

VLBA Observations for December 1 through December 31, 2015

Project	Observer	Bands	Obs Date	Obs Hours	Scale	Soaled Obs Hrs
BA113	An, Tao	2cm	12/11/16	8	15.96	122.85
BB320	Busch, M.	13cm	12/14,14/20/16	1	1.00	1.00
BB333	Brunthaler, A.	2cm	12/11,24/20/16	24	11.60	276.89
BB346	Barrett, Paul	4cm	12/13,14,21/20/16	15	14.64	218.03
BB351	Sower, G.	1,2cm	12/31/16	6	14.07	84.42
BB361	Bennister, Keth	13,20,6cm	12/10,18,23,30/2016	19	6.92	131.40
BB364	Brunthaler, A.	1cm	12/21,27/2016	24	2.83	67.82
BC219	Chen, Xi	6cm	12/06/16	4.5	2.76	12.42
BD188	Dexler, Jason	6cm	12/26/16	6	14.02	84.13
BF110 *	Ma, C.	4,13cm	12/02/16	24	1.95	32.40
BH208	Miller-Jones, J.	4cm	12/6,13,24,24,26,27,30/2016	7	14.28	99.99
BH211	Hada, Kazuhiro	.7,1,13,20,2,4,6cm	12/08/16	9.75	12.03	117.27
BH212	Hada, Kazuhiro	2cm	12/20/16	12	14.72	176.69
BH215	Herrera, Noelia	20cm	12/07,14/2016	12	15.42	185.08
BJ083	Jacobs, Christopher	1cm	12/15/16	24	9.28	222.66
BK186	Kovalev, Y.Y.	2,4cm	12/22,23/2016	2.75	.73	2.02
BL193	Lister, M.	2cm	12/19/16	24	13.48	323.42
BL209	Lonsdale, C.J.	6,20,2,4cm	12/26/16	24	14.62	350.80
BM413	Marscher, A.	.7cm	12/05/16	24	13.11	314.66
BM420	Motogi, Kazuhiro	6cm	12/07/16	3	1.87	6.62
BP187	Pihlstrom, Y.	.7cm	12/04/16	7	5.97	41.60
BP182	Petrov, L.	6cm	12/01,08,11,12,23,27,30/2016	40.25	12.43	600.26
BP199	Pihlstrom, Y.	.7cm	12/10/16	1	14.49	14.49
BR210	Reid, M.	1cm	12/03/16	7	2.34	18.36
BS237	Burke-Spolaor, Sarah	6,4,13cm	12/08,10,12/2016	5	13.81	69.07
BT127	Tingay, S.	20cm	12/04,08,12,14,23,26,26,31/2016	39	15.10	589.01
BY136	Yan, Zhen	20cm	12/22/16	4	14.77	59.09
BZ047	Zhang, Bo	1cm	12/07/16	6	2.41	14.45
F53xx **	USNO	13,4cm	Bi-monthly	2	5.40	10.80
N53xx ***	USNO	13,4cm	Daily	6.2	9.18	58.92
S634D	Gioletti, Marcello	6cm	12/08/16	7.75	14.82	113.31

Totals 399.20 4314.12
 Percentage 53.66 579.86

Number of hrs of observing possible =	744	
Number of hrs of astronomical observations =	399.2	53.66%
Number of hrs of calibration/tests =	90.125	12.11%
Number of hrs of maintenance =	85.6	11.49%
Number of unscheduled hours =	137.175	18.44%
Number of shutdown hours =	32	4.30%
Totals	744	100.00%

Downtime= 2.30% 9.18 hrs
 Actual observing= 399.2 -9.18 390.02 hrs

Based on Soaled (128Mbps) Observing Hours

Number of soaled hrs of astronomical observations=		4314.12 hrs
Downtime=	2.30%	99.22 hrs
Actual observing=	4314.12	-99.22 4214.90 hrs

* BF110 = RV114
 ** USNO Bi-monthly Observations with 4 stations
 *** USNO Daily Observations with 2 stations

VLBA Observations for November 1 through November 30, 2016

Project	Observer	Bands	Obs Date	Obs Hours	Scale	Scaled Obs Hrs
BA111	An, Tao	.7cm	11/30/15	8	14.39	115.15
BA113	An, Tao	2cm	11/04/15	8	15.19	121.48
BB320	Busch, M.	13cm	11/01/15	0.5	1.00	.50
BB325	Bannister, Keith	20cm	11/11/15	0.75	12.00	9.00
BB354	Barrett, Paul	4cm	11/02,03/2015	10.25	14.32	148.75
BB363	Bask, Junhyun	.7,2,1cm	11/06,09/2015	19.75	14.12	278.89
BB365	Burgasser, Adam	6cm	11/22/15	8.5	11.93	101.43
BC221	Chen, Yongjun	2,4,.7,1,13cm	11/29/15	5	12.33	61.63
BD178	Deller, A.	20cm	11/29/15	4	15.41	61.63
BD179	Deller, A.	20cm	11/07,08,10,11,14,15,16,22/2015	23.75	14.43	342.61
BD188	Deller, A.	20cm	11/09,28/2015	8	15.20	121.81
BD188	Dexter, Jason	4cm	11/30/15	8	14.46	86.78
BH208	Miller-Jones, J.	4cm	11/01,09/2015	1.75	13.18	23.06
BH210	Hada, Kazuhiro	20cm	11/14/15	8	15.20	121.81
BH216	Herrera, Noelia	20cm	11/28,29/2015	12	15.42	185.09
BH216	Henkel, C.	6cm	11/07,08/2015	14	7.07	98.93
BJ082	Dhawan, V.	4cm	11/20/15	4	12.33	49.34
BK188	Kovalev, Y.Y.	2,4cm	11/27,28/2015	2.75	.70	1.93
BL193	Lister, M.	2cm	11/25/15	24	13.25	317.95
BM428	Maccarone, T.J.	20cm	11/23/15	2.6	15.18	37.98
BM427	Melis, Carl	6cm	11/23/15	9	11.52	103.66
BM444	Moolay, Kunal	6cm	11/10/15	2.25	14.43	32.47
BP190	Panessa, Francesca	4,2,1cm	11/16/15	2	15.34	30.67
BP192	Petrov, L.	6cm	11/09,10,16,17,18/2015	24	13.38	321.03
BR210	Reid, M.	1,6cm	11/01,02,03,05,06,11,13,15,16,17,21,23/2015	84	2.39	200.59
BS237	Burke-Spolaor, Sarah	6,13,4cm	11/17,17/2015	2	13.91	27.81
BT127	Tingay, S.	20cm	11/01,09,10,11,12,15,16,17,18,28/2015	46	15.47	711.79
BX007	Xie, Fu-Guo	4cm	11/21/15	8	13.71	109.67
F5328 *	USNO	13,4cm	bi-monthly	2	5.40	10.80
N6305 **	USNO	4,13cm	daily	6	9.18	55.08
S7017	Piner, B.G.	4cm	11/21,27/2015	16	14.81	237.01

