

VLBA Utilization Report December 2005

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB184	Braatz, J. Greenhill, L. Henkel, C. Moran, J. Wilson, A.	NRAO-GB CfA MPIR, Bonn CfA Univ. Maryland	Imaging accretion disks and measuring distances to galaxies		1	12, 29	20.0
BB213	Briskin, W. Romani, R.	NRAO-Socorro Stanford	Pulsar J0538+2817: four more epochs		20	1	2.0
BB217	Boyce, E. Winn, J.N. Myers, S.T. Rusin, D. Hewitt, J. Keeton, C.	MIT/NRAO CfA NRAO-Socorro Pennsylvania MIT Rutgers Univ.	Observations of gravitational lens central images		6 With EB, GB, Y27	9	2.75
BC152	Claussen, M. Marvel, K. Simpson, C. Wilking, B. Wootten, H.A.	NRAO-Socorro AAS Wellesley UMSL NRAO-CV	Parallax and proper motions of water masers in Ophiuchi molecular cloud complex		1	8, 22	10.0
BD105	Dhawan, V. Fomalont, E. Lestrade, J.-F. Mioduszewski, A. Rupen, M.	NRAO-Socorro NRAO-CV Obs. de Paris NRAO-Socorro NRAO-Socorro	Astrometry of X-ray binaries		2	28	5.50
BE043	Edwards, P. Snellen, I.	ISAS Leiden Obs.	Properties of Parkes half-Jy GPS galaxy sample		13	10,11,26, 28	19.0
BF075	Filho, M. Barthel, P. Nagar, N.	Ist. de Radioastron Kapteyn Kapteyn	Jets in composite LINER/H II Nuclei		2,13,6, 20	1, 7	16.25
BF087	Fenech, D. Argo, M. Beswick, R. Muxlow, T. Pedlar, A. Wills, K.	Manchester Univ. Manchester Manchester Manchester Manchester Sheffield	Low frequency obs of compact radio sources in M82		90	3	18.0
BG157	deGregorio-Monsalvo Gomez, J.F. Patel, N.	LAEFF LAEFF CfA	Study of a precessing jet in intermediate mass bok globule CB3		1	8	7.0
BH135	Harris, D.E. Cheung, C.C. Junor, W.	SAO MIT LANL	Flare decay of Knot 'HST-1' in the M87 Jet		20	16	7.75
BI032	Impellizzeri, V. Henkel, C. Roy, A.	MPIR, Bonn MPIR, Bonn MPIR, Bonn	Search for a molecular Torus in Cygnus A and NGC 1052		2	6,8,10	22.0
BK114	Kondratko, P.T. Greenhill, L.J. Moran, J. Reid, M.	Harvard CfA CfA CfA	Imaging three NGC 4258-like water megamasers		1.3 With EB, GB, Y27	27	14.5
BK127	Knudsen, K. Walter, F. Momjian, E. Carilli, C. Yun, M.	MPIA MPIA Arecibo NRAO-Socorro Massachusetts	Imaging two submm-bright quasars at redshift 2.8		18 With GB, Y27	29	7.0
BK129	Kameno, S. Nakai, N. Sato, N. Sawada-Satoh, S. Yoshikawa, R.	NAOJ Tsukuba Univ. Nobeyama ASIAA, Taiwan Univ. of Tokyo	Water maser tomography through molecular torus of NGC 1052		0.7, 1, 2, 4	10	4.0
BL123	Lister, M. Aller, H. Aller, M.F. Arshakian, T. Homan, D. Kadler, M. Kellermann, K. Kovalev, Y. Lobanov, A. Ros, E. Vermeulen, R. Zensus, J.A.	Purdue Univ. Michigan Univ. Michigan MPIR, Bonn Purdue MPIR, Bonn NRAO-CV NRAO-CV MPIR, Bonn MPIR, Bonn ASTRON MPIR, Bonn	MOJAVE Program		2	22	24.0
BL128	Loinard, L. Mioduszewski, A. Rodriguez, L. Torres, R.	UNAM NRAO-Socorro UNAM UNAM	Distance to Taurus and Ophiuchus		4	2,5,9,18	16.0

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BL136	Loinard, L. Mioduszewski, A. Rodriguez, L. Torres, R.	UNAM NRAO-Socorro UNAM UNAM	Precise distance to Taurus star-forming regions		4	24, 28	18.0
BL138	Laurini, L. Beuther, H. Menten, K. Moscadelli, L.	MPIR, Bonn CfA MPIR, Bonn Cagliari	Complementing thermal with H2O and CH3 OH maser observations		1	4,29	14.0
BM224	Ma, C-J. Gordon, D. Johnston, K. Fey, A. Vandenberg, N. Gipson, J. Boboltz, D. Kingham, K. MacMillan, D. Petrov, L. Fomalont, E. Walker, R.C.	NASA-GSFC Raytheon-GSFC USNO USNO NVI-GSFC NVI-GSFC USNO USNO NVI-GSFC NASA-GSFC NRAO-CV NRAO-Socorro	Geodesy/astrometry observations for 2005		3.6 With GcGgHhNtOn TcUrValWfWz	14 Scheduled as RDV54	25.0
BM229	Marscher, A. Aller, J.F. D'Arcangelo, F. Jorstad, S. McHardy, I.	Boston Michigan Boston Boston Southampton	Probing compact jets through multi-waveband variability		0.7	21	16.0
BM235	Moellenbrock, G. Beasley, A.J. Claussen, M. Goss, W.M.	NRAO-Socorro NRAO-ALMA NRAO-Socorro NRAO-Socorro	Parallax and proper motions of galactic water masers		1	19	4.0
BM238	Momjian, E. Carilli, C. Walter, F. Riechers, D.	Arecibo NRAO-Socorro MPIA MPIA	Imaging the FIR-luminous QSO BRI 1335-0417 at redshift 4.4		18 With GB, Y27	31	7.25
BP123	Perlman, E. Landt, H. Padovani, P. Rector, R. Stoeckle, J.	Maryland CfA ESO Univ. Alaska CASA	Jet speeds for a new population of radio quasars		6	14,15,19	24.0
BR099	Aller, H.D. Aller, M. Kadler, M. Kerp, J. Kovalev, Y. Marscher, A. Weaver, K. Zensus, J.A.	Univ. Michigan Univ. Michigan MPIR, Bonn Univ. Bonn NRAO-GB Boston NASA-GSFC MPIR, Bonn	NGC 1052, the Key to explore the disk-jet connection in AGN		0.7, 1	18	6.0
BR100	Reid, M. Greenhill, L. Menten, K. Moscadelli, L. Xu, Y. Zheng, X.W.	CfA CfA MPIR, Bonn Cagliari Nanjing University Nanjing Univ.	Spiral structure and kinematics of Milky Way		2	1	10.0
BR110	Rector, T. Fassnacht, C. Taylor, G. Wrobel, J.	Univ. Alaska Calif., Davis UNM NRAO-Socorro	Faint radio sources in NDWFS Cetus Field		6	13	6.50
BS142	Sarma, A. Claussen, M. Troiland, T.	Kentucky NRAO-Socorro Kentucky	VLBA Phase referenced Zeeman effect obs. of H2O masers in W3 IRS5		1	11,16	24.0
BS157	Savolainen, T. Pain, E. Rastorgueva, E. Valtaoja, E. Wiik, K.	Tuorla Obs. INAF Tuorla Obs. Tuorla Obs. Tuorla Obs.	Triggered polarimetric monitoring of a blazar in outburst		0.3, 0.7, 1, 2,6	4	10.0
BW083	Winn, J.N. Haarsma, D.B. Shapiro, I.I. Lehar, J.	CfA Calvin College CfA CombinatoRx	Spectrum of the central component of lens Q0957+561		1.3, 18 With GB, Y27	30	4.0
BW085	Winn, J.N. Keeton, C.	CfA Rutgers Univ.	Search for additional images in Quintuple Quasar		3.6 With GB, Y27	30	6.0
	Staff	NRAO	Maintenance				59.0

Based on Actual Hours Observed

The average downtime was 31.1 hours (8.4%)

Actual observing time was 339.4 hours

The VLBA was scheduled 77.0% of the time 548.4 hours of a possible 708 hours

Astronomical Observations	=	52.0%	(370.5 hours)
Tests and Calibrations	=	20.0%	(142.9 hours)
Maintenance	=	5.0%	(35.0 hours)

Based on Scaled Observing Hours

Number of hours of observing possible = 708 hours

Number of scaled hours of astronomical observations = 488.6 hrs

Downtime = 8.4% (41.0 hours)

Actual observing = 448.6 hours

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Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB192	Boboltz, D. Driebe, T. Ohnaka, K. Wittkowski, M.	USNO MPIfR MPIfR ESO	Return to S Ori with the VLBA and VLT1		0.7	5	5.0
BB215	Bartkiewicz, A. Szymczak, M. van Langevelde, H.	Torun Torun JIVE	Nature of methanol maser ring around a young massive star		2	10	10.0
BC152	Claussen, M. Marvel, K. Simpson, C. Wilking, B. Wootten, H.A.	NRAO-Socorro AAS Wellesley UMSL NRAO-CV	Parallax and proper motions of water masers in Ophiuchi molecular cloud complex		1	1,12,17	15.0
BD110	Dougherty, S. Blomme, R. Rauw, G. Runacres, M. VanLooy, S.	DRAO Royal Obs. Belgium Univ. Liege Univ. Brussel Royal Obs. Belgium	Wind collision region in O star Cyg OB2 No. 9?		4,6,20	9	12.25
BD111	Dougherty, S. Pittard, J. O'Connor, E. Williams, P.M.	DRAO Leeds UPEI Edinburgh	Astrometry of wind-collision region in binary WR146		4, 6	26	11.9
BG157	deGregorio-Monsalvo Gomez, J.F. Patel, M.	LAEFF LAEFF Cfa	Study of a precessing jet in intermediate mass bok globule CB3		1	4	7.0
BH127	Hough, D.H.	Trinity Univ.	Innermost jet structure in nuclei of lobe-dominated quasars 3C207 and 3C245		1,2,4	11	5.50
BH133	Homan, D. Aller, H.D. Aller, M.F. Lister, M. Wardle, J.	Denison Univ. Univ. Michigan Univ. Michigan Purdue Brandeis Univ.	Detailed spectra of parsec-scale circular polarization		1,2,4	17	72.0
BK128	Kovalev, Y.Y.	NRAO-GB	Unusual GPS quasar 0858-289		1,2,4,6,13,20	26	6.50
BL123	Lister, M. Aller, H.D. Aller, M.F. Arshakian, T. Homan, D. Kadler, M. Kellermann, K. Kovalev, Y.Y. Lobanov, A. Ros, E. Vermeulen, R. Zensus, J.A.	Purdue Univ. Michigan Univ. Michigan MPIfR Denison Univ. MPIfR NRAO-CV NRAO-GB MPIfR MPIfR ASTRON MPIfR	MOJAVE Program		2	7	24.0
BL128	Loinard, L. Mioduszewski, A. Rodriguez, L. Torres, R.	UNAM NRAO-Socorro UNAM UNAM	Distance to Taurus and Ophiuchus		2,4	15,16	12.0
BL130	Lenc, E. Tingay, S.	Swinburne Swinburne	High resolution investigation of powerful hotspot in nearby radio galaxy		13, 20	20	10.0
BM229	Marscher, A. Aller, M.F. D'Arcangelo, F. Jorstad, S. McHardy, I.	Boston Univ. Univ. Michigan Boston Univ. Boston Univ. Univ. Southampton	Probing compact jets through multi-waveband variability		0.7	14,20	24.0
BM230	Marscher, A. McHardy, I. Aller, M.F. Jorstad, S. Wannawichian, S.	Boston Univ. Southampton Univ. Michigan Boston Boston	Relation between the X-ray State and Energy flow into jets of radio galaxies		0.7	1, 28	20.0
BM232	Marvel, K. Boboltz, D.	AAS USNO	Measuring proper motions of H2O masers toward OH12.8-0.9		1	2	5.0
BM235	Moellenbrock, G. Beasley, A.J. Claussen, M. Goss, W.M.	NRAO-Socorro NRAO-ALMA NRAO-Socorro NRAO-Socorro	Parallax and proper motions of galactic water masers		1	24	4.0
BM240	Marscher, A.P. Jorstad, S.G. D'Arcangelo, F. Gear, W.K. Hagen-Thorn, V. Smith, P. Larionov, V.	Boston Univ. Boston Univ. Boston Univ. Cardiff St. Petersburg State Arizona Sobolev Astro. Inst.	Blazar monitoring during a ten day submm/ir/optical campaign		0.7	1	16.0

