Pile

VLBA Utilization Report December 2012

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB301	Blundell, K. Doolin, S. Goodall, P. Heywood, I. Perez, S.	Oxford Oxford Oxford Oxford Oxford	Pression of the circumbinary ruff of the microquasar SS433 on milliarcs scales		20	1	11.50
BB313	Braatz, J. Condon, J. Greene, J. Henkel, C. Impellizzeri, V. Kuo, C. Lo, K.Y. Reid, M.	NRAO NRAO Princeton MPIfR NRAO UVa NRAO CfA	The Megamaser Cosmology Project V		1	2,8,17,20, 2821	24
BC170	Claussen, M. Creeler, B. Pihlstrom, Y. Sahai, R.	NRAO-Socorro UNM UNM JPL	Parallax Measurements of Proto-Planetary and Young Planetary Nebulae		1,20	30	8.5
BD152	Deller, A. Brisken, W. Chatterjee, S. Cordes, J. Goss, M. Kovalev, Y. Lazio, J. Petrov, L.	NRAO-Socorro NRAO-Socorro Cornell Cornell NRAO-Socorro Lebedev. Inst. NRL NASA	PRSBI: Mapping the Glactic Distribution of pulsars with the VLBA		20	9,13,15,16 ,17,20,21, 24,25,28,3 0	35
BD161	Deller, A. Tingay, A.	ASTRON Curtin Univ.	Characterizing the mJy compact radio souce population		20	2,3,13,19, 23,28	10
BD165	Dzib, S. Gomez, Y. Loinard, L. Mioduszewski, A. Rodriguez, L. Torres, R.	UNAM UNAM UNAM NRAO-Socorro UNAM Bonn	The distances to the LkHa 101 and 678.4+2.64 star-forming regions		4	28	4
BD167	Deller, A. Demorest, P. Rosen, R.	ASTRON NRAO West Virginia	VLBA observations of the apparently associated pulsars J1830-1059 and J1830-1103		13	29	4
BL175	Lionard, L. Briceno, C. Dzib, S. Evans, N. Hartmann, L. Miodouszewski, A. Pech, G. Rodriguez, L. Torres, R.	UNAM CIDA UNAM Texas., Austin Mich., Ann Arbor NRAO-Socorro UNAM UNAM Bonn	The Gould's Belt Distances VLBA Survey		4	2,3,4,7,8, 9,16,21,28	30
BL178	Lister, M. Aller, M. Chang, C. Gehrels, N. Hogan, B. Homan, D. Hovatta, T. Kadler, M. Kellermann, K. Kovalev, Y. Pushkarev, A. Ros, E. Savolainen, T. Zensus, A.	Purdue Mich., Ann Arbor MPIfR NASA Purdue Denison Univ. Purdue Nuuremburg NRAO Lebedev MPIfR Univ of Valencia MPIfR MPIfR	The VLBA 2cm MOJAVE/Fermi Program		2	10,14,23	72
BM350	Ma, C. Behrend, D. Boboltz, D. Fey, A. Fomalont, E. Gaume, R. Gipson, J. Gordon, D. Johnston, K. Kingham, K. MacMilan, D. Ojha, R. Thomas, C. Walker, C.	NASA NASA USNO USNO NRAO USNO NASA NASA USNO USNO NASA USNO NASA NRAO-Socorro	VLBA Geodesy/Astrometry Observations for 2011		4,13	5	24

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BM352	Melis, C. Bower, G. Mioduszewski, A. Reid, M. Stauffer, J.	Calif., San Diego Calif., Berkeley NRAO-Socorro CfA Caltech	A VLBA Resolution of the Pleiades Distance Controversy		4	1,7,13,22	39.75
BM353	Marscher, A. Agudo, I. Gomez, J. Jorstad, S. Larionov, V. MacDonald, N. Romney, J. Thorn, V.	Boston IAA IAA Boston St. Petersburg Boston NRAO-Socorro St. Petersburg	Sub-parsec Imaging of the Gamma-ray Emission Regions of Blazars		0.7	21	24
BM360	Middleberg, E. Best, P. Brisken, W. Carilli, C. Deller, A. Momjian, E. Norris, R. Schinnerer, E. Scoville, N. Smolcic, V.	Ruhr-Bochum Edinburgh NRAO-Socorro NRAO-Socorro ASTRON NRAO-Socorro ATNF MPIA Caltech ESO	The incidence and evolution of AGN in 2865 COSMOS radio sources		20	5,7,8,18,21,27,28,29,30	54
BR149	Reid, M. Bartkiewicz, A. Brunthaler, A. Choi, K. Hachisuka, K. Menten, K. Moellenbrock, G. Moscadelli, L. Sanna, A. Sato, M. Xu, Y. Zhang, B. Zheng, X.	CfA Nicolaus Copernicus MPIfR MPIfR Shanghai MPIfR NRAO-Socorro Arectri Arectri Tokyo Chinese Academy Nanjing Univ. Nanjing Univ.	Mapping the Milky Way-A Copy of 09C-125/BR145 for New Project Code		6	3,8	14
S4317	Chatterjee, S. Brisken, W. Cordes, J. Fernando, C. Fienga, A. Gullemot, L. Lazio, J. McLaughlin, M. Ransom, S. Smith, D. Theureau, G. Vlemmings, W.	Cornell NRAO-Socorro Cornell Columbia Univ. Obs. de Paris MPIfR JPL West Virginia NRAO Obs. de Paris Obs. de Paris Bonn	Precison Distances and Velocities for Fermi-Detected Radio Pulsars		20	9,19,27	18

Based on Actual Hours Observed

The average downtime was 15.15 hours 4.00%

Actual observing time was 363.79 hours

The VLBA was scheduled 100.00% of the time 744 hours of a possible 744 hours

Astronomical Observations = 50.93% (378.95 hours)
Tests and Calibrations = 7.76% (57.75 hours)
Maintenance = 9.14% (68.00 hours)
Number of unscheduled hours = 27.33% (203.00 hours)
Number of shutdown hours = 4.84% (36.00 hours)

Based on Scaled (128Mbps) Observing Hours

Number of scaled hours of astronomical observations = 2621.164hrs

Downtime = 4.00% (104.846560 hours)

Actual observing =2516.31744 hours

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB309	Busch, M. Benner, L. Brisken, W. Brozovic, M. Giorgini, J. Margot, J. Nolan, M.	Calif., Los Angeles JPL NRAO-Socorro JPL JPL Calif., Los Angeles NAIC	Radar Speckle Observations of Asteroids During 2012		4	5,6,8	1.5
BB313	Braatz, J. Condon, J. Greene, J. Henkel, C. Impellizzeri, V. Kuo, C. Lo, K.Y. Reid, M.	NRAO NRAO Princeton MPIfR NRAO UVa NRAO CfA	The Megamaser Cosmology Project V		1	7,9,15,18,24	49
BB315	Brunthaler, A. Berger, E. Bietenholz, M. Frail, D. Rupen, M. Soderberg, A. Zauderer, B.	MPIfR CfA York Univ. NRAO-Socorro NRAO-Socorro CfA CfA	VLBI observations will reveal the Nature of Tidal Disruption Event, Sw 1644+573		1,4	23	7
BB318	Bietenholz, M. Bartel, N. Brunthaler, A. Chomiuk, L. Rupen, M. Soderberg, A. Zauderer, B.	York Univ. York Univ. MPIfR CfA NRAO-Socorro CfA CfA	Measuring the Expansion Velocity and Deceleration of SN 2011dh		4	11	13
BC170	Claussen, M. Creeler, B. Pihlstrom, Y. Sahai, R.	NRAO-Socorro UNM UNM JPL	Parallax Measurements of Proto-Planetary and Young Planetary Nebulae		1,20	3	8.5
BC214	Cheung, T. Carpenter, B. Cirpini, S. Corbet, R. D'Ammando, F. Donato, D. Falco, E. Giroletti, M. Ojha, R. Orienti, M.	NRL NASA Univ. of Perugia NASA INAF NASA CfA INAF NASA INAF	Radio Imaging of a Gravitationally Lens Blazar Gamma-Ray Outbursts		1	5,13,15,21,25	6
BD152	Deller, A. Brisken, W. Chatterjee, S. Cordes, J. Goss, M. Kovaleb, Y. Lazio, J. Petrov, L.	NRAO NRAO-Socorro Cornell Cornell NRAO-Socorro Lebedev. Inst. NRL NASA	PRSBI: Mapping the Glactic Distribution of pulsars with the VLBA		13,20	1,4,6,12,15,19,20,26,30	22.50
BD161	Deller, A. Middelberg, E.	NFRL Rugr-Univ. Bochum	Characterizing the mJy compact radio source population		20	3,5,10,17,20	8
BD166	Deller, A. Tingay, A.	ASTRON Curtin Univ.	A VLBA pulsar search: Surveying unidentified, highly variable FIRST sources		20	10	2
BL175	Lionard, L. Briceno, C. Dzib, S. Evans, N. Hartmann, L. Mioduszewski, A. Rodriguez, L. Torres, R.	UNAM CIDA UNAM Texas., Austin Mich., Ann Arbor NRAO-Socorro UNAM Bonn	The Gould's Belt Distances VLBA Survey		4	1,26,28,30	12.25

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BL178	Lister, M.	Purdue	The VLBA 2cm MOJAVE/Fermi Program		2	2,11,21,28	96
	Aller, M.	Mich., Ann Arbor					
	Aller, H.	Mich., Ann Arbor					
	Ashkian, T.	MPIfR					
	Boeck, M.	Nurembrug					
	Chang, C.	MPIfR					
	Gehrels, N.	NASA					
	Hogan, D.	Purdue Univ.					
	Homan, D.	Denison Univ.					
	Hovatta, T.	Purdue Univ.					
	Kadler, M.	Nuremburg					
	Kellermann, K.	NRAO					
	Kovalev, Y.	Lebedev					
	McEnery, J.	NASA					
	Pushkarev, A.	MPIfR					
	Ros, E.	Univ. of Valencia					
	Savolainen, T.	MPIfR					
	Zensus, A.	MPIfR					
BM343	McClintock, J.	CfA	Measuring the Parallaxes of the x-ray		1,2	20	7
	Reid, M.	CfA	Binaries Cyg x-1, Cyg x-2, and Cyg x-3				
BM352	Melis, C.	Calif., San Diego	Sub-parsec Imaging of the Gamma-ray		4	2,10,23,30	30.25
	Bower, G.	Calif., Berkeley	Emission Regions of Blazars				
	Mioduszewski, A.	NRAO-Socorro					
	Reid, M.	CfA					
	Stauffer, J.	Caltech					
BM360	Middleberg, E.	Ruhr Univ. Bochum	The incidence and evoluton of AGN in 2865		20	1,4,20,25,	42
	Best, P.	Univ. of Edinburgh	COSMOS radio sources			26,28,30	
	Brisken, W.	NRAO-Socorro					
	Carilli, C.	NRAO-Socorro					
	Deller, A.	ASTRON					
	Momjian, E.	NRAO-Socorro					
	Norris, R.	ATNF					
	Schinnerer, E.	MPIA					
	Scoville, N.	Caltech					
	Smolcic, V.	ESO					
BM385	Mioduszewski, A.	NRAO-Socorro	Imaging the shock in Gamma Ray Nova Mon		6	17	6
	Cheung, T.	NRL	2012				
	Chomiuk, L.	Michigan					
	Mukai, K.	NASA					
	Nelson, T.	Univ. of Minnesota					
	O'Brien, T.	Jodrell Bank					
	Paragi, Z.	JIVE					
	Rupen, M.	NRAO-Socoorro					
	Sokoloski, J.	Columbia					
BO042	Orienti, M.	INAF	The Radio Emission of the gamma-ray		1,2,4	19	2
	Orienti, M.	INAF	flaring FSRQ at the highest redshift		19		
	Ajello, M.	SLAC					
	D'Ammando, F.	INAF					
	Giroletti, M.	INAF					
BR149	Reid, M.	CfA	Mapping the Milky Way- A Copy of		6	4,5,8,10,	43.25
	Bartkiewicz, A.	Nicolaus Copernicus	09C-125/BR145 for New Project Code			17,18	
	Brunthaler, A.	MPIfR					
	Choi, K.	MPIfR					
	Hachisuka, K.	Shangahi					
	Menten, K.	MPIfR					
	Moellenbrock, G.	NRAO-Socorro					
	Moscadelli, L.	Arectri					
	Sanna, A.	Arectri					
	Sato, M.	Tokyo					
	Xu, Y.	Chinese Academy					
	Zhang, B.	Nanjing Univ.					
	Zheng, X.	Nanjing Univ.					
BR175	Richards, J.	Purdue Univ.	Follow-up of exceptional radio and GeV/TeV		0.7,1,2	6,16	24
	Aller, M.	Mich., Ann Arbor	gamma-ray flares in blaar Mrk 321				
	Aller, H.	Mich., Ann Arbor					
	Angelakis, E.	MPIfR					
	Fuhram, l.	MPIfR					
	Giroletti, M.	INAF					
	Hovatta, T.	Caltech					
	Lister, M.	Purdue Univ.					
	Readhead, A.	Caltech					
	Savolainen, T.	MPIfR					

