

VLA Utilization Report December 2013

Program	Observer	Affiliation	Program Title	Bands	Obs. Date	Schedule Hours
AB 1448	Blomme, R. Rauw, G. Volpi, D. Naze, Y. Prinja, R.	Obs. De Belgique Liege Obs. De Belgique Liege London	The Colliding Winds of the Massive Early- Type Binary 9 Sgr	3,6,6,20	15	0.50
AB 1456	Babul, A. Bonafede, A. Sommer, M. Basu, K. Bertoldi, F. Klein, U. Dolag, K. Bruggen, M Nagarajan, A.	Univ. of Victoria Jacobs. Univ. Bonn Bonn Bonn Bonn MPA Jacobs Univ. Bonn	A census of radio haloes in Planck-SZ selected galaxy clusters	20	19,22,23	2.16
AB 1469	Bell, M. Ensslin, T. Bonafede, A. Klein, U. Anderson, J. Wise, M. Perley, R.	MPIfR MPIfR Hamburg Bonn MPIfR ASTRON NRAO-Socorro	Faraday Synthesis Of Hydra A To Study ICM Magnetic Fields, Jet/ICM Interaction	3,6,6	14	5.80
AB 1472	Barrett, P. Boboltz, D. Dieck, C. Beasley, A. Singh, K. Godon, P. Mason, P.	GW Univ. USNO USNO NRAO-CV TIFR Vilanova Univ. NMSU	A Search for Radio- Loud Magnetic Cataclysmic Variables	1.3,3,6,6	2	0.95
AB 1474	Brown, J. Brown, A. Salyk, C. Kamp, I.	CfA Colo., Boulder NOAO Kapteyn Inst.	HI 21cm emission from young disk systems	20	4,5,8,15,17	20.12
AB 1476	Barcos, L. Leroy, A. Evans, A. Murphy, E. Stierwalt, S. Privon, G.	UVa NRAO-CV NRAO-CV Carnegie Inst. UVa UVa	Unveiling Extended Structure in nearby Luminous Infrared Galaxies	0.9,2,10	1	2.40

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AC 1138	Corbel, S. Tomsick, J. Harrison, F. Chakrabarty, D. Miller, J. Stern, D. Rana, V.	CEA Calif, Berkeley Caltech MIT Mich., Ann Arbor JPL Caltech	First broadband study of a black hole in quiescence with JVLA, XMM and NuSTAR	6	2	9.62
AC 1143	Chomiuk, L. Sokoloski, J. Weston, J. Nelson, T. Rupen, M. Mukai, K. Mioduszewski, A. Roy, N. Bode, M. Bildsten, L. Eyes, S. Munari, U. O'Brien, T. Townesley, D. Williams, B.	Michigan Columbia Columbia Minnesota NRAO-Socorro NASA NRAO-Socorro MPIIR John Moores Santa Barbara Central Lancashire INAF Jodrell Bank Ala., Tuscaloosa STScI	Tempests, Not Bombs: The Complex, Prolonged Explosions of Novae	0.9,2,6,20	15	1.50
AC 1158	Clarke, T. Blanton, E. Randall, S. Giacintucci, S. ZuHone, J.	NRL Boston CfA Maryland NASA	Cavities & Turbulence: Low Frequency Study of the Sloshing Systems A2052 & A4059	90	8-Jan	4.62
AC 1166	Corsi, A. Soderberg, A. Perley, D. Cenko, B. Kulkarni, S. Berger, E. Sonbas, E. Dhuga, K. Laskar, T. Margutti, R. Zauderer, B.	GW Univ. CfA Caltech Calif., Berkeley Caltech CfA Adiyaman Unvi. GW Univ. CfA CfA CfA	LATE-TIME FOLLOW-UP OF GRB 130215A WITH THE VLA	1.3,6,10	19	1.68
AD 671	Pater, I. Sault, R. Butler, B. DeBoer, D. Hirsch, L.	Calif., Berkeley Unvi. of Melbourne NRAO-Socorro Calif., Berkeley Calif., Berkeley	Longitude Resolved Maps of Jupiter's Radio Emission	2, 3.6,6,12	23	9.81

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Program	Observer	Affiliation	Program Title	Bands	Obs. Date	Schedule Hours
AD 691	Deller, A. Moldon, J. Miller-Jones, J. Archibald, A. Hessels, J.	ASTRON ASTRON Curtin Univ. ASTRON ASTRON	Characterizing the compact jet in the J1023+0038 pulsar/X-ray binary system	2,3,6,6,2	9,24	1.96
AG 874	Goddi, C. Zhang, Q.	ESO CfA	Kinematics and physical conditions of hot gas at small radii from O young stars	0.9,1.3	21	0.50
AG 902	Greiner, J. Hunt, L. Michalowski, M. Palazzi, E. Savaglio, S. Kruehler, T. Rossi, A.	MPE INAF Edinburgh INAF MPE Univ. of Copenhagen Tatenburg	Probing star-formation in the most massive gamma-ray burst host galaxies	10,20	2,5,6,12	4.48
AG 908	Gupta, N. Srianand, R. Momjian, E. Petitjean, P. Noterdaeme, P.	ASTRON India NRAO-Socorro Obs. de Paris Obs. de Paris	Molecular absorption line search in the 21-cm absorber with 2175 Angstrom bump	0.7,0.9	30	1.00
AG 911	Godfrey, L. Soria, R.	Curtin Curtin	AGN Jet Stability, Dynamics and Energy Transport: Periodic structure in 4C+47.51	1.3,3.6,6	16,24	2.00
AH 1109	Harrison, C. Alexander, D. Edge, A. Hogan, M. Mullaney, J.	Durham Durham Durham Durham Durham	Are radio jets driving high velocity outflows in obscured quasars?	6,20	1	2.88
AH 1110	Harcastle, M. Morganti, R. Croston, J. Harwood, J. Orru, E. Heesen, V. De Gasperion, F.	Hertfordshire ASTRON Southampton Hertfordshire Nijmegen Southampton Univ. of Hamburg	Low-frequency spectral curvature in radio galaxies: LOFAR targets at P-band	90	14	3.69

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AH 1119	Heywood, I. Jarvis, M. Hardcastle, M. Iverson, R. Lindsay, S. McApline, K. White, S. Deane, R. Smith, D. Mauch, T. Klieckner, H. Simpson, C.	Oxford Oxford Hertfordshire Edinburgh Hertfordshire Rhodes Oxford Cape Town Hertfordshire Hertfordshire Oxford John Moores	A VLA survey of the VIDEO / XMM-LSS field	20	1,2,4,7,8,9,10 ,11,12,13,14, 15,16,17,18,2 1,23	39.85
AH 1127	Kulkarni, S. Frail, D. Horesh, A. Mooley, K. Hallinan, G. Anderson, M. Bourke, S. Myers, S.	Caltech NRAO-Socorro Caltech Caltech Caltech Caltech Caltech NRAO-Socorro	A 300 Square Degree VLA Transient Survey in Stripe 82	10	19,20,21,22,2 7,29	26.96
AH 1145	Horesh, A. Kulkarni, S.	Caltech Caltech	VLA Observations of a Newly Discovered Swift Tidal Disruption Event Candidate	0.7,0.9,1 .3,2,3.6, 6	5,7,28	6.74
AH 1146	Horesh, A. Gal-Yam, A. Yaron, O.	Caltech Weizmann Inst. Weizmann Inst.	Radio Observation of iPTF13dqy - A Probe of Pre-explosion Massive Star Evolution	1.3,6	17	0.98
AI 170	Iverson, R. Eales, S. Gonzalez-Nuevo, J. Dunne, L. Dye, S. Negrello, M. Serjeant, S. Riechers, D. Bussmann, R.	Edinburgh Univ. of Cardiff Spain Univ. of Nottingham Univ. of Nottingham INAF Open Univ. Cornell CfA	TLS: the Thousand Lens Sample	6	2,9,11,12,13, 15,24,30	23.94

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Program	Observer	Affiliation	Program Title	Bands	Obs. Date	Schedule Hours
AK 818	Kalensky, S. Kurtz, S. Hofner, P. Walmsley, C. Bergman, P.	Lebedev Inst. UNAM NMT INAF OSO	Fine structure of Class I methanol masers in low-mass star forming regions	0.7	24	2.90
AK 824	Kimball, A. Lonsdale, C. Lacy, M. Condon, J.	NRAO-CV NRAO-CV NRAO-CV NRAO-CV	Star formation and radio jet activity in the most luminous QSOs in the Universe	3,6,10	9	0.48
AL 826	Laing, R. Bridle, A. Perley, R.	ESO NRAO-CV NRAO-Socorro	How fast are the jets in NGC6251?	6	1,7	11.49
AL 849	Launhardt, R. Loinard, L. Zimmerman, N. Bower, G. Henning, T. Mioduszewski, A. Dzib, S. Ramirez, J.	MPIA UNAM MPIA Calif., Berkeley MPIA NRAO-Socorro UNAM UNAM	ERA: revealing young Exoplanets by Radio Astrometry		1,30	3.99
AL 850	Lim, J. Takakuwa, S. Hanawa, T. Matsumoto, T. Saigo, K.	Hong Kong ASIAA Chiba Univ. Hosei Univ. NAO	Formation and Evolution of the Binary Protostellar Systems L1551 IRS5/NE	0.7	1,7,11	9.65
AL 860	Lynch, C. Mutel, R. Guedel, M. Abbuhl, E. Hallinan, G.	Iowa Iowa Univ. of Vienna Iowa Caltech	Understanding the Pulsed Emission of Ultracool Dwarf 2MASS J0746426+200032	3,6,6,10	16	5.53
AL 885	Law, C. Spolaor, S. Bower, G. Rupen, M. Butler, B. Siemion, A. VanderWiel, S. Lazio, J. Mattmann, C.	Calif., Berkeley JPL Calif., Berkeley NRAO-Socorro NRAO-Socorro Calif., Berkeley LANL JPL JPL	Interferometric Localization of Cosmological Millisecond Transients	20	5,6,9,12,13,16,18,19,20,22,23,27,28,29	30.86

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Program	Observer	Affiliation	Program Title	Bands	Obs. Date	Schedule Hours
AM 1232	Middleton, M. Miller-Jones, J. Markoff, S. Fender, R. Henze, M. Roberts, T. Scaife, A. Hurley-Walker, N. Carpenter, J. Haberl, F. Gandhi, P. Ghrels, N. Walton, D. Dickinson, H. Woudt, P.	Durham Curtin van Amsterdam Southampton MPE Durham Southampton Western Australia Caltech MPE JAXA NASA Caltech Stockholm Cape Town	Probing disc-jet coupling in extragalactic micro-quasars	1,3,6	5	0.98
AM 1233	Masters, K. Hess, K. Athanasoula, E. Lintott, C. Melvin, T. Schawinski, K. Skibba, R. Willlett, K. Wong, I.	Portsmouth Cape Town OAMP Oxford Portsmouth Zurich Calif., San Diego Minnesota CSIRO	Gas Morphology and Dynamics in Strongly Barred Galaxies	20	4,5,6,10,12,2 8,29	17.05
AM 1239	Mutel, R. Lynch, C. Hallinan, G. Guedel, M. Abuhl, E.	Iowa Iowa Caltech Univ. of Vienna Iowa	A search for thermal gyrosynchrotron emission from hot stellar coronae	0.7,0.9,1	24	2.06
AN 161	Nakanishi, K. Hanami, H. Hatsukade, B. Ishigaki, T. White, G. Fujishiro, N. Serjeant, S. Matsuhara, H. Miyahi, T. Takagi, T. Oyabu, S. Wada, T. Krupmpe, M.	NAO Iwate Univ. Kyoto Univ. Iwate Univ. Open Univ. JAXA Open Unvi. JAXA Calif., San Diego JAXA Nagoya Univ. JAXA ESO	Radio Observations for Star-Formation and AGN Activities in LIRGs up to z=2	20	6,7,9,15,16,1 7,23,26,28	4.38
AO 294	O'Sullivan, S. Emonts, B. Banfield, J.	Sydney ATNF ATNF	Radio source morphology: 'nature' or 'nurture'?	10,20	29	2.16

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AO 295	Ohta, K. Seko, A. Hatsukade, B. Yabe, K.	Kyoto Univ. Kyoto Univ. Kyoto Univ. Japan	A Forming Elliptical Galaxy at z=1.4 under Multi-merging	0.7	30,31	3.84
AP 641	Perez, L. Carpenter, J. Isella, A. Chandler, C.	NRAO-Socorro Caltech Caltech NRAO-Socorro	Asymmetries and rings: Dust Trapping in Transitional Disks	0.7,3.6	15,16,17,19,23,24	13.58
AR 838	Rosero, V. Hofner, P. Kurtz, P. Araya, E. Gonzalez, C. Loinard, L. Cesaroni, R.	NMT NMT UNAM Western Illinois MPIfR UNAM INAF.	Deep Radio Continuum Observations of Massive Protostars: Completing the Survey	1.3,6	1,28,29	7.77
AS 1197	Stanimirovic, S. Murray, C. Goss, M. Helles, C. Dickey, J. Begum, A. Hennebelle, P.	Wisc., Madison Wisc., Madison NRAO-Socorro Calif., Berkeley Tasmania Wisc., Madison Obs. De Paris	21-SPONGE: 21-cm Spectral line Observations of Neutral Gas with the EVLA	20	1,3,4,6,7,8,9,13,14,15	12.36
AS 1214	Sokoloski, J. Rupen, M. Chomiuk, L. Weston, J. Mioduszewski, A. Krauss, M. Roy, N. Williams, B. Eyres, S. Bode, M. O'Brien, T. Nelson, T. Mukai, K.	Columbia NRAO-Socorro CfA Columbia NRAO-Socorro NRAO-Socorro NRAO-Socorro STScI Central Lancashire John Moores Jodrell Bank Minnesota NASA	The E-Nova Project: Early Radio Light Curves for a Diverse Sample of Novae	0.9,1.3,3.6,6,2	16,22	3.68
AS 1220	Sharon, C. Baker, A. Harris, A. Riechers, D. Seitz, S.	Rutgers Rutgers Maryland Cornell Germany	High-resolution Mapping of CO(1-0) in the Cloverleaf	0.9	11,18,21,31	3.21

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AS 1223	Szymczak, M. Bartkiewicz, A. Hoare, M. Pihlstrom, Y. Wolak, P.	Nicolaus Copernicus Nicolaus Copernicus Univ. of Leeds UNM Nicolaus Copernicus	Understanding periodic maser in G22.357+0.066	6	1	0.96
AS 1231	Stierwalt, S. Johnson, K. Putmann, M. Besla, G. Patton, D. Kalivayalil, N.	UVa UVa Columbia CfA Trent Univ. Yale Univ.	Gas Kinematics in Dwarf-Dwarf Interactions: Fueling Hierarchical Assembly	20	7,8,14,16,21,22,27	51.33
AT 434	Tarchi, A. Castangia, P. Panessa, F. Braatz, J.	INAF INAF INAF INAF	Water maser and Narrow Line Seyfert 1's: the case of IGR16385	1.3, 3.6, 22	22	2.24
AV 356	van Gorkom, J. Fernandez, X. Schiminovich, D. Hess, K. Momjian, E. Pisano, D.J. Hunt, L. Chomiuk, L. Wilcots, E. Henning, T. Kreckel, K. Oosterloo, T. Verheijen, M. Yun, M. Hibbard, J. Scoville, N. van de Weygaert, R. Popping, A. Lazio, J. Chung, A. Meyer, M. Hendel, D. Wicenec, A. Joung, M. Sorgho, A. Bershady, M.	Columbia Columbia Columbia Cape Town NRAO-Socorro West Virginia West Virginia Michigan Wisc., Madison UNM MPIA ASTRON Kapteyn Inst. Mass., Amherst NRAO-CV Caltech Kapteyn Inst. India JPL Yonsei Univ. Western Australia Columbia Western Australia Columbia Cape Town Wis., Madison	CHILES, the COSMOS HI Large Extragalactic Survey	20	3,6,10,12,13,17,18,20,21,22,26,27,29,30,31	66.98



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Program	Observer	Affiliation	Program Title	Bands	Obs. Date	Schedule Hours
AX 4	Xue, R. Wong, T. Bolatto, A.	Urbana-Champaign Urbana-Champaign Maryland	High-resolution HI mapping to complement the CARMA STING survey	20	6,13,15,19,26,27	13.80
BB 321	Braatz, J. Condon, J. Henkel, C. Lo, K.Y Reid, M. Kuo, C. Impellizzeri, V. Greene, J. Constantin, A. Gao, F. Zhao, W. Wagner, J. Litzinger, E	NRAO-CV NRAO-CV MPIfR NRAO-CV CfA UVa NRAO-CV Princeton James Madison NRAO-CV Shanghai Obs. MPIfR Univ. of Wuerzburg	The Megamaser Cosmology Project. VI	1.3	2,3,24	17.39
S61420	Nelson, T. Chomiuk, L. Mukai, K.	Minnesota Michigan NASA	Constraining the ejected mass in Fermi-detected novae with the VLA	20	13,23	2.88
SE0720	Buxton, M. Bailyn, C. Maccarone, T. Miller-Jones, J. Orosz, J. Garcia, M. MacDonald, R.	Yale Yale Southampton Curtin Calif., San Diego CfA Yale	Active Quiescence in the Black Hole Binary System A0620-00	20	9	5.44
SF0474	Sanders, J. Fabian, A. Johnstone, R. Carolin, C. Helen, R. Larrondo, J. Canning, B. Blundell, K. Taylor, G. Panagoulia, E.	MPIfR Cambridge Cambridge Cambridge Univ. of Waterloo Stanford Stanford Oxford Cambridge UNM	Deep imaging and spectroscopy of the Centaurus cluster: metals and filaments	20	15,20	5.96

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	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	514.72	72.83
Unscheduled	8.23	1.11
Maintenance	39.72	5.34
Test/Calc	122.19	16.42
Weather	0.00	0.00
Power out	0.00	0.000
Holiday Shutdown	32.00	4.30
<b>Total</b>	<b>716.83</b>	<b>100.00</b>

Average downtime measured in antenna hours was 5.01% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Correlator	16.35
Cryogenics	6.05
Electrical	2.14
Fiber Optics	1.20
Focus/Rotation	12.64
Front End	43.35
HVAC	3.59
LO/IF	1.33
Other	0.82
Recommissioning	1.60
Servo	5.65
Site Power	1.10
Software	3.86
Weather	0.11
<b>Total</b>	<b>100.00</b>