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Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BO022	Ohnaka, K. Boboltz, D. Driebe, T. Murakawa, K. Wittkowski, M.	MPIfR USNO MPIfR MPIfR ESO	Solve the silicate carbon star puzzle		1	5,9	9.75
BR099	Ros, E. Aller, H.D. Aller, M. Kadler, M. Kerp, J. Kovalev, Y.Y. Marscher, A.P. Weaver, K.A. Zensus, J.A.	MPIfR Univ. Michigan Univ. Michigan MPIfR Univ. Bonn NRAO-GB Boston Univ. NASA-GSFC MPIfR	NGC 1052, Key to explore the disk-jet connection in AGN		0.7, 1	13	6.0
BR110	Rector, T. Fassnacht, C. Taylor, G. Wrobel, J.	Univ. Alaska Calif., Davis UNM NRAO-Socorro	Faint radio sources in NDWFS Cetus Field		6	29	6.75
BS150	Savolainen, T. Rastorgueva, E. Takalo, L. Valtaoja, E. Valtonen, M. Wiik, K.	Tuorla Obs. Tuorla Obs. Tuorla Obs. Tuorla Obs. Tuorla Obs.	Multi-frequency polarimetric monitoring of next predicted outburst in OJ287		0.3, 0.7, 1,2,4	14	8.0
BS161	Szymczak, M. Bartkiewicz, A. Diamond, P. Gerard, E.	Torun Centre Torun Centre Manchester Obs. de Paris	Polarized OH outburst in a proto-planetary nebulae		20	13	12.0
BT075	Tarchi, A. Brunthaler, A. Henkel, C. Menten, K. Moscadelli, L. Chiaberge, M.	IRA-Bologna JIVE MPIfR MPIfR Cagliari IRA-Bologna	Water megamaser in an FR II galaxy, 3C 403		1.3 With GB, Y27	25,26	11.5
BT079	vanderTak, F. Hachisuka, K. Menten, K.	MPIfR MPIfR MPIfR	Proper motions of H ₂ O masers in AFGL 2136		1	23	1.90
BV058	Vlemmings, W.H.T. Diamond, P.	Manchester Manchester	Magnetic fields in proto-stellar environment measured using H ₂ O masers		1	21	16.0
BW083	Winn, J.N. Haarsma, D.B. Shapiro, I.I. Lehar, J.	CfA Calvin College CfA CombinatorX	Spectrum of the central component of lens Q0957+561		1.3 With GB, Y27	23	11.75
GB055	Bondi, M. Carilli, C. Perez-Torres, M.A. Taylor, G.B.	Bologna NRAO-Socorro IAA NRAO-Socorro	Structure and spectral indices in the ULIRG Mrk 273		18 For correlation at JIVE	4	11.0
GB057	Briskin, W. Coles, W. Macquart, J-P. Rickett, B. Tingay, S.J. West, C.	NRAO-Socorro Calif.-San Diego NRAO-Socorro Calif.-San Diego Swinburne Univ. Swinburne Univ.	Resolving scintillation arcs of two pulsars	G	90 WB, JB, AR, GB only	12	6.0
GL028	Lonsdale, C.J. Diamond, P.J. Lonsdale, C.J. Smith, H.E.	Haystack Jodrell Bank Caltech-IPAC Calif.-San Diego	Survey for radio supernovae in ULIRGs	G	18 for correlation at Haystack	1	2.5
GM057	Marcaide, J.M. Marti-Vidal, I. Guirado, J.C. Alberdi, A. Perez-Torres, M.A. Lara, L. Ros, E. Diamond, P.J. Shapiro, I.I. Preston, R. Schilizzi, R.T. Mantovani, F. Trigilio, C. VanDyk, S.D. Weiler, K. Sramek, R. Whitney, A.R.	Valencia Valencia Valencia IAA IAA Granada MPIfR Jodrell Bank CfA JPL SKA Bologna Noto IPAC NRL NRAO-Socorro Haystack	Monitoring the expansion of SN 1993J at 6 and 18 cm		18 With EbwBjB0nMc NtTrRo	6	12.0

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Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
GV017	Kanekar, N. Vermeulen, R.C. Chengalur, J. Ghosh, T.	NRAO-Socorro NFRA TIFR Arecibo	OH absorption and emission at z~0.25 toward PKS 1413+135		18 With EbWbJbOnMcAr	3	20.0
GW017	Wucknitz, O. Garrett, M.A. Porcas, R. Mittal, R. Koopmans, L. Biggs, A.	JIVE JIVE MPIfR MPIfR Groningen JIVE	Structure of gravitational lens B0218+357 at 90 and 50 cm		90 For correlation at JIVE	11	14.0
	Staff	NRAO	Maintenance				92.0

Based on Actual Hours Observed

The average downtime was 26.4 hours (6.6%)

Actual observing time was 374.4 hours

The VLBA was scheduled 77.0% of the time 532.8 hours of a possible 696 hours

Astronomical Observations = 58.0% (400.8 hours)
 Tests and Calibrations = 10.0% (68.0 hours)
 Maintenance = 9.0% (64.0 hours)

 Based on Scaled Observing Hours

Number of hours of observing possible = 696 hours

Number of scaled hours of astronomical observations = 480.8 hrs

Downtime = 6.6% (31.7 hours)

Actual observing = 449.1 hours

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Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BC147	Cotton, W.D. Danchi, W. Lacasse, M. Ragland, S. Schloerb, F.P. Townes, C.H. Traub, W.	NRAO-Socorro NASA CfA CfA UMass Calif., Berkeley CfA	Obs. of Miras with photospheric asymmetries		0.7	8, 23	20.0
BC152	Claussen, M. Marvel, K. Simpson, C. Wilking, B. Wootten, H.A.	NRAO-Socorro AAS Wellesley UMSL NRAO-CV	Parallax and proper motions of water masers		1	13	5.0
BC156	Claussen, M. Bond, H. Gehrz, R. Healy, K. Starrfield, S. Woodward, C.	NRAO-Socorro STSci Univ. Minnesota ASU ASU Univ. Minnesota	Obs. of SiO masers in V838 Monocerotis		0.7	18	8.0
BD105	Dhawan, V. Fomalont, E. Lestrade, J.-F. Mioduszewski, A. Rupen, M.	NRAO-Socorro NRAO-CV Paris NRAO-Socorro NRAO-Socorro	Astrometry of X-ray binaries		2, 4	19	5.50
BD108	Dodson, R. Alcolea, J. Bujarrabal, V. Colomer, F. Rioja, M.J. Soria-Ruiz, R.	ISAS OAN OAN OAN OAN OAN	Frequency phase transfer astrometry to align AGB star maser images		0.3, 0.7	2	11.50
BD109	Dougherty, S. Pittard, J. O'Connor, E. Beasley, A.J. Claussen, M.J.	DRAO Leeds UPEI NRAO-Santiago NRAO-Socorro	Structural monitoring of colliding-wind binary WR140		0.7, 1.3, 2, 3.6, 6, 18 With Y1	2	12.0
BF080	Fomalont, E. Kopeikin, S.M. Lanyi, G.	NRAO-CV Missouri JPL	Measuring Solar gravitational deflection		0.7, 1.3	1, 5, 6, 7, 9, 10, 11, 18	60.0
BG157	deGregorio-Monsalvo Gomez, J.F. Patel, N.	LAEFF LAEFF CfA	Study of precessing jet in intermediate mass Bok globule CB3		1	2	7.0
BH035	Harris, D.E. Cheung, C. Junor, W.	SAO MIT LANL	Flare decay of known 'HST-1' in the M87 Jet		20	27	8.0
BL123	Lister, M. Aller, H.D. Aller, M.F. Arshakian, T. Homan, D. Kadler, M. Kellermann, K. Kovalev, Y.Y. Lobanov, A. Ros, E. Zensus, J.A.	Purdue Univ. Michigan Univ. Michigan MPIfR Denison MPIfR NRAO-CV NRAO-CV MPIfR MPIfR MPIfR	MOJAVE Program		2	29	24.0
BL138	Laurini, S. Beuther, H. Menten, K. Moscadelli, L.	MPIfR CfA MPIfR Cagliari	Complementing thermal with H ₂ O and CH ₃ OH maser obs. in massive YSO IRAS 05358+3543		1	30	7.25
BM227	Moscadelli, L. Cesaroni, R. Rioja, M.J.	Cagliari Arcetri OAN	Ejection and deceleration of the H ₂ O masers in high mass protostar IRAS 20126+4104		1	1	8.25
BM229	Marscher, A. Aller, M.F. D'Arcangelo, F. Jorstad, S. McHardy, I.	Boston Univ. Michigan Boston Boston Southampton	Probing compact jets through multi-waveband variability		0.7	6	8.0
BM230	Marscher, A. Aller, M.F. Jorstad, S. McHardy, I. Wannawichian, S.	Boston Univ. Michigan Boston Southampton Boston	Relation between the X-ray state and energy flow into jets of radio galaxies		0.7	9	10.0

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BM240	Marscher, A.P. Jorstad, S.G. D'Arcangelo, F. Gear, W.K. Hagen-Thorn, V. Smith, P. Larionov, V.	Boston Univ. Boston Univ. Boston Univ. Cardiff St. Petersburg State Arizona Sobolev Astro. Inst.	Blazar monitoring during a ten day submm/ir/optical campaign		0.7	23, 27	32.0
B0022	Ohnaka, K. Boboltz, D. DRiebe, T. Murakawa, K. Wittkowski, M.	MPIfR USNO MPIfR MPIfR ESO	Solve the silicate carbon star puzzle		1	31	13.25
BR099	Ros, E. Aller, H.D. Aller, M. Kadler, M. Kerp, J. Kovalev, Y.Y. Marscher, A. Weaver, K. Zensus, J.A.	MPIfR Univ. Michigan Univ. Michigan MPIfR Univ. Bonn NRAO-GB Boston GSFC MPIfR	NGC 1052, Key to explore the disk-jet connection in AGN		1, 0.7	7	6.0
BR100	Reid, M. Greenhill, L. Menten, K. Moscadelli, L. Xu, Y. Zheng, X.W.	Cfa Cfa MPIfR Cagliari Nanjing Nanjing	Spiral structure and kinematics of the Milky Way		2	8,13,20,28	50.0
BR106	Reid, M. Menten, K.	Cfa MPIfR	Enigmatic star VY Cma		0.7	20	8.25
BV058	Vlemmings, W.H.T. Diamond, P.J.	Manchester Manchester	Magnetic fields in the proto-stellar environment measured using H2O masers		1	12	8.0
GA022	Agudo, I. Krichbaum, T.P. Gomez, J-L. Bach, U. Bremer, M. Witzel, A. Zensus, J.A.	IAA MPIfR IEEC-Barcelona Torino Bristol MPIfR MPIfR	Polarimetric monitoring of NRAO 150		0.3 Correlated at Bonn	15	13.0
GB052	Bartel, N. Bietenholz, M.F. Rupen, M.	York U. York U. NRAO-Socorro	Shell and central source of SN 1986J		6, 18 With EbWbJbOnMc NtTr	24	12.0
GB055	Bondi, M. Carilli, C. Perez-Torres, M.A. Taylor, G.B.	Bologna NRAO-Socorro IAA NRAO-Socorro	Structure and spectral indices in the ULIRG Mrk 273		6, 18 Correlated at JIVE	21	11.25
GC024	Colomer, F. Soria-Ruiz, R. Bujarrabal, V. Alcolea, J. Desmurs, J.F.	OAN OAN OAN OAN OAN	Distribution of SiO masers in AGB stars		0.3 Correlated at Bonn	17	13.3
GG061	Giovannini, G. Chiaberge, M. Feretti, L. Dallacasa, D. Giroletti, M. Perez-Torres, M.A. Cotton, W.D. Lara, L.	Bologna IRA-Bologna Bologna Bologna Bologna IAA NRAO-CV Granada	Structure of NGC 315 and MKN 501 at 86 GHz		0.3 Correlated at Bonn	14	14.0
GK032	Krichbaum, T.P. Bach, U. Alef, W. Witzel, A. Zensus, J.A.	MPIfR Torino MPIfR MPIfR MPIfR	Monitoring Cygnus A		0.3 Correlated at Bonn	16	14.8
GK033	Krichbaum, T.P. Graham, D. Alef, W. Witzel, A. Zensus, J.A. Bremer, M. Grewing, M.	MPIfR MPIfR MPIfR MPIfR MPIfR Bristol IRAM	Structural monitoring of M87		0.3 Correlated at Bonn	15	12.0
GL028	Lonsdale, C.J. Diamond, P.J. Lonsdale, C.J. Smith, H.E.	Haystack Jodrell Bank Caltech-IPAC Calif.-San Diego	Survey for radio supernovae in ULIRGs		18 Correlated at Haystack	30, 31, 31, 31	9.0