Totals 372.76 4123.94
 Percentage 51.77 572.77

Number of hrs of observing possible =	720	
Number of hrs of astronomical observations =	372.75	51.77%
Number of hrs of calibration/tests =	113.3	15.74%
Number of hrs of maintenance =	76	10.56%
Number of unscheduled hours =	133.95	18.60%
Number of shutdown hours =	24	3.33%
Totals	720	100.00%
Downtime=	5.20%	19.38 hrs
Actual observing=	372.75	353.37 hrs

Based on Scaled (128Mbps) Observing Hours

Number of scaled hrs of astronomical observations=		4123.94 hrs
Downtime=	5.20%	214.44 hrs
Actual observing=	4123.94	3909.50 hrs

* USNO Bi-monthly Observations with 4 stations

** USNO Daily Observations with 2 stations

VLBA Observations for October 1 through October 31, 2016

Project	Observer	Bands	Obs Date	Obs Hours	Scale	Scaled Obs Hrs
BA111	An, Tao	.7cm	10/10/15	8.25	13.84	114.19
BB320	Busch, M.	13cm	10/30/15	0.5	1.00	.50
BB325	Bannister, Keith	20cm	10/27/15	0.75	11.64	8.73
BC219	Chen, XI	6cm	10/17/15	4.5	2.78	12.42
BD178	Dallier, A.	20cm	10/20/15	4	15.41	61.65
BD179	Dallier, A.	20cm	10/05,18,19,20,21,23,29,30,31/2015	25.75	15.37	395.84
BF117	Forbrich, J.	6cm	10/28/15	8	13.07	104.54
BG234	Gu, Minfeng	6cm	10/20/15	7	10.10	70.69
BH207	Herzog, Andreas	20cm	10/05,09/2015	2	13.00	25.99
BH208	Miller-Jones, J.	4cm	10/24,31/2015	1.5	14.30	21.46
BH216	Henkel, C.	6cm	10/21,27,29,30/2015	28	7.10	198.72
BK183	Kovalev, Y.Y.	2,4cm	10/10/15	1.25	.84	1.04
BL175	Loinard, Laurent	4,8cm	10/3,4,4,6,6,8,9,11,11,12,13,13,15,16,17,20,24,25/2015	127	13.29	1,687.77
BL193	Lister, M.	2cm	10/02/15	24	13.61	326.56
BL215	Lico, Rocco	1,2,.7cm	10/17/15	4	14.85	59.40
BO051	Osterlil, Monica	.7,1,2cm	10/23/15	6	14.54	87.25
BP191	Perlman, E.	20,8cm	10/08/15	5	13.47	57.98
BP192	Petrov, L.	6cm	10/6,7,12,13,16,19,25,28,30/2015	38	12.16	462.10
BR210	Reld, M.	1,6cm	10/1,3,8,9,10,12,16,18,18,24,25,26,27/2015	91	2.49	227.00
BS237	Burke-Spolaor, Sarah	6,13,4cm	10/18/15	1	13.45	13.45
BS247	Soderberg, A.M.	1,4cm	10/05/15	8	14.38	115.00
BT127	Tingay, S.	20cm	10/11,11,13,14,18,26,27/2015	20	15.00	300.02
F5303 *	USNO, x.	4,13cm	bi-monthly	3	5.40	16.20
GM073	McKean, John	6cm	10/31/15	13	14.96	194.42
GN002	Nyland, Kristina	20cm	10/15/15	14	3.38	47.32
N5285 **	USNO, x.	4,13cm	daily	6.2	9.18	56.92
Totals				451.70		4676.62
Percentage				60.71		628.55

Number of hrs of observing possible =	744	
Number of hrs of astronomical observations =	451.7	60.71%
Number of hrs of calibration/tests =	63.05	7.13%
Number of hrs of maintenance =	105.85	14.23%
Number of unscheduled hours =	133.4	17.93%
Number of shutdown hours =	0	0.00%
Totals	744	100.00%
Downtime=	3.60%	15.81 hrs
Actual observing=	451.7	435.89 hrs

Based on Scaled (128Mbps) Observing Hours

Number of scaled hrs of astronomical observations=		4676.62 hrs
Downtime=	3.60%	163.66 hrs
Actual observing=	4676.62	4512.84 hrs

* USNO Bi-monthly Observations with 4 stations
 ** USNO Daily Observations with 2 stations

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VLBA Observations for September 1 through September 30, 2015