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AA369	Alexandroff, R. Zakamska, A.	Johns Hopkins Johns Hopkins	Radio Properties of Type II Quasars in the Distant Universe from SDSS-II BOSS	6,20	2,3,4,5,6,13,16	21.45
AB1445	Bonafede, A. Bruggen, M. Ebeling, H. Edge, A. Giovannini, G. Hoeft, M. Klein, U. van Weeren, R. Vazza, F.	Jacobs Univ. Jacobs Univ. Hawaii., Manoa Durham INAF Thueringer Bonn Leiden Jacobs Univ.	Radio halos in galaxy clusters: detection of the steepest spectrum know so far	20	17	1.85
AB1448	Blomme, R. Naze, Y. Prinja, R. Rauw, G. Volpi, D.	Obs. de Belgique Liege London Leige Obs. de Belgique	The colliding winds of the massive early-type binary 9 Sgr	3.6,6,20	17	0.50
AB1456	Babul, A. Basu, K. Bertoldi, F. Bonafede, A. Bruggen, M. Dolag, K. Klein, U. Nagarajan, A. Sommer, M.	Univ. of Victoria Bonn Bonn Jacobs Univ. Jacobs Univ. MPA Bonn Bonn Bonn	A census of radio haloes in Planck-SZ selected galaxy cluster	20	16	0.69
AB1467	Beltran, M. Cesaroni, R. Kumar, N. Sanchez-Monge, A.	INA INA Univ of Porto INA	Binaries and jets in high-mass star-forming regions	0.7,1.3,2	24	1.50
AB1472	Barrett, P. Beasley, A. Boboltz, D. Dieck, C. Godon, P. Mason, P. Singh, K.	GW Univ. NRAO-CV USNO USNO Vilanova Univ. NMSU TIFR	A search for radio-loud magnetic cataclysmic variables	1.3,3.6,6	3,6,7	2.98
AB1476	Barcos, L. Evans, A. Leroy, A. Murphy, E. Privon, G. Stierwalt, S.	UVA NRAO-CV NRAO-CV Carnegie Inst. UVA UVA	Unveiling extended structure in nearby luminous infrared galaxies	0.9,2,10,20	15	2.40
AC1139	Cortese, L. Brinks, E. Scott, T.	ESO Hertfordshire Hertfordshire	A unique HI tail in a galaxy triplet: testing ram pressure in x-ray faint groups	20	14,15,24,30	11.43
AC1143	Chomiuk, L. Bildsten, L. Bode, M. Eyres, S. Mioduszewski, A. Mukai, K. Munari, U. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Sokoloski, J. Townsend, D. Weston, J. Williams, B.	Michigan Santa Barbara John Moores Central Lancashire NRAO-Socorro NASA INAF Minnesota Jodrell Bank MPIfr NRAO-Socorro Columbia Ala., Tuscaloosa Columbia STScI	Tempests, not bombs: The complex, prolonged explosions of novae	0.9,2,6,20	29	1.50
AC1149	Castelletti, G. Aliu, E. Pichel, A. Roberts, M.	IAFE Columbia IAFE Eureka	Identifying the radio counterpart of the TeV gamma-ray source VER J2227+608	10,20	16	1.39
AC1157	Chen, H. Chandler, C. Reid, M. Wilner, D.	Tsing Hua Univ. NRAO-Socorro Cfa Cfa	Searching for ionized disks and outflows in two nearby massive protostars	0.7,2	7,18,20	11.40
AC1160	Cassassus, S. Menard, F. Wright, C.	Chile Obs. de Grenoble Canberra	This is a blank proposal created on Friday February 1, 2013	0.9,1.3,2	8,11,14,18	4.86
AD688	Dong, D. Murphy, E. Nyland, K.	Pomona College Caltech NMT	Broadband radio spectral analysis of the AGN-driven outflow candidate NGC1266	6	5	0.50

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AD689	Deller, A. Archibald, A. Hessels, J. Moldon, J.	ASTRON ASTRON ASTRON ASTRON	Investing the accretion state of the "missing link" pulsar J1023+0038	6,10	10,11	2.91
AF522	Foster, J. Green, J. Jackson, J. Nunez, P. Sakai, T.	Yale Univ. CSIRO Boston Boston Tokyo	G34.43+00.24 as a Proto-Orion: When and where is the IMF Established?	1.3	9,10	5.98
AG902	Greiner, J. Hunt, L. Kruehler, T. Michalowski, M. Palazzi, E. Rossi, A. Savaglio, S.	MPE ASTRO Copenhagen Edinburgh INAF Tautenburg MPE	Probing star-formation in the most massive gamma-ray burst host galaxies	10,20	5,7,8,18	3.64
AG908	Gupta, N. Momjian, E. Noterdaeme, P. Petitjean, P. Srianand, R.	ASTRON NRAO-Socorro Obs. de Paris Obs. de Paris India	Molecular absorption line search in the 21-cm absorber with 2175 angstrom bump	0.7,0.9	2	0.97
AH1108	Hlavacek-Larrondo, J Allen, S. Blundell, K. Clarke, T. Fabian, A. Green, D. Kassim, N.	Cambridge Stanford Oxford NRL Cambridge Cambridge NRL	The low-frequency view of the perseus cluster	90	24	4.43
AH1110	Hardcastle, M. Croston, J. de Gasperin, F. Harwood, J. Heesen, V. Morganti, R. Orru, E.	Hertfordshire Southampton Univ. of Hambrug Hertfordshire Southampton NFRL Nijmegen	Low-frequency spectral curvature in radio galaxies: LOFAR targets at P-band	90	24,27	7.44
AH1113	Helmboldt, J. Clarke, T. Condon, J. Cotton, W. Kassim, N. Lane, W. Perley, R.	NRL NRL NRAO-CV NRAO-CV NRL NRL NRAO-Socorro	Survey and transient-search development for the new VLA p-band system	90	27	0.96
AH1116	Horesh, A. Cao, Y. Cenko, S. Frail, D. Gal-Yam, A. Kulkarni, S. Mooley, K. Ofek, E.	Caltech Caltech Calif., Berkeley NRAO-Socorro Weizmann Inst. Caltech Caltech Weizmann Inst.	Radio follow-up of iPTF Transients	0.7,1.3,6, 10	8,16	1.94
AH1119	Heywood, I. Deane, R. Hardcastle, M. Ivison, R. Jarvis, M Lindsay, S. Mauch, T. McAlpine, K. Rainer-Kloeckner, H. Smith, D. White, S. Simpson, C.	Oxford Cape Town Hertfordshire Edinburgh Oxford Hertfordshire Hertfordshire Rhodes Univ. Oxford Hertfordshire Oxford John Moores	A VLA survey of the VIDEO/XXM-LSS Field	20	11,25,28	4.25
AH1122	Hyman, S. Cutchin, S. Kassim, N. Lazio, J.	Sweet Briar College NRL NRL JPL	Monitoring for radio transients in the galactic center with the low-band system	90	8,23	3.36
AH1125	Hunter, T. Brogan, C. Cyganowski, C.	NRAO-CV NRAO-CV CfA	Is G19.01-0.03 Really an isolated massive protostar?	1.3,6	11	4.57
AH1145	Horesh, A. Kulkarni, S.	Caltech Caltech	VLA observations of a newly discovered swift tidal disruption event candidate	0.7,0.9,1. 3,2,6	6,21	4.65

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AI170	Iverson, R. Bussmann, R. Dunne, L. Dye, S. Eales, S. Gonzalez-Nuevo, J. Negrello, M. Riechers, D. Sergeant, S.	Edinburgh Cfa Univ. of Nottingham Univ. of Nottingham Univ. of Cardiff Cantabria INAF Cornell Univ. Open Univ.	TLS: the Thousand Lens Sample	6	27	2.49
AI174	Ibar, E. Bauer, F. Eales, S. Hardcastle, M. Heywood, I Iverson, R. Jarvis, M. Leeuw, L. Thomson, A. van der Werf, P.	Chile Space Sciences Inst. Univ. of Cardiff Hertfordshire Oxford Edinburgh Oxford NASA Edinburgh Univ. of Leiden	VLA survey of low-z H-ATLAS/GAMA galaxies	2,3,6,6,10	10,16,29	3.27
AK816	Kitchener, G. Brinks, E. Heesen, V. Hunter, D. Rupen, M. Venkata, U.	Hertfordshire Hertfordshire Southampton Lowell Obs. NRAO-Socorro NRAO-Socorro	A deep spectral index survey of a subsample from LITTLE THINGS	0.9,3.6,10,20	16	3.46
AK818	Kalensky, S. Bergman, P. Hofner, P. Kurtz, S.	Lebedev Inst. OSO NMT UNAM	Fine structure of class I methanol masers in low-mass star forming regions	0.7	0.7	
AK824	Kimball, A. Condon, J. Lacy, M. Lonsdale, C.	NRAO-CV NRAO-CV NRAO-CV NRAO-CV	Star formation and radio jet activity in the most luminous QSOs in the universe	3.6,10	2,6,22	3.20
AL826	Laing, R. Bridle, A. Perley, R.	ESO NRAO-CV NRAO-Socorro	How fast are the jets in NGC6251?	6	15,16	11.92
AL836	Lang, C. Brentjens, M. Law, C. Mao, S. Mills, E. Morris, M. Ott, J. Staguhn, J. Zweibel, E.	Iowa NFRL Calif., Berkeley Wisc., Madison Calif., Los Angeles Calif., Los Angeles NRAO-Socorro Maryland Wisc., Madison	The nature and origin of the galactic center radio Arc: A VLA Faraday Study	0.7,0.7,3,6,6,10	2,10,24	8.23
AL845	Liu, H. Chou, M. Forbrich, J. Ho, P. Hora, J. Madrid, R. Michihiro, T. Rodriguez, L. Sanchez, J. Yan, C. Zhang, Q.	ASIAA ASIAA Cfa Cfa Cfa ESO ASIAA UNAM AISAA ASIAA Cfa	The jet-accretion connection in young stellar objects	2,3,6	1,5,9,10	5.21
AL849	Launhardt, R. Bower, G. Dzib, S. Henning, T. Loiuard, L. Mioduszewski, A. Ramirez, J. Zimmerman, N.	MPIA Calif., Berkeley UNAM MPIA UNAM NRAO-Socorro UNAM MPIA	ERA: revealing young exoplanets by radio astrometry	6	6,16,17,25,27	11.62
AL858	Laing, R. Bridle, A. Perley, R.	ESO NRAO-CV NRAO-Socorro	Relativistic backflow in radio-galaxy lobes	2	3	2.84
AL859	Lee, M. Heiles, C. Murray, C. Stanimirovic, S.	Wisc., Madison Calif., Berkeley Wisc., Madison Wisc., Madison	HI envelopes of molecular clouds: are they shielding layers for H2 formation?	20	1,3,4,5,9,10,13,16,18,19,21,22	14.59

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Prog#	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AL885	Law, C. Bower, G. Butler, B. Lazio, J. Mattmann, C. Rupen, M. Siemion, A. Spolaor, S. VanderWiel, S.	Calif., Berkeley Calif., Berkeley NRAO-Socorro JPL JPL NRAO-Socorro Calif., Berkeley JPL LANL	Interferometric localization of cosmological millisecond transients	20	18,19,21,22, 27	10.14
AM1128	Mangum, J. Darling, J. Henkel, C. Menten, K. Smullen, R.	NRAO-Socorro Colo., Boulder MPIfR MPIfR Wyoming	Imaging the spatial density within NGC253 and NGC3079	6	29	3.77
AM1199	Menten, K. Beuther, H. Brunthaler, A. Carrasco-Gonzalez, C Claussen, M. Csengeri, T. Hofner, P. Ott, J. Pandian, J. Reid, M. Urquhart, J. Wyrowski, F.	MPIfR MPIA MPIfR MPIfR NRAO-Socorro MPIfR UNM NRAO-Socorro Hawaii., Manoa CfA ATNF MPIfR	A comprehensive galactic plane radio wavelength star formation survey	6	3,4	10.58
AM1202	Miller-Jones, J. Altamirano, D. Bellonio, T. Fender, R. Koerding, E. Krimm, H. Maitra, D. Markoff, S. Migliari, S. Rupen, M. Russell, D. Russell, T. Sarazin, C. Sivakoff, G. Soria, R. Tudose, V.	Curtin Univ. van Amsterdam INAF Southampton Radboud Univ. NASA Mich., Ann Arbor van Amsterdam Calif., San Diego NRAO-Socorro van Amsterdam Curtin Univ. Virginia Univ. of Alberta Curtin Univ. NFRL	Probing jet acceleration and collimation in stellar-mass compact objects	0.7,1.3,3. 6,6,20	5,7,8,9,10,1 1,12,13,14,1 5,16,19,20,2 1,22	9.29
AM1205	Melis, C. Chomiuk, L. Duchene, G. Duyvert, G. Maddison, S. Menard, F. Palmer, P. Perrin, M. Pinte, C. Stapelheldt, K.	Calif., San Diego CfA Calif., Berkeley Obs. de Grenoble Swinburne Obs. de Grenoble Chicago STScI Univ. of Exeter JPL	Microwave observations of edge on protoplanetary Disks: IRAS04368+2557	0.7,1.3,6	10	2.87
AM1226	Di Francesco, J. Johnstone, D. Williams, J.	Herzberg Inst. Herzberg Inst. Hawaii., Manoa	Fundamental properties of protoplanetary disks in the orion nebula	1.3,3.6,6	3,10	5.74
AM1229	Morata, O. Ho, P.	ASIAA CfA	The powering sources of the outflows around IRAS 05324+3404	0.7,1.3,3. 6,6	12	0.69
AM1233	Masters, K. Athanassoula, E. Hess, K. Lintott, C. Melvin, T. Schawinski, K. Skibba, R. Willett, K. Wong, I.	Portsmouth Marseille-Provence Cape Town Oxford Portsmouth ETH Zurich Calif., San Diego Minnesota CSIRO	Gas Morphology and Dynamics in strongly barred galaxies	20	27	1.89
AM1238	Murphy, E. Condon, J. Meier, D. Momjian, E. Ott, J. Schinnerer, E. Turner, J. Helou, G.	Carnegie Inst. NRAO-CV NMT NRAO-Socorro NRAO-Socorro MPIA Calif., Los Angeles Caltech	The star formation in radio survey: Mapping radio spectra in nearby galaxies	2,10	4,5,14	12.83

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AM1241	Montes, G. Carrasco-Gonzalez, C Ramirez-Ruiz, E. Rodriguez, L.	IAA-CSIC MPIFR California UNAM	Testing particle shock acceleration in the wind-collision region of WR 147	0.7,0.9,1. 3,2	2	1.92
AN161	Nakanishi, K. Fujishiro, N. Hanami, H. Hatsukade, B. Ishigaki, T. Krumpe, M. Matsuhara, H. Miyaji, T. Oyabu, S. Serjeant, S. Takagi, T. Wada, T. White, G.	NAO JAXA Iwate Univ. Kyoto Univ. Iwate Univ. ESO JAXA Calif., San Diego Nagoya Univ. Open Univ. JAXA JAXA Open Univ.	Radio observations for star-formation and AGN activities in LIRGs up to z=2	20	1,8,15,25	1.91
AQ293	Olmi, L. Araya, E. Hofner, P. Molinari, S. Moscadelli, L. Pestalozzi, M.	INAF Western Illinois NMT INAF INAF INAF	Observations of a newly discovered population of weak 6.7 GHz methanol masers	6	1,8,20,24,27 ,30	6.24
AP636	Peri, C. Benaglia, P. Marti, J. Sanchez-Sutil, J.	IAR IAR Unvi. de Jaen Univ. de Jaen	Search for non-thermal emission from stellar bow shocks	6	4	0.96
AP637	Pasetto, A. Kraus, A. Mack, K.	MPIFR MPIFR INAF	A search for radio sources with large rotation measure-the principal sample	3.6,6,10,2 0	19	0.49
AP640	Perley, D. Hjorth, J. Jakobsson, P. Kruehler, T. Levan, A. Malesani, D. Michalowski, M. Perley, R. Tanvir, N.	Caltech Copenhagen Iceland Copenhagen Univ. of Warwick Copenhagen Edinburgh NRAO-Socorro Leicester	The dust-unbiased star formation rates of GRB-selected star-forming galaxies	10	1,3,17,22,23	23.93
AP641	Perez, L. Carpenter, J. Chandler, C. Isella, A.	NRAO-Socorro Caltech NRAO-Socorro Caltech	Asymmetries and rings: Dust trapping in Transitional Disks	0.7,3.6	2,9,11,23,24	19.42
AR829	Rabidoux, K. Pisano, D.J.	West Virginia West Virginia	Measuring star formation in local luminous compact blue galaxies	0.7,2,6,20	5,7	1.00
AR838	Rosero, V. Araya, E. Cesaroni, R. Gonzalez-Carrasco, C Hofner, P. Kurtz, S. Loinard, L.	NMT Western Illinois INA MPIFR NMT UNAM UNAM	Deep radio continuum observations of massive protostars: completing the survey	1.3,6	24,30	3.92
AS1197	Stanimirovic, S. Begum, A. Dickey, J. Goss, M. Heiles, C. Hennebelle, P. Murray, C.	Wisc., Madison Wisc., Madison Tasmania NRAO-Socorro Calif., Berkeley Obs. de Paris Wisc., Madison	21-SPONGE: 21-cm Spectral line observations of neutral gas with the EVLA	20	20,23,26,27, 29	4.28