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GM056	Mittal, R. Porcas, R. Browne, I.W.A. Biggs, A.	MPIfR MPIfR Jodrell Bank JIVE	3mm observations of gravitational lens B0218+357		0.3 Correlated at Bonn	14	13.0
GM057	Marcaide, J.M. Marti-Vidal, I. Guirado, J.C. Alberdi, A. Perez-Torres, M.A. Lara, L. Ros, E. Diamond, P.J. Shapiro, I.I. Preston, R. Schilizzi, R.T. Mantovani, F. Trigilio, C. VanDyk, S.D. Weiler, K. Sramek, R. Whitney, A.R.	Valencia Valencia Valencia IAA IAA Granada MPIfR Jodrell Bank CfA JPL SKA Bologna Noto IPAC NRL NRAO-Socorro Haystack	Monitoring the expansion of SN 1993J at 6 and 18 cm		6, 18 With EbWbJb0nMc NtTr-GbY27	22	12.0
GP041	Pageis, A. Krichbaum, T. Witzel, A. Zensus, J.A.	MPIfR MPIfR MPIfR MPIfR	Structural monitoring of 3C84 at 3mm		0.3 Correlated at Bonn	14	13.4
GR026	Rastorgueva, E.A. Wiik, K. Savolainen, T. Takalo, L. Krichbaum, T.P.	Tuorla Tuorla Tuorla Tuorla MPIfR	Monitoring the next predicted outburst in OJ287 at 86 GHz		0.3 Correlated at Bonn	17	13.0
	Staff	NRAO	Maintenance				103.0

Based on Actual Hours Observed

The average downtime was 40.3 hours (9%)

Actual observing time was 407.45 hours

The VLBA was scheduled 83.0% of the time 619.15 hours of a possible
720 hours

Astronomical Observations = 60.0% (447.75 hours)
 Tests and Calibrations = 12.7% (94.40 hours)
 Maintenance = 10.3% (77.00 hours)

 Based on Scaled Observing Hours

Number of hours of observing possible = 744 hours

Number of scaled hours of astronomical observations = 544.5 hrs

Downtime = 9% (49.0 hours)

Actual observing = 495.5 hours

VLBA Utilization Report September 2005

Prog#	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB203	Barvainis, R. Ulvestad, J.S. Birkinshaw, M. Lehar, J.	NSF NRAO-Socorro Bristol CombinatoRx	Structure of radio-quiet quasars		6 With EB, GB, AR, Y27	4, 9	7.0
BB213	Brisken, W. Romani, R.	NRAO-Socorro Stanford	Pulsar J0538+2817: Four more epochs		20	4	2.0
BC152	Wootten, H. Marvel, K. Simpson, C. Wilking, B.	NRAO-Socorro AAS Wellesley UMSL	Parallax and proper motions of water masers		1	12, 25	10.0
BE042	Edwards, P. Falcone, A. Piner, B.	ISAS Whipple Obs. Whittier	Structure and evolution of high peaked FSRQs		4, 13	8	2.50
BF086	Fish, V.	NRAO-Socorro	Resolving Zeeman splitting question for 1720 and 1612 MHz		20	20	4.75
BG152	Gabuzda, D. Rastorgueva, E.A. Smith, P.	Cork Tuorla Arizona	Simultaneous radio and optical polarimetry of AGN jets		0.7, 1.3, 2	29	26.0
BG160	Giovannini, G. Feretti, L. Giroletti, M. Taylor, G.	IRA IRA Dip. di Astronomia NRAO-Socorro	VLBA Obs. of Giant Superluminal source 1144+35		20, 6, 4	22	12.0
BH127	Hough, D.H.	Trinity	Innermost jet structure in nuclei of lobe-dominated quasars		1,2,4	14	5.50
BK125	Kharb, P. Gabuzda, D. Shastri, P. D'Dea, C. Baum, S.	Rochester Cork IIA Rochester Rochester	Polarimetric imaging of jets in FR I radio galaxies		2, 3.6, 6 With EB	10	24.0
BL123	Lister, M. Aller, H.D. Aller, M.F. Arshakian, T. Homan, D. Kadler, M. Kellermann, K. Kovalev, Y. Lobanov, A. Ros, E. Vermeulen, R. Zensus, J.A.	Purdue Michigan Michigan MPIR Denison MPIR NRAO-CV NRAO-CV MPIR MPIR ASTRON MPIR	NOJAVE Program		2	5,16,19,23	96.0
BL128	Loiuard, L. Mioduszewski, A. Rodriguez, L. Torres, R.M.	UNAM NRAO-Socorro UNAM UNAM	Distance to Taurus and Ophiuchus		4	1,3,4,7	32.0
BL136	Loiuard, L. Mioduszewski, A. Rodriguez, L. Torres, R.A.	UNAM NRAO-Socorro UNAM UNAM	Precise distance to Taurus star forming region		4	18, 23	18.0
BM224	Ma, C-J. Gordon, D. Johnston, K. Fey, A. Vandenberg, N. Gipson, J. Boboltz, D. Kingham, K. MacMillan, D. Petrov, L. Fomalont, E. Walker, R.C.	NASA-GSFC Raytheon-GSFC USNO USNO NVI-GSFC NVI-GSFC USNO USNO NVI-GSFC NASA-GSFC NRAO-CV NRAO-Socorro	Geodesy/astrometry observations for 2005		3.6 With ApGcGgKkSh TcUrVaWfWz	28	10.0
BM227	Moscadelli, L. Cesaroni, R. Rioja, M.J.	Cagliari Arcetri OAN, Spain	Ejection and deceleration of H2O masers		1	20	11.25
BM230	Marscher, A.P. Aller, M.F. Jorstad, S. McHardy, I. Wannawichian, S.	Boston Michigan Boston Southampton Boston	Relation between X-ray state and energy flow into jets of radio galaxies		7	15	10.0
BM231	Mioduszewski, A.J. Hynes, R.I. Rupen, M. Dhawan, V.	NRAO-Socorro Texas-Austin NRAO-Socorro NRAO-Socorro	Imaging the quiescent black hole candidate V404 Cyg		3.6 With Y27	15	10.0

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Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BM234	Menten, K. Reid, M.	MPIR CfA	Parallax and proper motion of Orion X-ray stars		4	25	10.0
BP112	Piner, B. Edwards, P. Wiik, K.	Whittier ISAS ISAS	Decelerating jets of Mkn 421		.3, .7	2	8.25
BR100	Reid, M. Greenhill, L. Menten, K. Moscadelli, L. Xu, Y. Zheng, X.	CfA CfA MPIR Cagliari Nanjing Nanjing	Spiral structure and kinematics of Milky Way		2	9	10.0
BS157	Savolainen, T. Pian, E. Rastorgueva, E. Valtaoja, E. Wiik, K.	Tuorla INAF Tuorla Tuorla Tuorla	Triggered polarimetric monitoring of a blazar in outburst		.3, .7, 1, 2, 4, 6	1	10.0
BT079	vanderTak, F. Hachisuka, K. Menten, K.	MPIR MPIR MPIR	Proper motions of H2O masers in AFGL 2136		1	19	2.0
RDV053	Gordon, D. Staff	GSFC NRAO	Geodesy/Astrometry Observation Maintenance		4, 13	28	24.0 219.0

Based on Actual Hours Observed

The average downtime was 19.3 hours (5.8%)

Actual observing time was 313.7 hours

The VLBA was scheduled 74.0% of the time 536.7 hours of a possible 720 hours

Astronomical Observations = 46.0% (333.2 hours)
 Tests and Calibrations = 18.0% (132.0 hours)
 Maintenance = 10.0% (71.5 hours)

 Based on Scaled Observing Hours

Number of hours of observing possible = 720 hours

Number of scaled hours of astronomical observations = 446.6 hrs

Downtime = 5.8% (25.9 hours)

Actual observing = 420.7 hours

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Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB202	Bower, G.C. Anderson, J.	Calif.-Berkeley Rice Univ.	Trigonometric parallax of a star in the Pleiades cluster		3.6 With GB	5	8.0
BB203	Barvainis, R. Ulvestad, J.S. Birkinshaw, M. Lehar, J.	NSF NRAO-Socorro Bristol CombinatoRX	Structure of radio-quiet quasars		6 With AR, EB, GB, Y27	19	6.0
BB208	Barvainis, R. Antonucci, R. Ulvestad, J.S.	NSF Calif.-Santa Barbara NRAO-Socorro	Imaging a water maser at z=0.66		2 With EB, GB	28	6.0
BB209	Boyce, E. Hewitt, J. Myers, S.T.	MIT/NRAO MIT NRAO-Socorro	Observations of gravitational lens central images		3.6, 6 With GB, AR, Y27	19	2.5
BC151	Cotter, G. Bolton, R. Chandler, C. Lee, D. Pearson, T. Pooley, G. Readhead, T. Riley, J. Waldram, E.	Oxford Cambridge NRAO-Socorro Oxford Caltech Cambridge Caltech Cambridge Cambridge	Compact radio sources selected at 15 GHz		6	4	9.0
BC152	Claussen, M. Marvel, K. Simpson, C.M. Wilking, B. Wootten, H.	NRAO-Socorro AAS Wellesley UMSL NRAO-CV	Parallax and proper motions of water masers in Ophiuchi molecular cloud complex		1	2,15,29	15.00
BE041	Edwards, P.G. Tingay, S.	ISAS Swinburne	Motions in the two-sided jets of the low z radio galaxy		2,4	29	6.0
BE042	Edwards, P. Falcone, A. Piner, B.G.	ISAS Whipple Obs. Whittier	Structure and evolution of high-peaked FSRQs		4,13	19,20	9.0
BJ059	Jonker, P.G. Chatterjee, S. Gaensler, B.M. Fender, R.P. Maccarone, T.J. Pooley, G.G.	Cfa Cornell Cfa Amsterdam Amsterdam Cambridge	Imaging the jet in the neutron star binary Ser X-1		6 With GB, AR, Y27	22	2.5
BL122	Lanyi, G. Boboltz, D. Charlot, P. Fey, A. Fomalont, E. Gordon, D. Ma, C. Romney, J. Sovers, O. Taylor, G. Ulvestad, J.	JPL USNO Bordeaux USNO NRAO-CV NASA NASA NRAO-CV Remote Sensing Analy UNM NRAO-CV	High precision K/Q-band astrometry		1,4,13	26	24.0
BL132	Lazio, T.J.W. Goss, M. Brogan, C.L. Stanimirovic, S. Faison, M.D.	NRL NRAO-Socorro Hawaii-IFA Calif.-Berkeley Yale	Search for HI opacity variations toward 3C 147		18 With GB, Y27	21	16.0
BM208	Krichbaum, T. Middelberg, E. Roy, A. Witzel, A. Zensus, J.A.	MPIfR MPIfR MPIfR MPIfR MPIfR	Proper motions in NGC3079		1,6	18	12.30
BM224	Ma, C-J. Gordon, D. Johnston, K. Fey, A. Vandenberg, N. Gipson, J. Boboltz, D. Kingham, K. MacMillan, D. Petrov, L. Fomalont, E. Walker, R.C.	NASA-GSFC Raytheon-GSFC USNO USNO NVI-GSFC NVI-GSFC USNO USNO NVI-GSFC NASA-GSFC NRAO-CV NRAO-Socorro	Geodesy/astrometry observations for 2005		3.6 With ApGcGgKkSh TcTsUrVaWf Wz	24 Scheduled as RDV52	25.0
BM225	McClintock, J. Dhawan, V. Remillard, R. Rupen, M.	Cfa NRAO-Socorro MIT NASA	Multi-wavelength study of a black hole X-ray Nova outburst		4, 13	23	3.0

