sky Survey	6, 20	19	4.0
AL381	Lundgren, S.	NRL	Candidate for EGRET source 2EG0431+2910	6	10	2.5
AM500	Marti, J. Paredes, J.M. Peracaula, M.	Barcelona Barcelona Barcelona	The Cygnus X-3 extended radio emission	3.6, 6	6	5.5
AM503	Moffett, D.A. Hankins, T.H.	NRAO-Socorro NMIMT	Crab pulsar polarization at high radio frequencies	3.6, 6, 20	1	5.5
AM504	McHardy, I. Lehto, H. Newsam, A.	Southampton Turku Southampton	Cosmic soft x-ray background and sub-mJy radio sources: are they the same	20	24	12.5
AM505	Molnar, L.A. Fix, J.D. Dunn, D.E.	Iowa Iowa Iowa	Thermal emission of Saturn's rings at Saturn Equinox	0.7, 2	20	10.0
AM507	Mundell, C. Pedlar, A. Meaburn, J. Kukula, M. Axon, D.	Jodrell Bank Jodrell Bank Manchester John Moores STScI	B Configuration observations of HI in NGC 3227	20 line w/BV017	26, 30	15.0
AP296	Preston, R.A. Folkner, W.M.	JPL JPL	Earth based observation of Galileo probe for Jupiter wind estimation	3.6	6, 11	2.0
AP302	Pooley, G.G. Hardcastle, M.J. Alexander, P. Riley, J.M.	MRAO MRAO MRAO MRAO	Jets in nearby FRI radio galaxies	3.6, 20	27	10.0
AP325	Prins, S. Magnier, E.A. Fox, D. Lewin, W.H.G. van Paradijs, J.	Amsterdam Amsterdam MIT MIT Amsterdam	90cm observations of SNRs in M31	90 w/BV017	25	12.0
AP326	Perley, R.A. Kronberg, P.P. Reid, R.I. Dyer, C.C. Roser, H.-J.	NRAO-Socorro Toronto Toronto Toronto MPIFA	Southern candidates for gravitational lensing of radiojets	3.6	3, 29	15.0
AP327	de Pater, I. Grossman, A.	Calif.-Berkeley Maryland	Jupiter at the time of the Galileo Probe Entry	2, 3.6, 6, 20	27	6.0
AS569	Skinner, S.L. Nagase, F. Itoh, M.	Colorado ISAS-Tokyo ISAS-Tokyo	The unusual wolf-rayet star WR 147	1.3, 2, 3.6, 6, 20		3.0
AT185	Thornley, M.D. Mundy, L.G.	Maryland Maryland	Cold gas on sub-kiloparsec scales in nearby flocculent galaxies	20 line	17	9.0
AV219	Vine, S.G. Thomson, R.C. Gilmore, G.F. Lewis, J.R. Wyse, R. Higdon, J.	Cambridge Cambridge Cambridge RGO Johns Hopkins NRAO-Socorro	HI Velocity field mapping of bulgeless, edge-on disk galaxies	20 line	10, 11	20.0
AZ075	Zhang, Q. Ho, P.T.P.	Cfa Cfa	Contracting molecular cloud cores	1.3 line	16-19, 21	5.0
BB049	Beasley, A.J. Bastian, T.S.	NRAO-Socorro NRAO-Socorro	Orbital monitoring of HR 1099 and UX Ari	3.6	16, 17, 18, 19, 20, 21	13.0
BC046	Claussen, M.J. Braatz, J.A. Diamond, P.J. Wilson, A.S. Henkel, C.	NRAO-Socorro Maryland NRAO-Socorro STScI MPIFR	Water masers in the elliptical galaxy NGC 1052	1.3 Phased array VLBI	28	9.0
BG046	Greenhill, L.J. Braatz, J. Wilson, A.S. Moran, J.M. Herrnstein, J.R. Claussen, M.J.	Cfa Maryland STScI Cfa Cfa NRAO-Socorro	The water maser in the Seyfert NGC 1386	1.3 Phased array VLBI	12	6.5
BL024	Lazio, T.J.W. Cordes, J.M.	Cornell Cornell	Search for angular broadening in the galactic anticenter	90 Phased array VLBI	26	12.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BP026	Phillips, R.B. Deeney, B.D. Lestrade, J.-F.	Haystack Colorado Meudon/JPL	WTT star polarization synthesis	3.6, 6 Phased array VLBI	6, 24	13.7
BU006	Ulvestad, J.S. Wrobel, J.M.	JPL NRAO-Socorro	Continuum imaging of the Seyfert 1/Starburst Galaxy Mrk 231	6, 20	17	2.0
BV017	Venturi, T. Cotton, W.D. Feretti, L. Giovannini, G. Lara, L. Marcaide, J.M.	Bologna NRAO-CV Bologna Bologna Bologna Valencia	Proper Motion monitoring in two FRI radio galaxies	3.6, 6, 20 Single antenna VLBI w/AP325,AM507,AF297	26	12.2
MAINT			Maintenance			54.4
OPR			Operations			52.4
SOFTW			Software			30.5
TEST			General tests			50.1
THANK			Holiday			25.3

The average downtime for the month of November 1995 was approximately 3.8%.  
 The array was scheduled 94.3% (680.6 hours) of the time:  
 69.8% (503.7 hours) to astronomical programs  
 12.7% ( 92.0 hours) to scheduled test calibration  
 11.8% ( 84.9 hours) to scheduled maintenance

The array was in:  
 B configuration from November 1 through November 30

Total number of programs for November 1995 was 47

The following independent proposals shared simultaneous observing time (16.2 hours):

Projects	Hours
AF297/BV017	3.2
AK419/Move/Op	2.5
AM507/BV017	8.5
AP325/BV017	0.5
AS569/Move/Op	1.5

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Progrm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA192	Abada-Simon, M. Lasota, L. Chanmugam, G. Frank, F.	Utrecht Paris Observatory Louisiana State Louisiana State	Search for radio emission from Magnetic Cataclysmic Variable RXJ051541+01	6 w/Move/Op	5	2.0
AA193	Anantharamaiah, K.R. Roy, A. Goss, W. M. Zhao, J.H.	Raman Raman NRAO-Socorro IAA-Taipei	Recombination lines from external galaxies	20 line	1	5.1
AB628	Becker, R.H. Helfand, D.J. White, R.L. Perley, R.	Calif.-Davis Columbia STScI NRAO-Socorro	Survey of the north galactic cap.	20	9,10,14,15, 19,22-24,28- 30	104.5
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	10, 27	4.0
AB764	Bujarrabal, V. Alcolea, J.	Yeibes Yeibes	Radio continuum observations of M1-92, the Minkowski's Footprint	3.6, 6, 20	19	3.6
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	29	10.0
AB767	Bloemhof, E.E. Gwinn, C.R. Danen, R.M.	Arizona Calif.-Santa Barbara Calif.-Santa Barbara	High spatial resolution observations of the LkH 101 Wind	1.3	2	8.0
AC437	Curiel, S. Eiroa, C. Canto, J.	CfA Madrid UNAM	Circumstellar disk structures around very YSOs	0.7, 1.3, 3.6 w/BG045	12, 16	10.6
AC442	Conner, S.R. Garnavich, P. Turner, E.L. Schechter, P.L. Burke, B.F.	MIT CfA Princeton CfA MIT	New gravitational lens candidates from the MIT-Green Bank-VLA survey	2	29, 31	4.0
AC445	Clarke, T.E. Kronberg, P.P. Bohringer, H.	Toronto Toronto MPE	Polarization observations of radio sources through Abell clusters	3.6, 20	8	10.0
AC446	Chandler, C. Koerner, D. Sargent, A.	NRAO-Socorro JPL Caltech	Resolving disk structure in HH 24MMS	0.7 w/BV016	9	10.0
AD365	Duric, N. Perley, R. Kassim, N.	New Mexico NRAO-Socorro NRL	75 MHz observations of galactic supernova remnant W49B	90	8	8.0
AD369	Danner, R. Kulkarni, S.	Caltech Caltech	Soft X-ray sources in high galactic latitude clouds	6, 20	25	3.0
AD372	DePree, C.	NRAO-Socorro	Unusual source in NGC 6951	2	13	2.5
ADHOC1	Frail, D.	NRAO	Ad Hoc Proposal		4, 11	2.1
ADHOC2	Andre, P.	CNRS, France	Ad Hoc Proposal		7	1.1
ADHOC3	Greenhill, L.	CFA	Ad Hoc Proposal		17	0.4
AF294	Frail, D. Kulkarni, S. Vasisht, G.	NRAO Caltech Caltech	High resolution imaging of the soft gamma ray repeater SGR 1806-02: the second epoch	6, 3.6	9	2.5
AF296	Fiebig, D. Papkalla, R.	Heidelberg Heidelberg	Search for H2O maser emission from protostellar disks	1.3 line	13, 14, 30	6.5
AH551	Ho, L.C. Van Dyk, S.D.	Calif.-Berkeley Calif.-Berkeley	Survey of nearby galactic nuclei	3.6, 6	2, 12, 24	7.5
AH556	Han, J.L. Beck, R. Berkhuijsen, E.M.	Beijing MPIfR MPIfR	Halo of M31	20	18	4.2
AH560	Hankins, T.H. Moffett, D.A. Shrauner, J. Taylor, J. Thorsett, S.	NMIMT NRAO-Socorro Princeton Princeton Princeton	Search for strong pulses from PSR B1937+214	6, 20, 90	5	7.1
AH561	Henkel, C. Gaume, R. Fey, A. Braatz, J. Wilson, A.	MPIfR USNO USNO Maryland STScI	Study of the H2O masers in IC 1481	1.3 line	31	6.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH565	Herrnstein, J. Blackman, E. Moran, J. Greenhill, L. Diamond, P. J.	CfA CfA CfA CfA NRAO-Socorro	Polarmetric observations of the masing molecular disk in NGC 4258	1.3 line	20	13.0
AH566	Ho, P.T.P. Lo, K.Y.	CfA Illinois	High velocity H2O masers toward the galactic center	1.3 line	21	3.0
AH568	Harvanek, M. Stocke, J.T.	Colorado Colorado	Distant 3CR radio galaxies @ z=0.15-0.65	20	9	6.0
AJ250	Jackson, N. Bremer, M. Roland, J.	Jodrell Bank Leiden IAP (France)	Completion of an unbiased sample of radio sources	6 w/Move/Op	9, 12	3.0
AK368	Kaufman, M. Brinks, E. Elmegreen, B. Elmegreen, D. Struck-Marcell, C.	Ohio State NRAO-Socorro IBM Vassar Iowa State	Radio continuum observations of ocular and caustic galaxies	20	8	5.0
AK376	Kulkarni, S.R. Frail, D.A.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters		16, 21, 23	8.0
AK413	Kassim, N.E. Perley, R. Erickson, W.C.	NRL NRAO-Socorro Maryland	74 MHz observations of strong sources - large angular size objects	90 w/BV016	14	24.0
AK418	Koerner, D.W. Jensen, E.L. Mathieu, R.D.	JPL Wisconsin Wisconsin	Circumstellar disks in the pre-main sequence binary environment	0.7, 1.3, 3.6 w/BG045	17, 19	13.0
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	6	1.0
AL353	Ludke, E.	Santa Maria	Faraday effect in CSS sources	1.3	28	4.5
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	2	10.5
AL367	Lehnert, M.D. Gregg, M.D.	Lawrence Livermore Lawrence Livermore	High resolution observations of many highly polarized sources	6	21	11.5
AL369	Lopez, J.A. Vazquez, R. Rodriguez, L.F.	UNAM UNAM UNAM	Imaging of the remarkable planetary nebula KJpn 8	3.6, 6 w/BG045	16	5.0
AM490	Muxlow, T.W.B. Pedlar, A. Wilkinson, P.N. Axon, D.J.	Jodrell Bank Jodrell Bank Jodrell Bank STScI	Combined 5GHz VLA-MERLIN image of starburst activity in M82	6	31	4.0
AM502	Muhleman, D. Grossman, A. Slade, M. Butler, B.	Caltech Maryland JPL NRAO-Socorro	Titan polarization and mapping radar measurements	3.6 line	3-5, 11-13	44.9
AM503	Moffett, D.A. Hankins, T.H.	NRAO-Socorro NMIMT	Crab pulsar polarization at high radio frequencies	3.6, 6, 20	3, 24, 30, 31	17.9
AR334	Roser, H.-J. 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	13	12.0
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 w/Move/Op	12	6.0
AS516	Shaver, P. Wall, J. Kellermann, K. I.	ESO-Garching RGO NRAO-CV	Accurate positions of unidentified flat-spectrum parkes sources	3.6	3	0.8
AS561	Stockton, A. Ridgeway, S.E.	Hawaii Hawaii	Radio-optical survey of a complete z ~1 3CR sample of galaxies	6	16	5.0
AS566	Saripalli, L. Patnaik, A.R.	IIA-Bangalore MPIfR	Study of a sample of flat-spectrum radio galaxies	20 w/BV016	1, 20, 22	12.0
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/BLO22	3, 6	15.0
AS571	Strelitski, V.S. Goss, W. M. DePree, C.G.	NMIMT NRAO-Socorro NRAO-Socorro	High resolution imaging of G34.26+0.15 in H52	0.7, 1.3 line	29	6.0
AS572	Saikia, D.J.	NCRA-Pune	Mildly active galaxies with nuclear radio rings and spirals	2, 3.6	30	9.0



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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS573	Saikia, D.J. Jeyakumar, S. Thomasson, P.	NCRA-Pune NCRA-Pune Jodrell Bank	Three highly distorted compact steep-spectrum radio galaxies	2, 3.6 w/BV016	21	4.5
AS574	Seagquist, E.	Toronto	A possible protogalaxy	3.6	10	1.0
AW417	Willner, S.P.	CfA	Structure of HII regions in M33	6 w/BV016	20	6.0
AW422	Wilner, D. Dickel, H.R. Welch, W. J.	CfA Illinois Calif.-Berkeley	7mm line and continuum mapping of W49A North	0.7 line	10	6.5
AW423	Willson, R.F. Lang, K.R. Kile, J.N. Gelfreikh, G.B. Bogod, V.M.	Tufts Tufts Tufts Pulkova Pulkova	Collaborative VLA observations of the sun	6, 20, 90 w/BV016	19, 21, 24	13.0
AZ074	van Zee, L. Salzer, J.J. Haynes, M.P. Westpfahl, D.	Cornell Wesleyan Cornell NMIMT	HI in the star forming regions in IZw18	20 line	26	12.0
BB045	Benz, A.O. Conway, J.E. Alef, W. Gudel, M.	ETH JIVE-Onsala MPIfR Paul Scheirer	VLBA observations of nearby dMe stars	3.6 Phased array VLBI	26	16.0
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	27	10.0
BD023	Denn, G.R. Mutel, R.L.	Iowa Iowa	Monitoring BL Lac, with polarization	1.3, 2, 3.6	8	2.0
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/AC437,AL369,AK418	16	12.0
BK036	Kemball, A.	NRAO	7mm polarization survey		9	24
BL020	Ludke, E. Sanghera, H. Cotton, W.	Santa Maria JIVE NRAO-CV	Resolving faraday effects in CSS jets	6	6	2.0
BL022	Langston, G.	NRAO-CV	High resolution imaging of Einstein Ring MG1654+1346 at 90 cm	90 Single antenna VLBI w/AS568, Move/Ops	3	7.9
BT018	Thakkar, D.D. Vermeulen, R.C. Pearson, T.J. Readhead, A.C.S.	Caltech Caltech Caltech Caltech	Morphology and proper motions of the radio cores in FR I galaxies	6 Phased array VLBI	1, 7	19.0
BV016	Vermeulen, R.C. Readhead, A.C.S. Walker, R.C. Romney, J.D. Kellermann, K.I. Dhawan, V. Benson, J.M. Backer, D.C. Alef, W.	Caltech Caltech NRAO-Socorro NRAO-Socorro NRAO-CV NRAO-Socorro NRAO-Socorro Calif.-Berkeley MPIfR	Probing the accretion region in 3C84. w/AD365,BD023,AC446,AK413,AS566,AW417,AS573,AW423	0.7, 1.3, 2, 3.6, 6 Single antenna VLBI	8,14,20	39.0
GM025	Marcaide, J.M. Ros, E. Alberdi, A. Diamond, P.J. Shapiro, I.I. Guirado, J.C. Preston, R. Jones, D. Witzel, A. Krichbaum, T. Schilizzi, R. Mantovani, F. Trigilio, C. Whitney, A.R.	Valencia Valencia ESA-LAEFF NRAO-Socorro CfA JPL JPL JPL MPIfR MPIfR JIVE Bologna Noto Haystack	Radio-shell expansion in SN 1993J	20 Phased array VLBI	1	10.5
BASE			Baselines, Pointing, Delays			44.5
MAINT			Maintenance			46.1
MOVE			Move/Operations			18.0
	Staff	NRAO	Operations			59.1
STDF			Standard field observation			7.0