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS1208	Soderberg, A. Bartel, N. Bietenholz, M. Brunthaler, A. Chakraborti, S. Chomiuk, L. Dittmann, J. Fransson, C. Hamuy, M. Katz, B. Levesque, E. MacFadyen, A. Mazzali, P. Nakar, E. Pignata, G. Ray, A.	CfA HartRAO HartRAO MPIFR TIFR CfA CfA Stockholm Chile IAS Hawaii., Manoa New York MPA Tel Aviv Univ.. Chile TIFR	The diversity of SNe Ibc and the nature of the GRB-SN connection	1.3,3.6,6,20	16,25	1.46
AS1214	Bode, M. Chomiuk, L. Eyres, S. Krauss, M. Mioduszewski, A. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Weston, J. Williams, B.	John Moores CfA Central Lancashire NRAO-Socorro NRAO-Socorro Minnesota Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia STScI	The E-Nova Project: Early Radio Light Curves for a Diverse Sample of Novae	0.9,1.3,2,3.6,6	7,9,22,24,29,30	7.44
AS1220	Sharon, C. Baker, A. Harris, A. Riechers, D. Seitz, S.	Rutgers Rutgers Maryland Cornell Ludwig, Muenchen	High-resolution Mapping of CO(1-0) in the cloverleaf	0.9	2,4,7,8,9,10,11	10.71
AS1222	Scaife, A. Bell, M. Govoni, F. Grainge, K. Ibaraki, Y. Mroczkowski, T. Murgia, M. Orru, E. Ota, N. Pizzo, R.	Southampton MPIA INAF Cambridge Nara Women's Univ. JPL INAF Nijmegen Nara Women's Univ. ASTRON	Magnetic Fields in Heavenly Bridges	90	28,30	6.06
AS1224	Stutz, A. Bourke, T. Henning, T. Launhardt, R. Loiuard, L. Mioduszewski, A. Schlafly, E.	MPIA CfA MPIA MPIA UNAM NRAO-Socorro MPIA	Globule Distance Survey	6	2,6,12,21,23,24,25	7.82
AS1226	Sajina, A. Bustamante, A. Lacy, M.	Tufts Univ. Tufts Univ. NRAO-CV	Constraining radio jet-driven feedback in young, dusty $z \sim 0.3-0.7$ quasars	10,3.6	3,5	2.45
AT432	Tarchi, A. Brunthaler, A. Castangia, P. Darling, J. Henkel, C. Pawlowski, M.	INAF MPIFR INAF Colo., Boulder MPIFR Bonn	The puzzling local group dwarfs' planes: proper motion of N6822 via H <sub>2</sub> O masers	1.3	5	0.97
AT436	Tobin, J. Chandler, C. Dunham, M. Kratter, K. Li, Z. Looney, L. Melis, C. Perez, L. Sadavoy, S. Segura-Cox, D.	NRAO-CV NRAO-Socorro Yale Colo., Boulder Virginia Urbana-Champaign Calif., San Diego NRAO-Socorro Unvi. of Victoria Urbana-Champaign	Characterizing binary and disk formation in young protostellar systems	0.9,6	4,6,7,8,9,10,11,12,13,14,19,20,26	57.33



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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AV356	van Gorkom, J. Bershady, M. Chomiuk, L. Chung, A. Fernandez, X. Hendel, D. Henning, T. Hess, K. Hibbard, J. Hunt, L. Joung, M. Kreckel, K. Lazio, J. Meyer, M. Momjian, E. Oosterloo, T. Pisano, D.J. Popping, A. Schiminovich, D. Scoville, N. Sorgho, A. van de Weygaert, R. Verheijen, M. Wicenc, A. Wilcots, E. Yun, M.	Columbia Wisc., Madison Michigan Yonsei Univ. Columbia Columbia UNM Cape Town NRAO-CV West Virginia Columbia MPIA JPL Western Australia NRAO-Socorro ASTRON West Virginia ICRAR Columbia Caltech Cape Town Kapteyn Inst. Kapteyan Inst. ICRAR Wisc., Madison Mass., Amherst	CHILES, the COSMOS HI Large extragalactic survey	20	9,12,16,17,18,19,21,22,23,26	54.22
AW849	Weston, J. Bode, M. Chomiuk, L. Eyres, S. Krauss, M. Mioduszewski, A. Mukai, K. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Sokoloski, J. Williams, B.	Columbia John Moores Cfa Central lancashire NRAO-CV NRAO-Socorro NASA Minnesota Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia STScI	The E-Nova Project: Testing the Hubble flow model for V1723 Aql	0.9,1.3,2,3.6	30	2.99
AW857	Williams, P. Berger, E. Zauderer, B.	Cfa Cfa Cfa	Decoding the radio emission mechanism of ultracool dwarfs with broadband spectra	1.3,3.6,6,20	1,4	2.40
AX004	Xue, R. Bolatto, A. Wong, T.	Urbana-Champaign Maryland Urbana-Champaign	High-resolution HI mapping to complement the CARMA STING survey	20	9,12,17,30	6.10
BA105	Amiri, N. Darling, J.	Colo., Boulder Colo., Boulder	Probing Magnetic Fields in the Accretion Disks of Supermassive Black Holes	1.3	25,29	11.37
BN046	Nyland, K. Alatalo, K. Wrobel, J. Young, L.	NMT Calif., Berkeley NRAO-Socorro NMT	HSA observations to the AGN driving the massive molecular outflow in NGC 1266	21	1	7.65
S50386	cenko, S. Bloom, J. Chandra, P. Filippeko, A. Frail, D. Harrison, F. Kulkarni, S. Perley, D. Prochaska, J. Rana, V.	Calif., Berkeley Calif., Berkeley RMCC Calif., Berkeley NRAO-Socorro Caltech Caltech Caltech Calif., Santa Cruz Caltech	Afterglows, redshifts, and calorimetry of fermi gamma-ray burst blazars	20	11,16,24	5.21
SE0737	Rottgering, H. Bruggen, M. Croston, J. Forman, W. Hoeft, M. Jones, C. Kraft, G. Murray, S. Ogrean, G. Rudnick, L. Sarazin, C. Simionescu, A. van Weeren, R.	Leiden Jacobs Univ. Johns Hopkins Cfa Tautenburg Cfa Jacobs Univ. Southampton Jacobs Univ. Minnesota UVA Stanford Leiden	The 'toothbrush-cluster': probing particle acceleration by merger induced shock	20	30	7.68

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
SF0858	Jones, C. Bonafede, A. Churazov, E. Donahue, M. Goulding, A. Lawrence, D. Merten, J. Mroczkowski, T. Murray, S. Nulsen, P. Roediger, E. Rosati, P. Umetsu, K. van Weeren, R. Vikhlinin, A. Zitrin, A.	CfA Univ. of Hamburg MPIA Michigan CfA CfA Caltech Caltech Johns Hopkins CfA Hamburg ESO ASIAA CfA CfA Heidelberg	Clusters, Galaxies, and AGN in HST Frontier Fields	20	5,25	11.67

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	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	500.55	72.14
Unscheduled	5.19	0.75
Maintenance	30.81	4.44
Test/Calc	133.30	19.21
Weather	0.00	0.00
Power out	0.00	0.000
Holiday Shutdown	24.00	3.46
<b>Total</b>	<b>693.85</b>	<b>100.00</b>

Average downtime measured in antenna hours was 4.96% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Antenna Pads	0.32
Correlator	1.22
Cryogenics	4.41
Fiber Optics	3.27
Focus/Rotation	2.64
Front End	26.19
HVAC	3.65
LO/IF	3.16
Other	7.99
Recommissioning	9.62
Servo	19.36
Site Power	0.98
Software	12.38
Weather	4.82
<b>Total</b>	<b>100.00</b>

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB1448	Bloome, R. Naze, Y. Prinja, R. Rauw, G. Volpi, D.	Obs. de Belgique Univ. of Liege London Univ. of Liege Obs. de Belgique	The colliding winds of the massive early-type binary 9 sgr	3.6,6,20	19	0.50
AB1467	Beltran, M. Cesaroni, R. Kumar, N. Sanchez-Monge, A.	INAF INAF INAF INAF	Binaries and jets in high-mass star-forming regions	0.7,1.3,2,	18	0.49
AB1472	Barrett, P. Beasley, A. Boboltz, D. Dieck, C. Godon, P. Mason, P. Singh, K.	GW Univ. NRAO-CV USNO USNO Villanova Univ. NMSU TIFR	A search for Radio-Loud Magnetic Cataclysmic Variables	1.3,3.6,6	1,3,20,22,24 ,25,26,27,28	14.60
AB1480	Berger, E. Chakraborti, S. Chomock, R. Fong, W. Laskar, T. Margutti, R. Menten, K. Metzger, B. Nakar, E. Sari, R. Soderberg, A. Zauderer, B.	CfA CfA CfA CfA CfA MPIfR Princeton Tel Aviv Univ. Jerusalem CfA CfA	New insights on Gamma-Ray bursts with the JVLA-Extension of 13A-046	1.3,6	27	1.19
AC1111	Carilli, C. Andreani, P. Cox, P. Lentati, L. Maiolino, R. McMahon, R. Riechers, D. Wagg, J. Walter, F. Wolfe, A.	NRAO-Socorro ESO IRAM Cambridge INAF Cambridge Cornell ESO MPIA Calif., San Diego	Anatomy of massive galaxy and SMH formation	0.7	28	1.79
AC1143	Chomiuk, L. Bildsten, L. Bode, M. Eyes, S. Mioduszewski, A. Mukai, K. Munari, U. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Sokoloski, J. Townley, D. Weston, J. Williams, B.	Michigan Calif., Santa Barbar John Moores Central Lancashire NRAO-Socoro NASA INAF Minnesota Jodrell Bank MPIfR NRAO-Socorro Columbia Ala., Tuscaloosa Columbia STScI	Tempests, not bombs: The complex, prolonged explosions of novae	0.9,2,6,20	4,19	2.95
AC1145	Chandra, P. Chevalier, R. Chugai, N. Fox, O. Fransson, C. Soderberg, A.	TIFR UVa Moscow Calif., Berkeley Stockholm CfA	A search for radio emission in Type II supernovae	1.3	20	0.50
AC1160	Casassus, S. Menard, F. Wright, C.	Chile Obs. de Grenoble UNSW	This is a blank proposal created on Friday February 1, 2013	0.9,1.3,2,	24	1.00
AE199	Ellingsen, S. Breen, S. Hofner, P.	Tasmania ATNF UNM	Radio continuum emission from the youngest high-mass star formation regions	1.3,6	24	2.47
AG209	Giroletti, M. Ghisellini, G. Giovannini, G. Sbarrato, T.	INAF INAF INAF INAF	Search of a relativistic kiloparsec scale jet in the early universe: B2 1023+25	6,20	24	0.49

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AG891	Ginsburg, A. Bally, J. Battersby, C. Becklin, E. Darling, J. Klein, R. Koda, J. Sankrit, R. Scoville, N. Smith, E. Smith, R. Youngblood, A.	Colo., Boulder Colo., Boulder Colo., Boulder UCLA Colo., Boulder USRA Stony Brook USRA Caltech NASA Heidelberg Colo., Boulder	Massive stars and ionized and molecular gas in the W51 complex	2,6	1	4.86
AG903	Gultekin, K. Fabian, A. Miller, J. van den Bosch, R.	Mich., Ann Arbor Cambridge Mich., Ann Arbor MPIA	Ultramassive black holes on the fundamental plane of black hole accretion		1,20,21	5.95
AG908	Gupta, N. Srianand, R. Momjian, E. Noterdaeme, P. Petitjean, P.	ASTRON India NRAO-Socorro Obs. de Paris Obs. de Paris	Molecular absorption line search in the 21-cm absorber with 2175 angstrom bump	0.7,0.9	19,23	2.87
AH1117	Heywood, I. Deane, R. Jarvis, M. Obreschkow, D. Smirnov, O.	Oxford Oxford Oxford ICRAR NFRL	The first/last word on the CO content of the earliest star forming galaxies	2	1,2,3,20,22,25,26,27	19.54
AH1122	Hyman, S. Cutchin, S. Kassim, N. Lazio, J.	Sweet Briar NRL NRL JPL	Monitoring for radio transients in the galactic center with the low-band system	90	26	1.50
AH1123	Henkel, C. Braatz, J. Brunthaler, A. Condon, J. Greene, J. Impellizzeri, V. Lo, K.Y. Reid, M.	MPIfR NRAO-Socorro MPIfR NRAO-CV Princeton NRAO-CV NRAO-CV CfA	Jets from H2O Disk-Megamaser Galaxies?	0.9	20,21,22,24	3.85
AH1125	Hunter, T. Brogan, C. Cyganowski, C.	NRAO-CV NRAO-CV CfA	Is G19.01-0.03 really an isolated massive protostar?	1.3,6	21	1.15
AH1145	Horesh, A. Kulkarni, S.	Caltech Caltech	VLA Observations of a newly discovered swift tidal disruption event candidate	2,3,6,6	4	1.00
A1174	Ibar, E. Bauer, F. Eales, S. Hardcastle, M. Heywood, I. Ivison, R. Jarvis, M. Leeuw, L. Thomson, A. van der Werf, P.	Chile SSI Univ. of Cardiff Hertfordshire Oxford Edinburgh Oxford NASA Edinburgh Leiden	VLA Survey of low-z H-ATLAS/GAMA Galaxies	2,3,6,6,10	1,26,28	5.67
AK818	Kalensky, S. Bergman, P. Hofner, P. Kurtz, S. Walmsley, C.	Lebedev Insst. OSO NMT UNAM INAF	Fine structure of class I methanol masers in low-mass star forming regions	0.7	19	0.66
AL845	Chou, M. Forbrich, J. Galvan-Madrid, R. Ho, P. Hora, J. Michihito, T. Rodriguez, L. Sanchez, J. Sanchez, J. Yan, C. Zhang, Q.	ASIAA CfA ESO CfA CfA ASIAA UNAM ASIAA ASIAA ASIAA CfA	The Jet-Accretion Connection in young stellar objects	2,3,6	18,19,25,27	2.23

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AL849	Launhardt, R. Bower, G. Dzib, S. Henning, T. Loinard, L. Mioduszewski, A. Ramirez, J. Zimmerman, N.	MPIA Calif., Berkeley UNAM MPIA UNAM NRAO-Socorro UNAM MPIA	ERA: revealing young exoplanets by radio astrometry	6	29,30	5.71
AL858	Laning, R. Bridle, A. Perley, R.	ESO NRAO-CV NRAO-Socorro	Relativistic back flow in radio-galaxy lobes	2	25	2.96
AL859	Lee, M. Heiles, C. Murray, C. Stanimirovic, S.	Wisc., Madison Calif., Berkeley Wisc., Madison Wisc., Madison	Hi Envelopes of Molecular clouds: are they shielding layers for H2 formation?	20	4,18,21,23,2 5,28,29,30	5.16
AM1199	Menten, K. Beuther, H. Brunthaler, A. Carrasco-Gonzalez, C Claussen, M. Csengeri, T. Hofner, P. Pandian, J. Reid, M. Urquhart, J. Wyrowski, F.	MPIFR MPIA MPIFR MPIFR NRAO-Socorro MPIFR NMT Hawaii., Manoa CfA ATNF MPIFR	A comprehensive galactic plane radio wavelength star formation survey	6	2,3	10.97
AM1202	Miller-Jones, J. Altamirano, D. Belloni, T. Fender, R. Koerding, E. Krimm, H. Maitra, D. Migliari, S. Rupen, M. Russell, D. Sarazin, C. Sivakoff, G. Soria, R. Tudose, V.	Curtin Univ. Van Amsterdam INAF Southampton Radboud Univ. NASA Mich., Ann Arbor Calif., San Diego NRAO-Socorro Van Amsterdam Univ. of Virginia Univ. of Alberta Curtin Univ. ASTRON	Probing jet acceleration and collimation in stellar-mass compact objects	0.7,1.3,3. 6,6,20	29	0.48
AM1205	Melis, C. Chomiuk, L. Duchene, G. Duvert, G. Maddison, S. Menard, F. Palmer, P. Perrin, M. Pinte, C. Stapelheldt, K.	Calif., San Diego CfA Calif., Berkeley Obs. de Grenoble Australia Obs. de Grenoble Chicago STScI Univ. of Exeter JPL	Microwave Observations of Edge-on Protoplanetary Disks: IRAS04368+2557	0.7,1.3,6	4,19	5.74
AM1222	Marti, J. Luque-Escamila, P. Marcote, B. Paredes, J. Ribo, M.	Univ. de Jaen Univ. de Jaen Barcelona Barcelona Barcelona	Observing two peculiar stars indentified while searching for gamma-ray binaries	6	20	0.49
AM1229	Morata, O. Ho, P.	ASIAA CfA	The powering sources of the outflows around IRAS 05327+3404	0.7,1.3,3. 6,6	23,24,30	3.64
AM1238	Murphy, E. Condon, J. Helou, G. Meier, D. Momjian, E. Ott, J. Schinnerer, E. Turner, J.	Carnegie Inst. NRAO-CV Caltech NMT NRAO-Socorro NRAO-Socorro NRAO-CV Calif., Los Angeles	The star formation in radio survey: Mapping radio spectra in nearby galaxies	2,10	28	1.90
AM1239	Abuhl, E. Guedel, M. Hallinan, G. Mutel, R.	Iowa Univ. of Bienna Caltech Iowa	A search for thermal gyrosynchrotron emission from hot stellar coronae	0.7,0.9,1. 3,2	2,19,28	5.67

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AN161	Nakanishi, K. Fujishiro, N. Hanami, H. Hatsukade, B. Ishigaki, T. Krumpe, M. Matsuhara, H. Miyaji, T. Oyabu, S. Serjeant, S. Takagi, T. Wada, T. White, G.	NAO JAXA Iwate Univ. Kyoto Univ. Iwate Univ. ESO JAXA Calif., San Diego Nagoya Univ. Open Univ. JAXA JAXA Open Univ.	Radio observations for star-formation and AGN activities in LIRGs up to z=2	20	26	0.48
A0293	Olimi, L. Araya, E. Hofner, P. Molinari, S. Morales, J. Moscadelli, L. Pestalozzi, M.	INAF Illinois NMT INAF INAF INAF INAF	Observations of a newly discovered population of weak 6.7 GHz methanol masers	6	31	0.68
AP630	Perlman, E. Georganopoulos, M. Hogan, B. Lister, M. Marshall, H.	Florida Baltimore Purdue Purdue Massachusetts	3C 111: An Ideal Galaxy for Revealing Jet Physics	2,3,6,6	30	3.80
AP636	Peri, C. Benaglia, P. Marti, J. Sanchez-Sutil, J.	Argentina Argentina Puerto Rico Puerto Rico	Search for non-thermal emission from stellar bow shocks	6	26,27	0.98
AP640	Perley, D. Hjorth, J. Jakobsson, P. Kruehler, T. Levan, A. Malesani, D. Perley, R. Tanvir, N.	Caltech Copenhagen Iceland Copenhagen Univ. of Warwick Copenhagen NRAO-Socorro Univ. of Leicester	The dust-unbiased star-formation rates of GRB selected star forming galaxies	10	26	1.48
AP641	Perez, L. Carpenter, J. Chandler, C. Isella, A.	NRAO-Socorro Caltech NRAO-Socorro Caltech	Asymmetries and rings: dust trapping in transitional disks	0.7	26	2.88
AR829	Rabidoux, K. Pisano, D.J.	West Virginia West Virginia	Measuring star formation in local luminous compact blue galaxies	0.7,2,6,20	28	0.47
AR832	Riechers, D. Bradford, C. Chapman, S. Clements, D. Conley, A. Cooray, A. Dowell, D. Fu, H. Iverson, R. Omont, A. Perez-Foumon, I. Wardlow, J.	Cornell JPL Cambridge Imperial Colo., Boulder Calif., Irvine Caltech Caltech Edinburgh Obs. de Paris IAC Calif., Irvine	Detailed Molecular gas properties of the most distant massive starburst galaxy	0.9	2,21,22,27	20.39
AR844	Rodriguez, L. Dzib, S. Loiuard, L. Ortiz, G. Zapata, L.	UNAM UNAM UNAM UNAM UNAM	Are the sub-mm cavities in transitional disks true or apparent?	3.6	27,29	2.81
AS1214	Sokoloski, J. Bode, M. Chomiuk, L. Eyles, S. Krauss, M. Mioduszewski, A. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Weston, J. Williams, B.	Columbia John Moores Cfa Central Lancashire NRAO-CV NRAO-Socorro Minnesota Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia STScI	The E-Nova Project: Early Radio Light Curves for a Diverse Sample of Novae	0.9,1.3,3.6,2	18,19,24,26	3.64