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Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BM229	Marscher, A. Aller, M.F. D'Arcangelo, F. Jorstad, S. McHardy, I.	Boston U. Michigan Boston Boston U. Southampton	Probing compact jets through multi-waveband variability and polarization		7	27	16.0
BM230	Marscher, A. Aller, M. Jorstad, S. McHardy, I. Wannawichian, S.	Boston U. Michigan Boston U. Southampton Boston	Relation between the X-Ray state and energy flow into jets of radio galaxies		7	17	10.0
BM233	Mioduszewski, A.J. Hillwig, T. Marshall, H. Rupen, M.	NRAO-Socorro Valparaiso U. MIT NRAO-Socorro	Coordinated kinematic monitoring of SS 433		2, 3.6	9-24, 26	51.0
BP120	Piner, B.G. Edwards, P. Jones, D.	Whittier ISASS JPL	Kinematics of the 26c component in Blazar 0827+243		2	29	5.0
BR099	Aller, H.D. Aller, M. Kadler, M. Kerp, J. Kovalev, Y.Y. Marscher, A. Ros, E. Weaver, K. Zensus, J.A.	Univ. Michigan Univ. Michigan MPIfR Univ. Bonn NRAO-GB Boston MPIfR NASA MPIfR	NGC 1052, Key to explore the disk-jet connection in AGN		7,1	22	6.0
	Staff	NRAO	Maintenance				164.0

Based on Actual Hours Observed

The average downtime was 9.1 hours (3.9%)

Actual observing time was 244.2 hours

The VLBA was scheduled 73.0% of the time 541.4 hours of a possible
744 hours

Astronomical Observations = 31.0% (233.3 hours)
 Tests and Calibrations = 15.0% (198.3 hours)
 Maintenance = 27.0% (109.8 hours)

 Based on Scaled Observing Hours

Number of hours of observing possible = 744 hours

Number of scaled hours of astronomical observations = 316.8 hrs

Downtime = 3.9% (12.3 hours)

Actual observing = 304.5 hours

VLBA Utilization Report July 2005

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB191	Barvainis, R. Ulvestad, J.S. Birkinshaw, M. Lehar, J.	NSF NRAO-Socorro Bristol CombinatoRX	Radio-quiet quasars		6 With EB, GB, AR, Y27	22	5.5
BB210	Boboltz, D. Driebe, T. Ohnaka, K. Wittkowski, M.	USNO MPIR, Bonn MPIR, Bonn ESO	Coordinated VLBA/VLTI Obs. of AH Sco and RR Aql		0.7	15,19	10.0
BB211	Bower, G.C. Falcke, H. Markoff, S. Canizares, C. Jimenez-Garate, M.A	Calif.-Berkeley ASTRON MIT MIT MIT	Coordinated observations of the LLAGN M81*		1.3, 3.6 With EB	13	12.0
BC155	Claussen, M. Summer Students	NRAO-Socorro NRAO-Socorro	Summer Student Observatioans		6	12,19,20,2 2	4.0
BF084	Forbrich, J. Massi, M. Ros, E. Menten, K.	MPIfR MPIfR MPIfR MPIfR	Non-thermal emission from protostars		3.6 With GB, EB, AR, Y27	3, 29	7.0
BG156	Giroletti, M. Giovannini, G. Taylor, G.B.	Bologna Bologna NRAO-Socorro	Kinematics in the compact symmetric object 4C31.04		6 With Y1	22	8.0
BG158	Giovannini, G. Cotton, W.D. Feretti, L. Giroletti, M. Taylor, G.	IRA-Bologna NRAO-CV IRA-Bologna IRA-Bologna NRAO-Socorro	Unbiases sample of radio galaxies		6	2, 20	20.0
BH126	Harris, D. Cheung, C. Junor, B.	SAO Brandeis LANL	Ongoing outburst of Knot 'HST-1" in the M87 jet		90	29	8.25
BH127	Hough, D.	Trinity	Innermost jet structure in nuclei of lobe-dominated quasars 3C207 and 3C345		1,2,4	18	5.5
BK124	Kovalev, Y.Y. Fomalont, E. Gordon, D. Petrov, L.	NRAO-GB NRAO-CV NASA NVI	Completing the 200 mJy large VLBA sample of extragalactic sources		4,13	8,9,20	71.8
BL123	Lister, M. Aller, H. Aller, M.F. Arshakian, T. Homan, D. Kadler, M. Kadler, M. Kellermann, K. Kovalev, Y. Lovanov, A. Ros, E. Vermeulen, R. Zensus, J.	Purdue Univ. of Michigan Univ. Michigan MPIR, Bonn Denison MPIR, Bonn MPIR, Bonn NRAO-CV NRAO-GB MPIR, Bonn MPIR, Bonn ASTRON MPIR, Bonn	MOJAVE Program		2	24	24.0
BL124	Loinard, L. Mioduszewski, A. Rodriguez, L. Rodriguez, M. Torres, R.M.	UNAM NRAO_Socorro UNAM UNAM UNAM	Parralax and proper motions of young stellar sources in Taurus		4	4,8	15.0
BL127	Ly, C. DeYoung, D.	UCLA NOAO	Multi-frequency obs. of SDSS J1048+0055		2,4	25	12.0
BM223	Maccarone, T.J. Briskin, W. Miller-Jones, J. Jonker, P.G.	Univ. Amsterdam NRAO-Socorro Oxford CfA	Imaging faint sources toward the globular cluster M15		6 With GB, AR, Y27	24	2.0
BM229	Marscher, A. Aller, M.F. D'Arcangelo, F. Jorstad, S. McHardy, I.	Boston Michigan Boston Boston Southampton	Probing compact jets through multi-waveband variability and polarization		4	4,8	15.0
BM230	Marscher, A. Aller, M. Jorstad, S. McHardy, I. Wannawichian, S.	Boston Michigan Boston Southampton Boston	Relation between the X-ray state and energy flow into jets of radio galaxies		0.7	23	10.0
BM232	Marvel, K. Boboltz, D.	AAS USNO	Measuring the proper motions of the H2O masers toward OH 12.8-0.9		1	22	5.0
BN027	Nagar, N.	Kapteyn	Multiple supermassive black holes in merger systems		6	11	16.0

VLBA Utilization Report July 2005

Progrm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BP118	Petrov, L. Fomalont, E. Gordon, D. Kovalev, Y.	NASA NRAO-CV NASA NRAO-GB	VCS4: Filling last remaining holes in calibrator coverage		4,13	30	19.0
BP120	Piner, B.G. Edwards, P.G. Jones, D.	Whittier College ISAS JPL	Kinematics of 26 component in the blazar 0827+243		2	14	5.0
BR099	Ros, E. Aller, H.D. Aller, M. Kadler, M. Kerp, J. Kovalev, Y.Y. Marscher, A. Weaver, K.	MPIR, Bonn Univ. Michigan Univ. Michigan MPIR, Bonn Astron Inst. NRAO-GB Boston NASA	NGC 1052, the key to explore the disk jet connection in AGN		0.7, 1	18	6.0
BR100	Reid, M. Greenhill, L. Menten, K. Moscadelli, L. Xu, Y. Zheng, X-W.	Cfa Cfa MPIR, Bopnn Cagliari Nanjing Nanjing	Spiral structure and kinematics of the Milky Way		2	13	10.0
BR102	Ratner, M. Bartel, N. Bietenholz, M.F. Lebach, D.E. Lederman, J. Lestrade, J.-F. Ransom, R.R. Shapiro, I.I.	Cfa York U. York U. Cfa York University Meudon York U. Cfa	Astrometric monitoring of HR 8703 in 2005 for GPB mission		2, 3.6, 6 With GO, RO, TI, EB	16	17.0
BR107	Ramachandran, R. Deshpande, A. Goss, W.M.	Calif., Berkeley Arecibo NRAO-Socorro	Short time scale fluctuations in OH masers		20	7,11	30.0
BS144	Sudou, H. Iguchi, S. Takaba, H. Taniguchi, Y. Wakamatsu, K. Y., Murata	Gifu NAOJ Gifu Tohoku Gifu ISAS	Astrometric monitoring of the radio galaxy 3C 66B		1,4,13	15	10.3
BS157	Savolainen, T. Pian, E. Rastorgueva, E. Valtaoja, E. Wiik, K.	Tuorla Obs. INAF Tuorla Tuorla Obs. Tuorla Obs.	Triggered polarimetric monitoring of a blazar in outburst		0.3,0.7,1, 2,4,6	14	10.0
BT079	vanderTak, F. Hachisuka, K. Menten, K.	MPIR, Bonn MPIR, Bonn MPIR, Bonn	Proper motions of H2O masers in AFGL 2136		1	8	2.0
BU027	Ulvestad, J.S. Neff, S. Teng, S.	NRAO-Socorro NASA-GSFC Maryland	Monitoring young supernovae in Arp 299		3.6 With GB	17	10.0
BV055	Diamond, P. van Langevelde, H.	Manchester JIVE	Monitoring the magnetic field on water masers of U Ori		1	27	6.0
	Staff	NRAO	Maintenance				164.0

Based on Actual Hours Observed

The average downtime was 15.0 hours (4%)

Actual observing time was 362.35 hours

The VLBA was scheduled 78.0% of the time 576.75 hours of a possible 744 hours

Astronomical Observations	=	51.0%	(377.35 hours)
Tests and Calibrations	=	15.0%	(110.50 hours)
Maintenance	=	12.0%	(88.90 hours)

Based on Scaled Observing Hours

Number of hours of observing possible = 744 hours

Number of scaled hours of astronomical observations = 446.35 hrs

Downtime = 4% (17.9 hours)