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Progrm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
TEST			General tests			27.1

The average downtime for the month of December 1995 was approximately 1.9%.  
 The array was scheduled 91.4% (682.0 hours) of the time:  
 66.8% (498.2 hours) to astronomical programs  
 14.8% (110.7 hours) to scheduled test calibration  
 9.8% ( 73.1 hours) to scheduled maintenance

The array was in:  
 B configuration from December 1 through December 31

Total number of programs for December 1995 was 50

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

Projects	Hours
AC451/BD027	10.0
AD370/BD027	8.0
AH492/BD027	3.1
AS574/BD027	2.9

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA187	Akujor, C.E. Garrington, S.T.	MPIfR Jodrell Bank	Polarization observations of compact steep spectrum sources at 22GHz	1.3 w/BG015	9, 22	7.0
AA193	Anantharamaiah, K.R. Roy, A. Goss, M. Zhao, J.H.	Raman NRAO-Socorro IAA-Taipei	Recombination lines from external galaxies	20 line	30	2.0
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/BG015	1, 9, 15, 23, 30	9.5
AB747	Baan, W. Uglesich, R. Haschick, A.	Arecibo Columbia Haystack	Nuclear dynamics of NGC 6240	20	1	10.0
AB749	Barthel, P.D. Hoekstra, H. Hes, R.	Kapteyn Kapteyn Kapteyn	Beamed 60 micron radiation in lobe dominated quasars?	1.3, 2, 6	5, 6, 7	7.7
AB750	Barthel, P.D. Lonsdale, C.J. Vestergaard, M. Miley, G.K.	Kapteyn Haystack Cfa Leiden	High redshift quasar morphologies	6, 20	3	20.0
AB756	Bagchi, J. Chandra, I. Kapahi, V.	NCRA-Pune NCRA NCRA-Pune	A peculiar radio source	6, 20	23	1.5
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	17, 25, 27, 28, 29	34.5
AB768	Brown, A. Deeney, B. Gudel, M. Skinner, S. Stewart, R.	Colorado Colorado Paul Scheirer Colorado ATNF	Simultaneous radio (VLA+AT) and EUV from binary flare star CC Eri	3.6, 20	12, 13, 14, 15, 16, 17	21.0
AC444	Colomer, F. Cernicharo, J. Baudry, A. Gonzales-Alfonso, E. Alcolea, J. Marvel, K. Herpin, F.	Yebes Yebes Bordeaux Yebes Yebes NMSU/NRAO-Socorro Bordeaux	Study of high velocity SiO and H2O maser emission from evolved stars	0.7 line	9, 18, 28, 29	21.9
AC455	Camilo, F. Lundgren, S. Foster, R.	Princeton NRL NRL	Accurate position for PSR J1022+1001	20	12	1.5
AD366	DePree, C.G. Gaume, R.A. Goss, M.	UNC/NRAO-Socorro USNO NRAO-Socorro	High resolution 7mm line and continuum observations of Sgr B2	0.7	30	6.0
AD368	Domgorgen, H. Dahlem, M. Golla, G.	Bonn STScI Toronto	The ISM in NGC 2188: A case study for disk-halo interaction	3.6	17	5.0
AD369	Danner, R. Kulkarni, S.	Caltech Caltech	Soft X-ray sources in high galactic latitude clouds	6, 20 w/BB053	9, 12, 17, 24	17.5
ADHOC1	Claussen, M.	NRAO-Socorro	ADHOC PROPOSAL		7	3.1
ADHOC2	Browne, I.	Caltech	ADHOC PROPOSAL		10	0.5
ADHOC3	Kollgaard, R.	Penn State	ADHOC PROPOSAL		20	1.1
AE101	Echevarria, L.D. Morris, M.	Calif.-Los Angeles Calif.-Los Angeles	Probing the nature of the galactic center threads	3.6, 6	28, 29	15.1
AE105	Elias, M.	USNO	Monitoring Algols KX And and V367 Cyg	6	10	2.0
AF298	Frail, D.A. Goss, M.	NRAO-Socorro NRAO-Socorro	An Unusual head-tail source in the galactic plane	20 line	21	5.0
AG443	Gray, R.H.	Gray Data	High-sensitivity search of the "Wow" locale for 21-cm radio signals	20 line	25	4.0
AG448	Greenhill, L.J. Henkel, C.	Cfa MPIfR	Monitoring the acceleration of water megamaser features in NGC 4258	1.3 line	9	4.5
AG452	Gerritsen, J.P.E. Barthel, P.D. Sramek, R.A. Sanders, D.B.	Kapteyn Kapteyn NRAO-Socorro Hawaii	Radio emission in radio-quiet QSOs - starburst or AGN?	3.6	4	20.0
AG466	Golla, G. Kronberg, P.P.	Toronto Toronto	Supernova remnants in NGC 4631	3.6, 6	16	6.0
AH557	Hofner, P. Stecklum, B.	Cologne MPG-Jena	M8 Revisited: What is ionizing the hourglass	3.6, 6	25	2.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH558	Ho, L.C. Maoz, D. Barth, A.J.	Calif.-Berkeley Tel-Aviv Calif.-Berkeley	UV-dark LINERs:Obscured AGNs?	3.6, 6	10, 15	6.5
AH559	Ho, L.C. VanDyk, S.D.	Calif.-Berkeley Calif.-Berkeley	The Nature of low luminosity active galactic nuclei	3.6	9	2.0
AH564	Higdon, J.L. Wallin, J.	NRAO-Socorro George Mason	Radio continuum study of the cartwheel ring galaxy	20	18	6.0
AI057	Ivison, R.J. Seaquist, E.R.	Royal Edinburgh Toronto	Second-epoch imaging of RX puppis during a phase of low excitation	3.6	1	4.0
AI059	Ishwara-Chandra, C.H. Kapahi, V.K. Saikia, D.J. Subrahmanya, C.R.	NCRA-Pune NCRA-Pune NCRA-Pune NCRA-Pune	Polarization studies of Molonglo complete sample	3.6, 20	20	16.0
AJ245	Johnston, H.M. Strom, R.G. Verbunt, F.	Utrecht NFRA Utrecht	An X-ray knot expelled by the Vela supernova	20, 90 line	18, 24	9.0
AJ251	Jura, M. Balm, S. Turner, J. Kahane, C.	UCLA UCLA UCLA Grenoble	Big grains around the red rectangle?	0.7, 1.3, 2, 3.6	26	4.0
AK376	Kulkarni, S.R. Frail, D.A.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters		25	3.0
AK410	Knopp, G. Chambers, K.C.	Hawaii Hawaii	High redshift radiogalaxies - morphology and polarization	3.6, 6, 20	12	2.1
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	10, 27	4.5
AK421	Kobulnicky, C. Skillman, E.	Minnesota Minnesota	HI mapping of the nearby peculiar starburst galaxy NGC 5253	20 line	24, 25	10.0
AL353	Ludke, E.	Santa Maria	Faraday effect in CSS sources	1.3 w/BB053	7, 16	9.0
AL361	Lim, J. White, S.	Academia Sinica Maryland	Radio luminosity function of F-M dwarf stars in the Pleiades	3.6	11, 23, 25	24.1
AM481	Mirabel, F. Chaty, S. Rodriguez, L.F. Marti, J.	Saclay Saclay UNAM Barcelona	Hard X-ray sources in the galactic bulge	6	5, 6	4.5
AM482	Mirabel, F. Rodriguez, L.F.	Saclay UNAM	Monitoring the superluminal source GRS1915+105	3.6	5	2.0
AM484	Myers, S.T. Jackson, N.J. Blandford, R.D. Browne, I.W.A. de Bruyn, A.G. Fassnacht, C.D. Miley, G.K. Nair, S. Pearson, T.J. Readhead, A.C.S. Schilizzi, R.T. Sykes, C. Wilkinson, P.N.	Caltech Jodrell Bank Caltech Jodrell Bank NFRA Caltech Leiden Jodrell Bank Caltech Caltech JIVE Jodrell Bank Jodrell Bank	CLASS - Cosmic Lens All Sky Survey	3.6	2	39.0
AM501	Morganti, R. Killeen, N.E.B. Tadhunter, C. Clark, N.	Bologna ATNF Sheffield Sheffield	Powerful radiogalaxy PKS 2250-41	1.3, 2, 3.6, 6 w/BB053	16, 21	7.9
AM506	McMahon, R.G. Beeharry, G.	Cambridge Cambridge	Radio properties of radio quiet quasars at z>4	20 w/BB053	17	10.0
AM508	Menten, K. Reid, M.	CfA CfA	Molecular absorption in lens B0218+357	2 line	22	2.0
AN066	Navarro, J. Bailes, M. Bell, J.	NRAO-Socorro ATNF Mt. Stromlo	Accurate positions for three millisecond pulsars	20 HTRP	1	1.0
AR344	Rucinski, S.	York	Close binary ER Vul:a multi-wavelength campaign	3.6	23, 26	26.1
AS516	Shaver, P. Wall, J. Kellermann, K.	ESO-Garching RGO NRAO-CV	Accurate positions of unidentified flat-spectrum parkes sources	3.6	8, 23	2.5

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS559	Steffen, W. Holloway, A. Pedlar, A. Dyson, J.E. Meaburn, J. Axon, D.	Manchester Manchester Jodrell Bank Manchester Manchester STScI	Radio outflow in Seyfert galaxy IRAS 0421+040P06	3.6, 20	1	4.0
AS567	Sramek, R. Weiler, K. Van Dyk, S. Panagia, N.	NRAO-Socorro NRL Calif.-Berkeley STScI	A revisit to possible radio supernovae	3.6	15, 22	10.0
AS572	Saikia, D.J.	NCRA-Pune	Mildly active galaxies with nuclear radio rings and spirals	2, 3.6, 6	26	3.0
AS573	Saikia, D.J. Jayakumar, S. Thomasson, P.	NCRA-Pune NCRA-Pune Jodrell Bank	Three highly distorted compact steep-spectrum radio galaxies	2, 3.6, 6	22, 24	5.0
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	7	12.0
AW362	White, S.	Maryland	The stellar activity cycle on active stars	3.6, 6, 20	22, 23	3.5
AW418	van der Werf, P.P.	Leiden	The starburst nucleus in M83	6	30	5.0
AW424	Winnberg, A. Engels, D.	Onsala Hamburg Obs	Water maser flare in RX Boo	1.3	5	1.5
BA013	Aaron, S. Wardle, J. Roberts, D.	Brandeis Brandeis Brandeis	Quest for Helical Jets	20	11	2.5
BB043	Beasley, A.J. Bastian, T.S. Niell, A.	NRAO-Socorro NRAO-Socorro Haystack	High-frequency VLBA observations of AE Aqr	1.3	8	2.0
BB047	Baudry, A. Diamond, P.J.	Bordeaux NRAO-Socorro	Mapping a new OH maser line with the VLBA	2	15	1.5
BB050	Blundell, K. Lacy, M.	Oxford Oxford	PC-Scale jets and core of the radio-quiet quasar E 1821+643	3.6, 6 Phased array VLBI	14	8.5
BB051	Barsony, M. Lonsdale, C. Phillips, R.	Calif.-Riverside Haystack Haystack	Protostellar outflow source L1551/IRS5	20	27	1.5
BB053	Bower, G.C. Backer, D. Wright, M.	Calif.-Berkeley Calif.-Berkeley Calif.-Berkeley	Dramatic flare in the extremely flat-spectrum QSO NRAO 530. w/BL025,AL353,AM501,AM506,AD369	0.7, 1.3, 3.6 Single Antenna VLBI	16, 17	16.2
BC044	Conway, J. Wrobel, J. Carilli, C. Blanco, P.	JIVE-Onsala NRAO-Socorro Cfa Calif.-San Diego	H I absorption toward the nucleus of Cygnus A	20	1	4.5
BC049	Cawthorne, T. Hutchison, J.	Lancashire Lancashire	Polarization sensitive observations of 4C71.07	3.6, 6	22	2.0
BD026	Diamond, P.J. Kemball, A.J. Goss, M. Taylor, G.B.	NRAO-Socorro NRAO-Socorro NRAO-Socorro Caltech	Mapping the small scale structure of the interstellar H I	20 Phased array VLBI	10	12.0
BG015	Greenhill, L. Diamond, P. Gwinn, C. Moran, J.	Cfa NRAO-Socorro Calif.-Santa Barbara Cfa	Tracing the dynamics of a protoplanetary disk	0.7 Single antenna VLBI w/Move/Op, AA187, AB705, BG015	9	7.9
BL023	Lazio, T.J.W. Cordes, J.M. Frail, D.A.	Cornell Cornell NRAO-Socorro	Compact sources toward the galactic center	1.3, 3.6 Phased array VLBI	22	8.0
BL025	Lazio, T.J.W. Cordes, J.M.	Cornell Cornell	Compact doubles and AU scales in the neutral interstellar medium	20 w/BB053	16, 22	5.0
BL030	Lonsdale, C.J. Barthel, P.D.	Haystack Kapteyn	Resolving the interaction edge of 3C205 south	6 Phased array VLBI	8	19.0
BS027	Sivagnanam, P. Diamond, P.J. Etoka, S.	Meudon NRAO-Socorro Meudon	Anomalous structures and kinematics of OH circumstellar shells	20 Phased array VLBI	12	6.0
BV017	Venturi, T. Cotton, W.D. Feretti, L. Giovannini, G. Lara, L. Marcaide, J.M.	Bologna NRAO-CV Bologna Bologna Bologna Valencia	Proper Motion monitoring in two FRI radio galaxies	3.6, 6, 20 Phased array VLBI	11	12.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
	Staff	NRAO	Maintenance			45.1
			Operations			44.7
			Move/Operations			22.5
			Software			29.6
			General Tests			30.9

The average downtime for the month of September 1995 was approximately 3.9%.  
 The array was scheduled 100.0% (722.0 hours) of the time:  
 76.1% (549.7 hours) to astronomical programs  
 13.5% ( 97.7 hours) to scheduled test calibration  
 10.3% ( 74.7 hours) to scheduled maintenance

The array was in:  
 A configuration from September 1 through September 5  
 BnA configuration from September 5 through September 30

Total number of programs for September 1995 was 68

The following independent proposals shared simultaneous observing time (24.1 hours):