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS1220	Sharon, C. Baker, A. Harris, A. Riechers, D. Seitz, S.	New Jersey New Jersey Maryland Cornell Munich	High-resolution mapping of CO(1-0) in the cloverleaf	0.9	19,20,21,26, 27	6.17
AS1226	Sajina, A. Bustamante, A. Lacy, M.	Tufts Univ. Tufts Univ. NRAO-CV	Constraining radio jet-driven feedback in young, dusty $z \sim 0.3-0.7$ quasars	3.6,10	27	0.30
AS1231	Stierwalt, S. Besta, G. Besta, G. Johnson, K. Kallivayalil, N. Patton, D. Putman, M.	Uva CfA CfA Uva CfA Trent Univ. Columbia	Gas kinematics in dwarf-dwarf interactions: fueling hierarchical assembly	20	20	6.62
AT432	Tarchi, A. Brunthaler, A. Castangia, P. Darling, J. Henkel, C. Pawlowski, M.	INAF MPIfR INAF Colo., Boulder MPIfR Bonn	The puzzling local group dwarf' planes: proper motion of N6822 via H2O masers	1.3	20,24,25,26, 27,28,29,30	10.69
AT434	Braatz, J. Castangia, P. Panessa, F.	NRAO-CV INAF INAF	Water maser and narrow line seyfert 1's: the case of IGR16385	1.3,3.6,20	19	1.92
AT436	Tobin, J. Chandler, C. Dunham, M. Kratte, K. Li, Z. Looney, L. Melis, C. Perez, L. Sadavoy, S. Segura-Cox, D.	NRAO-CV NRAO-Socorro CfA Colorado UVA Urbana-Champaign Calif., San Diego NRAO-Socorro Univ. of Victoria Urbana-Champaign	Characterizing Binary and disk formation in young protostellar systems	0.9,6	1,2,3,4,19,2 0,21,22,23,2 4,26,27,28	53.75
AV350	van Weeren, R. Bruggen, M. Forman, W. Hoeft, M. Intema, H. Jones, C. Kraft, R. Ogrean, G. Rottgering, H. Rudnick, L. Stroe, A.	CfA Jacobs Univ. CfA Tautenburg NRAO-Socorro CfA CfA Univ. of Hamburg Univ. of Leiden Minnesota Univ. of Leiden	Shock and Awe: Deep JVLA observations of the 'Sausage Cluster'	10,20	21,30	15.51
AV356	van Gorkom, J. Bershady, M. Chomiuk, L. Chung, A. Fernandez, X. Hendel, D. Henning, T. Hess, K. Hibbard, J. Hunt, L. Joung, M. Kreckel, K. Lazio, J. Meyer, M. Momjian, E. Oosterloo, T. Pisano, D.J. Popping, A. Schiminovich, D. Scoville, N. Sorgho, A. van de Weygaert, R. Verhejen, M. Wicenec, A. Wilcots, E. Yun, M.	Columbia Wisc., Madison Michigan Yonsei Univ. Columbia Columbia UNM Cape Town NRAO-CV West Virginia Columbia MPIA JPL West Australia NRAO-Socorro ASTRON West Virginia ICRAR Columbia Caltech Cape Town Kapteyn Inst. Kapteyn Inst. ICRAR Wisc., Madison Mass., Amherst	CHILES, the COSMOS HI Large extragalactic survey	20	25,29,31	11.45
AW857	Williams, P. Berger, E. Zauderer, B.	CfA CfA CfA	Decoding the radio emission mechanism of ultracool dwarfs with broadband spectra	1.3,3.6,6, 20	3	1.25



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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AX004	Xue, R. Bolatto, A. Wong, T.	Urbana-Champaign Maryland Urbana-Champaign	High-resolution HI mapping to complement the CARMA STing survey	20	29	1.62
S50386	Cenko, S. Bloom, J. Chandra, P. Filippeko, A. Frail, D. Harrison, F. Kulkarni, S. Perley, D. Prochaska, J. Rana, V.	Calif., Berkeley Calif., Berkeley RMCC Calif., Berkeley NRAO-Socorro Caltech Caltech Caltech Calif., Santa Cruz Caltech	Afterglows, reshifts, and calorimetry of fermi gamma-ray bursts blazars	20	19	2.49
SE0824	Haggard, D. Heinke, C. Roberts, D. Yusef-Zadeh, F.	Northwestern Univ. Univ. of Alberta Northwestern Univ. Northwestern Univ.	Joint Chandra/XMM/EVLA monitoring of the gas cloud G2 as it encounter Sgr A*	20	4,28	8.43

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	Actual Hours	Percentage
Astronomy	275.78	39.14
Unscheduled	2.75	0.37
Maintenance	20.78	2.79
Test/Calc	102.25	13.74
Weather	0.00	0.00
Power out	0.00	0.000
Holiday Shutdown	0.00	0.00
<b>Total</b>	<b>728.56</b>	<b>100.00</b>

Average downtime measured in antenna hours was 45.30% of scheduled antenna hours, distributed as:

System	Percentage
Correlator	11.36
Cryogenics	11.43
Fiber Optics	10.58
Focus/Rotation	0.0
Front End	9.73
HVAC	1.55
LO/IF	7.31
Other	0.68
Servo	26.91
Site Power	0.70
Software	19.63
Weather	0.03
<b>Total</b>	<b>100.00</b>

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA355	Akahori, T. Anraku, K. Nakanishi, H. Onodera, S. Ozawa, T. Sofue, Y. Tsuda, Y.	Korea Kagoshima Univ. Kagoshima Univ. Meisei Univ. Meisei-Univ. Tokyo Meisei Univ.	RM Observations of 6 Galaxy Clusters for Probing IGMF Turbulence Amplification	3.6,6,10	1,2	4.97
AB1448	Blomme, R. Naze, Y. Pringa, R. Rauw, G. Volpi, D.	Obs. de Belgique Univ. de Liege London Univ. de Liege Obs. de Belgique	The colliding winds of the massive early-type binary 9 sgr	3.6,6,20	11	0.47
AB1456	Babul, A. Basu, K. Bertoldi, F. Bonafede, A. Bruggen, M. Dolag, K. Klein, U. Nagarajan, A. Sommer, M.	Univ. of Victoria Bonn Bonn Jacobs Univ. Jacobs Univ. MPA Bonn Bonn Bonn	A census of radio haloes in Planck-SZ selected galaxy clusters	20	1,2	1.38
AB1471	Bigiel, F. Brinks, E. Charkabarti, S. Chicharro, R. de Blok, E. Faridani, S. Kerp, J. Ott, J. Pisano, D.J. Walter, F. Wang, H.	Heidelberg Hertfordshire Florida Heidelberg NFRL Bonn Bonn NRAO-Socorro West Virginia MPIA ASIAA	THINGS XXL: Studying the Super-Extended HI Disk in the Nearby Disk Galaxy M83	20	14	1.41
AB1472	Barrett, P. Beasley, A. Boboltz, D. Dieck, C. Godon, P. Mason, P. Singh, K.	GW Univ. NRAO-CV USNO USNO Villanova Univ. NMSU TIFR	A search for radio-loud magnetic cataclysmic variables	1.3,3.6,6	11,12,13,14,15,16,17,29	11.59
AB1477	Baker, A. Frayser, D. Harris, A. Iverson, R.	New Jersey, Rutgers NRAO-CV Maryland Edinburgh	Understanding large line widths in the most extreme dusty high-z starbursts	0.9	17,20,29	9.87
AB1480	Berger, E. Chakraborti, S. Chornock, R. Fong, W. Laskar, T. Margutti, R. Menten, K. Metzger, B. Nakar, E. Sari, R. Soderberg, A. Zauderer, B.	CfA CfA CfA CfA CfA CfA MPIFR Princeton Tel Aviv Hebrew Univ. CfA CfA	New insights on Gamma-Ray Bursts with the JVLA-Extension of 13A-046	1.3,6	1,5,13,15	4.83
AC1111	Carilli, C. Andreani, P. Cox, P. Lentati, L. Maiolino, R. McMahon, R. Riechers, D. Wagg, J. Walter, F. Wolfe, A.	NRAO-Socorro ESO IRAM Cambridge INAF Cambridge Cornell ESO MPIA Calif., San Diego	Anatomy of massive galaxy and SMH formation	0.7	29	3.40
AC1129	Corsi, A. Cenko, B. Dhuga, K. Frail, D. Kulkarni, S. Perley, D. Sonbas, E.	Caltech Calif., Berkeley GW Univ. NRAO-Socorro Caltech Caltech Adiyaman Univ.	Probing the composition of GRB jets with JVLA: a quest for rverse shocks	0.7,1.3,3.6,6	8,9,10,14,19	6.94

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AC1136	Chakrabarti, S. Bigiel, F. Blitz, L. Bolton, A. Chang, P. de Blok, E. Doozan, B. Fassnacht, C. Gallagher III, J. Huff, E. Mandelbaum, R. Subrahmanyan, R. Wright, M.	Florida Heidelberg Calif., Berkeley Utah Milwaukee NFRL Florida Calif., Davis Wisc., Madiosn Calif., Berkeley Carnegie NRAO-Socorro Calif., Berkekely	A new probe of dark matter in spiral galaxies	20	1,2	5.95
AC1149	Castelletti, G. Aliu, E. Pichel, A. Roberts, M.	Argentina Columbia Argentina Eureka	Identifying the radio counterpart of the TeV gamma-ray source VER J2227+608	10,20	28	1.49
AC1152	Castelletti, G. Clarke, T. Dubner, G. Giacani, E. Kassim, N. Supan, L.	Argentina NRL Argentina Argentina NRL Argentina	The first P-band EVLA observations of the enigmatic SN RXJ1713.7-3946	90	15	0.95
AC1166	Corsi, A. Berger, E. Cenko, B. Dhuga, K. Kulkarni, S. Laskar, T. Margutti, R. Perley, D. Soderberg, A. Sonbas, E. Zauderer, B.	GW Univ. Cfa Calif., Berkeley GW Univ. Caltech Cfa Cfa Caltech Cfa Adiyaman Univ. Cfa	Late-Time follow-up of GRB 130215A with the VLA	1,3,6,10	10	1.47
AG995	Green, D. Hwang, U. Katsuda, S. Long, K. Petre, R. Reynolds, S. Williams, B. Winkler, F.	Cambridge NASA RIKEN STScI NASA North Carolina NASA Middlebury	Observations of G327.6+14.6=SN AD1006:high-resolution continuum plus HI	20	15	1.90
AG903	Gultekin, K. Fabian, A. Miller, J. van den Bosch, R.	Mich., Ann Arbor Cambridge Mich., Ann Arbor MPIA	Ultramassive Black Holes on the Fundamental Plane of Black Hole Accretion	3,6,6	27,28,30	8.76
AG908	Gupta, N. Momjian, E. Noterdaeme, P. Petitjean, P. Srianand, R.	ASTRON NRAO-Socorro Obs. de Paris Obs. de Paris IUCAA	Molecular absorption line search in the 21-cm absorber with 2175 angstrom bump	0.7,0.9	6,21,22,30	3.93
AH1092	Hallenbeck, G. Giovanelli, R. Haynes, M. Huang, S. Papastergis, E.	Cornell Cornell Cornell Cornell Cornell	Gas-Bearing Red Dwarf Ellipticals in Virgo: Re-accretion from the Cosmic Web?	20	2	0.89
AH1098	Hewitt, J. Ghavamian, P. Petre, R. Reynolds, S. Williams, B.	NASA Towson Univ. NASA North Carolina NASA	A new epoch of EVLA observations of Tycho's SNR: Proper Motions and More	6,20	28	1.99
AH1104	Hallinan, G. Bourke, S. Villadsen, J.	Caltech Caltech Caltech	The Thermal Atmospheres of Nearby Solar-type Stars	2,3,6	3	1.81
AH1116	Horesh, A. Cao, Y. Cenko, S. Frail, D. Gal-Yam, A. Kulkarni, S. Mooley, K. Ofek, E.	Caltech Caltech Calif., Berkeley NRAO-Socorro Weizmann Inst. Caltech Caltech Weizmann Inst.	Radio follow-up of iPTF Transients	0.7,1.3,3,6,6,10	6	0.99

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH1117	Heywood, I. Deane, R. Jarvis, M. Obreschkow, D. Smimov, O.	Oxford Oxford Oxford ICRAR NFRL	The first/last word on the Co content of the earliest star forming galaxies	2	13,15,17,18, 19	9.79
AH1119	Heywood, I. Deane, R. Hardcastle, M. Ivison, R. Jarvis, M. Kloeckner, H. Lindsay, S. Mauch, T. McAlpine, K. Simpson, C. Smith, D. White, S.	Oxford Cape Town Hertfordshire Edinburgh Oxford Hertfordshire Hertfordshire Rhodes Univ. John Moores Hertfordshire Oxford	A VLA survey of the VIDEO/XMM-LSS field	20	27	1.43
AH1122	Hyman, S. Cutchin, S. Kassim, N. Lazio, J.	Sweet Briar College NRL NRL JPL	Monitoring for radio transients in the galactic center with the low-band system	90	9,15	2.80
AH1123	Henkel, C. Braatz, J. Brunthaler, A. Condon, J. Greene, J. Impellizzeri, V. Lo, K. Reid, M.	MPIfR NRAO-CV MPIfR NRAO-CV Princeton NRAO-CV NRAO-CV CfA	Jets from H2O Disk-Megamaser Galaxies?	0.9	15,20,21,22, 24,29	7.95
AH1145	Horesh, A. Kulkarni, S.	Caltech Caltech	VLA Observations of a newly discovered swift tidal disruption event candidate	0.7,0.9,1, 3,2,3.6,6	27	2.93
A1174	Ibar, E. Bauer, F. Eales, S. Hardcastle, M. Heywood, I. Ivison, R. Jarvis, M. Leeuw, L. Thomson, A. van der Werf, P.	Chile SSI Univ. of Cardiff Hertfordshire Oxford Edinburgh Oxford NASA Edinburgh Leiden	VLA Survey of low-z H-ATLAS/GAMA galaxies	2,3,6,6,10	14,15,21,22	6.14
AJ387	Johnson, K. Bigiel, F. Brogan, C. Evans, A. Leroy, A. Walter, F. Whitmore, B.	UVA Heidelberg NRAO-CV NRAO-CV NRAO-Socorro MPIA STScI	Using the antennae galaxies as a laboratory to study extreme star formation	0.7	1,2,5,6,16,1 9	16.13
AJ389	Jarvis, M. Baker, A. Bond, J. Carvalho, C. Cress, C. Das, S. Dunkley, J. Hajian, A. Heywood, I. Hilton, M. Hughes, J. Lin, Y. Lindsay, S. McAlpine, K. Moodley, K. Myers, S. Newburgh, L. Oliver, S. Schmitt, B. Sherwin, B. Sievers, J. Switzer, E. White, S. Wollack, E.	Oxford New Jersey, Rutgers Toronto Lisbon Western Cape Calif., Berkeley Oxford Toronto Oxford Nottingham New Jersey., Rutgers ASIAA Hertfordshire Rhodes Univ. KwaZulu-Natal NRAO-Socorro Princeton Sussex Pennsylvania Princeton Princeton Toronto Oxford NASA	A deep-wide survey of the Strip 82 field and the bias of radio sources	20	7,8,9,10,11, 12,14,15,16, 18,19,23	50.82

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AK798	Klaassen, P. Johnston, K. Mottram, J. Peters, T. Zapta, L.	Leiden Obs. MPIA Leiden Obs. Univ. of Zurich UNAM	Accretion Dynamics and HII Regions	0.7	1	3.76
AK824	Kimball, A. Condon, J. Lacy, M. Lonsdale, C.	NRAO-CV NRAO-CV NRAO-CV NRAO-CV	Star formation and radio jet activity in the most luminous QSOs in the universe	3.6,10	27	1.00
AL831	Liu, H. Chou, M. Forbrich, J. Galvan-Madrid, R. Ho, P. Hora, J. Michihiro, T. Rodriguez, L. Sanchez, J. Yan, C. Zhang, Q.	CfA ASIAA CfA ESO CfA CfA ASIAA UNAM IAA ASIAA CfA	The Jet-Accretion	2,3.6	2,3	1.59
AL836	Lang, C. Brentjens, M. Law, C. Mao, S. Mills, E. Morris, M. Ott, J. Staguhn, J. Zweibel, E.	Iowa ASTRON Calif., Berkeley NRAO-Socorro Calif., Los Angeles Calif., Los Angeles NRAO-Socorro Maryland Wisc., Madison	The nature and origin of the galactic center radio arc: A VLA faraday Study	0.7,0.9,3.6,6,10	5	2.96
AL845	Liu, H. Chou, M. Forbrich, J. Galvan-Madrid, R. Ho, P. Hora, J. Michihiro, T. Rodriguez, L. Sanchez, J. Yan, C. Zhang, Q.	ASIAA ASIAA Univ. Wien ESO CfA CfA ASIAA UNAM ASIAA ASIAA CfA	The Jet-Accretion Connection in Young Stellar Objects	2,3.6	24,25,26,28	2.47
AL856	Liu, L. Gao, Y. Greve, T. Menten, K.	MPIfR Chinese Academy Denmark MPIfR	A JVLA perspective on Kennicutt-Schmidt law for main sequence galaxies at z~1.5	3.6	5,6,7,9,11,12,13,14,16,17,19,22	21.75
AL885	Law, C. Bower, G. Butler, B. Lazio, J. Mattmann, C. Rupen, M. Siemion, A. Spolaor, S. VanderWiel, S.	Calif., Berkeley Calif., Berkeley NRAO-Socorro JPL JPL NRAO-Socorro Calif., Berkeley JPL Los Alamos	Interferometric localization of cosmological millisecond transients	20	10,12,13,16,17,18,19,20,24,25,26	26.06
AM1189	Middleton, M. Carpenter, J. Dickinson, H. Fender, R. Gandhi, P. Gehrels, N. Haberl, F. Henze, M. Hurley-Walker, N. Markoff, S. Miller-Jones, J. Roberts, T. Scaife, A. Walton, D.	Durham Caltech Stockholm Southampton JAXA NASA MPE MPE Cavendish van Amsterdam Curtin Durham Southampton Caltech	Observing extragalactic binaries to reveal the nature of eddington accretion	1.3,6	3	3.70
AM1190	Miller, N. Mushotzky, R. Nguyen, K. Vogel, S.	Maryland Maryland Maryland Maryland	The Origin of Far-Infrared Radiation in AGN	1.3	3	2.06