Actual observing = 428.45 hours

VLBA Utilization Report June 2005

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB172	Brunthaler, A. Falcke, H. Greenhill, L. Henkel, C. Reid, M.	MPIfR MPIfR CfA MPIfR CfA	Proper motions in the local group		1	1,7,24,27	46.8
BB202	Bower, G.C. Anderson, J.	Calif.-Berkeley Rice Univ.	Trigonometric parallax of a star in the Pleiades cluster		3.6 with GB	4	8.0
BB209	Boyce, E. Hewitt, J. Myers, S.T.	MIT/NRAO MIT NRAO-Socorro	Observations of gravitational lens central images		3.6, 6 With GB, AR, Y27	10	3.0
BC151	Cotter, G. Bolton, R. Chandler, C. Lee, D. Pearson, T. Pooley, G. Readhead, T. Riley, J. Waldram, E.	Oxford Cambridge NRAO-Socorro Oxford Caltech Cambridge Caltech Cambridge Cambridge	Mapping of compact radio sources selected at 15 GHz		6	16,20,26	27.0
BD105	Dhawan, V. Fomalont, E. Lestrade, J.-F. Mioduszewski, A. Rupen, M.	NRAO-Socorro NRAO-CV Obs. de Paris NRAO-Socorro NRAO-Socorro	Astrometry of X-ray binaries		4	10,11	10.5
BD109	Dougherty, S. Pittard, J. O'Connor, E. Beasley, A.J. Claussen, M.J.	DRAO Leeds NRC/UPEI NRAO-Santiago NRAO-Socorro	Structural monitoring of colliding-wind binary WR140		0.7, 1.3, 2, 3.6, 6, 18 With Y1	17	12.0
BF080	Fomalont, E. Kopeikin, S. Lanyi, G.	NRAO-CV Univ. Missouri JPL	Solar gravitational deflection with accuracy		1,2,7	20	3.0
BG154	Greenhill, L. Michelson, P. Romani, R.	CfA Stanford University Stanford University	Jet proper motion and millimeter spectral index in high-z blazar Q0906-6930		3,7,2	25	12.8
BG158	Giovannini, G. Cotton, W.D. Feretti, L. Giroletti, M. Taylor, G.	Bologna NRAO-CV Bologna Bologna NRAO-Socorro	Observations of an unbiased sample of radio galaxies		6	17,22,27	30.0
BJ036	Jorstad, S. Marscher, A. Yurchanko, A.	Boston Boston St. Petersburg	BL Lac Objects with high proper motion		1,2,4,7	18	15.9
BL123	Lister, M. Aller, H. Aller, M.F. Arshakian, T. Homan, D. Kadler, M. Kellermann, K. Kovalev, Y. Lobanov, A. Ros, E. Vermeulen, R. Zensus, J.A.	Purdue Michigan Michigan MPIfR Denison MPIfR NRAO-CV NRAO-CV MPIfR MPIfR ASTRON MPIfR	MOJAVE Program		2	3,15	48.0
BL124	Loinard, L. Mioduszewski, A. Rodriguez, L. Rodriguez, M. Torres, R.	UNAM NRAO-Socorro UNAM UNAM UNAM	Parallax and proper motions of young stellar sources in Taurus		4	23	9.0
BL128	Loinard, L. Mioduszewski, A. Rodriguez, L. Torres, R.	UNAM NRAO-Socorro UNAM UNAM	Distance to Taurus from multi epoch observations		4	7,8,14,24	16.0
BL129	Liu, C. Fletcher, A. Gurvits, L. Jiang, D.	SHAO SHAO JIVE SHAO	Multi-frequency polarimetry of GPS Quasar Q0172		2,4,6,13,2 0	22	10.0
BM223	Maccarone, T.J. Brisken, W. Miller-Jones, J. Jonker, P.G.	Univ. Amsterdam NRAO-Socorro Oxford CfA	Imaging faint sources toward the globular cluster M15		6 With GB, AR, Y27	13	2.10

VLBA Utilization Report June 2005

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BM224	Ma, C-J. Gordon, D. Johnston, K. Fey, A. Vandenberg, N. Gipson, J. Boboltz, D. Kingham, K. MacMillan, D. Petrov, L. Fomalont, E. Walker, R.C.	NASA-GSFC Raytheon-GSFC USNO USNO NVI-GSFC NVI-GSFC USNO USNO NVI-GSFC NASA-GSFC NRAO-CV NRAO-Socorro	Geodesy/astrometry observations for 2005		3,6 With ApGcGgHhNt OnTcVaWfWz	29	24.5
BM229	Marscher, A. Aller, M.F. D'Arcangelo, F. Jorstad, S. McHardy, I.	Boston Michigan Boston Boston Southampton	Probing compact jets through multi-waveband variability		7	24	16.0
BM230	Marscher, A. Aller, M. Jorstad, S. McHardy, I. Wannichian, S.	Boston Michigan Boston Southampton Boston	Relation between X-ray state and energy flow into jets of radio galaxies		7	19	10.0
BP112	Piner, B.G. Edwards, P. Wiik, K.	Whittier College ISAS ISAS	Decelerating jets of Mkn 421 and Mkn 501		3,7	21	8.25
BP118	Petrov, L. Fomalont, E. Gordon, D. Kovalev, Y.	NASA NRAO-CV NASA NRAO-GB	VCS4: Filling last remaining holes in calibrator coverage		4,13	1,30	29.25
BR099	Ros, E. Aller, H.D. Aller, M. Kadler, M. Kerp, J. Kovalev, Y. Marscher, A. Weaver, K.	MPIfR Michigan Michigan MPIfR Univ. Bonn NRAO-GB Boston NASA	NGC1052, key to explore disk-jet connection with AGN		1,7	6	6.0
BT070	Taylor, G. Peck, A. Pollack, L.	NRAO-Socorro Cfa UCB	Investigating binary black hole system in 0402+379		4,90,1	13	10.7
BU026	Ulvestad, J. Gehrels, N. Macomb, D. Michelson, P. Romani, R.	NRAO-Socorro NASA Boise State Stanford University Stanford University	Multi-epoch imaging of recently identified EGRET blazars		2	5	23.75
BV055	Vlemmings, W. Diamond, P. vanLangevelde, H.	Cornell Manchester JIVE	Monitoring magnetic field on the water masers of U Ori		1	12	6.0
BW084	Winn, J.N. Rusin, D. Keeton, C.	Cfa Pennsylvania Rutgers Univ.	Search for central images in two gravitational lenses		6 With GB, AR, Y27	10	3.0
GB049	Bartel, N. Bietenholz, M.F. Beasley, A.J. Graham, D. Altunin, V. Venturi, T. Umana, G. Cannon, W. Conway, J.	York U. York U. NRAO-Santiago MPIfR JPL Bologna Noto York U. Onsala	SN1993J: structural and spectral evolution of shell		6, 18 With EB WB JB ON MC TR	11	12.0
	Staff	NRAO	Maintenance				98.0

Based on Actual Hours Observed

The average downtime was 14.1 hours (3.5%)

Actual observing time was 388.2 hours

The VLBA was scheduled 79.0% of the time 567.30 hours of a possible 720 hours

Astronomical Observations	=	56.0%	(402.30 hours)
Tests and Calibrations	=	13.0%	(95.00 hours)
Maintenance	=	10.0%	(70.00 hours)

Based on Scaled Observing Hours

The average downtime was 19.4 hours (3.5%)

Actual observing time was 535.0 hours

The VLBA was scheduled 100.00% of the time 719.4 hours of a possible 720 hours

Astronomical Observations	=	77.0%	(554.4 hours)
Tests and calibrations	=	13.0%	(95.0 hours)
Maintenance	=	10.0%	(70.0 hours)

VLBA Utilization Report May 2005

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BA053	Attridge, J. Homan, D. Phillips, R. Wardle, J.	Haystack Brandeis Haystack Brandeis	Linear polarization of five AGN with the VLBA		0.3, 0.7	22	10.0
BB182	Bach, U. Krichbaum, T. Middelberg, E. Witzel, A. Zensus, J.A.	MPIfR MPIfR MPIfR MPIfR MPIfR	Finding the nucleus in Cygnus A		1,2	7	11.70
BB204	Biggs, A. Porcas, R. Rusin, D.	JIVE MPIfR Pennsylvania	Jet structures in the six-image lens system CLASS B1359+154		18 with EB, AR, GB, Y27	29	12.0
BC147	Cotton, W.D. Danchi, W. Lacasse, M. Ragland, S. Schloerb, F. Townes, C. Traub, W.	NRAO-Socorro NASA CfA CfA Univ. Mass Univ. Calif., Berkel CfA	Obs. of Miras with Photospheric asymmetries		0.7	12	10.0
BD105	Dhawan, V. Fomalont, E. Lestrade, J-F. Mioduszewski, A. Rupen, M.	NRAO-Socorro NRAO-CV Obs. de Paris NRAO-Socorro NRAO-Socorro	Astrometry of X-ray binaries		2	25	5.0
BD106	Doe, A. Asada, K. Inoue, M. Kameno, S. Nagai, H. Wajima, K.	Univ. Tokyo NAOJ NAOJ NAOJ Tokyo Univ. Korea	Narrow line Seyfert 1 survey		20	9	8.0
BF085	Fish, V. Menten, K. Reid, M.	NRAO-Socorro MPIfR CfA	Proper motions of OH masers in young massive star-forming regions		20	15	11.00
BG154	Greenhill, L. Michelson, P. Romani, R.	CfA Stanford Stanford	Jet proper motion and millimeter spectral index in high-z blazar		2	15	2.30
BH107	Horiuchi, S. Kameya, O. Migenes, V.	JPL NAOJ Guanajuato	Highly polarized water masers in Orion KL		1	1	8.50
BH126	Harris, D.E. Cheung, C.C. Junor, W.	SAO Brandeis LANL	Ongoing outburst of Know 'HST-1' in the M87 jet		20	6,22	15.60
BH127	Hough, D.	Trinity	Inner most jet structure in the nuclei of lobe dominated quasars		1,2,4	9	5.50
BJ036	Jorstad, S. Marscher, A. Yurchenko, A.V.	Boston Boston St. Petersburg	BL Lac objects with high proper motion		0.7,1,2,4	4	16.0
BJ045	Junor, B.	LANL	Deep 3mm Obs. of Virgo A Core		0.3, 0.7	23	6.40
BK114	Kondratko, P.T. Greenhill, L.J. Moran, J. Reid, M.	Harvard CfA CfA CfA	Imaging three NGC 4258-like water megamasers		1.3 with EB, GB, Y27	7	14.50
BK119	Kemball, A.J. Diamond, P.J.	Univ. Illinois Jodrell Bank	SiO maser survey of Mira-like variables in Hipparcos catalog		0.7 with GB, Y27	2	6.0
BL123	Lister, M. Aller, H.D. Aller, M.F. Arshakian, T. Homan, D. Kadler, M. Kellermann, K. Kovalev, Y. Lobanov, A. Ros, E. Vermeulen, R. Zensus, J.A.	Purdue Michigan Michigan MPIfR Denison MPIfR NRAO-CV NRAO-CV MPIfR MPIfR ASTRON MPIfR	MOJAVE Program		2	13,26	48.00
BL124	Loinard, L. Mioduszewski, A. Rodriguez, L.F. Rodriguez, M. Torres, R.	UNAM NRAO-Socorro UNAM UNAM UNAM	Parallax and proper motions of young stellar sources in Taurus		4	9	6.0