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BS208	Sanna, A. Brunthaler, A. Cesaroni, R. Ellingsen, S. Menten, K. Moscadelli, L. Reid, M.	MPIfR MPIfR INA Tasmania MPIfR INA CfA	Exploring the peculiar case of the star-forming regions G9.62+0.20: water masers		1	25	8
BS216	Schaefer, G. Prato, L. Simon, M. Zavala, R.	Georgia Lowell obs. Stony Brook USNO	Distance to the Young Triple Star V807 Tau: Finishing the Job		4	27	10
S4317	Chatterjee, S. Brisken, W. Cordes, J. Fernando, C. Fienga, A. Guillemot, L. Lazio, J. McLaughlin, M. Ransom, S. Romani, R. Smith, D. Theureau, G. Vlemmings, W.	Cornell NRAO-Socorro Cornell Columbia Univ. Obs. de Paris MPIfR JPL West Virginia NRAO NRAO Obs. de Paris Obs. de Paris Bonn	Precison Distances and Velocities for Fermi-Detected Radio Pulsars		20	13,17,19, 21	12
SD679	Hornschemier, A. Ajello, M. Argo, M. Bechtol, K. Brandt, N. Harrison, F. Maccarone, T. Ptak, A. Stern, D. Tosick, J. Venters, T.	NASA Stanfornd Manchester Stanford Penn State Caltech Southampton NASA JPL Calif., Berkeley NASA	Broad-band (0.5-30 keV) X-ray imaging of starburst galaxies with Chandra and NuStar		20	15	8

Based on Actual Hours Observed

The average downtime was 13.15 hours 3.10%

Actual observing time was 411.09 hours

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

Astronomical Observations = 58.92% (424.25 hours)
Tests and Calibrations = 8.02% (57.75 hours)
Maintenance = 9.72% (70.00 hours)
Number of unscheduled hours = 20.00% (144.00 hours)
Number of shutdown hours = 3.33% (24.00 hours)

Based on Scaled (128Mbps) Observing Hours

Number of scaled hours of astronomical observations = 2531.90 hrs

Downtime = 3.10% (78.488838 hours)

Actual observing = 2453.4091 hours

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB303	Brunthaler, A. Bower, G. Falcke, H. Garrett, M. Henkel, C. Lionard, L. Loeb, A. Menten, K. Oosterloo, T. Reid, M. Roediger, E. Sjouwerman, L. Tarchi, A. van Gorkom, J.	MPIfR Calif., Berkeley Radbound Univ. NFRA MPIfR UNAM CfA MPIfR NFRL CfA Jacobs NRAO-Socorro INAF Columbia Univ.	Proper motion of galaxies in a beyond the local group		1	1,8,20	16
BB313	Braatz, J. Condon, J. Greene, J. Henkel, C. Impellizzeri, V. Kuo, C. Lo, K.Y. Reid, M.	NRAO NRAO Princeton MPIfR NRAO UVa NRAO CfA	The Megamaser Cosmology Project. V		1	5,10,17,25	32
BC214	Cheung, T. Carpenter, B. Ciprini, S. Corbet, R. D'Ammando, F. Donato, D. Falco, E. Giroletti, M. Ojha, R. Orienti, M. Scargle, J.	NRL NASA Univ. of Perugia NASA INAF NASA CfA INAF NASA INAF NASA	Radio Imaging of a Gravitationally Lens Blazar Gammar-ray Outbursts		1,4,13	2,5,9,12,15,19,23,26	10
BD152	Deller, A. Brisken, W. Chatterjee, S. Cordes, J. Goss, M. Kovaleb, Y. Lazio, J. Petrov, L.	NRAO NRAO-Socorro Cornell Cornell NRAO-Socorro Lebedev INst. NRL NASA	PRSBI: Mapping the Glactic Distribution of pulsars with the VLBA		13,20	2,4,6,7,10,12,16,24,25,26	25
BD161	Deller, A. Middelberg, E.	NFRL Rught-Univ. BOchum	Characterizing the mJy compact radio source population		20	6,7,8,10,11,23,30	9
BD165	Dzib, S. Gomez, Y. Loinard, L. Mioduszewski, A. Rodriguez, L. Torres, R.	UNAM UNAM UNAM NRAO-Socorro UNAM Bonn	The distances to the LkHa 101 and G78.4+2.64 star-forming regions		4	9,11	8
BD166	Deller, A. Tingay, A.	ASTRON Curtin Univ.	A VLBA pulsar search: Surveying unidentified, highly variable FIRST sources		20	23	2
BL175	Lionard, L. Briceno, C. Dzib, S. Evans, N. Hartmann, L. Mioduszewski, A. Rodriguez, L. Torres, R.	UNAM CIDA UNAM Texas., Austin Mich., Ann Arbor NRAO-Socorro UNAM Bonn	The Gould's Belt Distances VLBA Survey		4	15,20,30	12
BL176	Lionard, L. Deller, A. Dzib, S. Gomez, Y. Mioduszewski, A. Rodriguez, L. Torres, R.	UNAM ASTRON UNAM UNAM NRAO-Socorro UNAM Bonn	The distance to Monoceros: one of the nearest high-mass star-forming regions		4	1	9

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BM350	Ma, C.	NASA	VLBA Goedesy/Astrometry Observations for 2011		4,13	3	24
	Behrend, D.	NASA					
	Boboltz, D.	USNO					
	Fey, A.	USNO					
	Fomalont, E.	NRAO					
	Gaume, R.	USNO					
	Gipson, J.	NASA					
	Gordon, D.	NASA					
	Johnston, K.	USNO					
	Kingham, K.	USNO					
	MacMillan, D.	NASA					
	Ojha, R.	USNO					
	Thomas, C.	NASA					
	Walker, C.	NASA					
BM352	Melis, C.	Calif., San Diego	A VLBA Resolution of the Pleiades Distance Controversy		4	13,21,27,	30
	Bower, G.	Calif., Berkeley					
	Mioduszewski, A.	NRAO-Socorro					
	Reid, M.	CfA					
	Stauffer, J.	Caltech					
BM353	Marscher, A.	Boston Univ.	Sub-parsec Imaging of the Gamma-Ray Emission Regions of Blazars		0.7	28	24
	Agudo, i.	IAA					
	Gomez, J.	IAA					
	Hagen-Thorn, V.	St. Petersburg					
	Jorstad, S.	Boston Univ.					
	Larionov, V.	St. Petersburg					
	MacDonald, N.	Boston Univ.					
	Romney, J.	NRAO-Socorro					
BM385	Mioduszewski, A.	NRAO-Socorro	Imaging the shock in Gamma Ray Nova Mon 2012		6,20	3,14,30	18
	Cheung, T.	NRL					
	Chomiuk, L.	Michigan					
	Mukai, K.	NASA					
	Nelson, T.	Univ. of Minnesota					
	O'Brein, T.	Jodrell Bank					
	Paragi, Z.	JIVE					
	Rupen, M.	NRAO-Socorro					
	Sokoloski, J.	Columbia					
BN044	Nyland, K.	NMT	VLBA Observations of a Central Intermediate Mass Black Hole Candidate		20	6,7	12
	Marvil, J.	NRAO-Socorro					
	Wrobel, J.	NRAO-Socorro					
	Young, L.	NMT					
BP172	Popov, M.	Lebedev Inst.	Radio Astron-Ar-VLBA: Resolving scattering disk of the pulsar B0525+211		90	5	2
	Demorest, P.	NRAO					
	Gwin, C.	Calif., Santa Barbar					
	Johnson, M.	Calif., Santa Barbar					
	Kovalev, Y.	Lebedev Inst.					
	Vladimir, S.	Lebedev Inst.					
BR145	Reid, M.	CfA	Mapping the Milky Way		1	23,29	14
	Bartkiewicz, A.	Nicolaus Copernicus					
	Brunthaler, A.	MPIfR					
	Choi, K.	MPIfR					
	Hachisuka, K.	Shanghai					
	Menten, K.	MPIfR					
	Moellenbrock, G.	NRAO-Socorro					
	Moscadelli, L.	Arectri					
	Sanna, A.	Arectri					
	Sato, M.	Tokyo					
	Xu, Y.	Chinese Academy					
	Zhang, B.	Nanjing Univ.					
	Zheng, X.	Nanjing Univ.					
BR149	Reid, M.	CfA	Mapping the Milky Way-A Copy of 09C-125/BR145 for New Project Code		4,6	1,6,9,13,14,15,21,22	49.50
	Bartkiewicz, A.	Nicolaus Copernicus					
	Brunthaler, A.	MPIfR					
	Choi, Y.	MPIfR					
	Dame, T.	CfA					
	Hachisuka, K.	Shanghai					
	Menten, K.	MPIfR					
	Moellenbrock, G.	NRAO-Socorro					
	Moscadelli, L.	INAF					
	Sanna, A.	MPIfR					
	Sato, M.	MPIfR					
	Xu, Y.	Chinese Academy					
	Zhang, B.	Nanjing Univ.					
	Zheng, X.	Nanjing Univ.					

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BR161	Rioja, M. Agudo, I. Dodson, R. Gomez, J. Jorstad, J. Marscher, A. Molina, S. Roy, A.	Western Australia Boston Western Australia IAA Boston Boston IAA MPIfR	High-Precison 22 & 43 GHz Astrometric Monitoring of the Cores in OJ287 & 3C273		0.7,1	10	12.75
BR175	Richards, J. Aller, M. Aller, H. Angelakis, E. Fuhrman, L. Giroletti, M. Hovatta, T. Lister, M. Readhead, A. Savolainen, T.	Purdue Univ. Mich., Ann Arbor Mich., Ann Arbor MPIfR MPIfR INAF Caltech Purdue Univ. Caltech MPIfR	Follow-up of exceptional radio and GeV/TeV gammar-ray flares in blazar Mrk 421		0.7,1,2,3	12,19,26	34.5
BS215	Sivakoff, G. Knigge, C. Koerding, E. Miller-Jones, J.	Univ. of Alberta Southhampton Radbound Univ. Curtin Univ.	Resolving the controversial distance to SS Cyg		4	30	7
GM070	McKean, J. Auger, M. Fassnacht, C. Jackson, N. Koopmans, L. Lagattuta, D. Vegatti, S.	ASTRON Cambridge Calif., Davis Manchester Univ. of Groningen Swinburne MIT	Gravitational lensing by low-mass dark matter haloes		18	22	13
S4317	Chatterjee, S. Brisken, W. Cordes, J. Fernando, C. Fienga, A. Guillemot, L. Lazio, J. McLaughlin, M. Ransom, S. Ray, P. Romani, R. Smith, D. Theureau, G. Vlemmings, W.	Cornell NRAO-Socorro Cornell Columbia Univ. Obs. de paris MPIfR JPL West Virginia NRAO NRL NRAO Obs. de Paris Obs. de Paris Bonn	Precison Distances and Velocities for Fermi-Detected Radio Pulsars		20	1,5,6	7.75
S5033	Marscher, A.	Boston Univ.	Multi-Frequency Campaigns to study rapid variability in gammar-ray blazars		0.7	7,19,27,	48

Based on Actual Hours Observed

The average downtime was 9.79 hours 2.30%

Actual observing time was 415.90 hours

The VLBA was scheduled 100.00% of the time 744 hours of a possible 744 hours

Astronomical Observations = 57.22% (425.70 hours)
Tests and Calibrations = 9.89% (73.55 hours)
Maintenance = 10.35% (77.00 hours)
Number of unscheduled hours = 22.55% (167.75 hours)
Number of shutdown hours = 0.00% (00.00 hours)