Projects	Hours
AA187/BG015	4.0
AB705/BG015	2.5
AD369/BB053	2.9
AG448/BG015	0.4
AM501/BB053	0.5
AM506/BB053	5.1
BL125/BB053	2.6
Move/Op/BG015	1.0
AL353/BB053	5.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA187	Akujor, C.E. Garrington, S.T.	MPIFR Jodrell Bank	Polarization observations of compact steep spectrum sources at 22GHz	1.3	29	4.0
AA188	Anglada, G. Estallella, R. Villuendas, E. Rodriguez, L.F. Girart, J.M. Torrelles, J.M.	Barcelona Barcelona Barcelona UNAM CfA IAA	Imaging of thermal jets in low luminosity molecular outflow sources	3.6	11	17.0
AA189	Acord, J. Hofner, P. Afflerbach, A. Churchwell, E. Walmsley, C.M.	MPIFR Cologne Wisconsin Wisconsin Cologne	Water masers in UC HII regions: disks or outflows	1.3 w/bm008	2	5.5
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, 18	2.5
AB746	Birkinshaw, M. Worrall, D.M.	CfA CfA	HI absorption line feature in NGC 6251	20	15	4.5
AB748	Braatz, J.A. Wilson, A.	Maryland STScI	Mapping of H2O megamasers in active galaxies	1.3	25	8.0
AB759	Browne, I.W.A. Wilkinson, P.N. Sykes, C.M.	Jodrell Bank Jodrell Bank Jodrell Bank	Ring and halo in the gravitational lens B0218+357	6, 20	8, 24	8.0
AC424	Callcut, J. Winfrey, S. Wootten, A.	Michigan State Michigan NRAO-CV	Determining characteristics of S106FIR using water masers	1.3 line w/BW017	17	2.0
AC430	Chambers, K.C.	Hawaii	6C radio sources suitable for study with adaptive optics	3.6	26, 27	24.0
AC432	Capetti, A. Axon, D. Macchetto, D. Pedlar, A.	STScI STScI STScI Jodrell Bank	Radio outflow in Seyfert galaxies	2	19	12.0
AC440	Claussen, M.J. Hofner, P.	NRAO-Socorro Cologne	Search for non-thermal continuum emission from hot molecular outflow	20	27	3.0
AC442	Conner, S.R. Garnavich, P. Turner, E.L. Schechter, P.L. Burke, B.F.	MIT CfA Princeton CfA MIT	New gravitational lens candidates from the MIT-Green Bank-VLA survey	2, 3.6, 6 w/B017	12, 17	9.0
AD361	Dahlem, M. Dettmar, R.-J. Golla, G.	STScI Bochum Toronto	Search for radio knots in NGC 891	6	25	8.0
AD364	DePree, C. Cecil, G. Greenhill, L. Moran, J.	UNC/NRAO-Socorro North Carolina CfA CfA	High resolution continuum imaging of the large scale jet in NGC 4258	20	28	6.0
AD365	Duric, N. Perley, R. Kassim, N.	New Mexico NRAO-Socorro NRL	75 MHz observations of galactic supernova remnant W49B	90, 400	20	8.5
AD372	De Pree, C.	UNC/NRAO-Socorro	Variable source in NGC 6951	6, 20	30	1.5
ADHOC1	Bastian, T.	NRAO-Socorro	Ad Hoc Proposal		3	0.5
ADHOC2	Hjellming, R.	NRAO-Socorro	Ad Hoc Proposal		25	1.0
AF294	Frail, D.A. Kulkarni, S.R. Vasisht, G.	NRAO-Socorro Caltech Caltech	The soft gamma ray repeater SGR 1806-20	3.6, 6	1	2.1
AF295	Fomalont, E. Goss, M.	NRAO-CV NRAO-Socorro	Finding list of background sources for pulsar astrometry	90	8, 16	6.0
AG415	Gomez, Y. Rodriguez, L. Moran, J.	UNAM UNAM CfA	Angular expansion of compact planetary nebulae	3.6	21, 24	20.5
AG421	Gaume, R.A. Fischer, J.	USNO NRL	Monitoring the radio continuum flux density of NGC 2024-IRS2	1.3, 2, 3.6, 6, 20 w/BW017	17	3.0
AG453	Gaume, R. Martin-Pintado, J. Planesas, P. Goss, M.	USNO Yebe Yebe NRAO-Socorro	Radio continuum spectral index of NGC 7538 IRS 1	0.7, 1.3, 2, 3.6, 6	25	6.0
AG456	Gregg, M. Becker, R.	Lawrence Livermore Calif.-Davis	Radio haloes around late-type stars	6	12	3.5
AG461	Gomez, Y. Rodriguez, L.F.	UNAM UNAM	Water maser emission in selected OH/IR stars	1.3 line	18, 23	5.7

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AG462	Gallimore, J.F. Baum, S.A. Claussen, M.	Maryland STScI NRAO-Socorro	Enigmatic H2O Masers in the Hidden Seyfert 1 nucleus of NGC 1068	1.3 line	4	7.0
AH492	Hjellming, R. Gehrz, R. Sequist, E. Taylor, A.	NRAO-Socorro Minnesota Toronto Calgary	Image and light curve evolution of Novae Puppis 1991 and Signi 1992	2,1.3	14, 16	1.5
AH528	Harvanek, M. Stocke, J.T. Ellingson, E.	Colorado Colorado Colorado	Morphology of 3CR radio galaxies at z=0.15-0.65	20	11	5.0
AH546	Harper, G.M. Brown, A. Hummel, C. Walder, R.	Colorado Colorado USNO ETH	Search for radio emission from eclipsing binary Zeta Aurigae	3.6	20	4.0
AH549	Hughes, V. McLeod, G.C.	Queens Hartebeesthoek	Search for time dependent sources in star forming regions	6	4	2.0
AH551	Ho, L.C. Van Dyk, S.D.	Calif.-Berkeley Calif.-Berkeley	Survey of nearby galactic nuclei	6	1	2.5
AH552	Hewitt, J.N. Langston, G.I. Burke, B.F. Trotter, C.S.	MIT NRAO-CV MIT MIT	Completion of a flux-limited sample of the MG survey	6	25, 26, 28	7.5
AH554	Holdaway, M. Kobulnicky, C.	NRAO-Socorro Minnesota	Flat spectrum extragalactic sources behind the plane	1.3, 3.6	30	4.0
A1057	Ivison, R.J. Sequist, E.R.	Royal Edinburgh Toronto	Second-epoch imaging of RX Puppis during a phase of low excitation	3.6	31	4.0
AJ245	Johnston, H.M. Strom, R.G. Verbunt, F.	Utrecht NFRA Utrecht	An X-ray knot expelled by the Vela supernova	20 line	29	4.5
AJ246	Jura, M. Turner, J. Ghez, A.	UCLA UCLA UCLA	HR 4796B: a nearby pre-main sequence star	3.6	7	1.5
AJ248	Johnston, K. De Vegt, C. Florkowski, D.	USNO Hamburg USNO	Radio positions and proper motions of optically bright stars	6	1, 27	16.5
AK376	Kulkarni, S.R. Frail, D.A.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters		8, 29	2.0
AK401	Kobulnicky, C. Dickey, J.M. Holdaway, M.	Minnesota Minnesota NRAO-Socorro	Molecular absorption survey toward scatter-broadened radio sources	2, 3.6, 20 line	1	10.0
AK405	Kraemer, K.E. Jackson, J.M. Ho, P.T.P. Zhang, Q. Davis, C.J.	Boston Boston CfA CfA MPIfR	Search for shock-excited NH <sub>3</sub> (3,3) masers in outflow sources	1.3 line	15	8.0
AK409	Kenny, H.T. Taylor, A.R. Eyes, S.P.S. Ivison, R.J. Sequist, E.R. Davis, R.J.	Canadian Military Calgary Jodrell Bank Royal Edinburgh Toronto Jodrell Bank	CH Cygni: Stellar Jet Imaging	1.3, 3.6, 20	19	4.0
AK410	Knopp, G. Chambers, K.C.	Hawaii Hawaii	High redshift radiogalaxies - morphology and polarization	3.6, 20	31	8.0
AK413	Kassim, N.E. Perley, R. Erickson, W.C.	NRL NRAO-Socorro Maryland	74 MHz observations of strong sources - large angular size objects	90, 400	5	23.5
AK414	Kronberg, P.P. Allen, M.L.	Toronto Toronto	High resolution radio spectral index studies of the nucleus of M82	3.6	20	8.0
AL355	Lacy, M. Rawlings, S. Blundell, K.	Oxford Oxford Oxford	A new Einstein ring: 6C 0551+587	3.6, 6	15	6.0
AL357	Lehar, J. Kochanek, C.S.	CfA CfA	Gravitationally lensed radio source MG0751+2716	2, 3.6	18	12.0
AM474	Marvel, K. Diamond, P.	NMSU/NRAO-Socorro NRAO-Socorro	Monitoring masers in AGB stars	0.7, 1.3, 20 line	19, 23	2.0
AM482	Mirabel, F. Rodriguez, L.F.	Saclay UNAM	Monitoring the superluminal source GRS1915+105	3.6	9, 17, 24	5.7



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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AM484	Myers, S.T. Jackson, N.J. Blandford, R.D. Browne, I.W.A. de Bruyn, A.G. Fassnacht, C.D. Miley, G.K. Nair, S. Pearson, T.J. Readhead, A.C.S. Schilizzi, R.T. Sykes, C. Wilkinson, P.N.	Caltech Jodrell Bank Caltech Jodrell Bank NFRA Caltech Leiden Jodrell Bank Caltech Caltech JIVE Jodrell Bank Jodrell Bank	CLASS - Cosmic Lens All Sky Survey	3.6	13,14,18,28,29	62.0
AM486	Martin-Pintado, J. Gaume, R. Johnston, K.	Yebes USNO USNO	The CRL 618 molecular outflow	1.3 line	3, 10	18.0
AM494	Menten, K.M. Reid, M.J.	Cfa Cfa	Wide field observations of the compact radio sources in Orion Nebula	1.3, 3.6	24	10.0
AM495	Menten, K.M. Reid, M.J.	Cfa Cfa	Using H2O Masers around the galactic center as astrometry tools	1.3	10	5.6
AM497	Migenes, V. Bowers, P.F. Cohen, R.J. Shepherd, M.C. Ludke, E.	ATNF NRL Jodrell Bank Caltech Santa Maria	High dynamic range maps of OH maser shells	20	3	6.0
AN066	Navarro, J. Bailes, M. Bell, J.	NRAO-Socorro ATNF Mt. Stromlo	Accurate positions for three millisecond pulsars	20 HTRP	12, 15, 26	5.5
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	1	2.5
AP296	Preston, R.A. Folkner, W.M.	JPL JPL	Earth based observation of Galileo probe for jupiter wind estimation	3.6	25, 29	2.6
AP315	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	24.0
AP319	dePater, I.	Calif-Berkeley	Jupiter Patrol: Aftermath of Comet-Jupiter Crash	20, 90	7, 8	12.6
AP320	dePater, I. Dickel, J.R.	Calif-Berkeley Illinois	Saturn's atmosphere during ring plane crossing	6, 20	12	10.0
AP322	Patel, N.A. Zhang, Q. Ho, P.T.P. Goldsmith, P.F.	Cfa Cfa Cfa Arecibo	Water maser emission from IC1396E	1.3 line	26	1.5
AR335	Rawlings, S. Lacy, M. Blundell, K. Serjeant, S.	Oxford Oxford Oxfordd Oxford	Probing quasar environments with the HST and the VLA	1.3,6,3.5	2	1.0
AR342	Ratner, M.I. Bartel, N. Lebach, D.E. Lestrade, J.-F. Shapiro, I.I.	Cfa York Cfa Paris/JPL Cfa	Survey of radio sources near candidate guide stars for GP-B	3.6 w/BW017	17	2.0
AS561	Stockton, A. Ridgeway, S.E.	Hawaii Hawaii	Radio-optical survey of a complete z ~ 1 3CR sample of galaxies	3.6, 20	21	9.2
AS562	Stocke, J. Rector, T. Perlman, E.	Colorado Colorado NASA-GSFC	High dynamic range mapping of 1 Jy BL Lac objects	20	4	18.0
AT176	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 HTRP	28, 29	12.5
AT183	Tyson, A. Stocke, J. Harvanek, M. Rhee, G.	Bell Labs Colorado Colorado Nevada	Deep VLA imaging of 0957+561	3.6, 20	4	9.0
AW362	White, S.	Maryland	The stellar activity cycle on active stars	3.6, 6, 20	26	2.0
AW411	Warner, P.J. Minns, A.R. Riley, J.M.	MRAO MRAO MRAO	The structures and spectra of a homogeneous sample of radio sources	3.6, 20, 90	11	13.0

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Progrm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BC044	Conway, J. Wrobel, J. Carilli, C. Blanco, P.	JIVE-Onsala NRAO-Socorro Cfa Calif.-San Diego	HI absorption toward the nucleus of Cygnus A	20	31	7.5
BD026	Diamond, P.J. Kemball, A.J. Goss, M. Taylor, G.B.	NRAO-Socorro NRAO-Socorro NRAO-Socorro Caltech	Mapping the small scale structure of the interstellar HI	20	18	12.0
BG030	Gabuzda, D.C. Cawthorne, T.V.	ASC Lebedev Lancashire	Linear polarization of BL lacertae objects at 1.3cm	1.3	1	1.5
BM008	Migenes, V. Bowers, P.F. Cohen, R.J. Sheperd, M.C.	ATNF NRL Jodrell Bank NRAL (Manchester)	OH maser shells	20 Single antenna VLBI w/AA189	2	5.1
BW017	Browne, I. Nair, S. Wilkinson, P.	Jodrell Bank Jodrell Bank NRAO-Socorro/NRAL	Lens 0218+357 w/AC424,AM482,AR342,AC442,AG421	90,20,13, Single antenna VLBI	17	10.0
GR010	Rupen, M.P. Bartel, N. Conway, J. Beasley, A.J. Sramek, R. Romney, J. Bietenholz, M. Weiler, K. van Dyk, S. Panagia, N. Titus, M. Cannon, W. Popelar, J. Graham, D. Venturi, T. Umana, G. Davis, R. Rius, A. Altunin, V. Jones, D.	NRAO-Socorro York JIVE-Onsala NRAO-Socorro NRAO-Socorro NRAO-Socorro York NRL NRL STScI Haystack York Ottawa MPIFR Bologna Noto Jodrell Bank Barcelona JPL JPL	VLBI imaging of supernova 1993J in M81	3.6, 6, 20 Phased array VLBI	17	15.2
	Staff	NRAO	Maintenance Operations Software Standard Field Observation General tests			54.0 51.8 32.5 6.0 17.6

The average downtime for the month of August 1995 was approximately 5.1%.