Project	Observer	Bands	Obs Date	Obs Hours	Scale	Scaled Obs Hrs
BC221	Chen, Yongjun	13,1,2,,7,4cm	09/09/15	5	12.50	62.48
BD179	Deller, A.	20cm	09/01,06,23,27/2015	8.5	15.04	127.82
BD186	Deller, A.	20cm	09/16,30/2015	8	15.17	121.32
BF110*	Ma, C.	4,13cm	09/09/15	24	1.35	32.40
BH207	Herzog, Andreas	20cm	09/01,10,12,13,15,21,28/2015	7	15.52	108.65
BH208	Miller-Jones, J.	4cm	09/06,27/2015	2	14.22	28.44
BJ082	Dhawan, V.	4cm	09/20/15	4	12.90	51.61
BK193	Kovalev, Y.Y.	1cm	09/12/15	5.5	15.97	87.84
BL175	Loinard, Laurent	4,6cm	09/01,03,04,04,05,11,12,13,14,15,15,18,19,19,20,21,27,28,29/2015	124	13.44	1,667.14
BL193	Lister, M.	2cm	09/06/15	24	12.82	307.58
BL215	Lico, Rocco	.7,1,2cm	09/11/15	4	14.84	59.36
BM413	Marscher, A.	.7cm	09/22/15	24	13.16	315.94
BP192	Petrov, L.	6cm	09/01,05,15,20,28,29/2015	24.5	12.41	303.98
BR210	Reid, M.	1,6cm	09/01,07,10,12,13,14,18,21,24,27,28,29/2015	84	2.49	208.96
BT127	Tingay, S.	20cm	09/08,14,15,21,27/2015	17	15.00	254.99
BT131	Truebenbach, Alexand	4cm	09/13,18,21,24/2015	16	5.00	79.97
BV071	Villadsen, Jackie	4cm	09/05,06/2015	8	14.34	114.75
BX007	Xie, Fu-Guo	4cm	09/07/15	8	14.12	112.99
C152**	Krichbaum, T.	.3,,7cm	09/24/15	0	.00	.00
F52xx***	USNO	13,4cm	bi-monthly	3	5.40	16.20
MM002	Marscher, A.	.3cm	09/25/15	48	12.00	575.78
N52xx****	USNO	13,4cm	daily	6	9.18	55.08
Totals				454.50		4693.28
Percentage				63.13		651.85
Number of hrs of observing possible =		720				
Number of hrs of astronomical observations =		454.5		63.13%		
Number of hrs of calibration/tests =		51.625		7.17%		
Number of hrs of maintenance =		60.75		8.44%		
Number of unscheduled hours =		153.125		21.27%		
Number of shutdown hours =		0		0.00%		
Totals		720		100.00%		
Downtime=		2.20%		10.00 hrs		

Actual observing=	454.5	-10	444.50 hrs
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Based on Scaled (128Mbps) Observing Hours

Number of scaled hrs of astronomical observations=			4693.28 hrs
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Downtime=		2.20%	103.25 hrs
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Actual observing=	4693.28	-103.25	4590.03 hrs
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* BF110 = RV113

** GMVA additional calibration (GMVA consists of MM002)

*** USNO Bi-monthly Observations with 4 stations

**** USNO Daily Observations with 2 stations

VLBA Observations for August 1 through August 31, 2016

Project	Observer	Bands	Obs Date	Obs Hours	Scale	Scaled Obs Hrs
BA114	An, Tao	6cm	08/04,07,08/2016	32.25	12.55	404.77
BB325	Bannister, Keith	20cm	08/13/15	0.75	11.84	8.73
BB354	Barrett, Paul	4cm	08/06,13/2015	10.25	14.09	144.43
BC219	Chen, Xi	6cm	08/22/15	4.5	2.78	12.42
BD179	Deller, A.	20cm	08/03,04,08,10,10,14,15,23,24,31/2015	36	16.29	650.60
BD185	Deane, R.P.	6cm	08/08,17,17,18,18,23,24,25/2015	18.76	14.75	278.69
BD188	Dexter, Jason	6cm	08/24/15	6	14.07	84.44
BF116	Fell, Derek	1,20cm	08/14/15	8	1.00	8.00
BG228	Godd, C.	1cm	08/29/15	8	1.38	10.89
BH181	Hallinan, Greg	8cm	08/28/15	5	14.98	74.70
BH207	Herzog, Andreas	20cm	08/09,15,16,16,17,23,24,24,27,28(3),29,29,30,31/2015	17	16.57	284.69
BH208	Miller-Jones, J.	4cm	08/10,14,15/2015	3	14.21	42.64
BH216	Herrera, Noelia	20cm	08/17/15	1	11.75	11.75
BL175	Loiand, Laurent	6cm	08/07,30,31/2015	14.76	14.12	208.28
BL193	Lyster, M.	2cm	08/11/15	24	13.11	314.62
BL199	Liu, Xiang	1cm	08/07/15	6.76	16.13	102.11
BL216	Liu, Yi	20,6cm	08/09,25/2015	18.5	13.20	217.80
BM413	Marscher, A.	.7cm	08/01/15	24	13.11	314.64
BM426	MacCarone, T.J.	20cm	08/23/15	2.5	16.55	38.88
BM427	Melis, Carl	6cm	08/30/15	9	11.60	104.40
BM434	Matthews, Lynn	.3,7cm	08/01/15	4	6.96	27.83
BO049	Owen, F.	20cm	08/05,08,16,17/2015	10	16.05	160.52
BO051	Ofenli, Monica	.7,2,1cm	08/21/15	6	14.54	87.25
BP187	Pihlstrom, Y.	.7cm	08/04/15	7	5.98	41.83
BP192	Petrov, L.	6cm	08/07,18,23,24,27,31/2015	23.5	12.35	290.18
BP193	Panessa, Francesca	20,6cm	08/14/15	2	14.83	29.66
BR210	Reld, M.	1,6cm	08/03,17,19,28,29,29/2015	42	2.47	103.65
BS234	Momjian, E.	6cm	08/18/15	11.5	14.71	169.18
BS237	Burke-Spolaor, Sarah	6,13,4cm	08/25/15	1	14.38	14.38
BS248	Shahriyan, Karlen	6,20,2cm	08/11/15	4	14.40	57.60
BS248	Schnitzel, Frank	.7,1,3cm	08/01,08,16,22/2015	20.75	13.98	289.73
BT127	Tingay, S.	20cm	08/10,22,24,25,28,29,30,31/2015	22	16.11	332.44
BV071	Villadsen, Jackle	4cm	08/15/15	4	14.64	68.55
BW114	Wu, Yuanwei	4cm	08/03,06,10,13,19,21,23/2015	28	3.78	105.73
BZ046	Zhang, Bo	1,7cm	08/22/15	5	2.08	10.39
BZ047	Zhang, Bo	1cm	08/26/15	6	2.41	14.45
F62xx*	USNO	13,4cm	bi-monthly	2	5.40	10.80
N52xx**	USNO	4,13cm	daily	6.2	9.18	56.92
S7017***	Piner, B.G.	4cm	08/02/15	8	14.29	114.34
SS008****	Mioduszewski, A.J.	6cm	08/17/15	2.25	3.25	7.31