Based on Scaled (128Mbps) Observing Hours

Number of scaled hours of astronomical observations = 2491.68 hrs

Downtime = 2.30% (57.308824 hours)

Actual observing = 2434.3791 hours

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB301	Blundell, K. Doolin, S. Goodall, P. Heywood, I. Perez, S.	Oxford Oxford Oxford Oxford Oxford	Precession of the circumbinary ruff of the microquasar SS433 on milliarcs scales		20	6	11.5
BB303	Brunthaler, A. Bower, G. Darling, J. Falcke, H. Garrett, M. Henkel, C. Loeb, A. Loinard, L. Menten, K. Oosterloo, T. Reid, M. Roediger, E. Sjouwerman, L. Tarchi, A. van Gorkom, J.	MPIfR Calif., Berkeley Boulder Radbound Univ. NFRA MPIfR CfA UNAM MPIfR NFRL CfA Jacobs NRAO-Socorro INAF Columbia Univ.	Proper motion of galaxies in a beyond the Local Group		1	11,12	24
BB309	Busch, M. Benner, L. Brisken, W. Brozovic, M. Giorgini, J. Margot, J. Nolan, M.	Calif., Los Angeles JPL NRAO-Socorro JPL JPL Calif., Los Angeles NAIC	Radar Speckle Observations of Asteroids During 2012		13	16	1
BC214	Cheung, T. Carpenter, B. Ciprini, S. Corbet, R. D'Ammando, F. Donato, D. Falco, E. Giroletti, M. Ojha, R. Orienti, M. Scargle, J.	NRL NASA Univ. of Perugia NASA INAF NASA CfA INAF NASA INAF NASA	Radio Imaging of a Gravitationally Lens Blazar Gamma-ray Outbursts		1,4,13	24,27,	3
BD152	Deller, A. Brisken, W. Chatterjee, S. Cordes, J. Goss, M. Kovaleb, Y. Lazio, J. Petrov, L.	NRAO NRAO-Socorro Cornell Cornell NRAO-Socorro Lebedev Inst. NRL NASA	PRSBI: Mapping the Galactic Distribution of pulsars with the VLBA		13,20	1,10,123,16,18,24	16.50
BD161	Deller, A. Middelberg, E.	NFRL Rught-Univ. Bochum	Characterizing the mJy compact radio souces population		20	11,12,16,17,22,23,24,28,29	18
BD166	Deller, A. Tingay, S.	ASTRON Curtin Univ.	A VLBA pulsar search: Surveying unidentified, highly variable FIRST sources		20	6	4.25
BD167	Deller, A. Demorest, P. Rosen, R.	ASTRON NRAO West Virginia	VLBA observations of the apparently associated pulsars J1830-1059 and J1830-1103		6	8	4
BL175	Lionard, L. Briceno, C. Dzib, S. Evans, N. Hartmann, L. Mioduszewski, A. Pech, G. Rodriguez, L. Torres, R.	UNAM CIDA UNAM Texas., Austin Mich., Ann Arbor NRAO-Socorro UNAM UNAM Bonn	The Gould's Belt Distances VLBA Survey		4	1,3,4,5,7,9,10,30	24
BL176	Loinard, L. Deller, A. Dzib, S. Gomez, Y. Mioduszewski, A. Rodriguez, L. Torres, R.	UNAM ASTRON UNAM UNAM NRAO-Socorro UNAM Bonn	The distance to Monoceros: one of the nearest high-mass star-forming regions		4	20,25	18

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BL178	Lister, M.	Purdue	The VLBA 2cm MOJAVE/Fermi Program		2	2,27	48
	Aller, M.	Mich., Ann Arbor					
	Aller, H.	Mich., Ann Arbor					
	Ashakian, T.	MPIfR					
	Boeck, M.	Nurembrug					
	Chang, C.	MPIfR					
	Gehrels, N.	NASA					
	Hogan, B.	Purdue Univ.					
	Homan, D.	Denison Univ.					
	Hovatta, T.	Purdue Univ.					
	Kadler, M.	Nuremburg					
	Kellermann, K.	NRAO					
	Kovalev, Y.	Lebedev					
	McEnery, J.	NASA					
	Pushkarev, A.	MPIfR					
	Ros, E.	Univ. of Valencia					
	Savolainen, T.	MPIfR					
	Zensus, A.	MPIfR					
BL186	Lobanov, A.	MPIfR	Phase-referencing measurements of positional shifts in ultra-compact AGN Cores		2,6	8	12
	Guirado, J.	Univ. of Valencia					
	Porcas, R.	MPIfR					
	Ros, E.	Univ. of Valencia					
BM352	Melis, C.	Calif., San Diego	A VLBA Resolution of the Pleiades Distance Controversy		4	1,8,15,23, 29	50
	Bower, G.	Calif., Berkeley					
	Mioduszewski, A.	NRAO-Socorro					
	Reid, M.	CfA					
	Stauffer, J.	Caltech					
BM360	Middleberg, E.	Ruhr-Univ. Bochum	The incidence and evolution of AGN in 2865 COSMOS radio sources		20	3,7,21,30	24
	Best, P.	Univ. of Edinburgh					
	Brisken, W.	NRAO-Socorro					
	Carilli, C.	NRAO-Socorro					
	Deller, A.	ASTRON					
	Momjian, E.	NRAO-Socorro					
	Norris, R.	ATNF					
	Schinnerer, E.	MPIA					
	Scoville, N.	Caltech					
	Smolcic, V.	ESO					
BO042	Orienti, M.	INAF	The Radio emission of the gamma-ray flaring FSRQ at the highest redshift		1,2,4	26	2
	Ajello, M.	SLAC					
	D'Ammando, F.	INAF					
	Giroletti, M.	INAF					
BP167	Porcas, R.	MPIfR	ICRF2 defining sources: investigating core-shifts		2,4,6,13	10,14,15	31.25
	Lobanov, A.	MPIfR					
BR145	Reid, M.	CfA	Mapping the Milky Way		1,2	20,23,24	21
	Bartkiewicz, A.	Nicolaus Copernicus					
	Brunthaler, A.	MPIfR					
	Choi, K.	MPIfR					
	Hachisuka, K.	Shanghai					
	Menten, K.	MPIfR					
	Moellenbrock, G.	NRAO-Socorro					
	Moscadelli, L.	Arectri					
	Sanna, A.	Arectri					
	Sato, M.	Tokyo					
	Xu, Y.	Chinese Academy					
	Zhang, B.	Nanjing Univ.					
	Zheng, X.	Nanjing Univ.					
BR149	Reid, M.	CfA	Mapping the Milky Way-A Copy of 09C-125/BR145 for New Project Code		4,6	11,14,16,1 7,21,22,25 ,29	51.50
	Bartkiewicz, A.	Nicolaus Copernicus					
	Brunthaler, A.	MPIfR					
	Choi, Y.	MPIfR					
	Dame, T.	CfA					
	Hachisuka, K.	Shanghai					
	Menten, K.	MPIfR					
	Moellenbrock, G.	NRAO-Socorro					
	Moscadelli, L.	INAF					
	Sanna, A.	MPIFR					
	Sato, M.	MPIfR					
	Xu, Y.	Chinese Academy					
	Zhang, B.	Nanjing Univ.					
	Zheng, X.	Nanjing Univ.					
BR169	Reines, A.	NRAO	Imaging the AGN in the Nearby Dwarf Starburst Galaxy Henize 2-10		20	9	5
	Deller, A.	ASTRON					

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
S4317	Chatterjee, S. Brisken, W. Cordes, J. Fernando, C. Fienga, A. Gullemot, L. Lazio, J. McLaughlin, M. Ransom, S. Ray, P. Romani, R. Smith, D. Theureau, G. Vlemmings, W.	Cornell NRAO-Socorro Cornell Columbia Univ. Obs. de Paris MPIfR JPL West Virginia NRAO NRL NRAO Obs. de Paris Obs. de Paris Bonn	Precision Distances and Velocities for Fermi-Detected Radio Pulsars		20	Daily	6
SD679	Hornschemeier, A. Ptak, A. Ajello, M. Argo, M. Bechtol, K. Brandt, N. Harrison, F. Maccarone, T. Stern, D. Tomsick, J. Venters, T.	NASA NASA Stanford Manchester Stanford Penn State Caltech Southhampton JPL Calif., Berkeley NASA	Broad-band (0.5-30 keV) X-ray imaging of starburst galaxies with Chandra and NuSTAR		20	2,18,	16

Based on Actual Hours Observed

The average downtime was 23.67 hours 5.90%

Actual observing time was 377.57 hours

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

Astronomical Observations = 55.73% (401.25 hours)
Tests and Calibrations = 9.06% (65.25 hours)
Maintenance = 7.92% (57.00 hours)
Number of unscheduled hours = 27.29% (196.50 hours)
Number of shutdown hours = 0.00% (00.00 hours)

Based on Scaled (128Mbps) Observing Hours

Number of scaled hours of astronomical observations = 2156.45 hrs

Downtime = 5.90% (127.231376 hours)

Actual observing = 2029.2326 hours

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB310	Brunthaler, A. Bower, G. Falcke, H. Henkel, C. Marti-Vidal, I. Menten, K. Reid, M.	MPIfR Calif., Berkeley Radbound Univ. MPIfR MPIfR MPIfR CfA	The Evolution of SN 2008iz in M82		4,6,13,20	25	12
BB315	Brunthaler, A. Berger, E. Bietenholz, M. Frail, D. Rupen, M. Soderberg, A. Zauderer, B.	MPIfR CfA York Univ. NRAO-Socorro NRAO-Socorro CfA CfA	VLBI observations Will Reveal the Nature of Tidal Disruption Event, Sw 1644+573		1,4	16	7
BB318	Bietenholz, M. Bartel, N. Brunthaler, A. Chomiuk, L. Rupen, M. Soderberg, A. Zauderer, B.	York Univ. York Univ. MPIfR CfA NRAO-Socorro CfA CfA	Measuring the Expansion Velocity and Deceleration of SN 2011dh		4	26	13
BD152	Deller, A. Brisken, W. Chatterjee, S. Cordes, J. Goss, M. Kovaleb, Y. Lazio, J. Petrov, L.	NRAO NRAO-Socorro Cornell Univ. Cornell NRAO-Socorro Lebedev Inst. NRL NASA	PSRPI: Mapping the Galactic distribution of pulsars with the VLBA		20	3,10,23,25 ,27,29,31	25
BD161	Deller, A. Middelberg, E.	NFRL Ruhr-Univ. Bochum	Characterizing the mJy compact radio sources population		20	8,9,10,11, 12,13,18	15
BJ079	Jones, D. Dhawan, V. Fomalont, E. Romney, J.	JPL NRAO-Socorro NRAO NRAO-Socorro	Planetary Ephemeris Improvement through Spacecraft Astrometry		4	2	4
BK179	King, A. Degenaar, N. Maitra, D. Miller, J. Mioduszewski, A. Reynolds, M.	Mich., Ann Arbor Mich., Ann Arbor Mich., Ann Arbor Mich., Ann Arbor NRAO-Socorro Mich., Ann Arbor	Resolving A New X-ray Binary Jet: MAXI J1910-057		4,6	27	4
BL178	Lister, M. Aller, M. Chang, C. Gehrels, N. Hogan, B. Homan, D. Hovatta, T. Kadler, M. Kellermann, K. Kovalev, Y. Pushkarev, A. Ros, E. Savolainen, T. Zensus, A.	Purdue Univ. Mich., Ann Arbor MPIfR NASA Purdue Univ. Denison Univ. Purdue Univ. Nuremburg NRAO Lebedev Inst. MPIfR Univ. of Valencia MPIfR MPIfR	The VLBA 2cm MOJAVE/Fermi Program		2	3	24
BM350	Ma, C. Behrend, D. Boboltz, D. Fey, A. Fomalont, E. Gaume, R. Gipson, J. Gordon, D. Johnston, K. Kingham, K. MacMillan, D. Ojha, R. Thomas, C. Walker, C.	NASA NASA USNO USNO NRAO USNO NASA NASA USNO USNO NASA USNO NASA NRAO-Socorro	VLBA Geodesy/Astrometry Observatiosn for 2011		4,13	22	24
BM352	Melis, C. Bower, G. Mioduszewski, A. Reid, M. Stauffer, J.	Calif., San Diego Calif., Berkeley NRAO-Socorro CfA Caltech	A VLBA Resolution of the Pleiades Distance Controversy		4.0	4,11,18	30