The array was scheduled 100.0% (746.1 hours) of the time:

78.3% (584.2 hours) to astronomical programs  
10.1% ( 75.4 hours) to scheduled test calibration  
11.6% ( 86.5 hours) to scheduled maintenance

The array was in:

A configuration from August 1 through August 31

Total number of programs for July 1995 was 73

The following independent proposals shared simultaneous observing time (15.1 hours):

Projects	Hours
AA189/BM008	5.1
AC424/BW017	2.0
AC442/BW017	3.0
AG421/BW017	1.5
AM482/BW017	1.5
AR342/BW017	2.0

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	8, 20, 30	6.0
AB740	Baum, S.A. Colbert, E. O'Dea, C. Pedlar, A.	STScI Maryland STScI Jodrell Bank	Three archetypical Seyferts: MKN 6, NGC 3079, MKN 231	6, 20 w/BB042	3, 21	25.0
AB751	Butler, B. Muhleman, D. Slade, M.	NRAO-Socorro Caltech JPL	Goldstone/VLA radar imaging of Mercury	3.6	3	8.0
AB755	van Breugel, W. Day, A. Dickinson, M. Spinrad, H.	Lawrence Livermore LLNL STScI Calif.-Berkeley	Deep VLA imaging of two z~1 Radio galaxies	3.6, 6	11	8.0
AB760	Browne, I.W.A. Wilkinson, P.N. Sykes, C.M. Muxlow, T.W.B. Jackson, N.J. Myers, S.T. Fassnacht, C.D. Readhead, A.C.S. Pearson, T.J. de Bruyn, A.G. Shellen, I.A.G.	Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Caltech Caltech Caltech Caltech NFRA Leiden	Deep imaging of the new quadruple lensed system 1608+656	1.3, 2, 3.6, 6, 20 w/BF014	5	8.0
AB761	Burke, B. Ekers, R. Wright, A. Fletcher, A. Conner, S. Griffith, M.	MIT ATNF ATNF MIT MIT ATNF	PMN-VLA snapshot survey	3.6, 6	8	16.0
AB762	Barnbaum, C. Morris, M.	NRAO-CV Calif.-Los Angeles	Circumstellar OH Maser of extraordinary star, U Ecu	20 line	2	5.5
AC420	Carilli, C. Rottgering, H. Best, P. Owen, F.	CfA Cambridge Cambridge NRAO-Socorro	Two classic alignment effect' high z radiogalaxies	3.6, 6, 20	30	8.0
AC427	Crane, P.C. Cowan, J.J. Primini, F.A. Roberts, D.A. Dickel, J.R.	Interferometrics Oklahoma CfA Illinois Illinois	Variability of the nuclear source in M31	3.6	17, 18	17.0
AC429	Cowan, J. Branch, D.	Oklahoma Oklahoma	Search for extragalactic intermediate age supernovae	20	8, 14	16.0
AC434	Curiel, S. Rodriguez, L.F. Moran, J. Canto, J.	CfA UNAM CfA UNAM	Radio monitoring of the Serpens radio jet	2, 3.6, 6	12	6.0
AC435	Curiel, S. Rodriguez, L.F. Pedlar, A. Canto, J.	CfA UNAM Jodrell Bank UNAM	On the nature of the double radio source associated with L1551 IRS5	2, 3.6	28	6.0
AC437	Curiel, S. Eiroa, C. Canto, J.	CfA Madrid UNAM	Circumstellar disk structures around very YSOs	0.7, 1.3, 3.6	18, 19	10.0
AC438	Carilli, C. Perlman, E. Stocke, J. van Langevelde, H.	CfA NASA-GSFC Colorado JIVE-Socorro	Search for OH absorption in PKS 1413+135, a galaxy at z=0.25	20 line	1	2.1
AC441	Cotton, B. Swain, M. Bridle, A. Kassim, N.	NRAO-CV Rochester NRAO-CV NRL	J2146+82-Large radio galaxy with misaligned outbursts?	3.6, 6	8	2.0
AD363	Dressel, L. Jones, D.	ARC-GSFC JPL	Compact radio sources associated with nuclear emission line regions	20	10	1.0
ADHOC1	Becker, R.	IRAM	AdHoc Proposal		20	1.6
ADHOC2	van Langevelde, H.	NRAO-Socorro	AdHoc Proposal		21	0.5
AE104	Erickson, W.C. Perley, R. Kassim, N.E. Jacobsen, A.R.	Maryland NRAO-Socorro NRL LANL	Improving ionospheric models for low frequency VLA observations	90, 400 w/BD021	1	24.5

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AF292	Fruchter, A.S. Thorsett, S.E. Goss, W.M.	STScI Princeton NRAO-Socorro	Pulsar proper motions	20 HTRP	10	24.0
AF294	Frail, D.A. Kulkarni, S.R. Vasisht, G.	NRAO-Socorro Caltech Caltech	The soft gamma ray repeater SGR 1806-20	3.6, 6	31	4.0
AG448	Greenhill, L.J. Henkel, C.	CfA MPIfR	Monitoring the acceleration of water megamaser features in NGC 4258	1.3 line	29	4.5
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	20 w/BG043	22	9.0
AG450	Green, D.A. Cowan, J.J.	MRAO Oklahoma	Search for young galactic SNRs: a follow up	20	25	6.0
AG454	van Gorkom, J. Baum, S.	Columbia STScI	HI absorption in elliptical radiogalaxies	20 line	23	24.0
AG457	Girart, J.M. Curiel, S. Rodriguez, L.F.	CfA CfA UNAM	The exciting sources of HH objects	3.6 w/BC043	7	6.0
AG461	Gomez, Y. Rodriguez, L.F.	UNAM UNAM	Water maser emission in selected OH/IR stars	1.3 line	17	2.0
AG462	Gallimore, J.F. Baum, S.A. Claussen, M.	Maryland STScI NRAO-Socorro	Enigmatic H2O Masers in the Hidden Seyfert 1 nucleus of NGC 1068	1.3 line	31	7.0
AG464	Gothaskar, P. Anantharamaiah, K.R. Rao, A.P.	NCRA Raman NCRA	Scattering in the solar wind	2, 3.6, 6, 20, 90 HTRP	30, 31	7.0
AG466	Golla, G. Kronberg, P.P.	Toronto Toronto	Supernova remnants in NGC 4631	3.6, 6	28	10.0
AH492	Hjellming, R. Gehrz, R. Seaquist, E. Taylor, A.	NRAO-Socorro Minnesota Toronto Calgary/NRAO	Image and light curve evolution of radio novae	1.3, 2, 3.6, 6, 20	4	1.5
AJ249	Johnston, K. De Vegt, C. Gaume, R. Fey, A.	USNO Hamburg USNO USNO	Radio emission of the T Tau system	0.7, 1.3, 2, 3.6, 6, 20	14	8.0
AK376	Kulkarni, S.R. Frail, D.A.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters	20	24	2.6
AK394	Kukula, M.J. Pedlar, A. Hamilton, N. Baum, S.A. O'Dea, C.P.	John Moores Jodrell Bank Jodrell Bank STScI STScI	Seyferts from the 12-micron galaxy sample	3.6	15	30.0
AK403	deKoff, S. Biretta, J. Baum, S. Sparks, W. Miley, G. Macchetto, D.	STScI STScI STScI STScI Leiden STScI	HST/VLA snap-shot survey of 3CR radio galaxies	2, 3.6	26	16.1
AK404	King, L.J. Browne, I.W.A. Patnaik, A.R. Wilkinson, P.N.	Oxford Jodrell Bank MPIfR Jodrell Bank	1938+666: an intriguing gravitationally lensed source	2	6	1.0
AK406	Kukula, M.J. Dunlop, J.S. Rawlings, S. Hughes, D. Taylor, G.L.	John Moores John Moores Oxford Oxford John Moores	Radio properties of radio-quiet quasars-AGN or starburst?	3.6, 6 w/Move/Op	20	6.0
AK407	Kukula, M.J. Pedlar, A. Holloway, A. Meaburn, J. Baum, S.A.	John Moores Jodrell Bank Manchester Manchester STScI	Unusual shells in the Seyfert galaxy Markarian 6.	3.6, 20	20	4.0
AK409	Kenny, H.T. Taylor, A.R. Eyres, S.P.S. Iverson, R.J. Seaquist, E.R. Davis, R.J.	Canadian Military Calgary/NRAO Jodrell Bank Royal Edinburgh Toronto Jodrell Bank	CH Cygni: Stellar Jet Imaging	1.3, 3.6, 20	16	4.0
AK411	Kassim, N.E. Reynolds, S.P. Moffett, D.A.	NRL North Carolina St. MNIMT	330 MHz observations of bright supernova remnants	90	27	12.5

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AM474	Marvel, K. Diamond, P.	NMSU/NRAO-Socorro NRAO-Socorro	Monitoring masers in AGB stars	0.7, 1.3, 20 line	8, 10, 20, 24	4.0
AM480	Miranda, L.F. Torrelles, J.M. Eiroa, C.	Madrid IAA-Granada Madrid	Spatio-kinematical structure of compact very young PNs	3.6 line w/BC043	6	9.0
AM482	Mirabel, F. Rodriguez, L.F.	Saclay UNAM	Monitoring the superluminal source GRS1915+105	3.6 w/BD021, BB042	1, 14, 21, 31	8.0
AM483	Miralles, M.P. Ho, P.	FCRAO CfA	UC HII region IRAS 18057+0121	3.6	17	1.0
AM487	Masson, C. Kawamura, J.	CfA CfA	Expansion of compact HII regions	2, 3.6 w/BD021	1	8.0
AM488	Martin-Pintado, J. Gaume, R. Planesas, P. Johnston, K. Thum, C.	YebeS USNO YebeS USNO IRAM	Neutral circumstellar disk in MWC 349	20 line w/BG043	21	10.0
AM490	Muxlow, T.W.B. Pedlar, A. Wilkinson, P.N. Axon, D.J.	Jodrell Bank Jodrell Bank Jodrell Bank STScI	Combined 5GHz VLA-MERLIN image of starburst activity in M82	6	5	4.0
AM492	Moran, E. van Bruegel, W.	Lawrence Livermore Lawrence Livermore	Peculiar IRAS galaxies of unusual x-ray brightness	6, 20	10, 12, 13	12.6
AM494	Menten, K.M. Reid, M.J.	CfA CfA	Wide field observations of the compact radio sources in Orion Nebula	1.3, 3.6 w/BG043	22	10.0
AM496	Marscher, A.P. Moore, E.M. Bania, T.M.	Boston Boston Boston	Variable molecular absorption toward extragalactic continuum sources	6 line	28	12.0
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	2, 30	7.5
AP302	Pooley, G.G. Hardcastle, M.J. Alexander, P. Riley, J.M.	MRAO MRAO MRAO MRAO	Jets in nearby FRI radio galaxies	3.6, 20	23, 24	10.6
AP322	Patel, N.A. Zhang, Q. Ho, P.T.P. Goldsmith, P.F.	CfA CfA CfA Arecibo	Water maser emission from IC1396E	1.3 line	6	1.5
AR334	Roser, H.-J. 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, 18	9	12.0
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	29, 31	10.5
AR338	Reipurth, B. Marti, J. Rodriguez, L.F.	ESO Barcelona UNAM	High velocity proper motions in the HH 80-81 thermal radio jet	3.6	14	4.0
AR339	Rawlings, S. Serjeant, S.	Oxford Oxford	Is FSC 10214+4724 gravitationally lensed?	3.6, 6	16, 17	24.0
AR341	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 W3OH	3.6	4	12.5
AR343	Rengelink, R.B. Bremer, M. Rottgering, H. Miley, G.	Leiden Leiden Cambridge Leiden	Finding the most distant galaxies from WENSS	20	29	16.5
AS564	Slysh, V.I. Kalenskii, S.V. Kanenskii, S.V. Valts, I.E. Dzura, A.M. Kogan, L.R.	Lebedev Lebedev Lebedev Lebedev NRAO-Socorro	Imaging of Class I methanol masers	0.7 line	13	6.0
AT165	Taylor, G. Readhead, A.C.S. Vermeulen, R. Pearson, T. Henstock, D. Wilkinson, P.	CalTech Caltech Caltech CalTech Jodrell Bank Jodrell Bank	Kiloparsec-scale structure of the second Caltech-Jodrell Bank survey	20	10	8.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AT181	Torrelles, J.M. Rodriguez, L.F. Ho, P.T.P. Gomez, J.F. Garay, G. Curiel, S.	IAA-Granada UNAM Cfa Boston Chile Cfa	The powerful thermal radio jet in Cep A HW 2	1.3	5	10.5
AT182	Thomson, B. Mackay, C. Wright, A.	Cambridge Cambridge ATNF	Polarization mapping of the jet of the quasar 3C273	6	4	8.0
AU062	Ulvestad, J.S. Antonucci, R.R.J.	JPL Calif.-Santa Barbara	Monitoring of compact sources in NGC 253	3.6, 6	8	7.0
AW416	Wiercigroch, A.B. Ulvestad, J.S.	JPL JPL	Compact radio sources in LINERS	3.6	13	10.0
AY069	Yusef-Zadeh, F. Roberts, D. Biretta, J.	Northwestern Illinois STScI	Proper motion of ionized gas at the galactic center	2, 6 w/Move	20	8.0
AZ072	Zhang, Q. Ho, P.T.P. Kraemer, K. Jackson, J.	Cfa Cfa Boston Boston	Ammonia masers associated with mass outflow in star-forming regions	1.3 line	7	3.0
BB042	Bondi, M. Junor, W. Mantovani, F.	Jodrell Bank New Mexico Bologna	Compact steep-spectrum sources with very high rotation measures w/BB042,AY069,AM482,BB042,AB740	3.6 Single antenna VLBI	20, 21	9.1
BC043	Conway, J.E. Venturi, T. Giovannini, G. Feretti, L. Beasley, A.J.	JIVE-Onsala Bologna Bologna Bologna NRAO-Socorro	HI Absorption observations of the nearby CSO 4C31.04	20 Single antenna VLBI w/AM480,AG457	7	11.9
BD021	Diamond, P.J. Kemball, A.J. Benson, J. Junor, W. Dhawan, V.	NRAO-Socorro NRAO-Socorro NRAO-Socorro New Mexico NRAO-Socorro	Monitoring stellar SiO Masers w/AC43B,AM482,Tests,AM487	0.7 Single antenna VLBI	1	17.6
BF014	Fix, J.D. Claussen, M.J.	Iowa NRAO-Socorro	Secular variations in the OH line profiles of U Her	20 Single antenna VLBI w/AB760	5	5.0
BG043	Giovannini, G. Cotton, W.D. Feretti, L. Lara, L. Marcaide, J. Venturi, T.	Bologna NRAO-CV Bologna IAA Valencia Bologna	VLBA observations of 6 low power compact radio galaxies w/AM488,AM494,Students,AG449	6, 20 Single antenna VLBI	22	24.2
BK033	Kollgaard, R.I. Gabuzda, D.C. Feigelson, E.D.	Penn State ASC Lebedev Penn State	The parsec-scale morphology of X-ray selected BL lacertae objects	6	18	4.0
	Staff	NRAO	Maintenance Move/Operations Operations Software Students General tests			45.3 5.3 42.5 26.5 4.0 23.1

The average downtime for the month of July 1995 was approximately 5.9%.  
 The array was scheduled 100.0% (746.1 hours) of the time:  
 80.8% (603.1 hours) to astronomical programs  
 9.5% ( 71.1 hours) to scheduled test calibration  
 9.6% ( 71.9 hours) to scheduled maintenance

The array was in:  
 A configuration from July 1 through July 31

Total number of programs for July 1995 was 72

The following independent proposals shared simultaneous observing time (70.7 hours):