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Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BM211	Marscher, A. Aller, M.F. Gomez, J.L. Jorstad, S. McHardy, I.	Boston U. Michigan IEEC Boston U. Southampton	Multi-frequency monitoring of the jets of selected blazars and radio galaxies		0.7,1	25	16.0
BN031	Nakashima, J. Kemball, A.J. Deguchi, S.	Illinois Univ. Illinois NAOJ-Nobeyama	Structure of SiO masers in IRAS 19312+1950		0.7 with GB, Y27	1	4.0
BN033	Nagai, H. Doi, A. Inoue, M. Kameno, S.	NAOJ NAOJ NAOJ NAOJ	VLBI Imaging of candidates for the youngest radio source		0.7,1,2	3,16	20.0
BP112	Piner, B.G. Edwards, P.G. Wiik, K.	Whittier College ISAS ISAS	Decelerating jets of Mkn 421 and Mkn 501		0.3,0.7	21	8.25
BP118	Petrov, L. Fomalont, E. Gordon, D. Kovalev, Y.Y.	NASA NRAO-CV NASA NRAO-GB	VCS4: Filling last remaining holes in calibrator coverage		0.4, 13	12	24.00
BP120	Piner, B.G. Edwards, P.G. Jones, D.	Whittier College ISAS JPL	Kinematics of 26c component in the blazar 0827+243		2	21	5.0
BR102	Ratner, M. Bartel, N. Bietenholz, M.F. Lebach, D.E. Lederman, J. Lestrade, J.-F. Ransom, R.R. Shapiro, I.I.	Cfa York U. York U. Cfa York University Meudon York U. Cfa	Astrometric monitoring of HR 8703 in 2005 for GPB mission		2, 3.6, 6 with EB, GO, RO, TI	28	17.0
BS144	Sudou, H. Iguchi, S. Murata, Y. Takaba, H. Taniguchi, Y. Wakamatsu, K.	Gifu Univ. NAOJ JAXA Gifu Univ. Tohoku Gifu Univ.	Astrometric monitoring of radio galaxy 3C 66B		0.4, 1,13	6	10.30
BS150	Savolainen, T. Rastorgueva, E. Takalo, L. Valtaoja, E. Valtonen, M. Wiik, K.	Tuorla Obs Tuorla Obs Tuorla Obs Tuorla Tuorla Obs Tuorla Obs	Multi-frequency polarimetric VLBA monitoring of the next predicted outburst in OJ287		0.3,0.7,1, 2,4	14	8.0
BS151	Soderberg, A. Chevalier, R. Frail, D. Kulkarni, S. Walker, R.C.	Caltech Univ. Virginia NRAO-Socorro Caltech NRAO-Socorro	Understanding the peculiar nature of SN 2003bg		2	5	5.0
BS157	Savolainen, T. Pian, E. Rastorgueva, E. Valtaoja, E. Wiik, K.	Tuorla Obs INAF Tuorla Obs Tuorla Obs Tuorla Obs	Triggered polarimetric monitoring of a blazar in outburst		0.3,0.7,1, 2,4,6	19	10.0
BW066	Wiik, K. Collmar, W. Savolainen, T. Valtaoja, E.	Tuorla Obs MPIE Tuorla Obs Tuorla Obs	Hard X-ray and multi-frequency properties of blazar 3C 279		0.7,1,2,4, 6	19	13.0
BW069	Wiik, K. Raiteri, C. Savolainen, T. Takalo, L. Villata, M.	Tuorla Obs Torino Tuorla Obs Tuorla Obs Torino	Multi-wavelength monitoring of a highly active blazar		0.3,0.7,1, 2,4,6	23	9.0
BW080	Wrobel, J. Ulvestad, J.S. Ho, L.	NRAO-Socorro NRAO-Socorro Carnegie Obs.	Radio emission from the candidate IMBH in NGC 4395		18 With GB, Y27	1	8.0
BY020	Yang, J. Liu, X. Shen, Z.-Q.	Urumqi Obs Urumqi Obs Shanghai Obs	Complementary multi-frequency VLBA survey for GPS sources		2,4,6,13,2 0	3	24.10
S60643	Brown, A. Ayres, T. Osten, R. Harper, G.M. Linsky, J.	Colorado Colorado NRAO-CV Colorado Colorado	Chandra/VLA/VLBA observations of binary Sigma Gem		3.6	16, 17	14.0
	Staff	NRAO	Maintenance				103.0

Based on Actual Hours Observed

The average downtime was 28.6 hours (7.3%)

Actual observing time was 363.55 hours

The VLBA was scheduled 79.0% of the time 569.25 hours of a possible 720 hours

Astronomical Observations	=	54.4%	(392.15 hours)
Tests and Calibrations	=	13.9%	(100.10 hours)
Maintenance	=	10.7%	(77.00 hours)

Based on Scaled Observing Hours

The average downtime was 37.0 hours (7.3%)

Actual observing time was 470.1 hours

The VLBA was scheduled 95.0% of the time 684.2 hours of a possible 720 hours

Astronomical Observations	=	70.4%	(507.1 hours)
Tests and calibrations	=	13.9%	(100.1 hours)
Maintenance	=	10.7%	(77.0 hours)

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Prog#	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BA071	Agudo, I. Alef, W. Bach, U. Bremer, M. Graham, D. Grewing, M. Krichbaum, T. Terasranta, H. Witzel, A. Zensus, J.A.	MPIR, Bonn MPIR, Bonn MPIR, Bonn IRAM MPIR, Bonn IRAM MPIR, Bonn Metsahovi MPIR, Bonn MPIR, Bonn	A moving helical jet?		0.7, 1,2	2	11.0
BB196	Bartel, N. Bietenholz, M.F. Rupen, M.	York U. York U. NRAO-Socorro	Central compact source in SN 1986J		1.3 With EB, GB, Y27	25	12.0
BB200	Brunthaler, A. Falcke, H. Greenhill, L. Henkel, C. Reid, M.	JIVE ASTRON CfA MPIR, Bonn CfA	Geometric distance to M33		1	7,9	23.40
BE037	Edwards, P. Chaty, S. Fomalont, E. Grenier, I.	ISAS CEA, Saclay NRAO-CV CEA, Saclay	Phase referencing observations of the nearby Seyfert		4,13	27	6.0
BF080	Fomalont, E. Kopeikin, S.M. Lanyi, G.	NRAO-CV Missouri JPL	Measuring Solar gravitational deflection: tests		0.7, 1.3, 2	3, 4	6.0
BF083	Forbrich, J. Massi, M. Ros, E. Menten, K.	MPIR MPIR MPIR MPIR	Structure of protostar YLW15-VLA2		3.6 With GB, Y27	30	4.0
BH126	Harris, D. Cheung, C.C. Junor, W.	SAO Brandeis LANL	Ongoing outburst of Knot 'HST-1' in the M87 Jet		90	19,26	16.00
BI030	Imai, H. Diamond, P.	Kagoshima Manchester	Evolution of a water fountain in W43A		1	6	10.0
BU050	Jin, C. Garrett, M. Nair, S. Nan, R. Porcas, R.	NAOC JIVE RRI NAOC MPIR, Bonn	3mm observations of gravitational lens system PKS 1830-211		0.3, 0.7	14	7.20
BK113	Kemball, A.J. Diamond, P.J.	Univ. Illinois Jodrell Bank	Monitoring SiO masers at 7mm and 3mm in two evolved stars		0.7 With Y1	23	6.0
BK114	Kondratko, P.T. Greenhill, L.J. Moran, J. Reid, M.	Harvard CfA CfA CfA	Imaging three NGC 4258-like water megamasers		1.3 with EB, GB, Y27	24	29.60
BL123	Lister, M. Aller, H.D. Aller, M.F. Arshakian, T. Homan, D. Kadler, M. Kellermann, K. Kovalev, Y. Ros, E. Vermeulen, R. Zensus, J.A.	Purdue Michigan Michigan MPIR, Bonn Purdue MPIR, Bonn MPIR, Bonn NRAO-CV NRAO-CV MPIR, Bonn ASTRON MPIR, Bonn	MOJAVE Program		2	21	24.0
BM208	Middelberg, E. Krichbaum, T. Roy, A. Witzel, A. Zensus, J.A.	MPIR, Bonn MPIR, Bonn MPIR, Bonn MPIR, Bonn MPIR, Bonn	Proper motions in NGC3079		1,6	4	12.0
BM209	Marcaide, J. Guirado, J. Perez-Torres, M. Ros, E.	Valencia Valencia IAA, Granada MPIR, Bonn	Multi-wavelength absolute kinematics in the S5 polar cap sample		0.7	8	23.70
BM211	Marscher, A. Aller, M.F. Gomez, J.L. Jorstad, S. McHardy, I.	Boston Michigan IAA, Granada Boston Southampton	Multi-frequency monitoring of jets of selected blazars and radio galaxies		1, 0.7	1,28	32.0
BM220	Mioduszewski, A. Rupen, M.	NRAO-Socorro NRAO-Socorro	CI Cam, six years later		20	10, 20	21.40

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Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BM224	Ma, C-J. Gordon, D. Johnston, K. Fey, A. Vandenberg, N. Gipson, J. Boboltz, D. Kingham, K. MacMillan, D. Petrov, L. Fomalont, E. Walker, R.C.	NASA-GSFC Raytheon-GSFC USNO USNO NVI-GSFC NVI-GSFC USNO USNO NVI-GSFC NASA-GSFC NRAO-CV NRAO-Socorro	Geodesy/astrometry observations for 2005		3.6 With ApGcGgHhNt OnTcVaWfWz	27 Scheduled as RDV50	25.0
BN032	Nakai, N. Yamauchi, A. Sato, N. Diamond, P.J.	Tsukuba Univ. NAOJ-Nobeyama NAOJ Jodrell Bank	Water masers in LINER galaxy IC 1481		1.3 with EB, GB, Y27	23	10
BO020	Orienti, M. Dallacasa, D.	Bologna Bologna	Multi-frequency observation of an extremely young radio sources		2,4,6,0.7, 20	4	9.90
BP120	Piner, B. Edwards, P. Jones, D.	Whittier College ISAS JPL	Kinematics of the 26c component in the Blazar 0827+243		2	7	5.0
BR099	Ros, E.	MPIR, Bonn	NGC 1052, key to explore the disk-jet		0.7, 1	22	6.0
BR104	Romani, R. Ros, E. Aller, H.D. Aller, M. Kadler, M. Kerp, J. Kovalev, Y.Y. Marscher, A. Weaver, K. Zensus, J.A.	Stanford MPIR, Bonn Michigan Michigan MPIR, Bonn Univ. Bonn NRAO-GB Boston Univ. GSFC MPIR, Bonn	Student Time		4	3	4.0
BS151	Soderberg, A. Chevalier, R. Frail, D. Kulkarni, S. Walker, R.C.	Caltech Virginia NRAO-Socorro Caltech NRAO-Socorro	Understanding peculiar nature of SN 2003bg		4	11	4.90
BT079	vanderTak, F. Hachisuka, K. Menten, K.	MPIR, Bonn MPIR, Bonn MPIR, Bonn	Proper motions of H2O masers in AFGL 2136		1	20	1.90
BV055	Vlemmings, W. Diamond, P. vanLangevelde, H.	Cornell Manchester JIVE	Monitoring the magnetic field on the water masers of U Ori		1	3	6.0
BW069	Wiik, K. Raiteri, C. Savolainen, T. Takalo, L. Villata, M.	Tuorla Torino Tuorla Tuorla Torino	Multi-wavelength monitoring of a highly active blazar		0.7,1,2,.3 ,4,6	29	9.0
BY019	Fabian, A. Taylor, G. Yuan, W.	IoA NRAO-Socorro IoA	Probing the nature of soft X-ray spectral flattening in two high redshift quasars		2,6	1	7.0
GA022	Agudo, I. Krichbaum, T.P. Gomez, J-L. Bach, U. Bremer, M. Witzel, A. Zensus, J.A.	IAA MPIFR IEEC-Barcelona Torino Bristol MPIFR MPIFR	Polarimetric monitoring of NRAO 150		0.3 for correlatio n at JIVE	17	30.0
GK032	Krichbaum, T.P. Bach, U. Alef, W. Witzel, A. Zensus, J.A.	MPIFR Torino MPIFR MPIFR MPIFR	Monitoring Cygnus A		0.3 for correlatio n at JIVE	16	15.5
GK033	Krichbaum, T.P. Graham, D. Alef, W. Witzel, A. Zensus, J.A. Bremer, M. Grewing, M.	MPIFR MPIFR MPIFR MPIFR MPIFR Bristol IRAM	Structural monitoring of M87		0.3 for correlatio n at JIVE	16	13.0
GP041	Pagels, A. Krichbaum, T. Witzel, A. Zensus, J.A.	MPIFR MPIFR MPIFR MPIFR	Structural monitoring of 3C84 at 3mm		0.3 For correlatio n at JIVE	15	16.0

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Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
	Staff	NRAO	Student observation of southern quasars Maintenance		3.6	3	4.0 450.0

Based on Actual Hours Observed

The average downtime was 15.18 hours (3.8%)

Actual observing time was 384.41 hours

The VLBA was scheduled 84.5% of the time 608.67 hours of a possible
744 hours

Astronomical Observations = 55.0% (399.60 hours)
 Tests and Calibrations = 97.0% (142.45 hours)
 Maintenance = 9.3% (66.62 hours)

 Based on Scaled Observing Hours

The average downtime was 18.7 hours (3.8%)

Actual observing time was 473.8 hours

The VLBA was scheduled 97.4% of the time 701.57 hours of a possible 720 hours

Astronomical Observations = 68.4% (492.50 hours)
 Tests and calibrations = 19.7% (142.45 hours)
 Maintenance = 9.3% (66.20 hours)