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BM353	Marscher, A. Agudo, I. Gomez, J. Hagen-Thorn, V. Jorstad, S. Larionov, V. MacDonald, N. Romney, J.	Boston Univ. IAA IAA St. Petersburg Boston Univ. St. Petersburg Boston Univ. NRAO-Socorro	Sub-parsec Imaging of the Gammar-ray Emission Regions of Blazars		0.7	13	24
BM360	Middleberg, E. Best, P. Brisken, W. Carilli, C. Deller, A. Momjian, E. Norris, R. Schinnerer, E. Scoville, N. Smolcic, V.	Ruhr-Univ. Bochum Univ. of Edinburgh NRAO-Socorro NRAO-Socorro ASTRON NRAO-Socorro ATNF MPIA Caltech ESO	The incidence and evolution of AGn in 2865 COSMOS radio sources		20	5,7,25,28, 30,31	36
BR149	Reid, M. Bartkiewicz, A. Brunthaler, A. Choi, Y. Dame, T. Hachisuka, K. Menten, K. Moellenbrock, G. Moscadelli, L. Sanna, A. Sato, M. Xu, Y. Zheng, X.	CfA Nicolaus Copernicus MPIfR MPIfR CfA Shanghai MPIfR NRAO-Socorro INAF MPIfR MPIfR CHinese Academy Nanjing	Mapping the Milky Way-A Copy of 09C-125/BR145 for New Project Code		4,6,13	7,18,20,21	18
BS208	Sanna, A. Brunthaler, A. Cesaroni, R. Ellingsen, S. Menten, K. Moscadelli, L. Reid, M.	MPIfR MPIfR INA Tasmania MPIfR INA CfA	Exploring the peculiar case of the star-forming region G9.62+0.20: water masers		1	1	8
BS213	Salter, D. Claussen, M. Mundy, L.	Univ. of Maryland NRAO-Socorro Univ. of Maryland	Resolving the Synchrontron Emission from Colliding Magnetospheres		4	17	10
BS215	Sivakoff, G. Knigge, C. Koerding, E. Miller-Joens, J.	Univ. of Alberta Southhampton Radbound Univ. Curtin Univ.	Resolving the controversial distance to SS Cyg		4	12	7
S4317	Chatterjee, S. Brisken, W. Cordes, J. Fernando, C. Fienga, A. Gullemot, L. Lazio, J. McLaughlin, M. Ransom, S. Ray, P. Romani, R. Smith, D. Theureau, G. Vlemmings, W.	Cornell Univ. NRAO-Socorro Cornell Univ. Columbia Univ. Obs. de Paris MPIfR JPL West Virginia NRAO NRL Stanford Obs. de Paris Obs. de Paris Bonn	Precison Distances and Velocties for Fermi-Detected Radio Pulsars		20	16,19,24,	15

Based on Actual Hours Observed

The average downtime was 25.51 hours 8.50%

Actual observing time was 300.20 hours

The VLBA was scheduled 100.00% of the time 744 hours of a possible 744 hours

Astronomical Observations = 40.35% (300.20 hours)
Tests and Calibrations = 9.46% (70.35 hours)
Maintenance = 13.04% (97.00 hours)
Number of unscheduled hours = 37.16% (276.45 hours)
Number of shutdown hours = 0.00% (00.00 hours)

Based on Scaled (128Mbps) Observing Hours

Number of scaled hours of astronomical observations = 2191.22 hrs

Downtime = 8.50% (186.253700 hours)

Actual observing = 2004.9663 hours

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Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB301	Blundell, K. Doolin, S. Goodall, P. Heywood, I. Perez, S.	Oxford Oxford Oxford Oxford Oxford	Precession of the circubinary ruff of the microquasar SS433 on milliarcs scales		20	22	11.5
BB309	Busch, M. Benner, L. Brisken, W. Brozovic, M. Giorgini, J. Margot, J. Nolan, M.	Calif., Los Angeles JPL NRAO-Socorro JPL JPL Calif., Los Angeles NAIC	Radar Speckle Observations of Asteroids Durin 2012		4	1	0.5
BC170	Claussen, M. Creeler, B. Pihlstrom, Y. Sahai, R.	NRAO-Socorro UNM UNM JPL	Parallax Measurements of Proto-Planetary and Young Planetary Nebulae		1,20	29	8.5
BD152	Deller, A. Brisken, W. Chatterjee, S. Cordes, J. Goss, M. Kovalev, Y. Lazio, J.	ASTRON NRAO-Socorro Cornell Univ. Cornell Unvi. NRAO-Socorro Lebedev Inst. NRL	PRSBI: Mapping the Galactic Distribution of Pulsars with the VLBA		20	2,4,9,19,20,26,30,31	25.25
BD161	Deller, A. Middleberg, E.	ASTRON Rugh-Univ. Bochum	Characterizing the mJy compact radio source population		20	1,2,15,16,17,18,20,21,23,28,29	22
BL175	Lionard, L. Briceno, C. Dzib, S. Evans, N. Hartmann, L. Mioduszewski, A. Pech, G. Rodriguez, L. Torres, R.	UNAM CIDA UNAM Texas., Austin Michigan., Ann Arbor NRAO-Socorro UNAM UNAM Bonn	The Gould's Belt Distances VLBA Survey		4	8	6
BL178	Lister, M. Aller, M. Chang, C. Gehrels, N. Hogan, B. Homan, D. Hovatta, T. Kadler, M. Kellerman, K. Kovalev, Y. Pushkarev, A. Ros, E. Savolainen, T. Zensus, A.	Purdue Michigan., Ann Arbor MPIfR NASA Purdue Denison Univ. Purdue Nuremburg NRAO Lebedev MPIfR Univ. of Valencia MPIfR MPIfR	The VLBA 2cm MOJAVE/Fermi Program		2	12	24
BM343	McClintock, J. Reid, M.	CfA CfA	Measuring the Parallaxes of the x-ray Binaries Cyg x-1, Cyg x-2, and Cyg x-3		1,2	6	7
BM352	Melis, C. Bower, G. Mioduszewski, A. Reid, M. Stauffer, J.	Calif., San Diego Calif., Berkeley NRAO-Socorro CfA Caltech	A VLBA Resolution of the Pleides Distance Controvery		4	7,21,28	30
BM353	Marscher, A. Agudo, I. Gomez, J. Hagen-Thron, V. Jorstad, S. Lariionov, V. MacDonald, N. Romney, J.	Boston Univ. IAA IAA St. Petersburgh Boston Univ. St. Petersburg Boston Univ. NRAO-Socorro	Sub-parsec Imaging of the Gamma-ray Emission Regions of Blazars		0.7	4	24
BM359	Mutel, R. Guedel, M. Lynch, C. Peterson, W.	Univ. of Iowa Univ. of Vienna Univ. of Iowa Univ. of Iowa	Polar-aligned Radio Structures in Active Late-type Binaries		2	9,10,13,24,25	50

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BM360	Middleberg, E. Best, P. Brisken, W. Carilli, C. Deller, A. Momjian, E. Norris, R. Schinnerer, E. Scoville, N. Smolcic, V.	Ruhr Univ. Bochum Univ. of Edinburgh NRAO-Socorro NRAO-Socorro ASTRON NRAO-Socorro ATNF MPIA Caltech ESO	The Inciedence and Evolution of AGN in 2865 COSMOS radio sources		20	14,15,19, 27,30,31	36
BM370	Markoff, S. Baganoff, F. Bower, G. Brunthaler, A. Doeleman, S. Falcke, H. Fish, V. Goldwurm, A. Krichbaum, T. Law, C. Maitra, D. Marrone, D. Morris, M. Neilsen, J. Nowak, M.	Univ. van Amsterdam MIT Calif., Berkeley MPIfR Haystack Obs. Radboud Univ. Haystack Obs. CEA MPIfR Calif., Berkeley Michigan., Ann Arbor Chicago Calif., Los Angeles MIT MIT	Triggering VLBA on SGR A* Flares: The search for variable Structure		0.7	21,24	13
BO042	Orienti, M. Ajello, M. D'Ammando, F. Giroietti, M.	INAF Stanford INAF INAF	The Radio emission of the gamma-ray flaring FSRQ at the highest redshift		1,2,4	23	2
BR149	Reid, M. Bartkiwewicz, A. Brunthaler, A. Choi, Y. Dame, T. Hachisuka, K. Menten, K. Moellenbrock, G. Moscadelli, L. Sanna, A. Sato, M. Xu, Y. Zhang, B. Zheng, X.	CfA Univ. of Torun MPIfR MPIfR CfA Shanghai Obs. MPIfR NRAO-Socorro INAF MPIfR MPIfR Chinese Academy MPIfR Nanjing Univ.	Mapping the Milky Way-A Copy of 09C-125/BR145 for New Project Code		4,6,13	13	7
BR152	Rodriguez, L. Gomez, Y. Loinard, L. Miodusewski, A.	UNAM UNAM UNAM NRAO-Socorro	The size and Morphology of the Non-Thermal Component in Cyg 082 #5		4	31	2.25
BR161	Rioja, M. Agudo, I. Dodson, R. Gomez, J. Jorstad, S. Marscher, A. Molina, S. Roy, A.	Western Australia Boston Univ. Western Australia IAA Boston Univ. Boston Univ. IAA MPIfR	High-Precision 22 & 43 GHz Astrometic Monitoring of the Cores in OJ87 & 3c273		0.7,1	22	12.5
BS207	Surcis, G. Curiel, S. Moscadelli, L. Torrelles, J. Vlemmings, W.	Bonn UNAM INA Inst. d'Estudis Bonn	Magnetic fields in massive star-forming regions measured using H2O masers		1	2,15	16
BS219	Salter, C. Ghosh, T. Minchin, R. Momjian, E.	NAIC NAIC NAIC NRAO-Socorro	A Remarkable Spectral Line/Continuum Outburst in NGC660		4,6	14,29	23

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
S4317	Chatterjee, S.	Cornell Univ.	Precison Distances and Velocties for		20	16	3
	Brisken, W.	NRAO-Socorro	Fermi-Detected Radio Pulsars				
	Cordes, J.	Cornell Univ.					
	Fernando, C.	Columbia Univ.					
	Fienga, A.	Obs. de Paris					
	Gullemot, L.	MPIfR					
	Lazio, J.	JPL					
	McLaughlin, M.	West Virginia					
	Ransom, S.	NRAO					
	Ray, P.	NRL					
	Romani, R.	Stanford					
	Smith, D.	Obs. de Paris					
	Theureau, G.	Obs. de Paris					
	Vlemmings, W.	Bonn					

Based on Actual Hours Observed

The average downtime was 25.58 hours 7.70%

Actual observing time was 332.30 hours

The VLBA was scheduled 100.00% of the time 744 hours of a possible 744 hours

Astronomical Observations = 44.66% (332.30 hours)
Tests and Calibrations = 11.58% (86.12 hours)
Maintenance = 8.88% (66.10 hours)
Number of unscheduled hours = 34.88% (259.48 hours)
Number of shutdown hours = 0.00% (00.00 hours)

Based on Scaled (128Mbps) Observing Hours

Number of scaled hours of astronomical observations = 2328.40 hrs

Downtime = 7.70% (179.287262 hours)