Projects	Hours
AB705/Move/Op	2.0
AB740/BB042	1.7
AB760/BF014	5.0
AE104/BD021	3.0
AG449/BG043	7.9
AG457/BC043	5.7
AK406/Move/Op	1.2
AM480/BC043	6.2
AM482/BB042	2.0
AM482/BD021	2.1
AM482/BD021	2.0
AM487/BD021	8.0
AM488/BG043	5.3
AN494/BG043	10.0
AY069/BB042	3.4
AY069/Move/Op	2.1
BB042/BB042	1.0
Students/BG043	1.0
Tests/BD021	1.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB628	Becker, R. Helfand, D. Perley, R. White, R.	Calif., Davis Columbia NRAO-Socorro STScI	VLA 1400 MHz survey of northern sky: the pilot		23	1.0
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	23	2.0
AB740	Baum, S.A. Colbert, E. O'Dea, C. Pedlar, A.	STScI Maryland STScI Jodrell Bank	Three archetypical Seyferts: MKN 6, NGC 3079, MKN 231	6, 20 w/AG455	1	4.0
AB743	Bontemps, S. Andre, P. Ward-Thompson, D.	CEA-Saclay CEA-Saclay RO Edinburgh	Follow-up study of radio detected very young protostars	2, 3.6, 6 w/AG455	1	5.0
AB751	Butler, B. Muhleman, D. Slade, M.	NRAO-Socorro Caltech JPL	Goldstone/VLA radar imaging of Mercury	3.6	22	9.0
AB757	Bryce, M. Meaburn, J. Pedlar, A. Mellema, G.A.	Manchester Manchester Jodrell Bank Manchester	Combined 5GHz VLA-MERLIN observations of young planetary nebulae	6 w/BD021	30	3.0
AB758	Barnbaum, C. Palmer, P. Zuckerman, B.	NRAO-CV Chicago Calif.-Los Angeles	Ultra-cold molecular clouds in the outer galaxy?	20 line	18	22.0
AB761	Burke, B. Ekers, R. Wright, A. Fletcher, A. Conner, S. Griffith, M.	MIT ATNF ATNF MIT MIT ATNF	PMN-VLA snapshot survey	3.6, 6 w/Move/Op	9, 11, 16	33.0
AC408	Cox, A.L. Sparke, L.S. van Moorsel, G.	Wisconsin Wisconsin NRAO-Socorro	HI mapping of the polar-ring galaxies NGC 5122 & UGC 9562	20 line w/BV012	1	3.0
AC419	Carilli, C. van Ojik, R. Miley, G. Rottgering, H. Lacy, M. Bremer, M.	CfA Leiden Leiden Cambridge Oxford Leiden	Search for redshifted CO emission from z=4.253 radio galaxy	1.3 line w/BD021	5	7.9
AC438	Carilli, C. Perlman, E. Stoche, J. van Langevelde, H.J.	CfA NASA-GSFC Colorado JIVE-Socorro	Search for OH absorption in PKS 1413+135, a galaxy at z=0.25	20 line	30	8.0
AD359	DePree, C.G. Rodriguez, L.F. Goss, W.M.	UNC/NRAO-Socorro UNAM NRAO-Socorro	UC HII regions; photoevaporating disks or dense, warm, environment	1.3 line w/BV012	2	7.5
AD362	Davis, R.J. Eyres, S.P.S. Kenny, H.T. Bode, M.F. Dougherty, S.M. Lloyd, H.M. Cohen, R.J.	Jodrell Bank Jodrell Bank Canadian Military John Moores (UK) John Moores John Moores Jodrell Bank	Simultaneous VLA/MERLIN observations of symbiotic stars	6	27	3.0
AD363	Dressel, L. Jones, D. Staff	ARC-GSFC JPL NRAO	Compact radio sources associated with nuclear emission line regions AD HOC PROPOSAL	20	24 27	1.0 1.0
AF288	Frayer, D.T. Brown, R.L. VandenBout, P.A.	NRAO-CV NRAO-CV NRAO-CV	Search for starburst regions associated with damped LyA absorption	3.6	1	3.5
AF290	Foster, R.S. Wolszcan, A. Cadwell, B.J. Anderson, S.B.	NRL Penn. State Penn. State Penn. State	Astrometric measurements of two new millisecond pulsars	20	24	4.0
AF293	Falco, E. Lehar, J. Wambsganss, J. Perley, R.	CfA CfA Potsdam NRAO-Socorro	Gravitationally lensed QSO 2237+0305	3.6	25	12.0
AG448	Greenhill, L.J. Henkel, C.	CfA MPIfR	Monitoring the acceleration of water megamaser features in NGC 4258	1.3 line	8	5.0



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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AG455	Gurvits, L.I. Rioja, M.J. Schilizzi, R.T. Butcher, H.R. Foley, A.R. Fomalont, E.B. Claussen, M.J. Sasao, T. Asaki, Y.	JIVE JIVE JIVE NFRA NFRA NRAO-CV NRAO-Socorro Mizusawa Mizusawa	Cluster-cluster VLA and WSRT VLBI test observations	VLBI BB040, AW399	1, 2, 4 AU058, AS547	8.0 AP308
AG458	Guedel, M. Benz, A.O. Guinan, E.F. Schmitt, J.H.M.	Scherrer ETH Villanova MPE	Two remarkably active, late f-type stars with widely different ages	3.6	5, 6	4.5
AG461	Gomez, Y. Rodriguez, L.F.	UNAM UNAM	Water maser emission in selected OH/IR stars	1.3 line	25	2.0
AG467	Greenhill, L.	CfA	Confirmation of a possible water maser in an IRAS galaxy	1.3	24	1.0
AH549	Hughes, V.A. MacLeod, G.C.	Queens Hartebeesthoek	Search for time-dependent sources in star-forming regions	6	26	3.0
AH551	Ho, L.C. Van Dyk, S.D.	Calif.-Berkeley Calif.-Berkeley	Survey of nearby galactic nuclei	3.6, 6	22	5.5
AH555	Ho, P.	CfA	Centimetric observations of mm objects studied at BIMA	0.7, 1.3 w/BB040	11, 25	2.0
AI058	Iverson, R.J. Hall, P.J. Yates, J.A.	Royal Edinburgh ATNF Bristol	Water maser emission from R Aquarii	1.3 line	8	4.0
AJ244	Jaffe, W. Ford, H.	Leiden Johns Hopkins	Search for water megamasers in radio galaxies	1.3 line	9	4.0
AJ246	Jura, M. Turner, J. Ghez, A.	UCLA UCLA UCLA	HR 4796B: a nearby pre-main sequence star	3.6	16	3.0
AJ248	Johnston, K. De Vegt, C. Florkowski, D.	USNO Hamburg USNO	Radio positions and proper motions of optically bright stars	6 w/BB040	10, 12, 19	56.5
AK372	Knapp, G.R.	Princeton	Continuum observations of evolved stars	2, 3.6, 6	5	8.0
AK376	Kulkarni, S.R. Frail, D.A.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters	w/BB040	11	5.0
AK390	Kantharia, N.G. Anantharamaiah, K.R. Dwarakanath, K.S. Payne, H.E. Erickson, W.C.	Raman Raman Raman STScI Maryland	Carbon and hydrogen recombination lines at 330 MHz	90 line	2	7.0
AK400	Kobulnicky, C. Vacca, W. Hogg, D.	Minnesota Hawaii NRAO-CV	A starburst core and probable radio supernova in Henize 2-10	3.6, 6 w/BD021	30	3.5
AK408	Kollgaard, R.I. Bade, N. Brinkman, W. Reimers, D. Laurent-Muehleisen, Nass, P.	Penn State Hamburg MPE Hamburg Penn State Hamburg	Optically faint objects in an X-ray flux limited sample	6 w/BB040, Move/Op, BB040	11	11.5
AL324	Laine, S. Gottesman, S.T.	Florida Florida	High resolution study of gas dynamics of NGC 7479	20 w/BT010	4	6.0
AL346	Leone, F. Umana, G. Trigilio, C.	Catania Noto Noto	Millimeter observations of magnetic chemically peculiar stars	0.7 w/Move/Op	13	6.5
AL352	Liszt, H. Lucas, R.	NRAO-CV IRAM	HC3N and OH absorption toward extragalactic continuum sources	0.7, 20 line	15, 16	18.0
AM474	Marvel, K. Diamond, P.J.	NMSU/NRAO-Socorro NRAO-Socorro	Monitoring masers in AGB stars	0.7, 1.3, 20 line w/BT010, BV012	3, 4, 19, 20	4.5
AM479	Morrison, G. Owen, F.N.	New Mexico NRAO-Socorro	20 cm imaging of very rich abell clusters	20	25	10.0
AM481	Mirabel, F. Chaty, S. Rodriguez, L.F. Marti, J.	Saclay Saclay UNAM Barcelona	Hard X-ray sources in the galactic bulge	6	18	5.0
AM482	Mirabel, F. Rodriguez, L.F.	Saclay UNAM	Monitoring the superluminal source GRS1915+105	3.6	19	2.0
AM487	Masson, C. Kawamura, J.	CfA CfA	Expansion of compact HII regions	2, 3.6	25, 30	16.0
AM493	Menten, K.M. Megeath, S.T. Reid, M.J.	CfA MPIFR CfA	Radio source population(s) of the NGC 6334-I star forming region	3.6	26	5.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AM498	Menten, K.	CfA	OH maser in VY CMa		15	1.5
AO122	Owen, F.N. 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	24	6.0
AO123	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	20	28	17.0
AP303	Patterson, J. Fang, Y. Caillaud, J.-P.	Columbia Columbia Georgia	Radio light curves of V471 Tauri	3.6, 6	6, 8	14.5
AP308	Paredes, J.M. Jordi, C. Marti, J. Rodriguez, L.F.	Barcelona Barcelona Barcelona UNAM	A jet from a main sequence star	3.6 w/AG455	4	2.0
AP316	Palmer, P. Ostro, S.J. Hudson, S. Yeomans, D.K. de Pater, I. Snyder, L.E.	Chicago JPL Washington JPL Calif.-Berkeley Illinois	Radar astronomy of the near earth asteroid 1991JX	3.6 line	7, 12, 14	12.0
AP319	dePater, I.	Calif-Berkeley	Jupiter Patrol: Aftermath of Comet-Jupiter Crash	20, 90	6	2.5
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 w/BD021	29	6.0
AR336	Rottgering, H. Windhorst, R. Schilizzi, R.	Cambridge Arizona State JIVE	Radio structure of faint blue galaxies	3.6	15, 24, 26	19.0
AR342	Ratner, M.I. Bartel, N. Lebach, D.E. Lestrade, J.-F. Shapiro, I.I.	CfA York CfA Paris/JPL CfA	Survey of radio sources near candidate guide stars for GP-B	3.6	24	1.0
AS525	Sramek, R. Weiler, K. Van Dyk, S. Panagia, N.	NRAO-Socorro NRL Calif.-Berkeley STScI	The properities of radio supernovae	1.3, 2, 3.6, 6, 20	15, 22	11.5
AS534	Sevenster, M.N. Lindqvist, M. Habing, H.J. van Langevelde, H.J.	Leiden (Neth) Leiden Leiden JIVE-Socorro	1612 MHz OH survey to complete IRAS/OH surveys	20 line	20	8.5
AS547	Schulman, E. Bregman, J.N. Brinks, E.	Michigan Michigan NRAO-Socorro	Deep HI observations of NGC 1300 in front of QSO 0318-196	20 line AG455	4	3.0
AS553	Schiminovich, D. van Gorkom, J. vanderHulst, J.M. Oosterloo, T.	Columbia Columbia ATNF	HI Observations of NGC 474 and five other shell galaxies with disks	20 line	1, 3	16.0
AS555	Skinner, C.J. Becker, R.H. Barlow, M.J. Sylvester, R.J.	Lawrence Livermore Calif.-Davis University-London University-London	Millimeter observations of Vega-excess stars	0.7 w/BB040	8, 9, 10	20.0
AT139	Taylor, C.L. Brinks, E. Skillman, E.D.	Minnesota NRAO-Socorro Minnesota	BCDs: search for neutral hydrogen companions	20 line	6	4.6
AU058	Urbanik, M. Soida, M. Beck, R. Braine, J.	Jagiellonian Jagiellonian MPIfR MPIfR	Magnetic field in the flocculent galaxy NGC 4414	3.6, 6	2, 3, 4	32.0
AW362	White, S.	Maryland	The stellar activity cycle on active stars	3.6, 6, 20	24	1.5
AW397	Willson, R.F.	Tufts	Chromospherically active stars	3.6, 6, 20 w/BD021	29	2.5
AW399	White, S.M. Beasley, A.J. Franciosini, E.	Maryland NRAO-Socorro Florence	High-frequency polarization of RS CVn systems	1.3, 2, 3.6 w/AG455	2	6.5
AW413	Wilson, T.L. Kobulnicky, C. Dickey, J.M.	MPIfR Minnesota Minnesota	Column density of galactic HI and OH toward extragalactic sources	20 line w/BV012	20	12.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AW414	White, S.M. Lim, J. Duncan, R.A. Drake, S.A.	Maryland Academia Sinica ATNF USRA-GFSC	Two luminous blue variable candidates	2, 3.6, 6 Not Observed	12	3.0
BB040	Boboltz, D. Diamond, P.J. Kemball, A.J. Claussen, M.J. Kogan, L.	VPI NRAO-Socorro NRAO-Socorro NRAO-Socorro NRAO-Socorro	A polarization survey of OH masers in circumstellar envelopes w/AS555, AJ248, AH555, AB761, AK408, Move/Op, AK376	20 Single antenna VLBI	9, 11	39.8
BC034	Conway, J.E. Wrobel, J.M.	JIVE-Onsala NRAO-Socorro	Helical distortions of the jet in Mrk 501	20	6	1.5
BD021	Diamond, P.J. Kemball, A.J. Benson, J. Junor, W. Dhawan, V.	NRAO-Socorro NRAO-Socorro NRAO-Socorro New Mexico NRAO-Socorro	Monitoring stellar SiO Masers w/AR335, AW397, AB757, AM487, AK400, AC438	0.7 Single antenna VLBI	29	30.1
BD023	Denn, G.R. Mutel, R.L.	Iowa Iowa	Monitoring BL Lac, with polarization	1.3, 2, 3.6	9	1.0
BD026	Diamond, P.J. Kemball, A.J. Goss, W.M. Taylor, G.B.	NRAO-Socorro NRAO-Socorro NRAO-Socorro CalTech	Mapping the small scale structure of the interstellar HI	20 Phased array VLBI	19	12.0
BM046	Mutel, R. Molnar, L. Goss, W.M.	Iowa Iowa NRAO-Socorro	HI absorption maps of ISS sources	20 Phased array VLBI	22	12.0
BT010	Taylor, G.B. Ge, J-P. Pearson, T. Roberts, D.	CalTech Brandeis CalTech Illinois	Faraday rotation measures of five CSS sources	6, 20 Single antenna VLBI w/AU58, AM474, AL324	3	9.1
BV012	van Langevelde, H.J. Chapman, J.M. Killeen, N.E.B.	JIVE-Socorro ATNF ATNF	OH/IR stars and galactic centre distance w/AB740, AC408, Tests, AD359, Move/Op, AM474, AW413	18 Single antenna VLBI	1, 19	21.2
GC016	Gabuzda, D. Hawtorne, T. Staff	Calgary Central Lancashire NRAO	Second epoch observation of a 1 Jy sample of BL lacertae objects Maintenance Move/Operations Operations Software General Test		1	0.1 45.2 62.7 36.3 25.5 21.7

The average downtime for the month of June 1995 was approximately 10.6%.  
 The array was scheduled 100.0% (722.0 hours) of the time:  
 74.3% (536.8 hours) to astronomical programs  
 15.9% (114.5 hours) to scheduled test calibration  
 9.8% ( 70.7 hours) to scheduled maintenance

The array was in:  
 D configuration from June 1 through June 5  
 AD configuration from June 5 through June 20  
 A configuration from June 20 through June 30  
 Total number of programs for June 1995 was 66

The following independent proposals shared simultaneous observing time (133.2 hours):

Projects	Hours	Projects	Hours
AB743/AG455	5.0	AL346/Move/Op	3.1
AB740/AG455	1.3	AB761/Move/Op	4.4
AB740/BV012	0.7	AJ248/Move/Op	3.1
AC408/BV012	3.0	BV012/Move/Op	5.0
Tests/BV012	1.5	BV012/AM474	1.5
AD359/BV012	5.1	BV012/AW413	4.4
AW399/AG455	3.4	AR335/BD021	5.2
AU058/AG455	2.9	AW397/BD021	2.5
AU058/BT010	7.9	AB757/BD021	3.0
AM474/BT010	1.0	AM487/BD021	8.0
AL324/BT010	0.2	AK400/BD021	3.5
AS547/AG455	1.1	AC438/BD21	7.9
AP308/AG455	2.0		
AU058/AG455	3.0		
AA555/BB040	5.0		
AJ248/BB040	19.0		
AS555/BB040	5.0		
AH555/BB040	1.0		
AB761/BB040	1.9		
Move/Op/AB761	2.1		
Move/Op/AB761	1.5		
AK408/BB040	2.5		
AP316/BB040	5.4		