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Prog#	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AM1199	Menten, K. Beuther, H. Brunthaler, A. Carrasco-Gonzalez, C Claussen, M. Csengeri, T. Hogner, P. Ott, J. Pandian, J. Reid, M. Urquhart, J. Wyrowski, F.	MPIfR MPIA MPIfR MPIfR NRAO-Socorro MPIfR NRAO-Socorro NRAO-Socorro Hawaii., Manoa CfA ATNF MPIfR	A comprehensive galactic plane radio wavelength star formation survey	6	29	5.48
AM1204	Mao, S. Gallagher III, J. Kepley, A. Robishaw, T. Stanimirovic, S. Zweibel, E.	Wisc., Madison Wisc., Madison UVa NRCC Wisc., Madison Wisc., Madison	Mapping the Magnetic Field Structure in the Interacting Antennae Galaxies	6,10	7,8,9,14,15, 21	18.82
AM1228	Mangum, J. Darling, J. Henkel, C. Menten, K. Smullen, R.	NRAO-CV Colo., Boulder MPIfR MPIfR Wyoming	Imaging the spatial density within NGC253 and NGC3079	6	28	4.94
AM1235	Muxlow, T. Beswick, R. Bondi, M. Garrington, S. Guidetti, D. Ivison, R. Owen, F. Prandoni, I. Richards, A. Smail, I. Wrigley, N.	Jodrell Bank Jodrell Bank INAF Jodrell Bank INAF Edinburgh NRAO-Socorro INAF Jodrell Bank Durham Jodrell Bank	Star-Formation & AGN activity at high-z-deep JVLA & e-MERLIN study of GOODS-N	6	27	2.45
AM1237	Monnier, J. Danchi, W. Greenhill, L. Tuthill, P.	Mich., Ann Arbor NASA CfA Sydney	Orbital period and the fundamental parameters of colliding wind WR 112	3.6	20	1.00
AM1239	Mutel, R. Abuhl, E. Guedel, M. Hallinan, G. Lynch, C.	Iowa Iowa Univ. of Vienna Caltech Iowa	A search for thermal gyrosynchrotron emission from hot stellar coronae	0.7,0.9,1, 3,2	19,29	3.86
AM1241	Gonzalez, C. Ramirez-Ruiz, E. Rodriguez, L.	MPIfR California UNAM	Testing particle shock acceleraton in the wind-collison region of WR 147	0.7,0.9,1, 3,2,	30	1.97
AM1248	Masque, J. Anglada, G. Estalella, R. Girart, J. Osorio, M. Rodriguez, L.	Barcelona IAA Barcelona Barcelona IAA UNAM	Measuring the proper motions of the Herbig-Haro objects HH 80N, HH 80 and HH 81	2,3.6,6	6	0.74
AQ294	O'Sullivan, S. Banfield, J. Emonts, B.	Sydney CSIRO CSIRO	Radio source morphology: 'nature' or 'nurture'?	10,20	27	2.23
AQ296	Osorio, M. Anglada, G. Carrasco-Gonzalez, C Francisco, J. Marcia, E. Torrelles, J.	IAA IAA MPIfR IAA IAA IEEC	Substructure in the 7mm emission of the protoplanetary disk of HD 169142	0.7	28	2.91
AP625	Popping, A. Abraham, R. Cooper, E. Damjanov, I. Glazebrook, K. Green, A. McGregor, P. Obreschkow, D. Wilson, C. Wisnioski, E.	ICRAR Toronto Texas., Austin CfA Swinburne AAO AAO Washington McMaster Univ. MPIE	Local Turbulent Disks: analogs of high-redshift vigorously star-forming disks	20	1	2.77

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AP627	Popping, A. Delhaize, J. Driver, S. Meyer, M. Meyer, S. Staveley-Smith, L.	ICRAR Western Australia Western Australia Western Australia Western Australia Western Australia	The evolution of Neutral hydrogen: measuring Omega-HI out to redshift z~0.4	20	2	1.78
AP635	Popping, A. Delhaize, J. Driver, S. Meyer, M. Meyer, S. Robotham, A. Staveley-Smith, L.	Western Australia Western Australia Western Australia Western Australia Western Australia Western Australia Western Australia	The Evoluton of Neutral Hydrogen: Measuring Omega-HI out to redshift z~0.4	20	11,12,14,15	11.22
AP641	Perez, L. Carpenter, J. Chandler, C. Isella, A.	NRAO-Socorro Caltech NRAO-Socorro Caltech	Asymmetries and rings: Dust Trapping in transitional disks	0.7,3.6	7,9,28	9.53
AR815	Richards, E. Barnes, K. Dale, D. Staudaher, S. van Zee, L.	Indiana Indiana Wyoming Wyoming Indiana	Baryonic Distributions in Dark Matter Halos	20	2	1.79
AR832	Riechers, D. Bradford, C. Chapman, S. Clements, D. Conley, A. Cooray, A. Dowell, D. Fu, H. Iverson, R. Omont, A. Perez-Founon, I. Wardlow, J.	Cornell JPL Cambridge Imperial Colo., Boulder Calif., Irvine Caltech Caltech Edinburgh Obs. de Paris IAC Calif., Irvine	Detailed Molecular gas properties of the most distant massive starburst galaxy	0.9	17	3.92
AR841	Rujopakarn, W. Clement, B. Dessauges-Zavadsky, Egami, E. Iverson, R. Marrone, D. Narayanan, D. Richard, J. Rieke, G. Walth, G. Wang, R. Weiner, B.	Arizona Arizona Obs. de Geneve Arizona Edinburgh NRAO-CV Steward Obs. CRAL Arizona Arizona NRAO-CV Steward Obs.	Probing the star formation law with lensed star-forming galaxies at z=1.9-4.7	0.7,0.9,1.3	5,8,9,21	8.64
AR842	Fender, R. Bower, G. Falcke, H. Ponti, G. Rushton, A.	Southampton Calif., Berkeley Nijmegen MPE Southampton	Simultaneous radio and x-ray monitoring of the G2encounter with Sgr A*	1.3,2,3.6,6,10,20	22	6.81
AS1172	Stockdale, C. Lien, A. Marcaide, J. Panagia, N. Pooley, D. Ryder, S. Sramek, R. Van Dyk, S. Weiler, K. Williams, C.	Marquette Univ. NASA Univ. of Valencia STScI Eureka AAO NRAO-CV Caltech NRL MIT	ToO Observations of Core Collapse Supernovae (TypeII)	1.3,2,3.6,6,10	10,19	2.39
AS1190	Sjouwerman, L. Pihlstrom, Y.	NRAO-Socorro UNM	25 GHz Class I methanol in the Galactic Center	1.3	3	2.75
AS1197	Stanimirovic, S. Begum, A. Dickey, J. Goss, M. Heiles, C. Hennebelle, P. Murray, C.	Wisc., Madison Wisc., Madison Univ. of Tasmania NRAO-Socorro Calif., Berkeley Obs. De Paris Wisc., Madison	21-SPONGE: 21-cm Spectral line Observations of Neutral Gas with the EVLA	20	26	1.82



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Progn	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS1214	Soliloski, J. Bode, M. Chomiuk, L. Eyres, S. Krauss, M. Mioduszewski, A. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Weston, J. Williams, B.	Columbia John Moores Cfa Central Lancashire NRAO-Socorro NRAO-Socorro Minnesota Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia STSci	The E-Nova Project: Early Radio Light Curves for a Diverse Sample of Novae	0.9,1.3,3.6,2,6	5,8,12,27,29	8.79
AS1226	Sajina, A. Bustamante, A. Lacy, M.	Tufts Univ. Tufts Univ. NRAO-CV	Constraining radio jet-driven feedback in young, dusty $z \sim 0.3-0.7$ quasars	3.6,10	27	1.00
AS1227	Sheth, K. Balser, D. Fathi, K. Goss, M. Kepley, A. Kohn, K. Lundgren, A. Mateos, J. Meyer, J. Regan, M. Roshi, D. Schinnerer, E. Scott, K. Vogel, S. Wikilind, T.	NRAO-CV NRAO-CV Stockholm NRAO-Socorro NRAO-CV Tokyo ESO NRAO-CV NY., Stony Brook STSci NRAO-CV MPIA NRAO-CV Maryland NRAO-Chile	Unveiling the star formation in the bar of NGC 1097	0.9,6,20	16,21,23	7.72
AS1234	Scudder, J. Ellison, S. Momjian, E. Rosenberg, J.	Univ. of Victoria Univ. of Victoria NRAO-Socorro George Mason Univ.	Gas flows in interacting galaxies: what governs star formation triggering?	20	2	0.45
AS1273	Sjouwerman, L. Pihlstrom, Y.	NRAO-Socorro UNM	Reconfirmation of the methanol maser in M31 for VLBI measurements	6	13	1.99
AT432	Tarchi, A. Brunthaler, A. Castangia, P. Castangia, P. Darling, J. Henkel, C. Pawlowski, M.	INAF MPIFR INAF INAF Colo., Boulder MPIFR Bonn	The puzzling local group dwarfs planes: proper motion of N6822 via H <sub>2</sub> O masers	1.3	22,25,27,28	4.91
AT434	Tarchi, A. Braatz, J. Castangia, P. Panessa, F.	INAF NRAO-CV INAF INAF	Water maser and narrow line seyfert 1's: the case of IGr 16385	1.3,3.6,20	29	0.49
AT436	Tobin, J. Chandler, C. Dunahm, M. Kratte, K. Li, Z. Looney, L. Melis, C. Perez, L. Sadavoy, S. Segura-Cox, D.	NRAO-CV NRAO-Socorro Yale Colorado Uva Urbana-Champaign Calif., San Diego NRAO-Socorro Univ. of Victoria Urbana-Champaign	Characterizing binary and Disk formation in young protostellar systems	0.9,6	28,29	6.95
AV350	van Weeren, R. Bruggen, M. Forman, E. Intema, H. Jones, C. Kraft, R. Ogrean, G. Rottgering, H. Rudnick, L. Stroe, A.	Cfa Jacobs Univ. Cfa NRAO-Socorro Cfa Cfa Hamburg Leiden Minnesota Leiden	Shock and Awe: Deep JVLA Observations of the 'Sausage Cluster'	10,20	2	5.32

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AW836	Wang, R. Bertoldi, F. Carilli, C. Cox, P. Fan, X. Jiang, L. Menten, K. Narayanan, D. Omont, A. Riechers, D. Strauss, M. Wagg, J. Walter, F.	NRAO-CV Bonn NRAO-Socorro IRAM Arizona Arizona MPIfR Steward Obs. Obs. de Paris Cornell Princeton ESO MPIA	Molecular gas in the starburst quasar host galaxies at redshift 6	0.9	1	2.39
AW856	Williams, P. Berger, E. Gizis, J.	CfA CfA Delaware	Linking the magnetic field and photosphere of the first kepler L dwarf	6	27	0.73
AW857	Williams, P. Berger, E. Zauderer, B.	CfA CfA CfA	Decoding the radio emission mechanism of ultracool dwarfs with broadband spectra	1.3,3.6,6,20	13,18,23,24,25,26	6.64
AW859	Williams, P. Berger, E. Zauderer, B.	CfA CfA CfA	Magnetism from stars to planets: a jansky VLA survey of late-l and t dwarfs	6	6,7,8,9,12,22	16.86
AW861	Williams, P. Berger, E.	CfA CfA	Determining the variability and spectrum of the coolest radio active brown dwarf	3.6,6	8	2.84
AW864	Wilcots, E. Nielsen, D. Zweibel, E.	Wisc., Madison Wisc., Madison Wisc., Madison	Do galaxy groups host large scale magnetic fields?	20	20,21,22	4.71
AX004	Xue, R. Bolatto, A. Wong, T.	Urbana-Champaign Maryland Urbana-Champaign	High-resolution HI mapping to complement the CARMA STING survey	20	5,6	3.80
BB337	Bower, G. Brunthaler, A. Deller, A. Demorest, P. Eatough, R. Falcke, H.	Calif., Berkeley MPIfR NFRL NRAO-CV MPIfR Nijmegen	Proper Motion of the Galactic center soft gamma-ray repeater 1745-29	2	20	6.08
BS228	Strader, J. Briskin, W. Chomiuk, L. Deller, A. Maccarone, T. Miller-Jones, J. Seth, A.	Michiagan NRAO-Socorro Michigan ASTRON Southampton Curtin Univ. CfA	Proper Motion in confirmation of Black holes in globular cluster	6	6,9	7.65
GS032	Savolainen, T. Anderson, J. Giovannini, G. Hada, K. Kovalev, Y. Krichbaum, T. Lee, S. Lobanov, A. Orienti, M. Sohn, B. Tingay, S.	MPIfR MPIfR INAF INAF Lebedev Inst. MPIfR Korea MPIfR INAF KASI Curtin Univ.	The nuclear structure in nearby AGN at very high resolution with radio astron	.3,6,18	21,22	7.51
S50386	Cenko, S. Bloom, J. Chandra, P. Filippeko, A. Frail, D. Harrison, F. Kulkarni, S. Perley, D. Prochaska, J. Rana, V.	Calif., Berkeley Calif., Berkeley RMCC Calif., Berkeley NRAO-Socorro Caltech Caltech Caltech Calif., Santa Cruz Caltech	Afterglows, redshifts, and calorimetry of fermi gamma-ray bursts blazars	20	2	1.85
SE0824	Haggard, D. Heinke, C. Roberts, D. Yusef-Zadeh, F.	Northwestern Univ. Univ. of Alberta Northwestern Univ. Northwestern Univ.	Joint Chandra/XMM/EVLA Monitoring of the gas cloud G2 as it Encounters Sgr A*	20	13	6.92

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Progrm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
SF858	Jones, C. Bonafede, A. Churazov, E. Donahue, M. Goulding, A. Laurence, D. Merten, J. Mroczkowski, T. Murray, S. Nulsen, P. Roediger, E. Rosati, P. Umetsu, K. van Weeren, R. Vikhlinin, A. Zitrin, A.	CfA Hamburg MPIA Michigan CfA CfA Caltech Caltech Johns Hopkins CfA Hamburg ESO ASIAA CfA CfA Heidelberg	Clusters, Galaxies, and AGN in HST Frontier Fields	20	30	5.98

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	Actual Hours	Percentage
Astronomy	447.69	64.22
Unscheduled	11.63	1.67
Maintenance	36.78	5.28
Test/Calc	200.97	28.83
Weather	0.00	0.00
Power out	0.00	0.000
Holiday Shutdown	0.00	0.00
<b>Total</b>	<b>697.01</b>	<b>100.00</b>

Average downtime measured in antenna hours was 4.87% of scheduled antenna hours, distributed as:

System	Percentage
Correlator	0.34
Cryogenics	5.55
Electrical	4.21
Fiber Optics	4.32
Focus/Rotation	0.27
Front End	29.80
LO/IF	19.91
Mechanical	1.68
Monitor/Control	1.25
Other	4.35
Recommissioning	3.05
Servo	15.81
Site Power	0.66
VLBA Recorders	1.18
Weather	7.62
<b>Total</b>	<b>100.00</b>

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA355	Akahori, T. Anaraku, K. Nakanishi, H. Onodera, S. Ozawa, T. Sofue, Y. Tsuda, T.	Korea Kagoshima Kagoshima Univ. Meisei Univ. Meisei-Univ. Tokyo Meisei Univ.	RM Observations of 6 Galaxy Clusters for Probing IGMF Turbulence Amplification	3.6,6,10	15,17,18,19, 20,21,22,24, 25,26,29,31	39.23
AA362	Anglada, G. Carrasco-Gonzalez, C. Duran-Rojas, M. Rodriguez, L.	IAA MPIFR IAA UNAM	The driving source of the HH 30 jet	0.7,1.3	4,17	2.94
AB1448	Blomme, R. Naze, Y. Prinja, R. Rauw, G. Volpi, D.	Obs. de Belgique Univ. de Liege London Univ. de Liege Obs. de Belgique	The Colliding winds of the massive early-type binary 9 Sgr	3.6,6,20	15	0.49
AB1456	Babul, A. Basu, K. Bertoldi, F. Bonafede, A. Bruggen, M. Dolag, K. Klein, U. Nagarajan, A. Sommer, M.	Univ. of Victoria Bonn Bonn Jacobs Univ. Jacobs Univ. MPA Bonn Bonn Bonn Bonn	A census of radio haloes in Planck-SZ selected galaxy clusters	20	1,16,17,23,2 4	4.11
AB1463	Bastain, T. Chen, B. Gary, D. White, S.	NRAO-CV UVA New Jersey USAF	Dynamic imaging spectroscopy of coherent solar radio bursts II	10,20	13,19	7.47
AB1464	Broekhoven-Fiene, H. Bourke, T. Di Francesco, J. Duchene, G. Fallscheer, C. Mann, R. Matthews, B.	Univ. of Victoria CfA Herzberg Inst. Calif., Berkeley MPIA Herzberg Ins.t Herzberg Inst.	Characterizing the disk population in the Auriga GMC	1.3	2,4,6,7,8,13 ,14,16,17,18 ,19,20,21,22 ,23,26	42.59
AB1480	Berger, E. Chakraborti, S. Chornock, R. Fong, W. Laskar, T. Margutti, R. Menten, K. Metzger, B. Nakar, E. Sari, R. Soderberg, A. Zauderer, B.	CfA CfA CfA CfA CfA CfA MPIFR Princeton Tel Aviv Univ. Hebrew Univ. CfA CfA	New Insights on Gamma-Ray Bursts with the JVLA-Extension of 13A-046	1.3,6	2,23,26	3.63
AC1089	Chandra, P. Chevalier, R. Chugai, N. Fransson, C. Soderberg, A.	RMCC UVA Moscow Stockholm CfA	Exploring the mysterious Type II in supernovae with the EVLA	1.3	7,10	1.74
AC1134	Chomiuk, L. Bode, M. Eyres, S. Krauss, M. Mioduszewski, A. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Sokoloski, J. Weston, J. Williams, B.	CfA John Moores Central Lancashire NRAO-Socorro NRAO-Socorro Minnesota Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia Columbia STScI	The E-Nova Project: Explosion Dynamics Traced in Detail by the VLA	0.9,2,6,20	22,24,26,30	8.47