Actual observing = 2149.118738 hours

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB299	Boyles, J. Archibald, A. Deller, A. Hessels, J. Kaspi, V. Kondratiev, V. Lorimer, D. Lynch, R. McLaughlin, M. Ransom, S. Stairs, I van Leeuman, J.	West Virginia McGill Univ. NRAO ASTRON McGill Univ. NFRL West Virginia UVa Wet Virginia NRAO British Columbia ASTRON	Measuring the proper motion and parallax for nearby recycled pulsar J2222-0137		20	7,19	4
BB309	Busch, M. Benner, L. Brisken, W. Brozovic, M. Giorgini, J. Margot, J. Nolan, M.	Calif., Los Angeles JPL NRAO-Socorro JPL JPL Calif., Los Angeles NAIC	Radar Speckle Observations of Asteroids During 2012		13	22,24	2
BC201	Condon, J. Darling, J. Kovalev, Y. Petro, L.	NRAO Colo., Boulder Lebedev Inst. NASA	A Search for Offset Black Holes in Nearby Galaxies: Lowering the Detection Limit		4,13	2,5	9.75
BC207	Castangia, P. Caccianiga, A. Ceca, R. Severgnini, P. Tarchi, A.	INAF INAF INAF INAF INAF	The Nature of the water maser in the obscured nucleus of the Sy2 IRAS 15480-0344		1	2,3	10
BD152	Deller, A. Brisken, W. Chatterjee, S. Cordes, J. Goss, M. Kovalev, Y. Lazio, J. Petrov, L.	NRAO NRAO Cornell Univ. Cornell Univ. NRAO-Socorro Lebedev Inst. NRL NASA	PSRPI: Mapping the Galactic distribution of pulsars with the VLBA		20	1,5,6,8,9,11,12,15,16,17,18,22,27	35
BD161	Deller, A. Middelberg, E.	ASTRON ASTRON	Characterizing the mJy compact radio source population		20	4,5,6,8,9,10,11,12,14,18,19,21,22,23,24,25,28,29,30	35
BD166	Deller, A. Tingay, S.	ASTRON Curtin Univ.	A VLBA pulsar search: Surveying unidentified, highly variable FIRST souces		20	16,21	8
BG212	Gupta, N. Momjian, E. Srianand, R.	ASTRON NRAO-Socorro IUCAA	Physical conditions and small-scale structurre in the ISM of z=0.123 galaxy		20	15,17,22	10
BK172	Koyama, S. Giovannini, G. Giroletti, M. Hada, K. Kino, M. Nagai, H. Niinuma, K. Orienti, M.	Obs. of Japan Bologna INAF Obs. of Japan Obs. of Japan Obs. of Japan Obs. of Japan Bologna	Limits on the position wander of Mrk 501 cor at 7 mm		0.7	11	4
BK175	Kanekar, N. Momjian, E.	TIFR NRAO-Socorro	The covering factor of two high-redshift damped Lyman-alpha systems		20,90	6	4
BL178	Lister, M. Aller, M. Gehrels, N. Hovatta, T. Kadler, M. Kellermann, K. Kovalev, Y. Ros, E. Zensus, A.	Purdue Michigan., Ann Arbor NASA Purdue Erlangen-Nuremburg NRAO Lebedev Inst. Univ. of Valencia MPIfR	The VLBA 2cm MOJAVE/Fermi Program		2	25	24

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BM350	Behrend, D.	NASA	VLBA Geodesy/Astrometry Observations for 2011		4,13	27	24
	Boboltz, D.	USNO					
	Fey, A.	USNO					
	Fomalont, E.	NRAO					
	Gaume, R.	USNO					
	Gipson, J.	NASA					
	Gordon, D.	NASA					
	Johnston, K.	USNO					
	Kingham, K.	USNO					
	Ma, C.	NASA					
	MacMillan, D.	NASA					
	Ojha, R.	USNO					
	Thomas, C.	NASA					
	Walker, C.	NRAO-Socorro					
BM352	Melis, C.	Calif., San Diego	A VLBA Resolution of the Pleiades Distance Controversy		4	27	24
	Bower, G.	Calif., Berkeley					
	Mioduszewski, A.	NRAO-Socorro					
	Reid, M.	CfA					
	Stauffer, J.	Caltech					
BM359	Mutel, R.	Univ. of Iowa	Polar-aligned Radio Structures in Active Late-type Binaries		2	29	10
	Guedel, M.	Univ. of Vienna					
	Lynch, C.	Univ. of Iowa					
	Peterson, W.	Univ. of Iowa					
BM360	Middleberg, E.	ASTRON	The incidence and evolution of AGN in 2865 COSMOS radio sources		20	7,8,9,16,24	30
	Best, P.	Edinburgh					
	Brisken, W.	NRAO-Socorro					
	Carilli, C.	NRAO-Socorro					
	Deller, A.	NFRL					
	Momjian, E.	NRAO-Socorro					
	Norris, R.	ATNF					
	Schinnerer, E.	MPIA					
	Scoville, N.	Caltech					
	Smolcic, V.	ESO					
BO041	Ott, J.	NRAO-Socorro	Nature of a newly detected water maser in the core of Centaurus A		1	18,19	8.5
	Brisken, W.	NRAO-Socorro					
	Edwards, P.	ATNF					
	Henkel, C.	MPIfR					
	Impellizzeri, V.	NRAO					
	McCoy, M.	NMT					
	Meier, D.	NMT					
	Peck, A.	NRAO					
	Sebastien, M.	Onsala Obs.					
	Walter, F.	MPIA					
BR145	Reid, M.	CfA	Mapping the Milky Way		1	14,29	14
	Bartkiewicz, A.	Univ. of Torun					
	Brunthaler, A.	MPIfR					
	Choi, Y.	MPIfR					
	Dame, T.	CfA					
	Hachisuka, K.	Shanghai					
	Menten, K.	MPIfR					
	Moellenbrock, G.	NRAO-Socorro					
	Moscadelli, L.	Arcetri					
	Sanna, A.	Arcetri					
	Sato, M.	Tokyo					
	Xu, Y.	Chinese Obs.					
	Zhang, B.	Nanjing					
	Zheng, X.	Nanjing					
BR149	Reid, M.	CfA	Mapping the Milky Way- A copy of 90C_125 / BR145 for New Project Code		6	1,2,5,	8.5
	Bartkiewicz, A.	Univ. of Torun					
	Brunthaler, A.	MPIfR					
	Choi, Y.	MPIfR					
	Dame, T.	CfA					
	Hachisuka, K.	Shanghai					
	Menten, K.	MPIfR					
	Molenbrock, G.	NRAO-Socorro					
	Moscadelli, L.	Arcetri					
	Sanna, A.	MPIfR					
	Sato, m.	MPIfR					
	Xu, Y.	Chinse Obs.					
	Zhang, B.	MPIfR					
	Zheng, X.	Nanjing					

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BS207	Surcis, G. Curiel, S. Moscadelli, L. Torrelles, J. Vlemmings, W.	Bonn UNAM Arcetri IEEC Bonn	Magnetic fields in massive star-forming regions measured using H2O masers		1	24	8
BT114	Tremblay, S. Taylor, G.	UNM UNM	Follow up of the Candidate Recoiling Black Hole J11584+2450		2,4,20	11	10
BT121	Tingay, S. Wayth, R.	Curtin Univ. Curtin Univ.	Searching for dual radio cores in AGN with double-peaked optical emission lines		20	17	6
GF018	Fenech, D. Argo, M. Beswick, R. Gendre, M. Muxlow, T.	London ASTRON Manchester Manchester Manchester	Hig-resolution, multi-frequency mapping of the compact sources in M82		6,20	3,13	48
S4317	Chatterjee, S. Brisken, W. Cordes, J. Fernando, C. Fienga, A. Gullemot, L. Lazio, J. McLaughlin, M. Ransom, S. Ray, P. Romani, R. Smith, D. Theureau, G. Vlemmings, W.	Cornell Univ. NRAO-Socorro Cornell Univ. Columbia Univ. Obs. de Paris MPIfR JPl West Virginia NRAO NRL Stanford Obs. de Paris Obs. de Paris Bonn	Precison Distances and Velocties for Fermi-Detexted Radio Pulsars		20	2,5,8,15,21	21

Based on Actual Hours Observed

The average downtime was 19.16 hours 5.10%

Actual observing time was 375.75 hours

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

Astronomical Observations = 52.19% (375.75 hours)
Tests and Calibrations = 10.67% (76.85 hours)
Maintenance = 14.31% (103.00 hours)
Number of unscheduled hours = 22.83% (164.40 hours)
Number of shutdown hours = 0.00% (00.00 hours)

Based on Scaled (128Mbps) Observing Hours

Number of scaled hours of astronomical observations = 1809.98 hrs

Downtime = 5.10% (92.309082 hours)

Actual observing = 1717.672918 hours

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB301	Blundell, K. Doolin, S. Goodall, P. Heywood, I. Perez, S.	Oxford Oxford Oxford Oxford Oxford	Precession of the circumbinary ruff of the microquasar SS433 on milliarcs scales		20	8	11.25
BB313	Braatz, J. Condon, J. Greene, J. Henkel, C. Impellizzeri, V. Kuo, C. Lo, K.Y. Reid, M.	NRAO NRAO Princeton MPIfR NRAO UVa NRAO CfA	The Megamaser Cosmology Project. V		1	9	12
BC170	Creeler, B. Claussen, M. Pihlstrom, Y. Sahai, R.	UNM NRAO-Socorro UNM JPL	Parallax Measurements of Proto-Planetary and Young Planetary Nebulae		1,20	26	8.25
BC201	Condon, J. Darling, J. Lovalev, Y. Petrov, L.	NRAO Boulder Lebedev NASA-GSFC	A Search for Offset Black Holes in Nearby Galaxies: Lowering the Detection Limit		4,13	1,6,13	17.50
BD152	Deller, A. Brisken, W. Chatterjee, S. Cordes, J. Goss, M. Kovalev, Y. Lazio, J. Petrov, L.	ASTRON NRAO-Socorro Cornell Univ. Cornell Univ. NRAO-Socorro Lebedev Inst. NRL NASA-GSFC	PSRPI: Mapping the Galactic Distribution of Pulsars with the VLBA		20	1,2,6,25,31	17.25
BD161	Deller, A. Middleberg, E.	ASTRON Ruhr-Univ. Bochum	Characterizing the mJy compact radio source population		20	5,8,12,13,15	17
BE061	Eckart, A. Krichbaum, T. Moser, L. Rashed, Y. Ros, E. Zensus, A.	Univ. of Cologne MPIfR Univ. of Cologne Univ. of Cologne Univ. of Valencia MPIfR	Coordinated observatons of SfrA*: A triggering 43 GHz phase referencing		0.7	16,17,18	16.50
BK172	Koyama, S. Giovannini, G. Giroletti, M. Hada, K. Kino, M. Nagai, H. Ninuma, K. Orienti, M.	NAO INAF INAF NAO NAO NAO NAO INAF	Limits on the postion wander of Mrk 501 core at 7mm		0.7	6	4
BL175	Loinard, L. Briceno, C. Dzib, S. Evans, N. Hartmann, l. Mioduszewski, A. Pech, G. Rodriguez, L. Torres, R.	UNAM CIDA UNAM Texas., Austin Michigan., Ann Arbor NRAO-Socorro UNAM UNAM Bonn	The Gould's Belt Distances VLBA Survey		4	1,5,9,11,12	15
BL178	Lister, M. Aller, M. Chang, C. Gehrels, N. Hogan, B. Homan, D. Hovatta, T. Kadler, M. Kellerman, K. Kovalev, Y. Pushkarev, A. Ros, E. Savolainen, T. Zensus, A.	Purdue Michigan., Ann Arbor MPIfR NASA Purdue Denison Univ. Purdue Nuremburg NRAO Lebedev MPIfR Univ. of Valencia MPIfR MPIfR	The VLBA 2cm MOJAVE/Fermi Program		2	24	24
BM343	McClintock, J. Reid, M.	CfA CfA	Measuring the Parallaxes of the X-ray Binaries Cyg X-1,Cyg X-2 and Cyg X-3		1,2	4	7