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Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB192	Boboltz, D. Driebe, T. Ohnaka, K. Wittkowski, M.	USNO MPIR, Bonn MPIR, Bonn ESO	Return to S Ori with VLBA and VLT1		.7	1	5.0
BB201	Boyce, E. Hewitt, J. Myers, S.	NRAO-Socorro MIT NRAO-Socorro	Observations of gravitational lens central images		6	10,11,18,19	32.0
BB202	Bower, G.C. Anderson, J.	Calif.-Berkeley Rice Univ.	Trigonometric parallax of a star in the Pleiades cluster			26 With GB	8.0
BC120	Chatterjee, S. Backer, D. Benson, J. Briskin, W. Cordes, M. Ellis, R. Fomalont, E. Golden, A. Goss, M. Kramer, M. Lazio, T.J.W. Lyne, A. McKinnon, M. Thorsett, S. Wong, D.	Cornell Calif., Berkeley NRAO-Socorro NRAO-Socorro Cornell Calif., Santa Cruz NRAO-CV Ireland NRAO-Socorro Manchester NRL Manchester NRAO-Socorro Calif., Santa Cruz Cornell	Pulsar astrometry with the VLBA		20	25	2.0
BC147	Cotton, W.D. Danchi, W. Lacasse, M. Millan-Gabet, R. Monnier, J.D. Ragland, S. Schloerb, F. Townes, C. Traub, W. Willson, L.A.	NRAO-CV NASA CfA Caltech Michigan CfA UMASS Calif., Berkeley CfA Iowa	VLBA/IOTA Obs. of Miras with photospheric asymmetries		.7	14	10.0
BE026	Engels, D. Brand, J. Perez-Torres, M.A.	Hamburger Sternwarte Bologna Bologna	Search for bipolar outflows in young proto-planetary nebulae		1	26,28	16.0
BG152	Gabuzda, D. Rastorgueva, E.A. Smith, P.	Cork Moscow Univ. Arizona	Simultaneous radio and optical polarimetry of AGN jets		0.7, 1.3, 2	15	24.0
BG153	Goddi, C. Brand, J. Moscadelli, L. Tarchi, A.	Cagliari Bologna Cagliari Cagliari	H2O maser kinematics close to high-mass YSOs		1	10	12.0
BG154	Greenhill, L. Michelson, P. Romani, R.	CfA Stanford Stanford	Jet proper motion and millimeter spectral index in the high-z blazar Q0906-6930		.7,.3,2	21	12.8
BH113	Hong, S.Y. Jiang, D. Wang, W.H. Zhao, J.-H.	ShAO ShAO ShAO CfA	Millimeter VLBA obs. of core structure on a sub-arcsec scale in AGN 1156+295 at z=0.729		.3,.7,2	13	13.0
BH127	Hough, D.	Trinity	Innermost jet structure in the nuclei of the lobe-dominated quasars 3C207 and 3C245		1,2,4	21	5.50
BJ036	Jorstad, S. Marscher, A.P. Yurchenko, A.	Boston Boston St. Petersburg Univ.	BL Lac objects with high proper motion		.7,1,2,4	9	15.9
Bj052	Jerkstrand, A. Conway, J.E. Minier, V. Pestalozzi, M. Booth, R. Elitzur, M.	Onsala Onsala CEA-Saclay Onsala Onsala Kentucky	Imaging the circumstellar methanol disk in NGC 7528-IRS1		2 With GB	27	18.0
BK113	Kemball, A.J. Diamond, P.J.	Univ. Illinois Jodrell Bank	Monitoring SiO masers at 7mm and 3mm in two evolved stars		0.7 With Y1	8, 29	12.0
BL104	Lobanov, A. Roland, J. Ros, E. Zensus, J.A.	MPIR, Bonn IAP, Paris MPIR, Bonn MPIR, Bonn	Cross-band monitoring of a flare in the VLBI core of 3C345		.7, 1, 2	5,31	8.25
BL116	Lara, L. Alberdi, A. Guirado, J. Marcaide, J. Perez-Torres, M.A. Ros, E.	Granada IAA, Granada Valencia Valencia Bologna MPIR, Bonn	Kinematics and rotation measure in the inner jet of 3C395		.7, 1,2	18	10.4

VLBA Utilization Report March 2005

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BL123	Lister, M. Aller, H. Aller, M.F. Arshakian, T. Homan, D. Kadler, M. Kellerman, K. Kovalev, Y. Lobanov, A. Ros, E. Vermeulen, R. Zensus, J.A.	Purdue Univ. Michigan Univ. Michigan MPIR, Bonn Dennison Univ. MPIR, Bonn NRAO-CV NRAO-CV MPIR, Bonn MPIR, Bonn ASTRON MPIR, Bonn	MOJAVE Program		2	5,23	48.0
BL124	Mioduszewski, A. Rodríguez, L. Rodríguez, M. Torres, R.	NRAO-Socorro UNAM UNAM UNAM	Parralax and proper motions of young stellar sources in Taurus		4	25,30	18.0
BR099	Rös, E. Aller, H.D. Aller, M. Kadler, M. Kerp, J. Kovalev, Y.Y. Marscher, A. Weaver, K. Zensus, J.A.	MPIR, Bonn Univ. Michigan Univ. Michigan MPIR, Bonn Univ. Bonn NRAO-GB Boston GSFC MPIR, Bonn	NGC 1052, the Key to explore the disk jet connection in AGN		.7, 1	14	6.0
BR100	Reid, M. Greenhill, L. Menten, K. Moscadelli, L. Xu, Y. Zheng, X.W.	CfA CfA MPIR, Bonn Cagliari Nanjing Nanjing	Spiral structure and kinematics of the Milky Way		2	25	9.6
BT079	vanderTak, F. Hachisuka, K. Menten, K.	MPIR, Bonn MPIR, Bonn MPIR, Bonn	Proper motions of H2O masers in AFGL 2136		1	24	2.0
BW069	Wiik, K. Raiteri, C. Savolainen, T. Takalo, L. Villata, M.	Tuorla Torino Tuorla Tuorla Torino	Multi-wavelength monitoring of a highly active blazar		.3,.4,.7,2 ,6	4,31	18.0
GD017	Diamond, P.J. Lonsdale, C.J. Lonsdale, C.J. Smith, H.E.	Jodrell Bank Haystack Caltech-IPAC Caltech-IPAC	Monitoring evolution of compact emission of Arp 220		18 With EB WB JB MC TR AR	7	14.0
GI001	Imai, H. Diamond, P.J.	Kagoshima U. Jodrell Bank	Kinematics of expanding circumstellar envelope of W43A		18 for Correlatio n at JIVE	2	12.0
GP042	Pedlar, A. Muxlow, T. Beswick, R. Diamond, P.J. Argo, M.	Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Manchester	Structural monitoring of the SNRs in M82		18 for correlatio n at JIVE	3	19.5
	Staff	NRAO	Maintenance				114.0

Based on Actual Hours Observed

The average downtime was 15.09 hours (4.3%)

Actual observing time was 335.86 hours

The VLBA was scheduled 81.0% of the time 604.95 hours of a possible 744 hours

Astronomical Observations	= 47.0%	(350.95 hours)
Tests and Calibrations	= 25.0%	(186.00 hours)
Maintenance	= 9.0%	(68.00 hours)

Based on Scaled Observing Hours

The average downtime was 17.7 hours (4.3%)

Actual observing time was 394.6 hours

The VLBA was scheduled 89.0% of the time 666.05 hours of a possible 744 hours

Astronomical Observations	= 55.0%	(412.05 hours)
Tests and calibrations	= 25.0%	(186.00 hours)
Maintenance	= 9.0%	(68.00 hours)

Stars

Ben Bentley

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VLBA Utilization Report February 2005

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB199	vanBemmel, I. Birkinshaw, M. Chiaberge, M. Dullemond, K. Macchetto, D. Schmitt, H.	STScI Bristol IRA MPA STScI NRAO-CV	Core physics of powerful radio-loud active galaxies		2,6	16,17,18	24.2
BB201	Boyce, E. Hewitt, J. Myers, S.	NRAO-Socorro MIT NRAO-Socorro	Observations of gravitational lens central images		6	4,5,11,17, 18,26	48.0
BB202	Bower, G. Anderson, J.	Calif., Berkeley Rice	Trigonometric parallax of a star in the Pleiades cluster		3.6 with GB	6	8.5
BC120	Chatterjee, S. Backer, D. Benson, J. Briskin, W. Cordes, J. Ellis, R. Fomalont, E. Golden, A. Goss, M. Kramer, M. Lazio, T.J.W. Lyne, A. McKinnon, M. Thorsett, S. Wong, D.	Cornell Calif., Berkeley NRAO-Socorro NRAO-Socorro Cornell Calif., Santa Cruz NRAO-CV Ireland NRAO-Socorro Manchester NRL Manchester NRAO-Socorro Calif., Santa Cruz Cornell	Pulsar astrometry with the VLBA		20	28	2.25
BC150	Zheung, C.C. Lee, N. Wardle, J.	MIT Brandeis Brandeis	Radio spectra and structure of the highest redshift quasar jets		90	11	11.7
BD103	Desmurs, J-F. Alcolea, J. Colomer, F. Soriz-Ruiz, R. Vujarrabal, V.	OAN OAN OAN OAN OAN	High dynamic range map of SiO maser emission in IRC+10011		.7	13	6.0
BG154	Greenhill, L. Michelson, P. Romani, R.	Cfa Stanford Stanford	Jet proper motion and millimeter spectral index in the high-z blazar Q0906-6930		2	8	2.30
BI030	Imai, H. Diamond, P.	Kagoshima Manchester	Evolution of water fountain in W43A		1	4	10.0
BK107	Krichbaum, T. Agudo, I. Sohn, B. Terasranta, H. Ungerechts, H. Witzel, A. Zensus, J.	MPIR, Bonn MPIR, Bonn MPIR, Bonn Mestsahovi IRAM MPIR, Bonn MPIR, Bonn	Precession of the jet nozzle of 1633+382 after a major millimeter flare?		.3,.7,1	3	15.0
BK113	Kemball, A. Diamond, P.J.	NCSA Jodrell Bank	New constraints on the near-circumstellar environment of late-type evolved stars		.3, .7	12	6.0
BK126	Kouvelioutou, C. Fender, R. Gaensler, B. Garrett, M. Granot, J. Taylor, G.	NASA Southampton Cfa JIVE Stanford NRAO-Socorro	Searching for compact structure in the flaring magnetar SGR186-20		4	26	5.5
BL123	Lister, M. Aller, H. Aller, M. Arshakian, T. Homan, D. Kadler, M. Kellermann, K. Kovalev, Y.Y. Lobanov, A. Ros, E. Vermeulen, R. Zensus, J.	Purdue Univ. of Michigan Univ. of Michigan MPIR, Bonn Denison MPIR, Bonn NRAO-CV NRAO-GB MPIR, Bonn MPIR, Bonn ASTRON MPIR, Bonn	MOJAVE Program		2	5	23.9
BL124	Loinard, L. Mioduszewski, A. Rodriguez, L. Rodriguez, M. Torres, R.	UNAM NRAO-Socorro UNAM UNAM UNAM	Parallax and proper motions of young stellar sources in Taurus		4	23	6.0