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AC1136	Chakrabarti, S. Bigiel, F. Blitz, L. Bolton, A. Chang, P. de Blok, E. Doozan, B. Fassnacht, C. Gallagher III, J. Hugg, E. Mandelbaum, R. Subrahmanyan, R. Wright, M.	Florida Heidelberg Calif., Berkeley Utah Milwaukee NFRL Florida Calif., Davis Wisc., Madison Calif., Berkeley Carnegie Mellon NRAO-CV Calif., Berkeley	A New Probe of Dark Matter in Spiral Galaxies	20	5,9,10,11,22 ,27,29,31	27.68
AG896	Guedel, M. Fichtinger, B. Gayley, K. Hallinan, G. Hanslmeier, A. Khodachenko, M. Lammer, H. Leitzinger, M. Lynch, C. Mutel, R. Odert, P. Ribas, I. Skinner, S. Zagarashvilli, T.	Univ. of Vienna Karl Franzens Iowa Caltech Univ. of Graz AAS Austrian Academy Karl Franzens Iowa Iowa Univ. of Graz CSIC Colo., Boulder AAS	The Radio Sun in Time and the Faint Young Sun Paradox	2,6	1,11	4.92
AG898	Gomez, A. Cotton, W. Menten, K. Wyrowski, F.	MPiFR NRAO-CV MPiFR MPiFR	Polarization observations of class I methanol masers	0.7	7,9	2.69
AH1091	Hezareh, T. Brunthaler, A. Csengeri, T. Menten, K. Tassis, K. Wiesemeyer, H.	MPiFR MPiFR MPiFR MPiFR MPiFR MPiFR	Measurement of the Zeeman effect in OH absorption lines towards DR21	20	5,25	3.88
AH1092	Hallenbeck, G. Giovannelli, R. Haynes, M. Huang, S. Papastergis, E.	Cornell Cornell Cornell Cornell Cornell	Gas-Bearing Red Dwarf Ellipticals in Virgo: Re-accretion from the Cosmic Web?	20	5,9,10	2.88
AH1093	Heesen, V. Brinks, E. Hunter, D. Rao Venkata, U. Rupen, M.	HERfordshire Hertfordshire Lowell Obs. NRAO-Socorro NRAO-Socorro	Star Formation and magnetic fields in dwarf galaxies	3.6,6,20	6,7,8,9,10,11,12,20,22	11.68
AH1095	Hallinan, G. Bourke, S. Burgasser, A. Kao, M.	Caltech Caltech Calif., San Diego Caltech	Bridging the Gap: Detecting the magnetic fields of the coolest brown dwarfs	6	30	3.84
AH1097	Hallinan, G. Bourke, S. Rupen, M. Villadsen, J.	Caltech Caltech NRAO-Socorro Caltech	Capturing sweeping radio bursts from nearby active stars	10,20	24	2.08
AH1104	Hallinan, G. Bourke, S. Villadsen, J.	Caltech Caltech Caltech	The Thermal Atmospheres of Nearby solar-type Stars	2,3.6	16	2.49
AH1107	Hoshesh, A. Bourke, S. Hallinan, G. Kulkarni, S. Mooley, K.	Caltech Caltech Caltech Caltech Caltech	Radio Observations of a Recent Tidal-Disruption-Event Candidate	0.9,2,3.6, 1.3,6,10,20	29	1.47
AI167	Ivison, R. George, R. Impellizzeri, V. Riechers, D.	Edinburgh Edinburgh NRAO-CV Cornell	Water megamasers in a unique sample of FIR-bright, lensed SMGs	3.6,6	10,16	4.86
AJ387	Johnson, K. Bigiel, F. Brogan, C. Evans, A. Leroy, A. Walter, F. Whitmore, B.	UVA Heidelberg NRAO-CV NRAO-CV NRAO-Socorro MPIA STScI	Using the Antennae Galaxies as a Laboratory to study extreme star formation	0.7	1,2,8,10,11, 17,22,23,24, 27,29,30,31	26.57

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AK798	Klaassen, P. Johnston, K. Mottram, J. Peters, T. Zapta, L.	Leiden Obs. MPIA Leiden Obs. Univ. of Zurich UNAM	Accretion Dynamics and HII Regions	0.7	1	3.84
AK803	Kanekar, N. Carilli, C. Menten, K.	TIFR NRAO-Socorro MPIFR	A blind Ka-and Q-band survey for molecular absorption at high redshift	0.7	17	2.93
AK806	King, A. Dhawan, V. Miller, J.	Mich., Ann Arbor NRAO-Socorro Mich., Ann Arbor	The Diesk-Wind-Jet Connection in the Stellar Mass Black Hole IGR J17091-3624	6	5	1.00
AK808	Kurtz, S. Alakoz, A. Bayandina, O. Kalensky, S. Larionov, G. Val'tts, I.	UNAM Lebedev Inst. Lebedev Inst. Lebedev Inst. Lebedev Inst. Lebedev Inst.	A new Class of Hydroxyl Masers?	20	1,8,11,12,13 ,15,17,18,20 ,21,23,24,31	15.39
AL832	Leroy, A. Beck, R. Bolatto, A. Braun, R. Chomiuk, L. Dalcanton, J. de Blok, E. Giessuebel, R. Johnson, M. Kepley, A. Krumholz, M. Lee, C. Mao, S. Meyer, J. Murphy, E. Pisano, D.J. Rosolowsky, E. Rupen, M. Sandstrom, K. Schruba, A. Skillman, E. Walter, F. Weisz, D.	NRAO-Socorro MPIFR Maryland ATNF CfA Washington NFRL MPIFR NRAO-CV UVA Calif., Santa Cruz UVA NRAO-Socorro NY., Stony Brook Carnegie Inst. West Virginia British Columbia NRAO-Socorro MPIA Caltech Minnesota MPIA Washington	The L-Band Local Group Legacy: Resolving the ISM and Star Formation Cycle	20	2,3	6.72
AM1179	Mundell, C. Moore, T.	John Moores John Moores	Triggering and Regulation of Extragalactic Star Formation	1.3,2,20	13	1.88
AM1183	Murgia, M. Brown, S. Carretti, E. Feretti, L. Giovannini, G. Govoni, F. Vacca, V.	INAF CSIRO CSIRO INAF INAF INAF INAF	Single-dish and interferometric imaging of radio halos in galaxy clusters	20	1	1.92
AM1189	Middleton, M. Carpenter, J. Dickinson, H. Fender, R. Gandhi, P. Gehrels, N. Haberl, F. Henze, M. Hurley-Walker, N. Markoff, S. Miller-Jones, J. Roberts, T. Scaife, A. Walton, D.	Durham Caltech Stockholm Southampton JAXA NASA MPE MPE Cavendish van Amsterdam Curtin Durham Southampton Caltech	Observing extragalactic binaries to reveal the nature of eddington accretion	1.3,6	26,27,28,31	8.66
AM1193	MacGregor, M. Andrews, S. Hughes, M. Matthews, B. Ricci, L. Wilner, D.	CfA CfA Calif., Berkeley Herzberg Caltech CfA	Testing Collisional models of planetesimals in the AU Mic Debris Disk	0.9	28	1.68
AM1200	Myers, S.	NRAO-Socorro	A 6GHz Pilot Synoptic Survey of the COSMOS Field	6	24	0.97

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AM1203	Mauersberger, R. Blair, S. Henkel, C. Impellizzeri, V. Mangum, J.	ESO Calif., Berkeley MPIFR NRAO-CV NRAO-CV	An extragalactic NH <sub>3</sub> (J, K)=(6,6) maser toward IC342 West?	1.3	17,18,19	1.3
AN162	Neff, S. Cotton, W. Eilek, J. Intema, H. Owen, F.	NASA NRAO-Socorro NRAO-Socorro NRAO-Socorro NRAO-Socorro	Exploratory Wideband 327MHz Observations of Centaurus A	90	17,25,31	8.81
A0292	Ott, J. Brunthaler, A. Impellizzeri, V. Meier, D. Yusef-Zadeh, F.	NRAO-Socorro MPIFR NRAO-CV NMT Northwestern	Water Masers in the Central Molecular Zone	1.3	23	2.40
A0298	Keel, W. Mao, M. Owen, F. Saripalli, L.	Tuscaloosa NRAO-Socorro NRAO-Socorro RRI	Two Unusual Ledlow Galaxies for Lowband	90	3,15	6.84
AP625	Popping, A. Abraham, R. Cooper, E. Damjanov, I. Glazebrook, K. Green, A. McGregor, P. Obreschkow, D. Wilson, C. Wisnioski, E.	ICRAR Toronto Texas., Austin CfA Swinburne AAO AAO Washington McMaster MPIA	Local Turbulent Disks: analogs of high-redshift vigorously star-forming disks	20	5,7,10,11,13 ,14,25	20.27
AP627	Popping, A. Delhaize, J. Driver, S. Meyer, M. Meyer, S. Staveley-Smith, L.	ICRAR Western Australia Western Australia Western Australia Western Australia Western Australia	The Evolution of Neutral hydrogen: measuring Omega-HI out to redshift z~0.4	20	2,3,4,7,11,1 3,15,16,18,1 9,20,23,24,2 5,26,29	37.61
AP655	Powell, D. Ho, A. Mangum, J. Mioduszewski, A. Mohamed, Z.	CfA MIT NRAO-CV NRAO-Socorro Case Western Univ.	Detailed Magnetic Field Mapping of 3C 58	3.6	29,30	7.80
AR815	Richards, E. van Zee, L.	Indiana Indiana	Baryonic Distributions in Dark Matter Halos	20	4,5,6,7,8,10 ,13,14,24	29.79
AR842	Rushton, A. Bower, G. Falcke, H. Fender, R. Ponti, G.	Southampton Calif., Berkeley Nijmegen Southampton MPE	Simultaneous radio and X-ray monitoring of the G2 encounter with Sgr A*	6,10,20	30	7.81
AR872	Rujopakarn, W. Jagannathan, P. Nyland, K. Owen, F. Rieke, G.	Arizona NRAO-CV NRAO-Socorro NRAO-Socorro Arizona	Augmenting an Ultradeep, High-resolution Galaxies Survey with Compact Baselines	6	24	3.99
AS1163	Smolcic, V. Banfield, J. Bondi, M. Capak, P. Carilli, C. Cilegi, P. Karim, A. Kloekner, H. Murphy, E. Sargent, M. Schinnerer, E. Scoville, N. Sheth, K. Zamorani, G.	ESO CSIRO INAF Caltech NRAO-Socorro INAF MPIA Oxford Carnegie Inst. CEA MPIA Caltech NRAO-CV INAF	Deep 3GHz EVLA-COSMOS Survey: Confining Stellar Mass Growth through Cosmic Times	10	4,6,9,11,13, 16,17,18,24	33.88



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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS1172	Stockdale, C. Lien, A. Marcaide, J. Panagia, N. Pooley, D. Ryder, S. Sramek, R. Van Dyk, S. Weiler, K. Williams, C.	Marquette Univ. NASA Univ. of Valencia STSci Eureka AAO NRAO-CV Caltech NRL MIT	ToO Observations of Core Collapse Supernovae (TypeII)	1.3,2,3,6, 6,10	20,21	2.52
AS1190	Sjouwerman, L. Pihlstrom, Y.	NRAO-Socorro UNM	25 GHz Class I methanol in the Galactic Center	1.3	21	2.95
AS1208	Soderberg, A. Bartel, N. Bietenholz, M. Brunthaler, A. Chakraborti, S. Chevalier, R. Chomiuk, L. Dittmann, J. Fransson, C. Hamuy, M. Katz, B. Levesque, E. MacFadyen, A. Mazzali, P. Nakar, E. Pain, E. Pignata, G. Ray, A.	CfA York Univ. HarTRAO MPIfR TIFR UVa CfA CfA Stockholm Chile IAS Hawaii., Manoa New York MPA Tel Aviv INA Chile TIFR	The Diversity of SNe IBC and the Nature of the GRB-SN Connection	1.3,3.6,6, 20	11	1.95
AS1209	Sarazin, C. Clarke, T. Farnsworth, D. Hogge, T. Rudnick, L. van Weeren, R. Wik, D.	UVa NRL Minnesota UVa Minnesota CfA NASA	Is the Diffuse Radio Source in Abell 2061 a USS Cluster Halo, Relic, or Hybrid?	20	3	3.84
AS1214	Sokoloski, J. Weston, J. Bode, M. Chomiuk, L. Eyles, S. Krauss, M. Mioduszewski, A. O'Brien, T. Roy, N. Rupen, M. Williams, B.	Columbia Columbia John Moores CfA Central Lancashire NRAO-Socorro NRAO-Socorro Jodrell Bank NRAO-Socorro NRAO-Socorro STSci	The E-Nove Project: Early Radio Light Curves for a Diverse Sample of Novae	0.9,1.3,2, 6	16,22,23,27	7.80
AS1234	Scudder, J. Ellison, S. Momjian, E. Rosenberg, J.	Victoria Victoria NRAO-Socorro George Mason	Gas flows in interacting galaxies: what governs star formation triggering?	20	6,9,10,12,13 ,18,19,27	4.52
AW836	Wang, R. Bertoldi, F. Carilli, C. Cox, P. Fan, X. Jiang, L. Menten, K. Narayanan, D. Omont, A. Riechers, D. Strauss, M. Wagg, J. Walker, F.	NRAO-CV Bonn NRAO-Socorro IRAM Arizona Arizona MPIfR Steward Obs. Obs. de Paris Cornell Princeton ESO MPIA	Molecular gas in the starburst quasar host halaxies at reshift 6	0.9	1,2,3,4,5,6, 18	16.70
AW840	Wang, J. Gu, Q. Zhang, Z. Zhu, Q.	Nanjing Nanjing MPIfR China	Looking into heavily obscured AGN with RRLs using VLA	0.9	19,28	6.87
AW848	White, S.	USAF	Radio measurments of coronal magnetic fields	10	3	6.28
BC215	cenko, B. Bower, G. Frail, D. Perley, D.	NASA Calif., Berkeley NRAO-Socorro Caltech	Resolving the relativistic outflow from the nearby GRB 130702A	6	16	1.00

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
S50386	Cenko, S. Bloom, J. Chandra, P. Filippeko, A. Frail, D. Harrison, F. Kulkarni, S. Perley, D. Prochaska, J. Rana, V.	Calif., Berkeley Calif., Berkeley RMCC Calif., Berkeley NRAO-Socorro Caltech Caltech Caltech Calif., Santa Cruz Caltech	Afterglows, redshifts, and calorimetry of fermi gamma-ray bursts blazars	20	31	1.44
SEOB24	Haggard, D. Heinke, C. Roberts, D. Yusef-Zadeh, F.	Northwestern Univ. Univ. of Alberta Northwestern Univ. Northwestern Univ.	Joint Chandra/XMM/EVLA/Monitoring of the Gas Cloud G2 as it Encounters Sgr A*	20	12	6.97

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	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	477.29	65.43
Unscheduled	31.89	4.37
Maintenance	40.47	5.55
Test/Calc	179.84	24.65
Weather	0.00	0.00
Power out	0.00	0.000
Holiday Shutdown	0.00	0.00
<b>Total</b>	<b>729.49</b>	<b>100.00</b>

Average downtime measured in antenna hours was 2.95% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Cryogenics	15.61
Fiber Optics	3.18
Focus/Rotation	10.13
Front End	48.92
HVAC	0.09
LO/IF	3.70
Monitor/Control	2.32
Other	2.95
Servo	0.73
Site Power	1.90
Software	3.68
Weather	1.37
<b>Total</b>	<b>100.00</b>

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File

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AB1147	Beuther, H. Anderson, L. Bigiel, F. Bihr, S. Brunthaler, A. Carloff, P. Churchwell, E. Glover, S. Goldsmith, P. Goodman, A. Heitsch, F. Henning, T. Heyer, M. Hoare, M. Hughes, A. Johnston, K. Kainulainen, J. Kerp, J. Klessen, R. Linz, H. Longmore, S. McClure-Griffiths, N Menten, K. Motte, F. Nguyen-Luong, Q. Ott, J. Plume, R. Schike, P. Schuller, F. Shetty, R. Stil, J. Tackenberg, J. Troland, T. Walsh, A. Walter, F. Wyrowski, F.	MPIA West Virginia Heidelberg MPIA MPIFR Univ. Koin Wisc., madison Heidelberg JPL CfA North Carolina MPIA Mass., Amherst Univ. of Leeds. MPIA MPIA MPIA Bonn Heidelberg MPIA ESO CSIRO MPIFR CEA CEA NRAO-Socorro Calgary Univ. of Cologne MPIFR Heidelberg Calgary MPIA Kentucky James Cook Univ. MPIA MPIFR	The HI/OH/Recombination line survey of the Milky Way (THOR)	20	1,3,7,9,11,14,15,16,17,18,19,20,21,29	65.19
AB1443	Berger, E. Chakraborti, S. Chornock, R. Fong, W. Laskar, T. Margutti, R. Menten, K. Metzger, B. Nakar, E. Sari, R. Soderberg, A. Zauderer, B.	CfA TIFR CfA CfA CfA MPIFR Princeton Tel Aviv Univ. Hebrew Univ. CfA CfA	New insights on Gamma-Ray Bursts with the JVLA	1.3,6	5,6,10,18,21	7.94
AB1448	Bloome, R. Naze, Y. Pringa, R. Rauw, G. Volpi, D.	Obs. de Blegique Univ. de Liege London Univ. de Liege Obs. de Belgique	The Colliding Winds of the Massive Early-Type Binary 9 Sgr	3.6,6,20	23	0.49
AB1456	Babul, A. Basu, K. Bertoldi, F. Bonafede, A. Bruggen, M. Dolag, K. Klein, U. Nagarajan, A. Sommer, M.	Univ. of Victoria Bonn Bonn Jacobs Univ. Jacobs Univ. MPA Bonn Bonn Bonn	A census of radio haloes in Planck-SZ selected galaxy clusters	20	1,4,5,15,17,19,20,24,25,26,28,31	11.11
AB1464	Broekhoven-Fiene, H. Bourke, T. Di Francesco, J. Duchene, G. Fallscheer, C. Mann, R. Matthews, B.	Univ. of Victoria CfA Herzberg Inst. Calif., Berkeley MPIA Herzberg Inst. Herzberg Inst.	Characterizing the disk population in the Auriga GMC	1.3	8,28,31	7.51
AC1089	Chandra, P. Chevalier, R. Chugai, N. Fransson, C. Soderberg, A.	RMCC UVA Moscow Stockholm CfA	Exploring the mysterious Type IIIn supernovae with the EVLA	1.3	6,18,22,25	3.46