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BM352	Melis, C.	Calif., San Diego	A VLBA Resolution of the Pleiades Distance Controvery		4	5,12,19,25	40
	Bower, G.	Calif., Berkeley					
	Mioduszewski, A.	NRAO-Socorro					
	Reid, M.	CfA					
	Stauffer, J.	Caltech					
BM353	Marscher, A.	Boston Univ.	Sub-parsec Imaging of the Gamma-ray Emission Regions of Blazars		0.7	26	24
	Agudo, I.	IAA					
	Gomez, J.	IAA					
	Hagen-Thron, V.	St. Petersburg					
	Jorstad, S.	Boston Univ.					
	Larionov, V.	St. Petersburg					
	MacDonald, N.	Boston Univ.					
	Romney, J.	NRAO-Socorro					
BM360	Middleberg, E.	Ruht-Unvi. Bochum	The Inciedence and Evolution of AGN in 2865 COSMOS radio sources		20	11,22	12
	Best, P.	Univ. of Edinburgh					
	Brisken, W.	NRAO-Socorro					
	Carilli, C.	NRAO-Socorro					
	Deller, A.	ASTRON					
	Momjian, E.	NRAO-Socorro					
	Norris, R.	ATNF					
	Schinnerer, E.	MPIA					
	Scoville, N.	Caltech					
	Smolcic, V.	ESO					
BO041	Ott, J.	NRAO-Socorro	Nature of a newly detected water maser in the core of Centaurus A		1	7	4.25
	Brisken, W.	NRAO-Socorro					
	Edwards, P.	ATNF					
	Henkel, C.	MPIfR					
	Impellizzeri, V.	NRAO					
	McCoy, M.	NMT					
	Meier, D.	NMT					
	Peck, A.	NRAO					
	Sebastien, M.	Onsala Space Obs.					
	Walter, F.	MPIA					
BO042	Orienti, M.	INAF	The Radio emission of the gamma-ray flaring FSRQ at the highest redshift		1,2,4	22	2
	Ajello, M.	SLAC					
	D'Ammando, F.	INAF					
	Giroletti, M.	INAF					
BR145	Reid, M.	CfA	Mapping the Milky Way		1	7,9,13,14	28
	Bartkiewicz, A.	UNC					
	Brunthaler, A.	MPIfR					
	Choi, K.	MPIfR					
	Hachisuka, K.	Shanghai					
	Menten, K.	MPIfR					
	Moellenbrock, G.	NRAO-Socorro					
	Morscadelli, L.	Arectri					
	Sanna, A.	Arectri					
	Sato, M.	Tokyo					
	Xu, Y.	Chinese Obs.					
	Zhang, B.	Nanjing					
	Zheng, X.	MPIfR					
BR149	Reid, M.	CfA	Mapping the Milky Way-A Copy of 09C-125/BR145 for New Project Code		6	31	2.5
	Bartkiewicz, A.	Nicolaus Copernicus					
	Brunthaler, A.	MPIfR					
	Choi, Y.	MPIfR					
	Dame, T.	CfA					
	Hachisuka, K.	SHAO					
	Menten, K.	MPIfR					
	Moellenbrock, G.	NRAO-Socorro					
	Moscadelli, L.	INAF					
	Sanna, A.	MPIfR					
	Sato, M.	MPIfR					
	Xu, Y.	Chinese Academy					
	Zhang, B.	MPIfR					
	Zheng, X.	Nanjing Univ.					
BR152	Rodriguez, L.	UNAM	The size and Morphology of the Non-Thermal Component in Cyg 082 #5		4	23	2
	Gomez, Y.	UNAM					
	Loinard, L.	UNAM					
	Miodusewski, A.	NRAO-Socorro					

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BR161	Rioja, M. Agudo, I. Dodson, R. Gomez, J. Jorstad, S. Marscher, A. Molina, S. Roy, A.	Western Australia Boston Univ. Western Australia IAA Boston Univ. Boston Univ. IAA MPIfR	High-Precision 22 & 43 GHz Astrometic Monitoring of the Cores in OJ287 & 3C273		0.7,1	1	12.5
BS208	Sanna, A. Brunthaler, A. Cesaroni, R. Ellingsen, S. Menten, K. Moscadelli, L. Reid, M.	MPIfR MPIfR INA Tasmania MPIfR INA CfA	Exploring the peculiar case of the star-forming region G9.62+0.20:water masers		1	3	8
GB073	Bourda, G. Charlot, P. Collioud, A. Garrington, S. Porcas, R.	Bordeaux Bordeaux Bordeaux Jodrell Bank MPIfR	Searching for candidate radio sources for the Gaia astrometric link. IV		4,13	27	72
GF017	Fuhrmann, L. Angelakis, E. Ciprini, S. Giroletti, M. Krichbaum, T. Orienti, M. Zensus, J.	MPIfR MPIfR INFN INAF MPIfR INAF MPIfR	The y-ray outburst of PKS 1502+106 in 2008 discovered by Fermi-GST Search for the y-ray emission side		0.3	18	14.50
GG072	Giroletti, M. Chiaberge, M. Cotton, B. Feretti, L. Giovannini, G. Orienti, M. Torres, M.	INAF INAF NRAO INAF INAF INAF CSIC	Global millimeter VLBI observations of Markarian 501 and Markarian 421		0.3	19	6.5
GM069	Marscher, A. Agudo, I. Bremer, M. Fuhrmann, L. Jorstad, S. Kovalev, Y. Krichbaum, T. Marti-Vidal, I. Savolainen, T.	Boston Univ. IAA IRAM MPIfR Boston Univ. Lebedev MPIfR MPIfR MPIfR	Continued 3mm Imaging of Gamma-Ray Blazars		0.3	18,19	75.5
S4317	Chatterjee, S. Brisken, W. Cordes, J. Fernando, C. Fienga, A. Guillemot, L. Lazio, J. McLaughlin, M. Ransom, S. Ray, P. Romani, R. Smith, D. Theureau, G. Vlemmings, W.	Cornell Univ. NRAO-Socorro Cornell Unvi. Columbia Univ. Obs. de Paris MPIfR JPL West Virginia NRAO NRL Stanford Obs. de Paris Obs. de Paris Bonn	Precison Distances and Velocties for Fermi-Detected Radio Pulsars		20	6,11,23	9

Based on Actual Hours Observed

The average downtime was 47.04 hours 10.10%

Actual observing time was 418.70 hours

The VLBA was scheduled 100.00% of the time 744 hours of a possible 744 hours

Astronomical Observations = 62.60% (465.75 hours)
Tests and Calibrations = 84.25% (11.32 hours)
Maintenance = 7.96% (59.20 hours)
Number of unscheduled hours = 18.12% (134.80 hours)
Number of shutdown hours = 0.00% (00.00 hours)

Based on Scaled (128Mbps) Observing Hours

Number of scaled hours of astronomical observations = 2110.64 hrs

Downtime =10.10% (213.175451 hours)

Actual observing = 1897.472600 hours

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB303	Brunthaler, A. Bower, G. Darling, J. Falcke, H. Garrett, M. Henkel, C. Loeb, A. Loinard, L. Menten, K. Oosterloo, T. Reid, M. Roediger, E. Sjouwerman, L. Tarchi, A. van Gorkom, J.	MPIfR Calif., Berkeley Boulder Radbound Univ. NFRA MPIfR CfA UNAM MPIfR NFRL CfA Jacobs NRAO-Socorro INAF Columbia Univ.	Proper motion of Galaxies in a beyond the Local Group		1	6,9,21,29	48
BB313	Braatz, J. Condon, J. Greene, J. Henkel, C. Impellizzeri, V. Kuo, C. Lo, K.Y. Reid, M.	NRAO NRAO Princeton MPIfR NRAO UVa NRAO CfA	The Megamaser Cosmology Project. V		1	4,10,14,17,21,22,23,27,29	20
BB315	Brunthaler, A. Berger, E. Bietenholz, M. Frail, D. Rupen, M. Soderberg, A. Zauderer, B.	MPIfR CfA York NRAO-Socorro NRAO-Socorro CfA CfA	VLBI observations will reveal the nature of tidal disruption even, Sw 1644+573		1,4	12	0.7
BC201	Condon, J. Darling, J. Lovalev, Y. Petrov, L.	NRAO Boulder Lebedev NASA-GSFC	A Search for Offset Black Holes in Nearby Galaxies: Lowering the Detection Limit		4,13	2,5,9,10,22	30.5
BD152	Deller, A. Brisken, W. Chatterjee, S. Cordes, J. Goss, M. Kovalev, Y. Lazio, J. Petrov, L.	ASTRON NRAO-Socorro Cornell Univ. Cornell Univ. NRAO-Socorro Lebedev Inst. NRL NASA-GSFC	PSRPI: Mapping the Galactic distribution of pulsars with the VLBA		20	5,6,7,14,16,17,22,23,24,26,27,29	35
BD161	Deller, A. Middleberg, E.	ASTRON Ruhr-Univ. Bochum	Characterizing the mJy compact radio source population		20	1,5,4,7,8,11,17,20,23	25
BL175	Lionard, L. Briceno, C. Dzib, S. Evans, N. Hartmann, L. Mioduszewski, A. Pech, G. Rodriguez, L. Torres, R.	UNAM CIDA UNAM Texas., Austin Michigan., Ann Arbor NRAO-Socorro UNAM UNAM Bonn	The Gould's Belt Distances VLBA Survey		4	9,16,21,24,29	18
BL176	Lionard, L. Deller, A. Dzib, S. Gomez, Y. Mioduszewski, A. Rodriguez, L. Torres, R.	UNAM NRAO-Socorro UNAM UNAM NRAO-Socorro UNAM Bonn	The distance to Monoceros: one of the nearest hig-mass star-forming regions		4	1	9

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BL178	Lister, M.	Purdue	The VLBA 2cm MOJAVE/Fermi Program		2	30	24.25
	Aller, M.	Michigan., Ann Arbor					
	Chang, C.	MPIfR					
	Gehrels, N.	NASA					
	Hogan, B.	Purdue					
	Homan, D.	Denision Univ.					
	Hovatta, T.	Purdue					
	Kadler, M.	Nuremburg					
	Kellerman, K.	NRAO					
	Kovalev, Y.	Levedev					
	Pushkarev, A.	MPIfR					
	Ros, E.	Univ. of Valencia					
	Savolainen, T.	MPIfR					
	Zensus, A.	MPIfR					
BL180	Linford, J.	UNM	Exploring the Parsec-scale Enviroments of Fermi AGN		1,2,4	22	12
	Schinzel, F.	MPIfR					
	Taylor, G.	UNM					
	Zavala, R.	USNO					
BM350	Ma, C.	NASA-GSFC	VLBA Geodesy/Astrometry Observatios for 2011		4,13	18	24
	Behrend, D.	NASA-GSFC					
	Boboltz, D.	USNO					
	Fey, A.	USNO					
	Fomalont, E.	NRAO					
	Gaume, R.	USNO					
	Gipson, J.	NASA					
	Gordon, D.	NASA					
	Johnston, K.	USNO					
	Kingham, K.	USNO					
	Macmilan, D.	NASA-GSFC					
	Ojha, R.	USNO					
	Thomas, C.	NASA-GSFC					
	Walker, C.	NRAO-Socorro					
BM352	Melis, C.	Calif., San Diego	A VLBA Resolution of the Pleiades Distance Controversy		4	1,7,14,28	31.75
	Bower, G.	Calif., Berkeley					
	Mioduszewski, A.	NRAO-Socorro					
	Reid, M.	CfA					
	Stauffer, J.	Caltech					
BM353	Marscher, A.	Boston Univ.	Sub-parsec Imaging of the Gamma-ray Emission Regions of Blazars		0.7	2	24
	Agudo, I.	IAA					
	Gomez, J.	IAA					
	Hagen-Thron, V.	St. Petersburg					
	Jorstad, S.	Boston Univ.					
	Larionov, V.	St. Petersburg					
	MacDonald, N.	Boston Univ.					
	Romney, J.	NRAO-Socorro					
BM360	Middelberg, E.	Ruht-Univ. Bochum	The Incidence and Evolution of AGN in 2865 COSMOS radio sources		20	4,7,8,15	24
	Best, P.	Univ. of Edinburgh					
	Brisken, W.	NRAO-Socorro					
	Carilli, C.	NRAO-Socorro					
	Deller, A.	ASTRON					
	Momjian, E.	NRAO-Socorro					
	Norris, R.	ATNF					
	Schinnerer, E.	MPIA					
	Scoville, N.	Caltech					
	Smolcic, V.	ESO					
BR145	Reid, M.	CfA	Mapping the Milky Way		1	1,2,4,8,10,13,15,18	56.50
	Bartkiewicz, A.	UNC					
	Brunthaler, A.	MPIfR					
	Choi, K.	MPIfR					
	Hachisuka, K.	Shanghai					
	Menten, K.	MPIfR					
	Moellenbrock, G.	NRAO-Socorro					
	Morscadelli, L.	Arcetri					
	Sanna, A.	Arectri					
	Sato, M.	Toyko					
	Xu, Y.	Chinese Obs.					
	Zhang, B.	Nanjing					
	Zhang, Y.	Nanjing					
	Zheng, X.	MPIfR					
BS213	Salter, D.	Univ. of Maryland	Resolving the Synchrontron Emission from Colliding Magnetospheres		4	12	10
	Claussen, M.	NRAO-Socorro					
	Mundy, L.	Univ. of Maryland					
S4172	Jorstad, S.	Boston Univ.	Exploration of Gamma-Ray Blazars Acorss the Electromagentic Spectrum		0.7	15,19,27	48
	Marscher, A.	Boston Univ.					