Totals 463.20 5168.10
 Percentage 62.28 694.64

Number of hrs of observing possible =	744	
Number of hrs of astronomical observations =	463.2	62.26%
Number of hrs of calibration/tests =	49	6.59%
Number of hrs of maintenance =	74	9.95%
Number of unscheduled hours =	157.8	21.21%
Number of shutdown hours =	0	0.00%
Totals	744	100.00%
Downtime=	3.70%	17.14 hrs
Actual observing=	463.2	-17.14 446.06 hrs

Based on Scaled (128Mbps) Observing Hours

Number of scaled hrs of astronomical observations=		5168.10 hrs
Downtime=	3.70%	191.22 hrs
Actual observing=	5168.10	-191.22 4976.88 hrs

* USNO Bimonthly Observations with 4 stations

** USNO Daily Observations with 2 stations

*** Fermi Project

**** Summer Student Project

VLBA Observations for July 1 through July 31, 2015

Project	Observer	Bands	Obs Date	Obs Hours	Scale	Scaled Obs Hrs
BB920	Busch, M.	13cm	07/08,08/2015	0.6	1.00	.50
BB925	Bannister, Keith	20cm	07/10,22/2015	2	8.87	17.73
BB940	Biggs, A.	2cm	07/13/15	5	13.96	69.82
BB951	Bower, G.	2,1cm	07/17/15	6	14.07	84.42
BD179	Deller, A.	20,13cm	07/03,04,08,10(3),11,12,14,14,16,17,18,18,21,22,25(3),26,28,31,31/2015	65.25	14.64	953.24
BD184	Deane, R.P.	2,4cm	07/03/15	8	15.23	121.84
BD185	Deane, R.P.	6cm	07/01,01,07,07,09,31/2015	14.5	14.14	204.98
BF110 *	Ma, C.	4,13cm	07/15/15	24	1.35	32.40
BG228	Godtl, C.	1cm	07/28/15	8	1.36	10.89
BH207	Herzog, Andreas	20cm	07/07,09,09,10,21/2015	5	15.51	77.53
BH208	Miller-Jones, J.	4cm	07/12,19,22,31/2015	4	14.29	57.17
BH210	Hada, Kazuhito	20cm	07/17/15	8.25	14.18	116.96
BJ082	Dhawan, V.	4cm	07/05/15	4	12.83	50.51
BJ083	Jacobs, Christopher	1cm	07/21/15	10	9.25	92.54
BL193	Lister, M.	2cm	07/20/15	24	13.60	326.47
BL208	Lonsdale, C.J.	20,8,2cm	07/27/15	24	14.39	345.01
BM393	Melis, Carl	4cm	07/05,12/2015	20	13.69	271.80
BM413	Marscher, A.	.7cm	07/02/15	24	13.16	315.94
BM421	Miller-Jones, J.	1,4,6cm	07/01,02,04,05,06,07,09,11/2015	22	13.57	298.48
BM424	Moolley, Kunal	6,20cm	07/09,09/2015	2	14.30	28.50
BM433	Moolley, Kunal	2cm	07/19,26,28/2015	6	13.68	82.10
BO047	Orosz, Gabor	20cm	07/07/15	4	1.00	4.00
BO049	Owen, F.	20cm	07/08,22,26,30/2015	18	15.21	273.76
BR205	Reynolds, C.	4,7,1,2cm	07/12,13/2015	8	12.17	97.38
BS237	Burke-Spolaor, Sarah	6,4,13cm	07/19,25,26/2015	3	13.75	41.28
BS241	Schinzl, Frank	6cm	07/30/15	7.75	13.01	100.82
BS248	Schinzl, Frank	.7,3,1cm	07/06,13,24,31/2015	21.5	14.04	301.79
BT127	Tingay, S.	20cm	07/11,14,17,28,31/2015	20	13.74	274.84
BV071	Viladsen, Jackle	4cm	07/04,05,16,19/2015	16	14.48	231.73
BW114	Wu, Yuanwei	4cm	07/24,26,30/2015	12	3.78	45.31
F5xxx **	USNO	13,4cm	Bi-monthly	2	5.40	10.80
N5xxx ***	USNO	13,4cm	Daily	6.2	9.18	56.92
S6340 ****	Gioiatti, Marcello	6cm	07/10/15	3.75	14.14	53.01
SS006 *****	Moduszewski, A.J.	6,20cm	07/17,19/2015	4.25	9.27	39.40
Totals				413.95		5106.49
Percentage				55.64		686.36

Number of hrs of observing possible =	744	
Number of hrs of astronomical observations =	413.95	55.64%
Number of hrs of calibration/tests =	69.25	9.31%
Number of hrs of maintenance =	71.5	9.61%
Number of unscheduled hours =	189.3	25.44%
Number of shutdown hours =	0	0.00%
Totals	744	100.00%
Downtime=	3.90%	16.14 hrs
Actual observing=	413.95	397.81 hrs

Based on Scaled (128Mbps) Observing Hours

Number of scaled hrs of astronomical observations=		6106.49 hrs
Downtime=	3.90%	199.15 hrs
Actual observing=	5106.49	4907.34 hrs

- * RV112 -- Geodesy Project
- ** USNO Bimonthly Observations with 4 stations
- *** USNO Daily Observations with 2 stations
- **** Fermi Project
- ***** Summer Student Project