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA186	Anantharamaiah, K. Phookun, B. Goss, M. Saikia, D.	Raman Institute NCRA-Pune NRAO-Socorro NCRA-Pune	Recombination lines from starburst galaxies	3.6 line	12, 21	13.0
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	5, 28	4.0
AB718	Brinks, E. Kunth, D. Lequeux, J. Mas-Hesse, M. Sargent, W.	NRAO-Socorro IAP Meudon LAE Caltech	Neutral gas in blue compact galaxies: Population III or recent polution	20 line	1	2.0
AB736	Briggs, F. Sorar, E.	Pittsburgh Pittsburgh	Coordinates and fluxes for an HI selected galaxy sample from Arecibo	20 line w/BC034	27, 28	28.0
AB737	Butler, B. Muhleman, D.	NRAO-Socorro Caltech	7-mm observations of large icy bodies in the solar system	0.7	8, 18	5.5
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 w/Move/Op	3, 12, 23	9.6
AB741	Braatz, J. Wilson, A.	Maryland Maryland	Mapping of H2O megamasers in active galaxies	1.3 line	5, 22	8.0
AB743	Bontemps, S. Andre, P. Ward-Thompson, D.	CEA-Saclay CEA-Saclay Edinburgh	Follow-up study of radio detected very young protostars	2, 3.6, 6	1	2.0
AC308	Condon, J. Cotton, W. Perley, R.	NRAO-CV NRAO-CV NRAO-Socorro	All sky survey	20	3,6,7,13-15, 20-22,25,26, 28	144.1
AC408	Cox, A. Sparke, L. van Moorsel, G.	NRAO-Socorro Wisconsin NRAO-Socorro	HI mapping of the polar-ring galaxies NGC 5122 & UGC 9562	20 line	1	7.0
AC418	Carilli, C. Stocke, J. Shull, M. van Gorkom, J.	CfA Colorado Colorado Columbia	Search for neutral hydrogen emission in the low redshift Ly $\alpha$ forest	20 line	1	8.0
AD356	DePree, C. Wood, D. Goss, M.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	7mm Line and continuum from two ultracompact HII regions	0.7 line	30	4.0
ADHOC1	Becker, R. Warner Bros.,		Ad Hoc Proposal		20	1.0
ADHOC2	Warner Bros.,		Ad Hoc Proposal		23,24	5.0
AF288	Frayer, D. Brown, R. Vanden Bout, P.	NRAO-CV NRAO-CV NRAO-CV	Search for starburst regions associated with damped Ly $\alpha$ absorption	3.6 w/BV005	6	10.0
AG427	Giacani, E. Dubner, G. Goss, M. Winkler, F. Frail, D.	IAFE IAFE NRAO-Socorro Middlebury NRAO-Socorro	Multi-frequency observations of the SNR W44	3.6, 6 line	20	6.0
AG440	Gary, D. Zirin, H.	Caltech Caltech	Quiet sun observations near solar minimum	2, 3.6	14, 15	20.0
AG442	Gibson, S. Wood, D. Holdaway, M. Nordsieck, K.	Wisconsin Kodak NRAO-Socorro Wisconsin	Sub-parsec nebular filaments in the Pleiades region	20 line	4	3.0
AH492	Hjellming, R. Gehrz, R. Seaquist, E. Taylor, R.	NRAO-Socorro Minnesota Toronto Calgary/NRAO	Image and light curve evolution of radio novae	1.3, 2, 3.6, 6, 20	6, 18	3.5
AH535	Holdaway, M. Goss, M. Foster, S. Dubner, G.	NRAO-Socorro NRAO-Socorro NRAO-Socorro IAFE	1.4 GHz imaging survey of northern SNR	20	5,9	7.3
AH536	Healy, K.	NRAO-Socorro	Search for pulsar radio haloes	90 HTRP	1	3.5
AJ244	Jaffe, W. Ford, H.	Leiden Johns Hopkins	Search for water megamasers in radio galaxies	1.3 line	11	3.0
AK368	Kaufman, M. Brinks, E. Elmegreen, B. Elmegreen, D. Struck-Marcell, C.	Ohio State NRAO-Socorro IBM Vassar Iowa State	Radio continuum observations of ocular and caustic galaxies	6	13, 15	5.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AK369	Kenny, H. Taylor, R. Iverson, R. Sequist, E.	Canadian Military Calgary/NRAO Edinburgh Toronto	CH Cygni: Monitoring of the radio jet in outburst	1.3, 3.6	17	2.5
AK376	Kulkarni, S. Frail, D.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters		14, 25	4.0
AK379	Krause, M. Wielebinski, R.	MPIFR MPIFR	Sensitive polarizaion study of M104 at lambda 6 cm	6	1	4.1
AK391	Kellermann, K. Schmidt, M.	NRAO-CV Caltech	Are there radio silent quasars?	3.6 w/Move/Op	9	4.0
AL345	Lazareff, B. Castets, A. Cernicharo, J. Lefloch, B.	IRAM Grenoble Yebes IRAM	Boundary pressure in star-forming cometary globules	6	22, 23	10.0
AL346	Leone, F. Umana, G. Trigilio, C.	Catania Noto Noto	Millimeter observations of magnetic chemically peculiar stars	0.7	29	2.0
AM437	Moffett, D. Reynolds, S. Dubner, G. Giacani, E. Reynoso, E. Dickel, J. Winkler, F. Goss, M.	NRAO-Socorro North Carolina St. IAFE IAFE IAFE Illinois Middlebury NRAO-Socorro	Expansion of Tycho's SNR, 3C 10	20	8	3.9
AM474	Marvel, K. Diamond, P.	NRAO-Socorro NRAO-Socorro	Monitoring masers in AGB stars	0.7, 1.3, 20 line	3, 17	3.0
AN065	Nordgren, T. Salpeter, E. Terzian, Y.	Cornell Cornell Cornell	HI morphology in three close galaxy pairs	20 line	19, 21, 22	16.0
AP308	Paredes, J. Jordi, C. Martí, J. Rodríguez, L.	Barcelona Barcelona Barcelona UNAM	A jet from a main sequence star	3.6	6	4.0
AP314	Pratap, P. Ho, P. Patel, N. Zheng, X.	FCRAO Cfa Cfa Nanjing	Mosaic of the NGC 7538 molecular cloud in ammonia 1,1 and 2,2	1.3 line	19	10.1
AP319	dePater, I.	Calif-Berkeley	Jupiter Patrol: Aftermath of Comet-Jupiter Crash	20, 90 w/Move/Op	9	3.0
AR327	Ryder, S. McIntyre, V. Zasov, A.	Alabama Cfa Sternberg	Possible HI Superbubble in NGC 157	20 line	26	4.0
AS525	Sramek, R. Weiler, K. Van Dyk, S. Panagia, N.	NRAO-Socorro NRL Calif.-Berkeley STScI	The properites of radio supernovae	1.3, 2, 3.6, 6, 20	18	3.5
AS547	Schulman, E. Bregman, J. Brinks, E.	Michigan Michigan NRAO-Socorro	Deep HI observations of NGC 1300 in front of QSO 0318-196	20 line	3, 7, 12, 16	21.5
AS551	Smith, B. Higdon, J.	Texas NRAO-Socorro	Multi-frequency radio continuum mapping of 4 nearby spiral galaxies	2, 3.6, 6, 20	16, 23	5.5
AS553	Schiminovich, D. van Gorkom, J. vanderHulst, J. Oosterloo, T.	Columbia Columbia Groningen ATNF	HI Observations of NGC 474 and five other shell galaxies with disks	20 line	25, 26	12.1
AT170	Thuan, T. Brinks, E. Pustil'nik, S. Lipovetsky, V. Izotov, Y.	Virginia NRAO-Socorro Special Astrophys. Special Astrophys. Main Astron. Obs.	HI mapping of extremely metal-deficient blue compact galaxies	20 line	13, 24	6.6
AT172	Thornley, M. Mundy, L.	Maryland Maryland	Cold gas on sub-kiloparsec scales in nearby flocculent galaxies	20 line w/BC034	27	3.5
AT176	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 HTRP	23, 24	12.5
AT178	Tafalla, M. Bachiller, R.	Cfa Yebes	NH3(3,3) maps of L1448-RED and HH2-11	1.3, 2 line	13	5.0
AV216	Verdes-Montenegro, L. Ho, P. Zavagno, A.	IAA Cfa IAS	Radio continuum source exciting HH 25 and HH 26?	0.7, 1.3, 2, 3.6	21	2.0
AW397	Willson, R.	Tufts	Chromospherically active stars	3.6, 6, 20	6, 28	5.0

## VLA Utilization Report May 1995

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AW408	Wootten, A. Mangum, J.	NRAO-CV Arizona	Ammonia distribution around the very young sources in L1448	1.3 line	4, 7, 23	7.5
AY067	Norton-Young, L.	NRAO-Socorro	Search for HI in the local group elliptical galaxy NGC 147	20 line	7	3.0
AY071	Yun, J. Moreira, M. Torrelles, J.	Lisbon Lisbon IAA-Granada	Search for continuum emission from embedded sources in Bok globules	3.6	19	3.0
AZ068	van Zee, L. Broeils, A. Haynes, M. Salzer, J.	Cornell Cornell Cornell Wesleyan	HI mapping of extreme Mh/L galaxies	20 line	16	8.5
AZ070	van Zee, L. Broeils, A. Haynes, M. Salzer, J.	Cornell Cornell Cornell Wesleyan	HI Mapping of isolated dwarf galaxies	20 line	18,	9.0
BC034	Conway, J. Wrobel, J.	Onsala NRAO-Socorro	Helical distortions of the jet in Mrk 501	20 Single antenna VLBI w/AB736,AT172	27	16.4
BK031	Kemball, A. Porcas, R. Patnaik, A.	NRAO-Socorro MPIfr MPIfr	VLBI polarimetry of gravitational lens system 0218+357	3.6 phased array VLBI	9	12.5
BL013	Lestrade, J. Phillips, R. Jones, D. Preston, R.	Meudon Haystack JPL JPL	Test of phase-referenced observations with the VLBA	3.6 Phased array VLBI	20	12.0
BM036	Moran, J. Miyoshi, M. Inoue, M. Nakai, N. Hernstein, J. Greenhill, L. Diamond, P.	Cfa NAO Nobeyama Nobeyama Cfa Cfa NRAO-Socorro	Measurement of proper motions of the water vapor masers in NGC 4258	1.3 Phased array VLBI	29	9.0
BV005	Vermeulen, R. Schilizzi, R. Spencer, R. Fejes, I.	Caltech JIVE Jodrell Bank Budapest	Spectral index imaging of the jets of SS433	2, 6, 20 Single antenna VLBI w/AB741,AH492,AF288	6	10.0
BW005	Wrobel, J. Conway, J. Terlevich, R.	NRAO-Socorro Onsala RGO	Testing the starburst model for NGC 5548's Seyfert 1 nucleus	3.6 phased array VLBI	2	9.0
GB025	de Bruyn, A. Vermeulen, R. Verbunt, F. Lestrade, J. Schilizzi, R. van de Heuvel, E.	NFRA Caltech Utrecht Meudon JIVE Amsterdam	Determining motions and birthplaces of pulsars through VLBI astrometry	20 Phased array VLBI w/Move/Op	4	18.2
GC016	Gabuzda, D. Cawthorne, T.	ASC Lebedev Lancashire	Second epoch observations of a 1 Jy sample of BL Lacertae objects	6	11, 31	8.0
GC017	Conway, J. Schilizzi, R. van Langevelde, H.	Onsala JIVE JIVE/NRAO	HI absorption observations of 3C236	20 Phased array VLBI	8	13.5
GM024	Marcaide, J. Ros, E. Alberdi, A. Diamond, P. Shapiro, I. Guirado, J. Preston, R. Jones, D. Witzel, A. Schilizzi, R. Mantovani, F. Trigilio, C. Whitney, A.	Valencia Valencia IAA NRAO-Socorro Cfa JPL JPL JPL MPIfr JIVE Bologna Noto Haystack	Radio shell expansion in SN 1993J at 6 cm	6 phased array VLBI	10	13.2
GR007	Rioja, M. Alberdi, A. deBruyn, G. Elosegui, P. Guirado, J. Lara, L. Saikia, D.	JIVE IAA NFRA Cfa JPL IAA NCRA-Pune	Unification model test:phase-reference mapping of weak-cored double	6 phased array VLBI	12	11.5

## VLA Utilization Report May 1995

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
GRO10	Rupen, M. Bartel, N. Conway, J. Beasley, A. Sramek, R. Romney, J. Bietenholz, M. Weiler, K. van Dyk, S. Panagia, N. Titus, M. Cannon, W. Popelar, J. Graham, D. Venturi, T. Umana, G. Davis, R. Rius, A. Altunin, V. Jones, D.	NRAO-Socorro York JIVE-Onsala NRAO-Socorro NRAO-Socorro NRAO-Socorro York NRL NRL STScI Haystack York Ottawa MPIfR Bologna Noto Jodrell Bank IAA JPL JPL	VLBI imaging of supernova 1993J in M81	6 phased array VLBI	10	19.0
	Staff	NRAO	Maintenance Move/Operations Operations Software General Test			45.4 13.0 43.6 21.9 27.8

The average downtime for the month of May 1995 was approximately 6.9%.