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
S4317	Chatterjee, S.	Cornell Univ.	Precison Distances and Velocties for		20	8,11,20,23	12
	Brisken, W.	NRAO-Socorro	Fermi-Detected Radio Pulsars				
	Cordes, J.	Cornell Univ.					
	Fernando, C.	Columbia Univ.					
	Fienga, A.	Obs. de Paris					
	Guillemot, L.	MPIfR					
	Lazio, J.	JPL					
	McLaughlin, M.	West Virginia					
	Ransom, S.	NRAO					
	Ray, P.	NRL					
	Romani, R.	Stanford					
	Smith, D.	Obs. de Paris					
	Theureau, G.	Obs. de Paris					
	Vlemmings, W.	Bonn					

Based on Actual Hours Observed

The average downtime was 26.79 hours 5.80%

Actual observing time was 435.20 hours

The VLBA was scheduled 100.00% of the time 720 hours of a possible 744 hours

Astronomical Observations = 64.17% (462.00 hours)
Tests and Calibrations = 5.38% (38.70 hours)
Maintenance = 10.11% (72.80 hours)
Number of unscheduled hours = 20.35% (146.50 hours)
Number of shutdown hours = 0.00% (00.00 hours)

Based on Scaled (128Mbps) Observing Hours

Number of scaled hours of astronomical observations = 2309.33 hrs

Downtime = 5.80% (133.941024 hours)

Actual observing = 2175.386976 hours

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB301	Blundell, K. Doolin, S. Goodall, P. Heywood, I. Perez, S.	Oxford Oxford Oxford Oxford Oxford	Precession of the circumbinary ruff of the Microquasar SS433 on milliarcs scales		20	10	11.25
BC201	Condon, J. Darling, J. Kovalev, Y. Petrov, L.	NRAO Boulder Lebedev NASA-GSFC	A Search for Offset Black Holes in Nearby Galaxies: Lowering the Detection Limit		4,13	7,9,11,13,14,15,17,26,27	63.25
BD152	Deller, A. Brisken, W. Chatterjee, S. Cordes, J. Goss, M. Kovalev, Y. Lazio, J. Petrov, L.	ASTRON NRAO-Socorro Cornell Univ. Cornell Univ. NRAO-Socorro Lebedev Inst. NRL NASA-GSFC	PSRPI:Mapping the Galactic distribution of pulsars with the VLBA		20	2,13,14,24,27,29	20
BD161	Deller, A. Middleberg, E.	ASTRON Ruhr-Univ. Bochum	Characterizing the mJy compact radio source population		20	3,4,6,7,8,9,11,12,13,14,16,17,20,23,24	45
BK172	Koyama, S. Giovannini, G. Giroletti, M. Hada, K. Kino, M. Nagai, H. Ninuma, k. Orienti, M.	NAO INAF INAF NAO NAO NAO NAO INAF	Limits on the postion wander of Mrk 501 core at 7mm		0.7	16	4
BL175	Loinard, L. Briceno, C. Dzib, S. Evans, N. Hartmann, L. Mioduszewski, A. Pech, G. Rodriguez, L. Torres, R.	UNAM CIDA UNAM Texas., Austin Michigan., Ann ARbor NRAO-Socorro UNAM UNAM Bonn	The Gould's Belt Distances VLBA Survey		4	13,25	11
BL178	Lister, M. Aller, M. Chang, C. Hogan, B. Homan, D. Hovatta, T. Kadler, M. Kellerman, K. Kovalev, Y. Pushkarev, A. Ros, E. Savolainen, T. Zensus, A. Gehrels, N.	Purdue Michigan., Ann Arbor MPIfR Purdue Denison Univ. Purdue Nuremburg NRAO Lebedev MPIfR Univ. of Valencia MPIfR MPIfR NASA	The VLBA 2cm MOJAVE/Fermi Program		2	4,27	48
BL180	Linford, J. Schinzel, F. Taylor, G. Zavala, R.	UNM MPIfR UNM USNO	Exploring the Parsec-scale Environments of Fermi AGN		1,2,4	12,25,30	36.25
BM352	Melis, C. Bower, G. Mioduszewski, A. Reid, M. Stauffer, J.	Calif., San Diego Calif., Berkeley NRAO-Socorro CfA Caltech	A VLBA Resolution of the Pleiades Distance Controversy		4	2,16,23,31	38.50
BM353	Marscher, A. Agudo, I. Gomez, J. Hagen-Thron, V. Jorstad, S. Larionov, V. MacDonald, N. Romney, J.	Boston Univ. IAA IAA St. Petersburg Boston Univ. St. Petersburg Boston Univ. NRAO-Socorro	Sub-parsec Imaging of the Gamma-ray Emission Regions of Blazars		0.7	5	24

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BM370	Markoff, S. Baganoff, F. Bower, G. Brunthaler, A. Doeleman, S. Falcke, H. Fish, V. Goldwurm, A. Krichbaum, T. Law, C. Maitra, D. Marrone, D. Morris, M. Neilsen, J. Nowak, M.	Univ. van Amsterdam MIT Calif., Berkeley MPIfR Haystack Obs. Radboud Univ. Haystack Obs. CEA MPIfR Calif., Berkeley Michigan., Ann Arbor NRAO Calif., Los Angeles MIT MIT	Triggering VLBA on SGR A* Flares: The Search for Variable Structure		0.7	19	6.5
BM371	Middleton, M. Fender, R. Henze, M. Markoff, S. Miller-Jones, J. Roberts, T.	Univ. of Durham Univ. of Southampton MPE Univ. van Amsterdam Curtin Univ. Univ. of Durham	Resolving the nature of the only ULX jet detected in the radio band		4	22	8
BR145	Reid, M. Bartkiewicz, A. Brunthaler, A. Choi, K. Hachisuka, k. Menten, K. Moellenbrock, G. Morscadelli, L. Sanna, A. Sato, M. Xu, Y. Zhang, B. Zhang, Y. Zheng, X.	CfA UNC MPIfR MPIfR Shanghai MPIfR NRAO-Socorro Arcetri Arcetri Toyko Chinese Obs. Nanjing Nanjing MPIfR	Mapping the Milky Way		1	6,8,11,17, 18,22,23,2 4,26,31	67.5
BR152	Rodriguez, L. Gomez, Y. Loinard, L. Miodusewski, A.	UNAM UNAM UNAM NRAO-Socorro	The size and Morphology of the Non-Thermal Component in Cyg O82 #5		4	30	2.25
BR155	Rioja, M. Bujarrabal, V. Diamond, P. Dodson, R.	Western Australia Geografico Nacional Jodrell Bank Western Australia	Study of the Astrometric Alignment of SiO Maser Emission at 43/86-GHz in AGBs		0.3,7	25	6.25
BS207	Surcis, G. Curiel, S. Moscadelli, L. Torrelles, J. Vlemmings, W.	Bonn UNAM INA Inst. d'Estudis Bonn	Magnetic fields in massive star-forming regions measured using H2O masers		1	3,15	16
BT120	Tarchi, A. Bassani, L. Bazzano, A. Castangia, P. Malizia, A. Panessa, F.	INAF INAF INAF INAF INAF INAF	VLBA observations of the nearby binary AGN system Mrk739		20	29	7
BW096	Wayth, R. Brisken, W. Deller, A. Majid, W. Thompson, D. Tingay, S. Wagstaff, K.	Curtin Univ. NRAO-Socorro ASTRON JPL JPL Curtin Univ. JPL	A VLBA 330 MHz survey fro M81/M82 transients on timescales of ms to Ms		90	1	1

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
S4317	Chatterjee, S.	Cornell Univ.	Precison Distanes and Velocities for		20	1,18,27	9
	Brisken, W.	NRAO-Socorro	Fermi-Detected Radio Pulsars				
	Cordes, J.	Cornell Univ.					
	Fernando, C.	Columbia Univ.					
	Fienga, A.	Obs. de Paris					
	Guillemot, L.	MPIfR					
	Lazio, J.	JPL					
	McLaughlin, M.	West Virginia					
	Ransom, S.	NRAO					
	Ray, P.	NRL					
	Romani, R.	Stanford					
	Smith, D.	Obs. de Paris					
	Theureau, G.	Obs. de Paris					
	Vlemmings, W.	Bonn					

Based on Actual Hours Observed

The average downtime was 19.96 hours 4.70%

Actual observing time was 404.78 hours

The VLBA was scheduled 100.00% of the time 744 hours of a possible 744 hours

Astronomical Observations = 57.09% (424.75 hours)
Tests and Calibrations = 11.72% (87.20 hours)
Maintenance = 10.31% (76.70 hours)
Number of unscheduled hours = 20.88% (155.35 hours)
Number of shutdown hours = 0.00% (00.00 hours)

Based on Scaled (128Mbps) Observing Hours

Number of scaled hours of astronomical observations = 2113.24 hrs

Downtime = 4.70% (99.322468 hours)

Actual observing = 2013.92153 hours

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB303	Brunthaler, A. Bower, G. Darling, J. Falcke, H. Garrett, M. Henkel, C. Loeb, A. Loinard, L. Menten, K. Oosterloo, T. Reid, M. Roediger, E. Sjouwerman, L. Tarchi, A. van Gorkom, J.	MPIfR Calif., Berkeley Boulder Radbound Univ. NFRA MPIfR CfA UNAM MPIfR NFRL CfA Jacobs Univ. NRAO-Socorro INAF Columiba Univ.	Proper motion of Galaxies in and beyond the Local Group		1	4	16
BB309	Busch, M. Benner, L. Brisken, W. Brozovic, M. Giorgini, J. Margot, J. Nolan, M.	Calif., Los Angeles JPL NRAO-Socorro JPL JPL Calif., Los Angeles NAIC	Radar Speckle Observations at Asteroids During 2012		13	23	1.25
BB313	Braatz, J. Condon, J. Greene, J. Henkel, C. Impellizzeri, V. Kuo, C. Lo, K.Y. Reid, M.	NRAO NRAO Princeton MPIfR NRAO UVa NRAO CfA	The Megamaser Cosmology Project. V		1	2,5,26	26
BC201	Condon, J. Darling, J. Kovalev, Y. Petrov, L.	NRAO Boulder Lebedev NASA-GSFC	A Search for Offset Black Holes in Nearby Galaxies: Lowering the Detection Limit		4,13	2,3,8,10,13,14,20,21,25,29	69.25
BD152	Deller, A. Brisken, W. Chatterjee, Sh. Cordes, J. Goss, M. Kovalev, Y. Lazio, J. Petrov, L.	ASTRON NRAO-Socorro Cornell Univ. Cornell Univ. NRAO-Socorro Lebedev Inst. NRL NASA-GSFC	PSRPI: Mapping the Galactic distribution of pulsars with the VLBA		20	2,18,19,20,24,26	17.25
BD161	Deller, A. Middleberg, E.	ASTRON Ruhr-Univ. Bochum	Characterizing the mJy compact radio source population		20	10,12,14,20,21,24,25,26,27,28	26
BJ067	Jones, D. Border, J. Dhawan, V. Fomalont, E. Lanyi, G. Romney, J.	JPL JPL NRAO-Socorro NRAO JPL NRAO-Socorro	VLBA Astrometery of Cassini: The Sequel		4,13	5	4.75
BK172	Koyama, S. Giovannini, G. Giroletti, M. Hada, K. Kino, M. Nagai, H. Ninuma, K. Orienti, M. Orienti, M.	NAO INAF INAF NAO NAO NAO NAO INAF INAF	Limits on the postion wander of Mrk 501 core at 7 mm		0.7	12	4
BL178	Lister, M. Aller, M. Chang, C. Gehrels, N. Hogan, B. Homan, D. Hovatta, T. Kadler, M. Kellerman, K. Kovalev, Y. Pushkarev, A. Ros, E. Savolainen, T. Zensus, A.	Purdue Michigan., Ann Arbor MPIfR NASA Purdue Denison Univ. Purdue Nuremburg NRAO Lebedev MPIfR Univ. of Valencia MPIfR MPIfR	The VLBA 2cm MOJAVE/Fermi Program		2	6	24