Sheet1

VLBA Observations for June 1 through June 30, 2015

Project	Observer	Bands	Obs Date	Obs Hours	Scale	Scaled Obs Hrs
BA111	An, Tao	.7cm	06/19,19/2015	16.6	13.31	219.62
BB325	Bannister, Keith	20cm	06/26/15	0.76	11.64	8.73
BB344	Burgasser, Adam	6cm	06/07/15	8.5	13.38	113.76
BB345	Barrell, Paul	4cm	06/02,04,10/2015	15	14.40	215.93
BB366	Bannister, Keith	13,20,6cm	06/02,02,04,05,06,07/2015	10.5	6.52	68.47
BD185	Deane, R.P.	6cm	06/03,23,23,28/2015	9	14.82	133.38
BE064	Eillingsen, Simon	1cm	06/21/15	6	2.57	15.44
BF112	Falcke, Helmo	.7cm	06/15/15	6.5	14.11	91.71
BF116xx *	USNO	13,4cm	bi-weekly	9	5.40	48.60
BG228	Godali, C.	1cm	06/06/15	8	1.36	10.89
BH207	Herzog, Andreas	20cm	06/21,22,26/2015	3	14.81	44.44
BH208	Miller-Jones, J.	4cm	06/01,01/2015	2	14.29	28.58
BH209	Hoffman, Ian	20cm	06/27/15	12	1.00	12.00
BL193	Lister, M.	2cm	06/16/15	24	13.27	318.58
BM413	Marscher, A.	.7cm	06/09/15	24	13.09	314.10
BM421	Miller-Jones, J.	4cm	06/17,23,24,26,27,30/2015	18	13.74	247.30
BM424	Moolay, Kunal	6cm	06/02/15	2	14.73	29.47
BO047	Orosz, Gabor	20cm	06/08/15	4	1.00	4.00
BO049	Owen, F.	20cm	06/02,15,29,30/2015	20	15.18	303.55
BR205	Reynolds, C.	2,1,1,7,4cm	06/14,15/2015	8	12.29	98.35
BS237	Burke-Spolaor, Sarah	13,6,4cm	06/21/15	1	13.45	13.45
BS241	Schlnzei, Frank	6cm	06/11,12/2015	15.76	12.66	199.40
BS248	Schlnzei, Frank	.3,1,.7cm	06/28/15	8	14.04	84.22
BS249	Sivakoff, Gregory	2,4cm	06/22/15	5	12.83	64.17
BT127	Tingay, S.	20cm	06/03,07,08,13,14,28,29/2015	28	15.17	424.84
BT129	Taylor, G.	2,6,1,4cm	06/20/15	12	15.77	189.18
BY136	Yan, Zhen	20cm	06/11/15	4	14.77	59.09
BZ046	Zhang, Bo	.7,1cm	06/08/15	5	2.08	10.39
BZ047	Zhang, Bo	1cm	06/05/15	6	2.41	14.45
BZ048	Zhang, Hui	13,4cm	06/13,14/2015	10	14.08	140.80
BZ050	Zhang, Hui	13,4cm	06/22,23,24/2015	24	15.44	370.44
F51xx **	USNO	13,4cm	bi-monthly	2	5.40	10.80
GA032	Agudo, I.	.7cm	06/01/15	12	5.38	64.60
GA036	Asadi, Saghar	4cm	06/01/15	5.5	7.09	38.97
GL039	Lobanov, A.	4cm	06/03/15	9	6.03	54.25
GN002	Nylund, Kristina	20cm	06/13/15	12	3.69	43.04
GP053	Perez-Torres, M.A.	4,6,20cm	06/03,05,12/2015	18	8.70	158.58
N51xx ***	USNO	13,4cm	daily	6	9.18	55.08
S6407 ****	Richards, Joseph	2,1,6cm	06/18/15	24	11.57	277.76
S7017 ****	Piner, B.G.	4cm	06/07/15	8	14.92	119.32
Totals				420.00		4717.74
Percentage				58.33		655.24

Number of hrs of observing possible =	720		
Number of hrs of astronomical observations =	420	58.33%	
Number of hrs of calibration/tests =	70.55	9.80%	
Number of hrs of maintenance =	77.75	10.80%	
Number of unscheduled hours =	151.7	21.07%	
Number of shutdown hours =	0	0.00%	
Totals	720	100.00%	
Downtime=	2.40%	10.08 hrs	
Actual observing=	420	-10.08	409.92 hrs

Based on Scaled (128Mbps) Observing Hours

Number of scaled hrs of astronomical observations=			4717.74 hrs
Downtime=	2.40%		113.23 hrs
Actual observing=	4717.74	-113.23	4604.52 hrs

- * USNO Biweekly Observations with 5 stations
- ** USNO Bimonthly Observations with 4 stations
- *** USNO Daily Observations with 2 stations
- **** Fermi Project

VLBA Observations for May 1 through May 31, 2015

Project	Observer	Bands	Obs Date	Obs Hours	Scale	Scaled Obs Hrs
BB348	Braatz, J.A.	1cm	05/23/15	4	7.89	31.67
BB354	Barrett, Paul	4cm	05/07,11/20/15	10.25	14.32	146.74
BB359	Baek, Junhyun	.7,1,2cm	05/23/15	7	12.82	89.73
BB366	Bannister, Keith	20,0,13cm 13,13,20,20,22,22,24,24,25,26,28,28,30,31/2015	05/23/15	38.5	6.52	251.06
BD178	Dellar, A.	20cm	05/09,20/2015	8	15.41	123.30
BD185	Deane, R.P.	6cm	05/04,04,05,09,22,26,31/2015	14.25	15.17	216.20
BD186	Dellar, A.	20cm	05/05,25/2015	8	15.10	120.83
BE064	Ellingsen, Simon	1cm	05/28/16	6	2.69	16.52
BF113	Faill, Derek	1,20cm	05/28/16	6.25	1.00	8.25
BF114	Falcke, Heino	.3,7cm	05/22,23/2016	18	11.74	211.27
BF116x*	USNO	13,4cm	bl-weekly	13.5	6.40	72.90
BG228	Godtl, C.	1cm	05/10/16	8	1.38	10.89
BH207	Herzog, Andreas	20cm	05/03,03,06,06,06,22,26/2015	7	15.63	109.44
BH208	Miller-Jones, J.	4cm	05/31,31/2015	2	14.09	28.17
BL183	Lyster, M.	2cm	05/08,18/2015	48	13.48	646.87
BL219	Lu, A.	.3,7cm	05/16/15	11	7.97	87.66
BM413	Marscher, A.	.7cm	05/11/15	24	13.16	315.94
BM420	Motogl, Kazuhiko	6cm	05/31/15	3	1.87	5.62
BM422	Marecki, A.	2,6,1cm	05/03/15	12	15.45	185.44
BO049	Owen, F.	20cm	05/01,26/2015	8	15.18	121.43
BP187	Pihlstrom, Y.	.7cm	05/27/15	7	5.91	41.40
BP189	Petrov, L.	4,6,13,1,20,2cm	05/02/16	4.5	12.00	54.00
BR108	Reid, M.	1,6cm	05/02,03,04,07/2015	28	2.44	68.20
BR210	Reid, M.	1,6cm	05/01,08,11,14,20,29/2015	42	2.47	103.84
BT127	Tingey, S.	20cm	05/05,10/2015	10	15.00	149.99
BZ046	Zhang, Bo	.7,1cm	05/26/15	5	2.51	12.58
C151A**	Krichbaum, T.	.7,3cm	05/14/16	0	.00	.00
C151B**	Krichbaum, T.	.3,7cm	05/16/16	0	.00	.00
F51xx***	USNO	13,4cm	bl-monthly	2	5.40	10.80
GA036	Asadi, Saghar	4cm	05/31/15	12	7.09	85.03
GB075	Boccardi, Biaglna	.7cm	05/30/15	15	6.85	102.68
MA002	Alberdi, A.	.3,7cm	05/14,15/2015	20.5	7.61	158.06
MM001	Marscher, A.	.3,7cm	05/16,17/2015	40.5	7.87	322.70
N51xx****	USNO	13,4cm	daily	6.2	9.18	58.92
S6117*****	Piner, B.G.	4cm	05/01/15	2.25	14.33	32.24
S7017*****	Piner, B.G.	4cm	05/24/15	8	14.71	117.68
Totals				461.70		4113.04
Percentage				62.06		552.83