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Progrm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BM211	Marscher, A. Aller, M. Gomez, J.L. Jorstad, S. McHardy, I.	Boston Univ. of Michigan IAA, Granada Boston U. Southampton	Multi-frequency monitoring of jets of selected blazars and radio galaxies		.7, 1	27	16.0
BM215	Middelberg, E. Bach, U. Krichbaum, T. Roy, A.	ATNF MPIR, Bonn MPIR, Bonn MPIR, Bonn	Fate of polarized emission in NGC 4261, Hydra A and Cygnus A		7	2	8.0
BM224	Ma, C-J. Gordon, D. Johnston, K. Fey, A. Vandenberg, N. Gipson, J. Boboltz, D. Kingham, K. MacMillan, D. Petrov, L. Fomalont, E. Walker, R.C.	NASA-GSFC Raytheon-GSFC USNO USNO NVI-GSFC NVI-GSFC USNO USNO NVI-GSFC NASA-GSFC NRAO-CV NRAO-Socorro	Geodesy/astrometry observations for 2005		3.6 With ApGcGgHhNt OnTcTsVaWf Wz	9 Scheduled as RDV49	24.5
BO019	Ojha, R. Fey, A. Jauncey, D. Johnston, K. Lovell, J.	ATNF USNO ATNF USNO ATNF	VLBA Snap shot imaging of scintillating and non-scintillating sources		4	1	24.1
BP120	Edwards, P.G. Jones, D. Piner, B.G.	ISAS JPL Whittier College	Kinematics of the 26 c component in the blazar 0827+243		2	14	5.0
BT075	Tarchi, A. Brunthaler, A. Chiaberge, M. Henkel, C. Menten, K. Moscadelli, L.	IRA-Cagliari JIVE IRA-Bologna MPIR, Bonn MPIR, Bonn OAC, Cagliari	3C404: Is the first water megamaser in an FR II associated with an accretion disk or is due to a jet interaction?		1	28	2.25
BT081	Taylor, G. Giroletti, M. Gugliucci, N. Peck, A.	NRAO-Socorro CNR Lycoming College SMA	Faraday rotation measure observations of two compact symmetric objects		4,6	12,18	16.0
BT083	Taylor, G. Fabian, A. Sanders, J.	NRAO-Socorro IoA IoA	An investigation of the Nucleus of PKS 1246-410 in Centaurus		6	14	3.0
BU030	Ulvestad, J. Johnson, K. Neff, S.	NRAO-Socorro Virginia NASA	Search for young supernovae in super star clusters		6	26,27	12.0
BV053	Vlemmings, W. Chatterjee, S. Diamond, P.J. vanLangevelde, H.	Cornell Cornell Manchester JIVE	Parallax and proper motions of late-type stars OH maser VLBA astrometry with in-beam calibrators		20	19	18.0
BW069	Wiik, K. Raiteri, C. Savolainen, T. Takalo, L. Villata, M.	Tuorla Obs. Oss. Astron. di Tori Tuorla Obs. Tuorla Obs. Oss. Astron. di Tori	Multi-wavelength monitoring of a highly active blazar: BL Lac object AO 0235+16 during an outburst		.3,.7,1,2, 4,6,13	7	9.0
BY019	Yuan, W. Fabian, A. Taylor, G.	IoA IoA NRAO-Socorro	Probing the nature of the soft X-ray spectral flattening in two high-redshift quasars		2,6	23	7.0
GB053	Bartel, N. Bietenholz, M.F.	York U. York U.	Expansion, structure, and distance of SN 1979C		6	25	16.5
GM059	Marcalde, J.M. Marti-Vidal, I. Guirado, J.C. Alberdi, A. Perez-Torres, M.A. Lara, L. Ros, E. Stockdale, C. Weiler, K. Sramek, R. Panagia, N. VanDyk, S.D.	Valencia Valencia Valencia IAA IAA Granada MPIFR Marquette Univ. NRL NRAO-Socorro STScI Caltech-IPAC	Obs. of SN2004et at 1.3 and 3.6 cm		4	20	12.0
	Staff	NRAO	Maintenance				96.0

Based on Actual Hours Observed

The average downtime was 19.85 hours (5.8%)

Actual observing time was 322.54 hours

The VLBA was scheduled 79.0% of the time 509.45 hours of a possible 648 hours

Astronomical Observations	= 53.0%	(342.40 hours)
Tests and Calibrations	= 14.0%	(91.25 hours)
Maintenance	= 12.0%	(75.80 hours)

Based on Scaled Observing Hours

The average downtime was 25.0 hours (5.8%)

Actual observing time was 406.25 hours

The VLBA was scheduled 93.0% of the time 598.30 hours of a possible 648 hours

Astronomical Observations	= 67.0%	(431.25 hours)
Tests and calibrations	= 14.0%	(91.25 hours)
Maintenance	= 12.0%	(75.80 hours)

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Progrm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB192	Boboltz, D. Driebe, T. Ohnaka, K. Wittkowski, M.	USNO MPIR, Bonn MPIR, Bonn ESO	Return to S Ori with the VLBA and VLT1		.7	17	5.0
BC139	Claussen, M.J. Beasley, A.J. Goss, M. Moellenbrock, G.	NRAO-Socorro NRAO-Chile NRAO-Socorro NRAO-Socorro	Tests of water maser phase referencing for astrometry of galactic water masers		1	10,21	24.0
BC146	Colomer, F. Alcolea, J. Bujarrabal, V. Desmurs, J.F. Soria-Ruiz, R.	OAN, Spain OAN, Spain OAN, Spain OAN, Spain OAN, Spain	Relative spatial distribution of SiO masers in AGB Stars		.7	14,22	12.0
BD101	Dougherty, S. Beasley, A.J. Pittard, J. Claussen, M. Bolingbroke, N. Zauderer, A.	DRAO OVRO Leeds NRAO-Socorro NRC Maryland	Observing wind-collision and orbital motion in WR140		0.7, 1.3, 2, 3.6 With Y1	17	12.0
BD107	Dhawan, V. Mioduszewski, A. Rupen, M.	NRAO-Socorro NRAO-Socorro GSFC/NRAO	VLBA Astrometry of X-ray binaries		2,4	17	3.15
BE026	Engels, D. Brand, J. Perez-Torres, M-A.	Hamburger Sternwarte IRA-CNR IRA-CNR	Search for bipolar outflows in young Proto-Planetary Nebulae		1	9	8.0
BG153	Goddi, C. Brand, J. Moscadelli, L. Tarchi, A.	Cagliari IRA-CNR Cagliari IRA-CNR	H2O maser kinematics close to high-mass YSOs		1	21	12.0
BH118	Hough, D. Aars, C. Porcas, R. Taylor, G. Zensus, J.A.	Trinity Trinity MPIR, Bonn NRAO-Socorro MPIR, Bonn	Multi-frequency polarization imaging of five Jodrell Bank lobe-dominated quasars		2,4,6	8	23.5
BH126	Harris, D.E. Cheung, C.C. Junor, B.	SAO Brandeis LANL	Ongoing outburst of Knot 'HST-1' in M87 jet		20	13	7.8
BH127	Hough, D.H.	Trinity	Innermost jet structure in nuclei of lobe-dominated quasars 3C207 and 3C345		1,2,4	9	5.5
BJ056	Jonker, P. Chatterjee, S. Fender, R. Gaensler, B. Nelemans, G.	CfA NRAO-Socorro Amsterdam CfA IoA	Milliarcsec-scale jets in black hole X-ray transients		4,13	26	8.0
BK113	Kemball, A.J. Diamond, P.J.	Univ. Illinois Jodrell Bank	Monitoring SiO masers at 7mm and 3mm in two evolved stars		0.7 line With Y1	19	6.0
BK121	Kouveliotou, C. Fender, R. Gaensler, B. Garrett, M. McLaughlin, M. Wijers, R.	NASA Southampton CfA JIVE Manchester Amsterdam	Multi-epoch VLBA obs. of SGR 1806-20 following a giant X-ray flare		20	5,6,10	16.25
BL104	Lobanov, A. Roland, J. Ros, E. Zensus, J.A.	MPIR, Bonn IAP, Paris MPIR, Bonn MPIR, Bonn	Cross-band monitoring of a flare in the VLBI core of 3C345		.7, 1, 2	19	4.0
BL123	Lister, M. Aller, H.D. Aller, M.F. Arshakian, T. Homan, D. Kadler, M. Kellermann, K. Kovalev, Y.Y. Lobanov, A. Ros, E. Vermeulen, R. Zensus, J.A.	Purdue Unif. of Michigan Unif. of Michigan MPIR, Bonn Denison Univ. MPIR, Bonn MPIR, Bonn NRAO-CV NRAO-GB MPIR, Bonn MPIR, Bonn ASTRON MPIR, Bonn	MOJAVE Program		2	6	24.0
BL124	Loinard, L. Mioduszewski, A. Rodriguez, L.F. Torres, R.	UNAM NRAO-Socorro UNAM UNAM	Parralax and proper motions of young stellar sources in Taurus		4	4,6	18.0

VLBA Utilization Report January 2005

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BM211	Marscher, A. Aller, M.F. Gomez, J.L. Jorstad, S. McHardy, I.	Boston Univ. of Michigan IAA, Granada Boston Southampton	Multi-frequency monitoring of jets of selected blazar and radio galaxies		.7, 1	20	15.4
BM215	Middelberg, E. Bach, U. Krichbaum, T. Roy, A.	ATNF MPIR, Bonn MPIR, Bonn MPIR, Bonn	Fate of polarized emission in NGC 4261, Hydra A and Cygnus A		.7	24	8.0
BO019	Ojha, R. Fey, A. Jauncey, D. Johnston, K. Lovell, J.	ATNF USNO ATNT USNO ATNF	VLBA Snap shot imaging of scintillating and non-scintillating sources		4	26,27,28	24.15
BR102	Ratner, M. Bartel, N. Bietenholz, M.F. Lebach, D.E. Lederman, J. Lestrade, J.-F. Ransom, R.R. Shapiro, I.I.	Cfa York U. York U. Cfa York University Meudon York U. Cfa	Astrometric monitoring of HR 8703 in 2005 for GPB mission		2, 3.6, 6 With RO, GO, TI, Y27	15	14.6
BS144	Sudou, H. Iguchi, S. Murata, Y. Takaba, H. Taniguchi, Y. Wakamatsu, K.	Gifu Univ. NAOJ JAXA/ISAS Gifu Univ. Tohoku Gifu Univ.	Astrometric monitoring of radio galaxy 3C 66B		1,4,13	20	10.3
BT070	Taylor, G. Peck, A. Pollack, L. Zavala, B.	NRAO-Socorro Cfa UCB NRAO-Socorro	Investigating the binary black hole system in 0402+379		.7,2,6	24	10.6
BU027	Olvestad, J. Neff, S. Teng, S.	NRAO-Socorro NASA Maryland	Monitoring young supernovae in Arp 299		4,13	2	10.0
BV055	Vlemmings, W. Diamond, P.J. van Langevelde, H.	Cornell Manchester JIVE	Monitoring the magnetic field on the water masers of U Ori		1	23	6.0
BV057	Vigotti, M. Benn, C. Fanti, R. Fanti, C. Mack, K-H.	IRA-CNR ING, La Palma Bologna Bologna IRA-CNR	First pc-scale imaging of a BLA quasar at radio wavelengths		4,6,20	23	9.0
BW069	Wiik, K. Raiteri, C. Savolainen, T. Takalo, L. Villata, M.	Tuorla Obs. Oss. Astron. di Tori Tuorla Obs. Tuorla Obs. Oss. Astron. di Tori	Multi-wavelength monitoring of a highly active blazar		.3,.7,1,2, 4,6,13	13	9.0
GG057	Gurvits, L.I. Pogrebenko, S. Avruch, I.M. Bignall, H. Campbell, R. Garrett, M.A. Lebreton, J. vantKlooster, C. Folkner, W.M. Preston, R. Romney, J. Bird, M.	JIVE JIVE NFRA JIVE NFRA JIVE ESA ESA-ESTEC JPL JPL NRAO-Socorro Univ. Bonn	VLBI and Doppler tracking of the Huygens Titan Probe		3.6, 13	14	6.0
	Staff	NRAO	Maintenance General tests with VLA	P			96.0 15.0

Based on Actual Hours Observed

The average downtime was 15.2 hours (4.2%)

Actual observing time was 347.5 hours

The VLBA was scheduled 74.7% of the time 535.6 hours of a possible 720 hours

Astronomical Observations	= 50.4%	(362.7 hours)
Tests and Calibrations	= 13.3%	(95.7 hours)
Maintenance	= 11.0%	(77.2 hours)

Based on Scaled Observing Hours

The average downtime was 20.4 hours (4.2%)

Actual observing time was 464.7 hours

The VLBA was scheduled 91.3% of the time 658.0 hours of a possible 720 hours

Astronomical Observations	= 67.0%	(485.1 hours)
Tests and calibrations	= 13.3%	(95.7 hours)
Maintenance	= 11.0%	(77.2 hours)