The array was scheduled 100.0% (746.1 hours) of the time:

80.5% (600.8 hours) to astronomical programs

10.4% ( 77.9 hours) to scheduled test calibration

9.0% ( 67.3 hours) to scheduled maintenance

The array was in:

D configuration from May 1 through May 31

Total number of programs for May 1995 was 62

The following independent proposals shared simultaneous observing time (40.2 hours):

Projects	Hours
AB736/BC034	4.1
AB736/BC034	8.7
AB740/Move/Op	2.0
AB741/BV005	1.1
AF288/BV005	8.3
AH492/BV005	1.5
AK391/Move/Op	4.0
AP319/Move/Op	3.0
AT172/BC034	3.5
Move/Op/GB025	3.9



April missing

## VLA Utilization Report March 1995

Progrm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA181	Alexander, P. Green, D. Clemens, M.	MRAO MRAO MRAO	Star-formation history in interacting galaxies NGC 4490/NGC 4485	3.6, 6, 20 line	15	7.3
AA185	Acord, J. Wood, D. Walmsley, C. Churchwell, E.	MPIR, Bonn NRAO-Socorro MPIR, Bonn Wisconsin	SiO towards G5.89-0.39 and W3IRS5	0.7 line	24	10.0
AB705	Burke, B. Becker, D. Lehar, J. Hewitt, J. Roberts, D.	MIT MIT MRAO MIT Brandeis	Time delay of the gravitational lens 0957+561	3.6, 6	8	1.6
AB725	Bastian, T. Chiuderri-Drago, F. Alissandrakis, C.	NRAO-Socorro Florence Athens	Search for linearly polarized microwave emission from the sun	3.6, 6 line	3, 12	17.0
AB728	Baumgardt, K. Broeils, A. Haynes, M.	Cornell Cornell Cornell	HI study of the internal kinematics of Sa galaxies	20 line	27	8.0
AB742	Balsler, D. Rood, R. Bania, T. Wilson, T.	NRAO-GB Virginia Boston MPIR, Bonn	Search for 3He+ in planetary nebulae	3.6 line w/BJ007	11, 16, 20	23.0
AC308	Condon, J. Cotton, W. Perley, R.	NRAO-CV NRAO-CV NRAO-Socorro	All sky survey	20	1-4,9-11,16-18,23-25,30-31	179.0
AC399	Cayatte, V. Boselli, A. Balkowski, C. van Gorkom, J.	Paris Obs Paris Obs Paris Obs Columbia	HI Distribution in the anemic galaxy NGC 4548	20 line	28	2.5
AC414	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 the Coma cluster	20 line w/BJ007	19	6.0
AC417	Chengalur, J. Lu, N.	NFRA Caltech	Extended emission in the warped disk of NGC 5403	20 line	9	3.0
ADHC1	Hjellming, R.	NRAO-Socorro	AdHoc		1,2,3,5,7	5.5
ADHC2	Uson, J.	NRAO-Socorro	AdHoc		1	0.3
ADHC3	Andre, P.	CNRS, France	AdHoc		5,17	2.0
AG441	Garay, G. Brown, R. Lizano, S. Gomez, Y.	Chile NRAO-CV Mexico/UNAM Mexico/UNAM	The C+ recombination line emission from S88 B	3.6 line	28	10.5
AG444	Ge, J. Mao, S. Loeb, A.	Brandeis CFA CFA	Searching for magnetic fields in the Abell cluster 2390	2, 3.6, 6	10	5.0
AG447	Goodman, A. Benson, P. Fuller, G. Mardones, D. Wilner, D. Myers, P. Tafalla, M.	Harvard Wellesley College NRAO-CV Harvard CFA CFA CFA	Internal structure of dense cores	1.3 line w/BT006	23, 25, 27	18.0
AH492	Hjellming, R. Gehrz, R. Seaquist, E. Taylor, A.	NRAO-Socorro Minnesota Toronto NRAO-Socorro	Image and light curve evolution of the Novae Puppis 1991 and Cygni 1992	w/Tests	12,19	1.5
AH524	Hoernes, P. Berkhuijsen, E. Beck, R.	MPIR, Bonn MPIR, Bonn MPIR, Bonn	Polarization and RM in the SW arms of M31	6	4, 5	18.0
AH543	Holdaway, M. Rupen, M.	NRAO-Socorro NRAO-Socorro	An HI Mosaic of A0355, dwarf companion to IC342	20 line	12	4.0
AH547	Higdon, J. Wrobel, J.	NRAO-Socorro NRAO-Socorro	HI observations of spiral-elliptical pairs Arp 102 and Arp 104	20 line	22, 29	10.0
AI054	Irwin, J. Giguere, D.	Queens Queens	High-z HI in the Edge-on Galaxy, NGC 3556	20 line	5	4.0
AK369	Kenny, H. Taylor, R. Iverson, R. Seaquist, E.	Canadian Military NRAO-Socorro Edinburgh Toronto	CH Cygni: Monitoring of the radio jet in outburst	1.3, 3.6	9	2.0
AK376	Kulkarni, S. Frail, D.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters		21	1.6

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AK382	Kundu, M. Nitta, N. White, S. Gopalswamy, N.	Maryland Lockheed Maryland Maryland	Radio spectrum of solar x-ray bright points	2, 6, 20	17	10.0
AK386	Kurtz, S.	Mexico/UNAM	Molecular outflows from massive stars	2, 3.6	23	6.0
AK389	Kuiper, T. Velusamy, T. Langer, W. Migenes, V.	JPL JPL JPL ATNF	CCS Spectral line mapping of B335	1.3 line	2	6.0
AK393	Knapp, G. Bowers, P.	Princeton NRL	The circumstellar envelope of CRL 2688	3.6 line	26	6.0
AL344	Lang, K. Willson, R. Kile, J. Bogod, V. Gelfreikh, G.	Tufts Tufts Tufts Pulkovo Obs Pulkovo Obs	VLA-RATAN observations of nonthermal sources on the Sun	2, 3.6, 6, 20, 90	19, 21, 27, 31	16.0
AL348	Lim, J. White, S. Drake, S.	Taiwan Maryland NASA/ISS	Nonthermal radiation from magnetic Bp star Sigma Ori E	0.7, 1.3, 2, 3.6, 6	26	8.0
AL349	Lo, K. Young, L. Sargent, W. Goss, M.	Illinois Illinois Caltech NRAO-Socorro	The HI medium of faint dwarf galaxies	20 line	13	3.0
AM469	Morrison, G. Owen, F. Beasley, A. Voges, W.	New Mexico NRAO-Socorro NRAO-Socorro MPIfEP, Garching	Radio halos in high redshift very rich abell clusters	20	14	12.7
AM474	Marvel, K. Diamond, P.	NRAO-Socorro NRAO-Socorro	Monitoring masers in AGB stars	0.7, 1.3, 20 line	5, 19, 30	4.0
AM476	Mirabel, F. Chaty, S. Martí, J. Rodríguez, L.	CNRS, France CNRS, France Barcelona Mexico/UNAM	Large-scale radio jets from cygnus X-1	6	13	6.0
AP302	Pooley, G. Hardcastle, M. Alexander, P. Riley, J.	MRAO MRAO MRAO MRAO	Jets in nearby FRI radio galaxies	3.6, 20	6	4.0
AP313	Palmer, P. Snyder, L. dePater, I.	Chicago Illinois Calif., Berkeley	Observation of OH in comet P/d'Arrest	20 line	6, 9	16.0
AR310	Rudnick, L. Keohane, J. Perley, R.	Minnesota Minnesota NRAO-Socorro	Evolutionary studies of Cas A	6, 20	25	5.0
AR331	Rupen, M. Holdaway, M.	NRAO-Socorro NRAO-Socorro	HI Mosaics of the Milky Way: small-scale structure in the ISM	20 line	11, 18	8.1
AS548	Steiman-Cameron, T. Sparke, L. van Gorkom, J. Eder, J. Sackett, P.	NASA/Ames Wisconsin Columbia NAIC Inst AdvancedStudies	HI mapping of the peculiar SO galaxy NGC 4753	20 line	6	2.0
AS552	Schiminovich, D. van Gorkom, J. van der Hulst, J.	Columbia Columbia Groningen/Kapteyn	HI observations of dynamically young ellipticals	20 line	27	8.0
AS554	Skinner, C. Becker, R. White, R. Barlow, M.	LLNL Calif., Davis STSCI U. College London	Millimeter observations of P Cygni	0.7	4	3.0
AT172	Thornley, M. Mundy, L.	Maryland Maryland	Cold gas on sub-kiloparsec scales in nearby flocculent galaxies	20 line w/BT006	26	4.0
AT179	Taylor, C. Brinks, E. Skillman, E.	Minnesota NRAO-Socorro Minnesota	Search for HI Companions to low surface brightness dwarf galaxies	20 line w/BJ007	8, 19, 20	18.5
AU056	Uson, J. Bagri, D. Cornwell, T.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	Further observations of a proto-cluster of galaxies	90 line	6, 21, 22, 29	26.6
AV215	Velusamy, T. Kuiper, T. Langer, W. Migenes, V.	JPL JPL JPL ATNF	CCS mapping of fragments in dark cloud core TMC-1+L149	1.3 line	31	8.0
AW362	White, S.	Maryland	The stellar activity cycle on active stars	3.6, 6, 20 w/Move/Op	2, 3	3.0

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AW406	Wilner, D. Dickel, H. Welch, W. Jackson, J.	CFA Illinois Calif., Berkeley Boston	CS J=1-0 and recombination line mapping of W49A North	0.7, 1.3, 3.6 line	30	6.0
AZ068	van Zee, L. Broeils, A. Haynes, M. Salzer, J.	Cornell Cornell Cornell Wesleyan U.	HI mapping of extreme Mh/L galaxies	20 line	10	6.0
BA008	Aaron, S. Wardle, J. Roberts, D.	Brandeis Brandeis Brandeis	Linear polarization structure of 3C309.1 and 1652+398	6	26	1.0
BJ007	Junor, W. Biretta, J. Harris, D.	New Mexico STSCI CFA	Core and jet in M87	90 Single antenna VLBI w/AT179, AC414, AB742	19	15.9
BL010	Lo, K. Zhao, J-H Xu, W. Ho, L.	Illinois CFA Caltech Calif., Berkeley	Possible "counterparts" of Sgr A* in nuclei of nearby galaxies: M104	3.6 Phased array VLBI	12	9.5
BT006	Taylor, G. Ge, J. Pearson, T. Roberts, D.	Caltech Brandeis Caltech Brandeis	Mapping the high Faraday rotation measures of CSS sources: 3C318	6, 20 Single antenna VLBI w/AT172, AG447	26	9.6
BW005	Wrobel, J. Conway, J. Terlevich, R.	NRAO-Socorro NRAO-Socorro RGO	Testing the starburst model for NGC 5548's Seyfert 1 nucleus	3.6 Phased array VLBI	20	12.0
BW015	Wardle, J. Roberts, D. Ge, J. Aaron, S. Gabuzda, D.	Brandeis Brandeis Brandeis Brandeis Calgary	Emission-line BL Lacs and HPQ/OVV quasars	6	16	2.0
	Staff	NRAO	Maintenance Operations Software Standard Field Observation Student observation Tests			60.1 35.5 33.6 6.9 1.5 59.7

The average downtime for the month of March 1995 was approximately 4.4%.  
 The array was scheduled 100.0% (746.1 hours) of the time:  
 74.4% (554.9 hours) to astronomical programs  
 13.1% (97.5 hours) to scheduled test calibration  
 12.6% (93.7 hours) to scheduled maintenance

The array was in:  
 D configuration from March 1 through March 31  
 Total number of programs for March 1995 was 51

The following independent proposals shared simultaneous observing time (37.3 hours):

Projects	Hours
AB725/Tests	7.3
AB742/BJ007	5.1
AC414/BJ007	6.0
Adhoc/Tests	2.0
AG447/BT006	5.2
ah492/Tests	1.0
AT172/BT006	4.0
AT179/BJ007	4.7
AW363/Move/Op	2.0

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Prog#	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA156	Antonucci, R. Barvainis, R.	Calif., Santa Barbara Haystack	Molecular gas in high-redshift quasars	1.3, line	25	10.0
AB705	Burke, B. Becker, D. Lehar, J. Hewitt, J. Roberts, D.	MIT MIT Cambridge MIT Brandeis	Time delay of the gravitational lens 0957+561	3.6, 6	19	2.0
AB739	Benz, A. Keller, C. Bastian, T. Krucker, S. Bernasconi, P.	ETH, Zurich NOAO NRAO-Socorro ETH, Zurich ETH, Zurich	Chromosphere and corona above the network of the quiet Sun	1.3, 2, 3.6	20	8.5
AB741	Braatz, J. Wilson, A.	Maryland Maryland	Mapping of H2O megamasers in active galaxies	1.3 line w/Tests	3, 14	6.5
AB742	Balser, D. Rood, R. Banja, T. Wilson, T.	NRAO-GB Virginia Boston MPIR, Bonn	Search for 3He+ in planetary nebulae	3.6 line w/BG028	25, 26	21.0
AC308	Condon, J. Cotton, W. Perley, R.	NRAO-CV NRAO-CV NRAO-Socorro	All sky survey	20	1-4, 6, 8-10, 12, 15, 17, 19, 26-28	181.0
AD348	Drake, S. Lim, J. Linsky, J.	NASA/GFSC IAA, Granada Colorado/JILA	Combined ROSAT/ATCA/VLA study of magnetic Bp star MR 5624	2, 3.6, 6, 20 w/GJ007	15, 16, 17	6.0
AD353	Della Ceca, R. Stanghellini, C. Bondi, M. Dallacasa, D.	Johns Hopkins Bologna Manchester NFRA	Search for arcminute scale emission from radio selected BL lac objects	20	20	4.0
AD357	DePree, C. Wood, D. Goss, M.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	7mm observations of the circumstellar disks of massive star outflows	0.7	20	3.0
ADHOC1	Andre, P.	CNRS, France	AD HOC PROPOSAL		8	1.5
ADHOC2	De Pater, I.	Calif., Berkeley	AD HOC PROPOSAL		23	1.0
AF280	Frail, D. Bietenholz, M. Markwardt, C. Ogelman, H.	NRAO-Socorro York U. Wisconsin Wisconsin	Matched radio/x-ray images in the vicinity of the Vela pulsar	90	13	5.0
AG439	Grossman, A. Clancy, R.	Maryland Colorado/JILA	Mapping Mars water vapor at opposition	1.3	18	11.0
AG448	Greenhill, L. Henkel, C.	CFA MPIR, Bonn	Monitoring the acceleration of water megamaser features in NGC 4258	1.3 line	23	4.5
AH492	Hjellming, R. Gehrz, R. Seaquist, E. Taylor, R.	NRAO-Socorro Minnesota Toronto NRAO-Socorro	Image and light curve evolution of the novae Puppis 1991 and Cygni 1992	1.3, 2, 3.6, 6, 20	23	1.5
AH538	Higdon, J. Wallin, J.	NRAO-Socorro George Mason	Radio continuum study of the Cartwheel ring galaxy	2, 3.6, 6	17	7.0
AH539	Higdon, J. Wallin, J.	NRAO-Socorro George Mason	Neutral hydrogen in the optical jets of NGC 1097	20 line	5, 13	12.0
AH542	Ho, P. Szczepanski, J.	CFA MIT	Ammonia in the neighborhood of the galactic center	1.3 line	3, 4, 10	15.0
AH546	Harper, G. Brown, A. Hummel, C. Walder, R.	Colorado/JILA Colorado/JILA USNO ETH, Zurich	Search for radio emission from eclipsing binary Zeta Aurigae	3.6, 6	19	4.0
AI056	Iverson, R. Seaquist, E. Papadopoulos, P. Eales, S.	Edinburgh Toronto Toronto Cardif	Search for redshifted CO emission from high redshift objects	1.3 line	21	7.5
AJ238	Johnston, K. Gaume, R. Nedoluha, G. Wilson, T. Collison, A.	USNO USNO NRL MPIR, Bonn Illinois	Spatial structure of Orion CH3OH maser	1.3 line	6	4.0
AJ244	Jaffe, W. Ford, H.	Leiden Johns Hopkins	Search for water megamasers in radio galaxies	1.3 line	3	2.0
AK376	Kulkarni, S. Frail, D.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters		5	5.0
AK383	Koo, B.	Seoul National U.	Do ultracompact HII regions have diffuse envelopes?	20	11, 13, 14, 17	19.0
AK384	Kundu, M. Gopalswamy, N. Shibata, K.	Maryland Maryland NAO, Japan	Radio signatures of coronal x-ray jets	2, 3.6, 20, 90	11, 19	12.5