Number of hrs of observing possible =	744	
Number of hrs of astronomical observations =	461.7	62.06%
Number of hrs of calibration/tests =	70.15	9.43%
Number of hrs of maintenance =	83.4	11.21%
Number of unscheduled hours =	128.75	17.31%
Number of shutdown hours =	0	0.00%
Totals	744	100.00%
Downtime=	4.30%	19.85 hrs
Actual observing=	461.7	441.85 hrs

Based on Scaled (128Mbps) Observing Hours

Number of scaled hrs of astronomical observations=		4113.04 hrs
Downtime=	4.30%	176.86 hrs
Actual observing=	4113.04	3936.18 hrs

- * USNO Biweekly Observations with 4 stations
- ** GMVA additional calibration (GMVA consists of BL219, MA002, and MM001)
- *** USNO Bimonthly Observations with 5 stations
- **** USNO Daily Observations with 2 stations
- ***** Fermi Project

VLBA Observations for April 1 through April 30, 2015

Project	Observer	Bands	Obs Date	Obs Hours	Scale	Scaled Obs Hrs
BB303	Brunthaler, A.	1cm	04/05,06/2015	24	2.51	60.34
BB325	Bannister, Keith	20cm	04/28/15	0.75	11.64	8.73
BB348	Braatz, J.A.	1cm	04/05,08/2015	14	6.83	81.65
BB366	Bannister, Keith	13,6,20cm	04/03,03,24,24,27,27,30,30/2015	12.5	6.70	83.81
BD180	Doeleman, S.	.3,.7cm	04/28/15	9	11.05	89.45
BD183	Doeleman, S.	.3,.7cm	04/24,27,28/2015	27	9.17	247.59
BD185	Deane, R.P.	6cm	04/06,10,14/2015	6.25	14.83	92.86
BD186	Deller, A.	20cm	04/23/15	4	16.12	60.50
BF110 *	Ma, C.	13,4cm	04/22/15	24	1.35	32.40
BF116x **	USNO	13,4cm	bi-weekly	13.5	5.40	72.90
BH207	Heizog, Andreas	20cm	04/05,05,07,10,14,16,28/2015	7	15.65	109.57
BK193	Kovalev, Y.Y.	2cm	04/10,11/2015	2	1.04	2.09
BL176	Lolnard, Laurent	4cm	04/02,07,09,10,13,14,17,19,20,24,26,26,27,29/2015	89	13.36	1,189.33
BL210	Lonsdale, Carol	6cm	04/21/15	2	14.51	29.02
BM393	Mells, Carl	4cm	04/03,12/2015	20	13.62	272.34
BM401	Mells, Carl	4,6cm	04/29/15	9	12.94	116.48
BM413	Marscher, A.	.7cm	04/11/15	16.25	13.09	212.78
BM425	Moolley, Kunal	6cm	04/10,10,11/2015	4.5	14.38	64.71
BO049	Owen, F.	20cm	04/13,19/2015	7	15.17	106.16
BR198	Reld, M.	1,6cm	04/02,04,07,09,14,17,18,25,30/2015	62.5	2.68	161.01
BR205	Reynolds, C.	1,2,4,.7cm	04/01,18,20/2015	12	12.32	147.85
BR210	Reld, M.	1,6cm	04/11,13,19,20,22/2015	35	2.50	87.48
BS241	Schinzol, Frank	6cm	04/15/15	7.75	12.82	99.32
BT127	Tingay, S.	20cm	04/04,10,17,19,20/2015	18	15.00	239.99
BZ046	Zhang, Bo	.7,1cm	04/01/15	2.5	1.97	4.93
BZ058	Zhao, Wei	.7,.9cm	04/03/15	6	15.28	91.66
F51xx ***	USNO	13,4cm	bi-monthly	2	5.40	10.80
N5xxx ****	USNO	4,13cm	daily	6	9.18	55.08
S6117 *****	Piner, B.G.	4cm	04/30/15	6	14.78	88.67
Totals				447.50		3929.27
Percentage				62.15		545.73

Number of hrs of observing possible =	720	
Number of hrs of astronomical observations =	447.5	62.15%
Number of hrs of calibration tests =	43.3	6.01%
Number of hrs of maintenance =	53.3	7.40%
Number of unscheduled hours =	175.9	24.43%
Number of shutdown hours =	0	0.00%
Totals	720	100.00%
Downtime=	7.80%	34.91 hrs
Actual observing=	447.5	-34.91
		412.60 hrs

Based on Scaled (128Mbps) Observing Hours

Number of scaled hrs of astronomical observations=		3929.27 hrs
Downtime=	7.80%	306.48 hrs
Actual observing=	3929.27	-306.48
		3622.79 hrs

- * Geodesy project RV111
- ** USNO Biweekly Observations with 4 stations
- *** USNO Bimonthly Observations with 5 stations
- **** USNO Daily Observations with 2 stations
- ***** Fermi Project