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AC1098	Corsi, A. Frail, D. Gal-Yam, A. Kulkarni, S. Mazzali, P. Ofek, E.	Caltech NRAO-Socorro Weizmann Inst. Caltech MPA Caltech	Radio follow-up of "exotic" Ic SNe discovered by PTF	2,6,10	26	1.97
AC1113	Cesaroni, R. Beltran, M. Busquet, G. Elia, D. Molinari, S. Moscadelli, L. Otmí, L. Pestalozzi, M. Sanchez-Monge, A. Schisano, E. Testi, L.	INAF INAF INAF INAF INAF INAF INAF INAF INAF ESO	A quest for high-mass star formation in two families of molecular clumps	1.3,6	4,6,8	4.68
AC1122	Choi, M. Kang, M.	Korea Inst. Korea Inst.	Is NGC 2024 FIR 6c the Nearest Hypercompact H II Region?	0.7,0.9	25	0.97
AC1127	Charness, C. Corby, J. Loomis, R. McGuire, B. Pulliam, R. Remijan, A.	UVA UVA UVA Caltech NRAO-CV NRAO-CV	Mapping a new astronomical maser towards SgrB2(n)-LMH	6	10,19	2.94
AC1136	Chakrabarti, S. Bigiel, F. Blitz, L. Bolton, A. Chang, P. de Blok, E. Doozan, B. Fassnacht, C. Gallagher III, J. Huff, E. Mandelbaum, R. Subrahmanyan, R. Wright, M.	Florida Heidelberg Calif., Berkeley Utah Wisc., Milwaukee NFRL Florida Calif., Davis Wisc., Madison Calif., Berkeley Carnegie NRAO-CV Calif., Berkeley	A New Probe of Dark Matter in spiral Galaxies	20	8	3.10
AC1166	Corsi, A. Cenko, B. Kulkarni, S. Perley, D. Soderberg, A.	GW Univ. Calif., Berkeley Caltech Caltech CfA	Late-Time Follow up of GRB 130215A with the VLA	1.3,6,10	5	2.78
AD662	De Gasperin, F. Bruggen, M. Churazov, E. Cotton, E. Falcke, H. Forman, E. Intema, H. Merloni, A. Murgia, M. Orru, E. Owen, F. Venkata, U.	MPA Jacobs Univ. MPA NRAO-CV Nijmegen CfA NRAO-Socorro MPE INAF Nijmegen NRAO-Socorro NRAO-Socorro	Understanding M87: a multi-frequency campaign (VLA)	6,10	12,13,15	5.47
AD667	DeCesar, M. Brandt, T. Hewitt, J.	Univ. of Maryland NASA NASA	Spectral Breaks in Pulsar Wind Nebulae	0.9,1.3,3.6	5,30	1.92
AD669	Meyer, J. Mangum, J. Smullen, R.	New York., Stony Bro NRAO-CV Wyoming	Hunting for Dense Gas in Early-Type Galaxies	6	3,4	1.98
AD676	Duffin, R. Mao, M. Owen, F.	NRAO-CV NRAO-Socorro NRAO-Socorro	Double-Lobed Radio Source Hosted by a Grand Design Spiral	3.6	12	1.00
AF518	Fender, R. Coriat, M. Gallo, E. Miller-Jones, J.	Southampton Southampton Mich., Ann Arbor Curtin	Black Hole accretion at the lowest luminosities	6	9,10	5.42

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Progrm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AG896	Guedel, M. Fichtinger, B. Gayley, K. Hallinan, G. Hanslmeier, A. Khodachenko, M. Lammer, H. Lietzinger, M. Lynch, C. Mutel, R. Odert, P. Ribas, L. Skinner, S. Zagarashvili, T.	Univ. of Vienna Karl Franzens Inst. Iowa Caltech Univ. of Graz OEAW OAW Karl Franzens Iowa Iowa Univ. of Graz CSIC Colo., Boulder OEAW	The Radio Sun in time and the faint Young sun parado	2,6	13,20,24,27, 28	13.06
AG901	Gralia, M. Aguirre, P. Baker, A. Hughes, J. Marriage, T. Partridge, R. Tatum, E.	Johns Hopkins Chile New Jersey., Rutgers New Jersey., Rutgers Princeton Haverford New Jersey., Rutgers	Candidate lensed sub-millimeter galaxies form the Atacama Cosmology Telescope	6	3,4,5,6,7,14 ,24	7.56
AH1097	Hallinan, G. Bourke, S. Rupen, M. Villadsen, J.	Caltech Caltech NRAO-Socorro Caltech	Capturing Sweeping Radio Bursts from Nearby Active Stars	10,20	27	2.18
AH1104	Hallinan, G. Bourke, S. Villadsen, J.	Caltech Caltech Caltech	The Thermal Atmospheres of Nearby Solar-Type Stars	2,3,6	14,23,30	5.44
AH1105	Horesh, A. Corsi, A. Frail, D. Kulkarni, S. Ofek, E.	Caltech Caltech NRAO-Socorro Caltech Caltech	A Search for collisionless shocks in recent nearby type IIIn supernovae	0.7,1.3,6	9	0.50
AI167	Ivison, R. George, R. Impellizzeri, C. Riechers, D.	Edinburgh Edinburgh NRAO-CV Cornell	Water megamasers in unique sample of FIR-bright, lensed SMGs	3.6,6	13,16,18	6.19
AJ387	Johnson, K. Bigiel, F. Brogan, C. Evans, A. Leroy, A. Walter, F. Whitmore, B.	UVA Univ. of Heidelberg NRAO-CV NRAO-CV NRAO-Socorro MPIA STScI	Using the Antennae Galaxies as a Laboratory to Study Extreme Star Formation	0.7	30	3.13
AK799	Kale, R. Giacintucci, S. Markevitch, M. Venturi, T. Wik, D.	INAF Maryland CfA INAF NASA	Deep L band imaging of a new radio halo and a relic in Planck clusters	20	4	1.88
AK802	Konar, C. Wang, W.	ASIAA ASIAA	Which accretio mode is on during quiescent phase of jet activity in AGN?	6,10	15,16	2.74
AK806	King, A. Dhawan, V. Miller, J.	Mich., Ann Arbor NRAO-Socorro Mich., Ann Arbor	The disk-Wind-Jet Connection in the Stellar-Mass Black Hole IGR J17091-3624	6	1	0.96
AK808	Kurtz, S. Alakoz, A. Bayandina, O. Kalensky, S. Larionov, G. Litovchenko, I. Val'tts, I.	UNAM Lebedev Inst. Russia Lebedev Inst. Lebedev Inst. Lebedev Inst. RSSI	A new class of Hydroxyl Masers?	20	10,24,31	3.84
AL823	Liszt, H. Beasley, A. Gerin, M. Pety, J.	NRAO-CV NRAO-CV Obs. de Paris IRAM	Origins of hydrocarbons, their chemistry, and DIBS in diffuse interstellar gas	0.9,1.3	6	3.84

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AL831	Liu, H. Chou, M. Forbrich, J. Galvan-Madrid, R. Ho, P. Hora, J. Michihiro, T. Rodriguez, L. Sanchez, J. Yan, C. Zhang, Q.	CFA ASIAA CFA ESO CFA CFA ASIAA UNAM IAA ASIAA CFA	The Jet-Accretion Connection in Young Stellar Objects	2,3,6	2,5	1.94
AL832	Leroy, A. Beck, R. Bolatto, A. Braun, R. Chomiuk, L. Dalcanton, J. de Blok, E. Giessuebel, R. Johnson, M. Kepley, A. Krumholz, M. Lee, C. Mao, S. Meyer, J. Murphy, E. Pisano, D.J. Rosolowsky, E. Rupen, M. Sanstrom, K. Schrubba, A. Skillman, E. Walter, F. Weisz, D.	NRAO-Socorro MPIFR Univ. of Maryland ATNF CFA Univ. of Washington NFRA MPIFR NRAO-CV Uva Calif., Santa Cruz UVA Wisc., Madison NY., Stony Brook Carnegie Inst. West Virginia British Columbia NRAO-Socorro MPIA Caltech Minnesota MPIA Univ. of Washington	The L-Bank Local Group Legacy: Resolving the ISM and Star Formation Cycl	20	5,7,14,30	12.88
AL834	Long, K. Becker, R. Blair, W. Helfand, D. White, R. Winkler, F.	STScI Calif., Davis Johns Hopkins Columbia STScI Middlebury Univ.	A Complete Census of Supernova Remnants in M33	6	4,11,21	23.26
AL835	Li, Z. Gim, H. Morris, M. Wang, Q. Yun, M.	CFA Mass., Amherst Calif., Los Angeles Mass., Amherst Mass., Amherst	A mapping of the polarized synchrotron emission from the central region of M31	6	9	1.48
AL838	Lemonias, J. Schiminovich, D.	Columbia Columbia	A Test of Star formation suppression mechanisms in massive HI-Rich Galaxies	20	2	1.81
AL841	Liu, L. Carilli, C. Gao, Y. Greve, T. Menten, K.	Chinese Academy NRAO-Socorro Chinese Academy Univ. of Copenhagen MPIFR	Radio Emission from Normal Star Forming Galaxies at z~1	3,6,6	1,2,7	4.71
AM1147	Monnier, J. Danchi, W. Greenhill, L. Tuthill, P.	Mich., Ann Arbor NASA CFA Sydney	Orbital Period and the fundamental parameters of colliding wind WR 112-copy	3.6	5,23	0.96
AM1176	Mulcahy, D. Beck, R. Damas, A. Fletcher, A. Giessuebel, R. Heald, G.	MPIFR MPIFR MPIFR Newcastle MPIFR ASTRON	Vertical magnetic fields and outflows in the face-on spiral galaxy NGC 628	10	1	5.59
AM1179	Mundell, C. Moore, T.	John Moores John Moores	Triggering and Regulation of Extragalactic Star Formation	1,3,2,20	5	2.10
AM1183	Murgia, M. Brown, S. Carretti, E. Feretti, L. Giovannini, G. Govoni, F. Vacca, V.	INAF CSIRO CSIRO INAF INAF INAF INAF	Single-dish and interferometric imaging of radio halos in Galaxy Clusters	20	5,6,12,30,31	10.33

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AM1184	Mangum, J. Darling, J. Henkel, C. Kulow, J. Menten, K. Smullen, R.	NRAO-CV Colo., Boulder MPIFR Colo., Boulder MPIFR Wyoming	Imaging the Spatial Density within Starburst Galaxies	2,6	15,27	7.32
AM1189	Middleton, M. Carpenter, J. Dickinson, H. Fender, R. Gandhi, P. Gehrels, N. Haberl, F. Henze, M. Hurley-Walker, N. Markoff, S. Miller-Jones, J. Roberts, T. Scaife, A. Walton, D.	Univ. of Durham Caltech Stockholm Southampton JAXA NASA MPE MPE Cavendish Van Amsterdam Curtin Univ. Univ. of Durham Southampton Caltech	Observing extragalactic binaries to reveal the nature of Eddington accretion	1.3,6	2	1.00
AM1190	Mushotzky, R. Miller, N. Nguyen, K. Vogel, S.	Univ. of Maryland Univ. of Maryland Univ. of Maryland Univ. of Maryland	The Origin of Far-Infrared Radiation in AGN	1.3	16,20	2.47
AM1200	Myers, S.	NRAO-Socorro	A 6-GHz Pilot Synoptic Survey of the COSMOS Field	6	1	0.98
AM1201	Momjian, E. Meier, D. Ott, J.	NRAO-Socorro NMT NRAO-Socorro	Resolved Physics and Chemistry in Nearby Star Forming Galaxies	0.9,1.3	13,27	4.42
AM1203	Mauersberger, R. Blair, S. Henkel, C. Impellizzeri, V. Mangum, J.	ESO SETI MPIFR NRAO-CV NRAO-CV	An extragalactic NH <sub>3</sub> (J,K)=(6,6) maser toward IC342 West?	1.3	2	1.20
AM1205	Melis, C. Chomiuk, L. Duchene, G. Duvert, G. Maddison, S. Menard, F. Palmer, P. Perrin, M. Pinte, C. Stapelfeldt, K.	Calif., San Diego Cfa Calif., Berkeley Obs de Grenoble Swinburne Univ. Obs. de Grenoble Chicago STScI Univ. of Exeter JPL	Microwave Observations of Edge-on Protoplanetary Disks: IRAS04368+2557	0.7,1.3,6	5,7	2.29
AN157	Mioduszewski, A. Nelson, T. Bode, M. Cheung, C. Chomiuk, L. Eyes, S. Krauss, M. Mukai, K. O'Brien, T. Roy, N. Rupen, M. Sokoloski, J. Weston, J. Williams, B.	NRAO-Socorro Minnesota John Moores NRL Cfa Central Lancashire NRAO-CV NASA Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia Columbia STScI	The E-Nova Project: Understanding Gamma-Ray Emission in Classical Novae	0.9,2,20	27,28	2.96
AP625	Popping, A. Abraham, R. Cooper, E. Damjanov, I. Glazebrook, K. Green, A. McGregor, P. Obreschkow, D. Wilson, C. Wisnioski, E.	ICRAR Univ. of Toronto Texas., Austin Cfa Swinburne Univ. Australian Obs. Australian Univ. Univ. of Washington McMaster Univ. MPIA	Local Turbulent Disks: analogs of high-redshift vigorously star-forming disks	20	8,20,21,22,23	21.77
AP627	Popping, A. Delhaize, J. Driver, S. Meyer, M. Meyer, S. Staveley-Smith, L.	ICRAR Western Australia Western Australia Western Australia Western Australia Western Australia	The evolution of neutral hydrogen: measuring Omega-HI out to redshift z=0.4	20	6,11,12,20,21,22,23,24,25,26,27,29,30	19.02



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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AR812	Rudnick, G. Alexander, P. Hodge, J. Lentati, L. Lotz, J. Mornceva, I. Papovich, C. Saintonge, A. Tran, K. Walter, F. Wilmer, C.	Kansas Cambridge MPIA Cambridge STScI Yale Texas., A & M MPE Texas., A & M MPIA Arizona	Detecting CO(1-0) in the star-forming galaxies of a z=1.62 galaxy cluster	0.7	18,19	4.42
AR815	Richards, E. Barnes, K. Dale, D. Staudaher, S. van Zee, L.	Indiana Indiana Wyoming Wyoming Indiana	Baryonic Distributions in Dark Matter Halos	20	8,9,12,19,22 ,23,24,25,26 ,27,28,29,30	28.54
AR818	Rodriguez, L. Carrasco-Gonzalez, C Montes, G.	UNAM MPIFR IAA	The Nature of JVLA 35 in M17	0.9,1.3	13	0.48
AR823	Ricci, L. Benisty, M. Dullemond, C. Isella, A. Natta, A. Pinilla, P. Testi, L.	Caltech Joseph Fourier MPIA Caltech INA Heidelberg ESO	Investigating the trapping of particles and planetesimal formation with the EVLA	0.7	9,14	5.76
AR829	Rabidoux, K. Pisano, D.J.	West Virginia West Virginia	Measuring star formation in local luminous compact blue galaxies	0.7,2,6,20	6,7	4.36
AS1163	Smolcic, V. Banfield, J. Bondi, M. Capak, P. Carilli, C. Cilegi, P. Karim, A. Murphy, E. Rainer-Kloeckner, H. Sargent, M. Schinnerer, E. Scoville, N. Sheth, K. Zamorani, G.	ESO CSIRO INAF Caltech NRAO-Socorro INAF MPIA Carnegie Inst. Oxford CEA MPIA Caltech NRAO-CV INAF	Deep 3GHz EVLA-COSMOS Survey: Confining Stellar Mass Growth through Cosmic Times	10	13,19,20	8.91
AS1188	Savage, A. Buffo, J. Fischer, P. Spangler, S.	Iowa Iowa Iowa Iowa	Faraday Rotation Measurements of the Superbubble Associated with W4/IC1805	6	10,13,16,17	15.75
AS1197	Stanimirovic, S. Begum, A. Dickey, J. Goss, M. Heiles, C. Hennebelle, P. Murrya, C.	Wisc., Madison Wisc., Madison Univ. of Tasmania NRAO-Socorro Calif., Berkeley Obs. de Paris Wisc., Madison	21-SPONGE: 21-cm Spectral line observation of Neutral Gas with the EVLA	20	18,20,24,25, 27	9.61
AS1208	Soderberg, A. Bartel, N. Bietenholz, M. Brunthaler, A. Chakraborti, S. Chevalier, R. Chomiuk, L. Dittmann, J. Fransson, C. Hamuy, M. Katz, B. Levesque, E. MacFadyen, A. Mazzali, P. Nakar, E. Pian, E. Pignata, G. Ray, A.	CfA York Univ. York Univ. MPIFR TIFR UVA CfA CfA Stockholm Univ. de Chile IAS Hawaii., Manoa New York MPIA Tel Aviv Univ. INA Univ. de Chile TIFR	The Diversity of SNe Ibc and the nature of the GRB-SN Connection	1.3,3.6,6, 20	5,21	2.93
AS1210	Sahai, R. Claussen, M. Morris, M.	JPL NRAO-Socorro Calif., Los Angeles	Shocked and Scorched in the Cygnus Star Forming Region	0.9,1.3,2	12	2.49