## VLA Utilization Report February 1995

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AK389	Kuiper, T. Velusamy, T. Langer, W. Migenes, V.	JPL JPL JPL CSIRO	CCS Spectral line mapping of B335	1.3 line	27, 28	13.0
AK391	Kellermann, K. Schmidt, M.	NRAO-CV Caltech	Are there radio silent quasars?	3.6	6, 21	4.5
AL333	Leitch, E. Myers, S. Readhead, A.	Caltech Caltech Caltech	VLA survey of OVRO microwave background fields	3.6	4	5.0
AL341	Lundgren, S. Foster, R. Kassim, N. Camilo, F. Mattox, J.	NRL NRL NRL Princeton NASA/GSFC	Radio imaging of unidentified EGRET gamma-ray sources	20, 90	20, 21	10.0
AL350	Lis, D. Menten, K.	Caltech CFA	Search for H <sub>2</sub> O masers in Sagittarius C and Sagittarius D	1.3 line	2	4.5
AM474	Marvel, K. Diamond, P.	NRAO-Socorro NRAO-Socorro	Monitoring masers in AGB stars	0.7, 1.3, 20 line	2, 6, 18, 24	4.6
AM475	Menten, K. Reid, M.	CFA CFA	Search for SiO and H <sub>2</sub> O stellar masers near the galactic center	0.7, 1.3	9	5.0
AS525	Sramek, R. Weiler, K. Van Dyk, S. Panagia, N.	NRAO-Socorro NRL Calif., Berkeley STScI	The properities of radio supernovae	1.3, 2, 3.6, 6, 20	24	2.0
AS547	Schulman, E. Bregman, J. Brinks, E.	Michigan Michigan NRAO-Socorro	Deep HI observations of NGC 1300 in front of QSO 0318-196	20 line	15, 18	8.0
AS553	Schiminovich, D. van Gorkom, J. vanderHulst, J. Oosterloo, T.	Columbia Columbia Groningen/Kapteyn CSIRO	HI Observations of NGC 474 and five other shell galaxies with disks	20 line w/GJ007	5, 14	12.5
AS557	Slysh, V. Dzura, A. Kalenskii, S. Valtts, I. Kogan, L.	Lebedev Lebedev Lebedev Lebedev NRAO-Socorro	Methanol masers and their environment	0.7 line	24	9.0
AT167	Tongue, T. Westpfahl, D. Adler, D. Henning, P.	NMIMT NMIMT NRAO-Socorro New Mexico	HI mapping of M33: topology of neutral medium	20 line	27	4.0
AT176	Thorsett, S. Taylor, J. McKinnon, M. Hankins, T. Stinebring, D.	Princeton Princeton NRAO-GB NMIMT Oberlin College	Timing fast pulsars at the VLA	6, 20, 90	18, 19	12.0
AW401	Wallin, J. Higdon, J.	George Mason NRAO-Socorro	HI observations of the interacting ring galaxy Arp 10	20 line	12	5.0
AW409	Wootten, A. Fuller, G.	NRAO-CV NRAO-Tucson	Deep continuum search for C180 core L1689S-R17	3.6	14	1.5
AY068	Yusef-Zadeh, F. Wardle, M.	Northwestern Rochester	Ionization of stellar atmospheres near the galactic center	3.6	6	8.0
AY070	Yusef-Zadeh, F. Uchida, K.	Northwestern MPIR, Bonn	Search for shock-excited OH masers toward the galactic center	20 line	5	2.5
AY071	Yun, J. Moreira, M. Torrelles, J.	Lisbon Lisbon IAA, Granada	Search for continuum emission from embedded sources in Bok globules	3.6	28	2.1
BG028	Gwinn, C. Ojeda, M. Desai, K.	Calif., Santa Barbara Calif., Santa Barbara NRL	Incoherently-scattered halos of H <sub>2</sub> O masers in W49N	1.3 Single antenna VLBI w/AB742/Tests	26	11.0
BL011	Lonsdale, C. Barthel, P.	Haystack Groningen/Kapteyn	The primary hotspot in 3C205 south	20	17	1.0
GJ007	Junor, B. Biretta, J.	New Mexico STScI	Structure and evolution on light-week scales in Nucleus of 3C274	0.7 Phased array VLBI w/Tests/AS553/AD348	14	13.9

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
GM021	Marcaide, J. Jones, D. Ros, E. Alberdi, A. Guirado, J. Rius, A. Diamond, P. Shapiro, I. Rogers, A. Whitney, A. Witzel, A. Krichbaum, T. de Bruyn, G. Schilizzi, R. Mantovani, F. Trigilio, C. Preston, R.	Valencia JPL Valencia IAA, Granada IAA, Granada IAA, Granada NRAO-Socorro CFA Haystack Haystack MPIR, Bonn MPIR, Bonn NFRA NFRA Bologna Bologna JPL	Radio-shell expansion in SN 1993J	6 Phased array VLBI	23	13.0
GR010	Rupen, M. Bartel, N. Conway, J. Beasley, A. Sramek, R. Romney, J. Bietenholz, M. Weiler, K. van Dyk, S. Panagia, N. Titus, M. Cannon, W. Popelar, J. Graham, D. Venturi, T. Umana, G. Davis, R. Rius, A. Altunin, V. Jones, D.	NRAO-Socorro York U. Chalmers, Onsala NRAO-Socorro NRAO-Socorro NRAO-Socorro York U. NRL Calif., Berkeley STScI Haystack York U. Ottawa MPIR, Bonn Bologna Bologna Manchester IAA, Granada JPL JPL	VLBI imaging of supernova 1993J in M81	3.6, 6, 20 Phased array VLBI	11	13.0
	Staff	NRAO	Baselines, Pointing, Delays Maintenance Move/Operations Operations Software General Tests Student observation			39.0 52.0 12.6 39.6 25.2 43.8 2.0

The average downtime for the month of February 1995 was approximately 3.8%.  
 The array was scheduled 100.0% (673.9 hours) of the time:  
 74.3% (500.7 hours) to astronomical programs  
 14.2% (96.0 hours) to scheduled test calibration  
 11.5% (77.2 hours) to scheduled maintenance

The array was in:  
 DnC configuration from February 1 through February 21  
 D configuration from February 21 through February 28  
 Total number of programs for February 1995 was 49

The following independent proposals shared simultaneous observing time (25.8 hours):

Projects	Hours
AB742/BG028	10.8
AD348/GJ007	3.0
AS553/GJ007	8.0
Tests/AB741	1.0
Tests/BG028	0.2
Tests/GJ007	1.0
Tests/GJ007	1.9

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA185	Acord, J. Wood, D. Walmsley, C. Churchwell, E.	MPIR, Bonn NRAO-Socorro MPIR, Bonn Wisconsin	SiO towards G5.89-0.39 and W3IRS5	0.7 line	17	5.0
AB705	Burke, B. Becker, D. Lehar, J. Hewitt, J. Roberts, D.	MIT MIT Cambridge MIT Brandeis	Time delay of the gravitational lens 0957+561	3.6, 6	19	2.0
AB735	Benz, A. Gudel, M. Schmitt, J.	Zurich Villigen MPE, Munich	Neupert Effect in the Corona of an Active star	3.6 w/Test,Move/Op	5, 6	15.9
AB741	Braatz, J. Wilson, A.	Maryland Maryland	Mapping of H2O megamasers in active galaxies	1.3 line	3, 14	3.1
AB744	Brown, A. Jeffries, R. Deeney, B. Bromage, G.	Colorado/JILA Birmingham Colorado/JILA Lancashire	Two young rapidly-rotating late type dwarfs.	3.6	14	3.0
AC308	Condon, J. Cotton, W. Perley, R.	NRAO-CV NRAO-CV NRAO-Socorro	All sky survey	20	14-23, 25-31	213.1
AD333	Duric, N. Goss, M. Viallefond, F. Lacey, C. Gordon, S.	New Mexico NRAO-Socorro Meudon New Mexico CFA	A multi-wavelength survey of SNRs in 9 nearby galaxies	6	2	10.0
AD351	Dahlem, M. Donggorgen, H. Dettmar, R-J	Johns Hopkins Bonn U. Bochum	ISM in NGC 2188 - Case study of disk-halo interactions	20 line	31	3.5
AD353	Della Ceca, R. Stanghellini, C. Bondi, M. Dallacasa, D.	Johns Hopkins Bologna Bonn U. NFRA	Search for arcminute scale emission from radio selected BL lac objects	20	20	4.0
AD356	DePree, C. Wood, D. Goss, M.	NRAO-Socorro NRAO-Socorro NRAO-Socorro	7mm Line and continuum from two ultracompact HII regions	0.7 line	26	4.0
AD358	DePree, C. Wood, D.	NRAO-Socorro NRAO-Socorro	Fast molecular outflows of Sgr B2	0.7 line	24	5.0
AD360	DePree, C. Goss, M.	NRAO-Socorro NRAO-Socorro	A "new" source in K3-50C	2	16	4.0
ADHOC1	Adler, D.	NRAO-Socorro	Ad Hoc Proposal		6	1.5
AE101	Echevarria, L. Morris, M.	UCLA UCLA	Probing the nature of the galactic center threads	3.6, 6, 20	22	6.0
AF275	Fomalont, E. Kellermann, K. Partridge, B. Windhorst, R.	NRAO-CV NRAO-CV Haverford College Arizona State	High resolution image of deep field at 8.4 GHz	3.6 line	2	10.0
AF279	Frail, D. Goss, M.	NRAO-Socorro NRAO-Socorro	Deep VLA imaging around PSR 1823-13	90	19	4.5
AF281	Frail, D. Goss, M. Slysh, V. Dubner, G.	NRAO-Socorro NRAO-Socorro Lebedev IAFE, Buenos Aires	OH (1720 MHz) maser emission toward supernova remnants	20 line	2	5.0
AF285	Forveille, T. Cox, P. Huggins, P. Bachiller, R. Omant, A.	Grenoble Marseille Obs. SUNY Yebebs Obs. Paris	Search for HI in the Helix planetary nebula	20 line	27	9.0
AG421	Gaume, R. Fischer, J.	USNO NRL	Monitoring the radio continuum flux density of NGC 2024-IRS2	1.3, 2, 3.6, 6, 20	11	1.6
AG437	Gray, A.	DRAO	Detailed imaging and polarimetry of G357.1-00.2, a possible SNR	6	23	5.0
AG448	Greenhill, L. Henkel, C.	CFA MPIR, Bonn	Monitoring the acceleration of water megamaser features in NGC 4258	1.3 line	7	4.5
AH492	Hjellming, R. Gehrz, R. Seaquist, E. Taylor, A.	NRAO-Socorro Minnesota Toronto NRAO-Socorro	Monitoring radio novae	1.3, 2, 3.6, 6, 20	3,5,6,8	11.2
AH526	Holdaway, M. Lizet, H.	NRAO-Socorro NRAO-CV	Galactic center radio continuum mosaic at 1.4 GHz	20	28	5.4
AH527	Hibbard, J. Yun, M.	Hawaii Caltech	Mapping tidal HI in ultraluminous IR galaxies	20 line	24	6.0



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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
A1056	Iverson, R. Seaquist, E. Papadopoulos, P. Eales, S.	Royal Obs Toronto Toronto Cardiff	Search for redshifted CO emission from high redshift objects	1.3 line	30	6.0
AJ244	Jaffe, W. Ford, H.	Leiden Johns Hopkins	Search for water megamasers in radio galaxies	1.3 line	9	6.5
AJ245	Johnston, H. Strom, R. Verbunt, F.	Utrecht NFRA Utrecht	An X-ray knot expelled by the Vela supernova	20 line	24	3.0
AK364	Kollgaard, R. Feigelson, E. Urry, C. Pesce, J. Wehrle, A.	Penn State Penn State STScI STScI IPAC	Intensive radio monitoring of the blazar 3C 279	1.3, 2, 3.6, 6, 20	3, 10, 14, 25	4.0
AK372	Knapp, G.	Princeton	Continuum observations of evolved stars	2, 3.6, 6	1	5.6
AK376	Kulkarni, S. Frail, D.	Caltech NRAO-Socorro	Search for the radio counterparts of gamma ray bursters		24	1.5
AL349	Lo, K. Norton-Young, L. Sargent, W. Goss, M.	Illinois Illinois Caltech NRAO-Socorro	The HI medium of faint dwarf galaxies	20 line	20	9.0
AL350	Lis, D. Menten, K.	Caltech CFA	Search for H <sub>2</sub> O masers in Sagittarius C and Sagittarius D	1.3 line	30, 31	10.0
AL351	Levine, D. Morris, M. Taylor, G. Schulman, E.	Calif., Los Angeles Calif., Los Angeles Caltech Michigan	Continuing search for H <sub>2</sub> O masers towards the galactic center	1.3 line w/BD010	7, 12, 13	20.5
AM462	Molinari, S. Brand, J. Cesaroni, R. Palla, F. Palumbo, G.	Bologna Bologna Arcetri Arcetri Bologna	Radio-continuum observations of very young massive stars	2, 6	23	5.0
AM465	Mirabel, F. Rodriguez, L.	CNRS, France Mexico/UNAM	Superluminal source GRS 1915+105	3.6, 20	9	3.6
AM477	Mehring, D. Menten, K.	Illinois CFA	44 GHz methanol masers and quasi-thermal emission in Sgr B2	0.7 line	15, 16	12.0
AP310	Martin-Pintado, J. Gaume, R. de Vicente, P. Johnston, K. Wilson, T.	Yebes Obs. USNO Yebes Obs. USNO MPIR, Bonn	The hot molecular ring around the Sgr B2 star forming cores	1.3 line	14	8.0
AP311	Patel, N. Zhang, Q. Ho, P. Goldsmith, P.	Massachusetts CFA CFA NAIC	Water masers associated with the bright rimmed globules of IC1396	1.3 line	15	1.5
AR330	Reynolds, S. Chevalier, R.	N.C. State Virginia	Search for nonthermal emission from planetary nebulae	6	21	5.0
AS525	Sramek, R. Weiler, K. Van Dyk, S. Panagia, N.	NRAO-Socorro NRL NRL STScI	The properties of radio supernovae	1.3, 2, 3.6, 6, 20	5, 8	9.5
AS541	Smith, B. Higdon, J.	Texas NRAO-Socorro	Multi-frequency radio continuum mapping of 4 nearby spiral galaxies	6, 20	3	6.0
AS546	Sjouerman, L. van Langevelde, H. Diamond, P. Lindqvist, M. Winnberg, A.	Leiden NRAO-Socorro NRAO-Socorro Leiden Chalmers, Onsala	SiO masers in galactic center OH/IR stars	0.7 line	29	5.0
AS557	Slysh, V. Dzura, A. Kalenskii, S. Valtts, I. Kogan, L.	Lebedev Lebedev Lebedev Lebedev NRAO-Socorro	Methanol masers and their environment	0.7 line	0.7 line	1.5
AW405	Wilson, T. Gaume, R. Johnston, K. Tieftrunk, A.	MPIR, Bonn USNO USNO MPIR, Bonn	Location of H <sub>2</sub> O masers in DR 21	1.3 line	12	2.0
AW409	Wootten, A. Fuller, G.	NRAO-CV NRAO-CV	Deep continuum search for C18 O core L1689S-R17	3.6	27	2.0
BD010	Desai, K. Diamond, P. Frail, D. van Langevelde, H.	Calif., Santa Barbara NRAO-Socorro NRAO-Socorro NRAO-Socorro	Angular broadening of OH masers in OH/IR stars	20 Single antenna VLBI w/AL351	7	7.5

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BG039	Greenhill, L. Moran, J. Reid, M. Lo, K.	CFA CFA CFA Illinois	The nucleus of NGC 3079	1.3 Phased Array VLBI	8	14.1
BM036	Moran, J. Miyoshi, M. Inoue, M. Nakai, N. Hernstein, J. Greenhill, L. Diamond, P.	CFA NAO Nobeyama Obs. Nobeyama Obs. CFA CFA NRAO-Socorro	Measurement of proper motions of the water vapor masers in NGC 4258	1.3 Phased array VLBI	7	15.9
BT012	Thakkar, D. Vermeulen, R. Pearson, T. Readhead, T.	Caltech Caltech Caltech Caltech	Nuclei of complete sample of low-luminosity radio galaxies	6, 20 Phased array VLBI	5	12.0
	Staff	NRAO	Maintenance Move/Operations Holiday Operations Software General Tests			46.0 41.2 16.0 40.8 31.4 62.8

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Tests/BG028	0.2
Tests/GJ007	1.0
Tests/GJ007	1.9