VLBA Observations for March 1 through March 31, 2015

Project	Observer	Bands	Obs Date	Obs Hours	Scale	Scaled Obs Hrs
8A111	An, Tao	.7cm	03/08/15	5	14.75	73.76
8B526	Bannister, Keith	20cm	03/02/15	0.76	11.64	8.79
8B528	Barrett, Paul	4cm	03/06/15	5	14.39	71.95
8B566	Bannister, Keith	13,20,6cm	03/23,23/2015	2	7.67	16.34
8C219	Chen, Xi	6cm	03/21/15	4.5	2.76	12.42
8D185	Deane, R.P.	6cm	03/29/15	2.75	14.81	40.72
8D188	Deffer, A.	20cm	03/27/15	4	15.12	60.50
8F110 *	Ma, C.	4,13cm	03/25/15	24	1.35	32.40
8F115x **	USNO	13,4cm	bi-weekly	12	5.40	64.80
8G219	Gordon, David	13,4cm	03/17/15	24	12.56	301.36
8H207	Herzog, Andrea	20cm	03/11,11,13,13,14,14,16,16,18,18,21,22,22,23,24,30/2015	13	16.54	201.96
8J082	Dhawan, V.	4cm	03/09/15	4	12.91	51.64
8L176	Lohard, Laurent	4,6cm	03/01,02,03,06,08,09,12,13,14,15,16,20,20,21,23,28,28,29,30/2015	123.75	13.46	1,666.13
8L189	Liu, Xiang	.7cm	03/07/15	7	14.62	102.33
8L210	Lonsdale, Carol	6cm	03/24/15	2	14.77	29.54
8M393	Mells, Carl	4cm	03/07,16/2015	20	13.63	272.58
8M426	Moolay, Kunal	6cm	03/07/15	2.5	14.49	36.22
8R168	Feld, M.	1,6cm	03/12,13,14,16,26,29,30,31/2015	55.26	2.43	134.17
8R205	Reynolds, C.	4,7,1,2cm	03/31/15	4	12.38	49.52
8R210	Feld, M.	1,6cm	03/01,05,06,08,10,22,25,27,28/2015	63	2.63	159.48
8S237	Burke-Spolaor, Sarah	6,13,4cm	03/10,14,22,27/2015	6	13.60	81.59
8T127	Tingay, S.	20cm	03/03,04,13,16,16,20,23,29,31/2015	27	15.06	406.62
8Y137	Yan, Zhen	13,4cm	03/05,22/2015	6	13.59	81.54
8Z048	Zhang, Bo	.7,1cm	03/31/15	2.75	2.07	5.71
8Z047	Zhang, Bo	1cm	03/09/15	6	2.41	14.45
8Z056	Zhao, Wei	1,7cm	03/28/15	6	16.06	98.35
F60xx ***	USNO	13,4cm	bi-monthly	2	5.40	10.80
GN002	Nyland, Kristina	20cm	03/03/15	13	3.88	50.38
N50xx ****	USNO	4,13cm	daily	6.2	9.16	58.02
Totals				453.45		4189.88
Percentage				60.95		563.16

Number of hrs of observing possible =	744	
Number of hrs of astronomical observations =	453.45	60.95%
Number of hrs of calibration/tests =	37.9	5.09%
Number of hrs of maintenance =	74	9.95%
Number of unscheduled hours =	178.65	24.01%
Number of shutdown hours =	0	0.00%
Totals	744	100.00%
Downtime=	7.10%	32.19 hrs
Actual observing=	453.45	421.26 hrs

Based on Scaled (128Mbps) Observing Hours

Number of scaled hrs of astronomical observations=		4189.88 hrs
Downtime=	7.10%	297.48 hrs
Actual observing=	4189.88	3892.40 hrs

* Geodesy project RV110
 ** USNO Biweekly Observations with 4 stations
 *** USNO Bimonthly Observations with 5 stations
 **** USNO Daily Observations with 2 stations

VLBA Observations for February 1 through February 28, 2015

Project	Observer	Bands	Obs Date	Obs Hours	Scale	Scaled Obs Hrs
BB326	Bannister, Keith	20cm	02/03/15	0.75	12.00	9.00
BB326	Barrett, Paul	4cm	02/23/15	5	14.65	72.76
BB339	Bower, G.	4,20cm	02/20/15	6	14.97	89.80
BB345	Barrett, Paul	4cm	02/13/15	5	14.43	72.16
BB348	Braatz, J.A.	1cm	02/15/15	6	11.30	67.79
BB354	Barrett, Paul	4cm	02/12,13/2015	10.25	14.20	145.58
BB366	Bannister, Keith	13,4,8,20cm	02/28,29/2015	2	7.67	15.34
BD186	Deller, A.	20cm	02/10,12/2015	1.5	13.21	19.82
BE064	Ellingsen, Simon	1cm	02/03/15	6	2.56	15.37
BF115*	USNO	13,4cm	bi-weekly	12	5.40	64.80
BG231	Gomez, J.F.	1cm	02/02/15	5	2.73	13.64
BH207	Herzog, Andreas	20cm	02/01(3),02,03,04,04,06,08,09,09,12,13/2015	13	16.68	202.57
BK181	Kharb, P.	6,20cm	02/08,09/2015	8	15.03	120.24
BK192	Koay, J.Y.	20,4cm	02/03/15	1.5	13.85	20.77
BL176	Lohard, Laurent	6cm	02/26,27,27,28/2015	29.25	13.67	399.87
BL206	Linford, Justin	6cm	02/19,24/2015	11	15.16	166.64
BL210	Lonsdale, Carol	6cm	02/24/15	4	14.91	59.65
BL214	Lico, Rocco	2,7,1cm	02/02,25/2015	8	14.73	117.86
BM393	Malis, Carl	4cm	02/08,13/2015	20	13.69	271.87
BM413	Marscher, A.	7cm	02/14/15	24	13.20	316.75
BM414	Max-Moerbeck, Walter	7,1,2cm	02/22/15	12	15.00	179.96
BM420	Motogi, Kazuhito	6cm	02/01/15	4	1.40	5.62
BO047	Orosz, Gabor	20cm	02/17,22,24/2015	12	1.00	12.00
BO049	Owen, F.	20cm	02/27/15	2	14.42	28.84
BP189	Petrov, L.	1,2,4,6,13,20cm	02/20/15	4.5	11.63	52.34
BR186	Deller, A.	20cm	02/05,19/2015	6	15.13	90.79
BR198	Feld, M.	6cm	02/23/15	7	2.85	19.98
BR202	Rushion, Anthony	1,7cm	02/28/15	8	17.12	136.93
BR204	Reines, Amy	20cm	02/14/15	5	14.80	74.00
BS237	Burke-Spolaor, Sarah	4,13,6cm	02/01,03,05,08,29/2015	14	13.71	191.88
BS241	Schinzler, Frank	6cm	02/16,17,24/2015	24	13.99	335.65
BS242	Savolainen, Tuomas	6,1cm	02/01,02,03,04,05,06,07/2015	17.5	1.76	30.55
BT127	Tingay, S.	20cm	02/03,07,09,10,19,28/2015	25	15.26	381.46
BY136	Yan, Zhen	20cm	02/07/15	4	16.62	66.06
BY137	Yan, Zhen	13,4cm	02/16/15	3	13.69	40.77
F5xxx**	USNO	13,4cm	bi-monthly	2	5.40	10.80
N60xx***	USNO	13,4cm	daily	6.2	8.29	51.41
S6407****	Richards, Joseph	6,1,2cm	02/20/15	24	11.67	277.76
S7017****	Piner, B.G.	4cm	02/18/15	8	14.29	114.34
SC003*****	Taylor, G.	2,4,6cm	02/09/15	4	15.71	62.82