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BL180	Linford, J. Schinzel, F. Taylor, G. Zavala, R.	UNM MPIfR UNM USNO	Exploring the Parsec-scale Environments of Fermi AGN		1,2,4	27	12
BM350	Ma, C. Behrend, D. Boboltz, D. Fey, A. Fomalont, E. Gaume, R. Gipson, J. Gordon, D. Johnston, K. Kingham, K. Macmilan, D. Ojha, R. Thomas, C. Walker, C.	NASA-GSFC NASA-GSFC USNO USNO NRAO USNO NASA NASA USNO USNO NASA-GSFC USNO NASA-GSFC NRAO-Socorro	VLBA Geodesy/Astrometry Observations for 2011		4,13	8	24
BM352	Melis, C. Bower, G. Mioduszewski, A. Reid, M. Stauffer, J.	Calif., San Diego Calif., Berkeley NRAO-Socorro CfA Caltech	A VLBA Resolution of the Pleiades Distance Controversy		4	3,10,17,24	40
BM360	Middelberg, E. Best, P. Brisken, W. Carilli, C. Deller, A. Momjian, E. Norris, R. Schinnerer, E. Scoville, N. Smolcic, V.	Ruhr-Univ. Bochum Univ. of Edinbrugh NRAO-Socorro NRAO-Socorro ASTRON NRAO-Socorro ATNF MPIA Caltech ESO	The incidence and evolution of AGN in 2865 COSMOS radio sources		20	19	6
BR145	Reid, M. Bartkiewicz, A. Brunthaler, A. Choi, K. Hachisuka, K. Menten, K. Moellenbrock, G. Morscadelli, L. Sanna, A. Sato, M. Xu, Y. Zhang, B. Zhang, Y. Zheng, X.	CfA UNC MPIfR MPIfR Shanghai MPIfR NRAO-Socorro Arcetri Arcetri Toyko Chinese Obs. Nanjing Nanjing MPIfR	Mapping the Milky Way		1,2	11,16,25	20
BR152	Rodriguez, L. Gomez, Y. Loinard, L. Miodusewski, A.	UNAM UNAM UNAM NRAO-Socorro	The size and Morphology of the Non-Thermal Component in Cyg OB2 #5		4	12	2
BR161	Rioja, M. Agudo, I. Dodson, R. Gomez, J. Jorstad, S. Marscher, A. Molina, S. Roy, A.	Western Australia Boston Univ. Western Australia IAA Boston Univ. Boston Univ. IAA MPIfR	High-Precision 22 & 43 GHz Astrometic Montiroing of the Cores in OJ287 & 3C273		0.7,1	13,27	25
BW096	Wayth, R. Brisken, W. Deller, A. Majid, W. Thompson, D. Tingay, S. Wagstaff, K.	Curtin Univ. NRAO-Socorro ASTRON JPL JPL Curtin Univ. JPL	A VLBA 330 MHz survey for M81/M82 transients on timescales of ms to Ms		90	21,22,23,24,25,26	7

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
S4317	Chatterjee, S.	Cornell Univ.	Precison Distances and Velocities fro		20	10,11,18,2	15
	Brisken, W.	NRAO-Socorro	Fermi-Detected Radio Pulsars			8	
	Cordes, J.	Cornell Univ.					
	Fernando, C.	Columbia Univ.					
	Fienga, A.	Obs. de Paris					
	Guillemot, L.	MPIfR					
	Lazio, J.	JPL					
	McLaughlin, M.	West Virginia					
	Ransom, S.	NRAO					
	Ray, P.	NRL					
	Romani, R.	Stanford					
	Smith, D.	Obs. de Paris					
	Theureau, G.	Obs. de Paris					
	Vlemmings, W.	Bonn Univ.					

Based on Actual Hours Observed

The average downtime was 16.29 hours 4.80%

Actual observing time was 323.20 hours

The VLBA was scheduled 100.00% of the time 696 hours of a possible 696 hours

Astronomical Observations = 48.78% (339.50 hours)
Tests and Calibrations = 16.49% (114.80 hours)
Maintenance = 12.27% (85.40 hours)
Number of unscheduled hours = 22.46% (156.30 hours)
Number of shutdown hours = 0.00% (00.00 hours)

Based on Scaled (128Mbps) Observing Hours

Number of scaled hours of astronomical observations = 1380.83 hrs

Downtime = 4.80% (66.280224 hours)

Actual observing = 1314.55776 hours

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BB278	Braatz, J. Condon, J. Hao, L. Henkel, C. Impellizzeri, V. Lo, K.Y. Reid, M. Yu-Kuo, C.	NRAO NRAO Texas., Austin MPIfR NRAO NRAO CfA UVa	The Megamaser Cosmology Project: Year 3		1	11,29	16
BB294	Braatz, J. Condon, J. Henkel, C. Huchara, J. Humphreys, L. Impellizzari, V. Lo, K.Y. Reid, M. Yu-Kuo, C.	NRAO NRAO MPIfR CfA ESO NRAO NRAO CfA UVa	The Megamaser Cosmology Project. IV		1	14,29	24
BB301	Blundell, K. Doolin, S. Goodall, P. Heywood, I. Perez, S.	Oxford Oxford Oxford Oxford Oxford	Precession of the circumbinary ruff of the mocroquasar SS433 on milliarcs scales		20	28	11.3
BB316	Boboltz, D. Claussen, M. Wittkowski, M.	UNSO NRAO-Socorro ESO	Multi-wavelength Imaging of the Circumstellar Atmosphere of Mira (o Cet)		0.7	30	6
BC196	Condon, J. Darling, J. Kovalev, Y.	NRAO Boulder Lebedev	A Search for Inspiraling, Binary, and Recoiling Black Holes in Nearby Galaxies		4,13	8,9,12,13, 23	38.5
BD152	Deller, A. Brisken, W. Chatterjee, S. Cordes, J. Goss, M. Kovalev, Y. Lazio, J. Petrov, L.	NRAO-Socorro NRAO-Socorro Cornell Cornell NRAO-Socorro Lebedev NRL NASA	PRSBI: Mapping the Galactic Distribution of Pulsars with VLBA		20	1,3,5,6,9, 13,16,17,2 5,28,29	34.5
BD154	Desmurs, J. Alcolea, J. Bujarrabal, V. Lindqvist, M. Soria-Ruiz, R.	IGN IGN IGN Onsala IGN	Further Observations of SiO v=3 J=1-0 Maser Emission from AGB Stars.		0.7	20	8
BD155	Dzib, S. Boden, A. Lionard, L. Mioduszewski, A. Rodriguez, L. Torres, R.	UNAM Caltech UNAM NRAO-Socorro UNAM Bonn	The First Dynamical Determination of the Mass of a Very Young Herbig AeBe Star		4	9,10	13
BH173	Hada, K. Doi, A. Inoue, M. Nagai, H.	NAO JAXA Sinica NAO	Multi-calibrator astrometry of the core of the low-luminosity AGN M 81		0.7,1,2,4, 6,13	16	12
BH175	Lionard, L. Briceno, C. Dzib, S. Evans, N. Hartmann, L. Mioduszewski, A. Pech, G. Rodriguez, L. Torres, R.	UNAM CIDA UNAM Texas., Austin Univ. of Michigan NRAO-Socorro UNAM UNAM Bonn	The Gould's Belt Distances VLBA Survey		4	19	6
BL178	Lister, M. Aller, M. Chang, C. Gehrels, N. Hogan, B. Homan, D. Hovatta, T. Kadler, M. Kellerman, K. Kovalev, Y. Pushkarev, A. Ros, E. Savolainen, T. Zensus, A.	Purdue Michigan., Ann Arbor MPIfR NASA Purdue Denison Univ. Purdue Nuremburg NRAO Lebedev MPIfR Valencia MPIfR MPIfR	The VLBA 2cm MOJAVE/Fermi Program		2	2,14	48

Progm	Observer	Affiliation	Program Title	Stns	Bands cm	Observing Date	Sched Hours
BM343	McClintock, J. Reid, M.	CfA CfA	Measuring the Parallaxes of the X-ray Binaries Cyg X-1, Cyg X-2, and Cyg X-3		1,2	22	7
BM352	Melis, C. Bower, G. Mioduszewski, A. Reid, M. Stauffer, J.	Calif., San Diego Calif., Berkeley NRAO-Socorro CfA Caltech	A VLBA Resolution of the Pleiades Distance Controversy		4	6,13,21	30
BM353	Marscher, A. Agudo, I. Gomez, J. hagen-Thorn, V. Jorstad, S. Larionov, V. MacDonald, N. Romney, J.	Boston IAA IAA St. Pettersburg Boston St. Petersburg Boston NRAO-Socorro	Sub-parsec Imaging of the Gamma-ray Emission Regions of Blazars		0.7	7,27	48
BR145	Reid, M. Bartkiewicz, A. Brunthaler, A. Choi, K. Hachisuka, K. Menten, K. Moellenbrock, G. Morscadelli, L. Sanna, A. Sato, M. Xu, Y. Zhang, B. Zhang, Y. Zheng, X.	CfA UNC MPIfR MPIfR Shanghai MPIfR NRAO-Socorro Arcetri Arcetri Toyko Chinese Obs. Nanjing Nanjing MPIfR	Mapping the Milky Way		1	3,8,12,16, 23,29	37
BS208	Sanna, A. Brunthaler, A. Cesaroni, R. Ellingsen, S. Menten, K. Moscadelli, L. Reid, M.	MPIfR MPIfR INA Tasmania MPIfR INA CfA	Exploring the peculiar case of the star-forming region G9.62+0.20:water masers		1	19	8
BS212	Soderberg, A. Berger, E. Bietenholz, M. Brunthaler, A. Frail, D. Rupen, M. Zauderer, B.	CfA CfA York MPIfR NRAO-Socorro NRAO-Socorro CfA	VLBI Observations will reveal the nature of the most peculiar GRB 110328A		1,4	21	7
BW097	Walker, C. Beilicke, M. Cheung, C. Giroletti, M. Hardee, P. Junor, B. Krawczynski, H. Mazin, D. McConville, W. Raue, M. Torres, M. Wagner, R. Wagner, S.	NRAO-Socorro Washington Univ. NRL Bologna Alabama., Tuscaloosa Univ., of California Washington Univ. IFAE Maryland MPIfR IAA MPIfR MPIfR	Locating the TeV Emission Region in M87, IV		0.7,1	6	8
S3125	Savolainin, T. Gehrels, N. Kovalev, Y. Nilsson, k. Sokolovsky, K.	MPIfR NASA Lebedev Univ. of Turku MPIfR	Filming the jets of the archetypical gamma-ray quars 3c273 and 3c279 at Sub-Parsec Resolution		0.3,0.7,1, 2	5,26	16
S4317	Brisken, W. Cordes, J. Fernando, C. Fienga, A. Guillemot, L. Lazio, J. Mclaughlin, M. Ransom, S. Ray, P. Romani, R. Smith, D. Theureau, G. Vlemmings, W.	NRAO-Socorro Cornell Univ. Columbia Univ. Obs. de Paris MPIfR JPL West Virginia NRAO NRL Stanford Obs. de Paris Obs. de Paris Bonn	Precision Distances and Velocities for Fermi-Detected Radio Pulsars		20	1,3,5,6	12

Based on Actual Hours Observed

The average downtime was 21.85 hours 5.60%

Actual observing time was 368.44 hours

The VLBA was scheduled 100.00% of the time 744 hours of a possible 744 hours

Astronomical Observations = 52.46% (390.30 hours)
Tests and Calibrations = 13.08% (97.33 hours)
Maintenance = 9.49% (70.60 hours)
Number of unscheduled hours = 22.55% (167.77 hours)
Number of shutdown hours = 2.42% (18.00 hours)

Based on Scaled (128Mbps) Observing Hours

Number of scaled hours of astronomical observations = 1637.51 hrs

Downtime = 5.60% (91.701008 hours)

Actual observing = 1545.81699 hours