Totals 370.45 4426.21
 Percentage 55.13 658.66

Number of hrs of observing possible =	672	
Number of hrs of astronomical observations =	370.45	55.13%
Number of hrs of calibration/tests =	38.8	5.48%
Number of hrs of maintenance =	73	10.86%
Number of unscheduled hours =	191.76	28.53%
Number of shutdown hours =	0	0.00%
Totals	672	100.00%

Downtime= 11.20% 41.49 hrs
 Actual observing= 370.45 -41.49 328.96 hrs

Based on Scaled (128Mbps) Observing Hours

Number of scaled hrs of astronomical observations=		4426.21 hrs
Downtime=	11.20%	495.74 hrs
Actual observing=	4426.21	-495.74 3930.48 hrs

* USNO Biweekly Observations with 4 stations
 ** USNO Bimonthly Observations with 5 stations
 *** USNO Daily Observations with 2 stations
 **** Fermi project
 ***** Student project

VLBA Observations for January 1 through January 31, 2015

Project	Observer	Bands	Obs Date	Obs Hours	Scale	Scaled Obs Hrs
BA111	An, Tao	.7cm	01/10/15	8	14.81	118.44
BB320	Busch, M.	13cm	01/27/15	1	1.00	1.00
BB325	Bannister, Kelth	20cm	01/04/15	0.76	12.00	9.00
BB344	Burgasser, Adam	6,4cm	01/06/15	8.6	12.71	108.02
BB346	Barrett, Paul	4cm	01/12,20/2015	10	14.41	144.07
BB348	Braatz, J.A.	1cm	01/08,09,10,11,16,17,20/2015	42	8.53	358.09
BE064	Ellingsen, Simon	1cm	01/01/15	6	2.55	15.30
BF110 *	Ma, C.	4,13cm	01/28/15	24	1.35	32.40
BG219	Gordon, David	13,4cm	01/22,23/2015	48	12.51	600.37
BG228	Goddi, C.	1cm	01/08,09,15/2015	24	1.36	32.67
BG231	Gomez, J.F.	1cm	01/05,19/2015	10	2.73	27.29
BJ082	Dhawan, Y.	4cm	01/25/15	4	12.44	49.75
BL193	Lister, M.	2cm	01/18/15	24	13.40	321.71
BM393	Melis, Cari	4cm	01/02,11/2015	20	13.60	271.98
BM401	Melis, Cari	6,4cm	01/23/15	9	12.95	116.57
BM412	Marecki, A.	1,2,6,20cm	01/11/15	4	15.01	60.05
BC047	Orosz, Gabor	20cm	01/05/15	4	1.00	4.00
BR198	Field, M.	6,1,4cm	01/26/15	3	5.07	15.21
BS237	Burke-Spolaor, Sarah	4,6,13cm	01/01,02,09,10,12,13,25,25,27,28,30,31/2015	36	14.12	508.45
BS245	Soderberg, A.M.	1,4cm	01/17/15	8	14.24	113.89
BT127	Tingay, S.	20cm	01/01,01,02,04,05,06,07,11,13,23,26,27,29,30,30,31/2015	62	15.13	938.05
BW116	Walker, R.C.	7,1cm	01/26/15	11	13.45	147.94
BY137	Yan, Zhen	4,13cm	01/13,25/2015	6	13.59	81.54
BZ046	Zhang, Bo	1,7cm	01/08/15	5	2.51	12.56
F5xxx **	Fey, A.	13,4cm	blweekly	2	5.40	10.80
GA035	Imai, H.	1cm	01/29/15	12	.99	11.83
GL041	Lobanov, A.	1,2,7cm	01/03/15	12.25	3.62	43.13
GL042	Lobanov, A.	20,6cm	01/20/15	14	1.83	25.69
N5xxx ***	Fey, A.	13,4cm	daily	6.2	9.18	56.92
S7017 ****	Piner, B.G.	.7,1cm	01/16/15	7	14.83	103.79
Totals				431.70		4340.48
Percentage				58.02		583.40

Number of hrs of observing possible =	744	
Number of hrs of astronomical observations =	431.7	58.02%
Number of hrs of calibration/tests =	49.725	6.68%
Number of hrs of maintenance =	70	9.41%
Number of unscheduled hours =	192.575	25.88%
Number of shutdown hours =	0	0.00%
Totals	744	100.00%
Downtime=	9.20%	39.72 hrs
Actual observing=	431.7	391.98 hrs

Based on Scaled (128Mbps) Observing Hours

Number of scaled hrs of astronomical observations=		4340.48 hrs
Downtime=	9.20%	399.32 hrs
Actual observing=	4340.48	3941.16 hrs

- * RV109 Geodesy project
- ** USNO Blweekly Observations with 4 stations
- *** USNO Daily Observations with 2 stations
- **** Fermi project