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS1214	Sokoloski, J. Bode, M. Chomiuk, L. Eyres, S. Krauss, M. Mioduszewski, A. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Weston, J. Williams, B.	Columbia John Moores CfA Central Lanchashire NRAO-CV NRAO-Socorro Minnesota Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia STSci	The E-Nova Project: Early Radio Light Curves for a Diverse Sample of Novae	0.9,1.3,3.6,6	5,12	3.11
AS1234	Scudder, J. Ellison, S. Rosenberg, J.	Univ. of Victoria Univ. of Victoria George Mason Univ.	Gas flows in interacting galaxies: what governs star formation triggering?	20	12,16,18,21,26	2.39
AT439	Tobin, J. Chandler, C.	NRAO-CV NRAO-Socorro	Characterizing the Free-Free Emission from Two Multiple Class o/I Protostars	6	7	1.62
AU136	Ueda, J. Kawabe, R. Lono, D. Wilner, D.	Tokyo NAO NAO CfA	The Distribution and Kinematics of the HI gas in the Merger Remanant NGC 828	20	14	2.70
AV349	Verdes-Montenegro, L. Athanasoula, E. Bosma, A. Dobbs, C. Espada, D. Fernandez, M. Montes, J. Morelta, P. Munoz-Mateos, J. Scott, T. Sengupta, C. Vela, J. Yun, M.	IAA OAMP Obs de Marseilli-Pro Univ. of Exeter NAO IAA IAA IAA NRAO-CV IAA IAA ESO Mass., Amherst	The extended HI envelope of the isolated galaxy CIG 96	20	9,19,23,25,28,29,31	9.55
AV350	van Weeren, R. Forman, W. Rottgering, H.	CfA CfA Univ. of Leiden	Shock and Awe: Deep JVLA observations of the "Sausage Cluster"	10,20	3	5.59
AW836	Wang, R. Bertoldi, F. Carilli, C. Cox, P. Fan, X. Jiang, L. Menten, K. Omont, A. Riechers, D. Strauss, M. Wagg, J. Walter, F.	NRAO-CV Bonn NRAO-Socorro IRAM Arizona Arizona MPIfR Obs. de Paris Cornell Princeton ESO MPIA	Molecular gas in the starburst quasar host galaxies at redshift 6	0.9	7,14,16,29,30	13.47
AW840	Wang, J. Gu, Q. Zhang, Z. Zhu, Q.	Nanjing Nanjing MPIfR China	Looking into heavily obsured AGN with RRLs using VLA	0.9	7,12,19,29	7.84
AW847	Walker, L. Hibbard, J. Johnson, K. Kepley, A.	UVa NRAO-CV UVa UVa	The role of gas processing in galaxy evolution	20	1,2,3,6,7,8,10,11,14,16,21,22,25,26,28	49.60
AZ214	Zhu, Q. Wang, J. Zhang, Z.	China Nanjing MPIfR	Using HCN Direct $S_{10}$ -type Lines to probe Density Gradients near UC HII Regions	0.9	6	3.91
AZ223	Zhang, Z. Qui, K. Shi, H. Wang, J.	MPIfR MPIfR MPIfR Nanjing	High-velocity Atomic Outflows in High-Mass star formation regions	20	5,22,24,25	11.11
BC215	cenko, B. Bower, G. Frail, D. Perley, D.	NASA Calif., Berkeley NRAO-Socorro Caltech	Resolving the relativistic outflow from the nearby GRB 130702A	6	26	0.50

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
BR145	Reid, M. Bartkiewicz, 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 Nicolaus Copernicus MPIfR MPIfR CfA Shanghai MPIfR NRAO-Socorro INA INA Tokyo Chinese Academy Nanjing Nanjing	Mapping the Milky Way	3.6	2	1.50
S50386	Cenko, S. Bloom, J. Chandra, P. Filippeko, A. Frail, D. Harrison, F. Kulkarni, S. Perley, D. Prochaska, J. Rana, V.	Calif., Berkeley Calif., Berkeley RMCC Calif., Berkeley NRAO-Socorro Caltech Caltech Caltech Calif., Santa Cruz Caltech	Afterglows, redshifts, and calorimetry of fermi gamma-ray bursts blazars	20	4	0.96
SE0795	Giacintucci, S. Brunetti, G. Cassano, R. Clarke, T. Dallacasa, D. Mushotzky, R. Venturi, I.	Maryland INAF INAF NRL INAF Maryland INAF	RXCJ1514.9-1523: A New USSRH?	20	4	3.77
SE0824	Haggard, D. Heinke, C. Roberts, D. Yusef-Zadeh, F.	Northwestern Univ. Univ. of Alberta Northwestern Univ. Northwestern Univ.	Joint Chandra/XMM/EVLA Monitoring of the Gas Cloud G2 as it Encounters Sgr A*	20	27	6.93

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	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	521.06	72.63
Unscheduled	6.83	0.95
Maintenance	52.46	7.31
Test/Calc	137.04	19.10
Weather	0.00	0.00
Power out	0.00	0.000
Holiday Shutdown	0.00	0.00
<b>Total</b>	<b>717.39</b>	<b>100.00</b>

Average downtime measured in antenna hours was 4.86% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Antenna	0.00
Correlator	0.03
Cryogenics	1.06
Electrical	2.56
Fiber Optics	0.39
Fire Alarm	0.19
Focus/Rotation	0.76
Front End	12.00
LO/IF	3.70
Mechanical	0.11
Other	0.56
Servo	3.25
Site Power	0.32
Software	1.69
Weather	0.01
<b>Total</b>	<b>26.61</b>

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA362	Anglada, G. Carrasco-Gonzalez, C Duran-Rojas, M. Rodriguez, L.	IAA MPIfR IAA UNAM	The driving source of the JJ 30 jet	0.7,1.3	9	2.00
AB1440	Bihr, S. Beuther, H. Hennemann, M. Henning, T. Krause, O. Ragan, S. Smith, R.	MPIA MPIA CEA MPIA MPIA MPIA Heidelberg	Kinematical signatures of dynamical cloud collapse	1.3	11,13,14,15	13.91
AB1443	Berger, E. Chakraborti, S. Chornock, R. Fong, W. Laskar, T. Margutti, R. Menten, K. Metzger, B. Nakar, E. Sari, R. Soderberg, A. Zauderer, B.	CfA TIFR CfA CfA CfA CfA MPIfR Princeton Tel Aviv Univ. Hebrew Univ. CfA CfA	New Insights on Gamma-Ray Bursts with the JVLA	1.3,6	3,4,5,7,8,9, 10,13,18	14.69
AB1445	Bonafede, A. Bruggen, M. Ebeling, H. Edge, A. Giovannini, G. Hoeft, M. Klein, U. van Weeren, R. Vazza, F.	Jacobs Univ. Jacobs Univ. Hawaii., Manoa Durham INAF Thueringer Bonn Leiden Jacobs Univ.	Radio halos in galaxy clusters: detection of the steepest spectrum known so far	20	24	2.72
AB1447	Beuther, H. Anderson, L. Bihr, S. Brunthaler, A. Churchwell, E. Henning, T. Hoare, M. Johnston, K. Kainulainen, J. Kerp, J. Linz, H. Menten, K. Ott, J. Stil, J. Tackenberg, J. Walter, F.	MPIA West Virginia MPIA MPIfR Wisc., Madison MPIA Univ. of Leeds MPIA MPIA Bonn MPIA MPIfR NRAO-Socorro Calgary MPIA MPIA	The HI/OH/Recombination line survey of the Milky Way (THOR)	20	14,17,18,21, 23,25	27.94
AB1448	Blomme, R. Naze, Y. Prinja, R. Rauw, G. Volpi, D.	Obs. of Belgium Univ. of Liege London Univ. of Liege Obs. of Belgium	The Colliding Winds of the Massive Early-Type Binary 9 Sgr	3.6,6,20	2,28	0.96
AB1456	Babul, A. Basu, K. Bertoldi, F. Bonafede, A. Bruggen, M. Dolag, K. Klein, U. Nagarajan, A. Sommer, M.	Univ. of Victoria Bonn Bonn Jacobs Univ. Jacobs Univ. MPA Bonn Bonn Bonn	A census of radio haloes in Planck-SZ selected galaxy clusters	20	4,5,7,8,21,2 6	5.45
AB1478	Bonafede, A. Bruggen, M. Intema, H. Kantharia, N. Rottgering, H. van Weeren, R.	Univ. of Hamburg Jacobs Univ. NRAO-Socorro TIFR Univ. of Leiden CfA	The cluster PLCKG287: A Unique opportunity to unravel the origin of radio relics	10,20	1,3	3.59
AB1479	Butler, B. Curwell, M. Moulet, A.	NRAO-Socorro CfA NRAO	Observations of Near Earth Asteroid 1998 QE2	0.9,2,6	4	5.49

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AC1089	Chandra, P. Chevalier, R. Chugai, N. Fransson, C. Soderberg, A.	RMCC UVA Moscow Stockholm Cfa	Exploring the mysterious Type IIn supernovae with the EVLA	1.3	10,11	0.98
AC1098	Corsi, A. Arcavi, I. Frail, D. Gal-Yam, A. Kulkarni, S. Mazzali, P. Ofek, E.	Caltech Weizmann Inst. NRAO-Socorro Weizmann Inst. Caltech MPA Caltech	Radio follow-up of "exotic" Ic SNe discovered by PTF	2,6,10	24	1.94
AC1113	Cesaroni, R. Beltran, M. Busquest, G. Elia, D. Molinari, S. Moscadelli, L. Olm, L. Pestalozzi, M. Sanchez-Monge, A. Schisano, E. Testi, L.	INA INA INAF INAF INAF INA INA INAF INA INAF ESO	A quest for high-mass star formation in two families of molecular clumps	1.3,6	24,28	2.39
AC1121	Carrasco-Gonzalez, C. Cesaroni, R. Hofner, P. Kurtz, S. Rosero, V. Wyrowski, F.	MPIFR INA NMT UNAM NMT MPIFR	A search for compact accretion disks around massive YSOs	0.7	8	3.97
AC1122	Choi, M. Kang, M.	Korea Korea	Is NGC 2024 FIR 6c the Nearest Hypercompact H II Region?	0.7,0.9	13	0.99
AC1134	Chomiuk, L. Bode, M. Eyes, S. Krauss, M. Mioduszewski, A. Mukai, K. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Sokoloski, J. Weston, J. Williams, B.	Cfa John Moores Central Lancashire NRAO NRAO-Socorro NASA Minnesota Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia Columbia STScI	The E-Nova Project: Explosion Dynamisc Traced in Detail by the VLA	0.9,2,6,20	2,3	2.08
AD662	De Gasperin, F. Bruggen, M. Churazov, E. Cotton, W. Falcke, H. Forman, W. Intema, H. Merloni, A. Murgia, M. Orru, E. Owen, F. Venkata, U.	MPIA Jacobs Univ. MPIA NRAO Radboud Univ. Cfa NRAO-Socorro MPE INAF Radboud Univ. NRAO-Socorro NRAO-Socorro	Understanding M87: a multi-frequency campaign (VLA)	6,10	4,5,7,8,11,15,22,23	11.86
AD667	DeCesar, M. Brandt, T. Hewitt, J.	Maryland NASA NASA	Spectral Breaks in Pulsar Wind Nebulae	0.9,1.3,3.6	22	0.99
AD668	Degnaar, N. King, A. Miller, J. Rupen, M.	Mich., Ann Arbor Mich., Ann Arbor Mich., Ann Arbor NRAO-Socorro	Revisiting the x-ray/radio correlation for neutron star x-ray binaries	3.6	6,9,10,14,15,16	8.93
AD669	Donovan, J. Mangum, J. Smullen, R.	NY., Stony Brook NRAO Wyoming	Hunting for dense gas in early-type galaxies	6	8,15,22,23	10.15
AE199	Eilingsen, S. Breen, S. Hofner, P.	Univ. of Tasmania ATNF NMT	Radio continuum emission from the youngest high-mass star formation regions	1.3,6	11	2.99

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Program	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AG891	Ginsburg, A. Bally, J. Battersby, C. Becklin, E. Darling, J. Klein, R. Koda, J. Sankrit, R. Scoville, N. Smith, E. Smith, R. Youngblood, A.	Colo., Boulder Colo., Boulder Colo., Boulder UCLA Colo., Boulder USRA Stony Brook USRA Caltech NASA Heidelberg Colo., Boulder	Massive stars and ionized and molecular gas in the W51 complex	2,6	4	1.44
AG899	Goddi, C. Ricci, L.	ESO Caltech	When does dust grain growth start in star formation?	0.7,1.3,3.6	12,13	3.49
AG901	Gralla, M. Aguirre, P. Baker, A. Hughes, J. Marriage, T. Partidge, R. Tatum, E.	Johns Hopkins Univ. of Chile NEW Jersey., Rutgers New Jersey., Rutgers Princeton Haverford Univ. New Jersey., Rutgers	Candidate lensed sub-millimeter galaxies from the Atacama Cosmology Telescope	6	19,26	1.54
AH1090	Hoa Hsieh, T. Murillo, N. Ping Lai, S.	Tsing Hua Univ. Tsing Hua Univ. Tsing Hua Univ.	Estimating the Mass of Proto Binary System of Vello-DCE185	0.7	13	2.99
AH1097	Hallinan, G. Bourke, S. Rupen, M. Villadsen, J.	Caltech Caltech NRAO-Socorro Caltech	Capturing Sweeping Radio Bursts from Nearby Active Stars	10,20	2	4.00
AH1098	Hewitt, J. Ghavamian, P. Petre, R. Reynolds, S. Williams, B.	NASA Towson Univ. NASA North Carolina NASA	A new epoch of EVLA Observations of Tycho's SNR: Proper Motions and More	6,20	8	1.89
AH1104	Hallinan, G. Bourke, S. Viladsen, J.	Caltech Caltech Caltech	The Thermal Atmospheres of Nearby Solar-Type Stars	2,3.6	1,7	3.48
AH1105	Horesh, A. Corsi, A. Frail, D. Kulkarni, S. Ofek, E.	Caltech GW Univ. NRAO-Socorro Caltech Caltech	A Search for collisionless shocks in recent nearby type II supernovae	0.7,1.3,6	22	0.50
AH1130	Horesh, A. Cao, Y. Gal-Yam, A. Kasliwal, M. Kulkarni, S. Ofek, E.	Caltech Caltech Caltech Weizmann Inst. Carnegie Inst. Caltech Caltech	A Radio Observation of PTF13bvn- A Young Nearby Supernova in NGC 5806	1.3,6	18	0.98
AI169	IMAI, H. Chong, S. Deguchi, S. Diamond, P. Nakashima, J. Yung, B.	Kagoshima Kagoshima NAO ATNF Hong Kong Hong Kong	Diagnostics of a centimeter SED for the "water fountain" source W43A	0.7,1.3,3.6	9,12,13	1.96
AJ386	Jalai, B. Eckart, A. Gebhardt, K. Sabha, N. Zamaninasab, M. Zensus, A.	Univ. of Koeln Univ. of Koeln Texas., Austin Univ. of Koeln MPIfR MPIfR	Searching for an IMBH in a newly discovered Massive Globular Cluster	3.6	8,9,10	5.93
AK798	Klaassen, P. Johnston, K. Mottram, J. Peters, T. Zapata, L.	Leiden Obs. MPIA Leiden Univ. Univ. of Zurich UNAM	Accretion Dynamics and HII regions	0.7	26,27	7.56
AK799	Kale, R. Giacintucci, S. Markevitch, M. Venturi, T. Wik, D.	INAF Univ. of Maryland CfA INAF NASA	Deep L band imaging of a new radio halo and a relic in planck clusters	20	23	1.87
AK803	Kanekar, N. Carilli, C. Menten, K.	TIFR NRAO-Socorro MPIfR	A blind Ka- and Q-band survey for molecular absorption at high redshift	0.7	1,23	5.95

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AL823	Liszt, H. Beasley, A. Gerin, M. Pety, J.	NRAO-CV NRAO-CV Obs. de Paris IRAM	Origins of hydrocarbons, their chemistry. and DIBS in diffuse interstellar gas	0.9,1.3	17	3.68
AL826	Laing, R. Bridle, A. Perley, R.	ESO NRAO-CV NRAO-Socorro	How fast are the jets in NGC6251?	6	8	5.76
AL829	Lopez-Sepulcre, A. Cecarelli, C. Dominik, C. Kama, M. Sanchez-Monge, A.	Obs. de Grenoble Obs. de Grenoble Univ. van Amsterdam Univ. van Amsterdam INA	Catching the first formation steps of an intermediate-mass protocluster in Orion	0.7,1.3,6	22	0.48
AL831	Liu, H. Chou, M. Forbrich, J. Galvan-Madrid, R. Ho, P. Hora, J. Michihiro, T. Rodriguez, L. Sanchez, J. Yan, C. Zhang, Q.	CfA ASIAA CfA ESO CfA CfA CfA ASIAA UNAM IAA ASIAA CfA	The Jet-Accretion Connection in Young Stellar Objects	2,3,6	3,10,15,24	6.65
AL834	Long, K. Becker, R. Blair, W. Helfand, D. White, R. Winkler, F.	STScI Calif., Davis Johns Hopkins Columbia STScI Middlebury	A complete census of supernova remnants in M33	6	9,29,30	23.03
AL836	Lang, C. Brentjens, M. Law, C. Mao, S. Mills, E. Morris, M. Ott, J. Staguhn, J. Zweibel, E.	Univ. of Iowa ATRON Calif., Berkeley Wisconsin UCLA UCLA NRAO-Socorro Maryland Wisconsin	The Nature and Origin of the Galactic Center Radio Arc: A VLA Faraday Study	0.7,0.9,3,6,6,10,20	2	1.22
AL838	Lemonias, J. Schiminovich, D.	Columbia Columbia	A test of star formation suppression mechanisms in massive HI-Rich Galaxies	20	13,14,16,17,18,19,20,21,22,27,29,30	44.87
AL841	Liu, L. Carilli, C. Gao, Y. Greve, T. Menten, K.	Chinese Academy NRAO-Socorro Chinese Academy Univ. of Copenhagen MPIFR	Radio Emission from Normal Star Forming Galaxies at z~1	3.6,6	10,11,13,19,21,25	9.01
AM1179	Mundell, C. Moore, T.	John Moores John Moores	Triggering and Regulation of Extragalactic Star Formation	1.3,2,20	9,10	3.97
AM1183	Murgia, M. Brown, S. Carretti, E. Feretti, L. Giovannini, G. Govoni, F. Vacca, V.	INAF ATNF CSIRO INAF INAF INAF INAF	Single-Dish and interferometric imaging of radio halos in Galaxy Clusters	20	9,22,30	4.66
AM1189	Middleton, M. Carpenter, J. Dickinson, H. Fender, R. Gandhi, P. Gehrels, N. Haberl, F. Henze, M. Hurley-Walker, N. Markoff, S. Miller-Jones, J. Roberts, T. Scaife, A. Walton, D.	Univ. of Durham Caltech Stockholm Southampton JAXA NASA MPE MPE Cavendish Univ. van Amsterdam Curtin Univ. Durham Southampton Caltech	Observing extragalactic binaries to reveal the nature of Eddington accretion	1.3,6	22,26,29	2.80
AM1190	Miller, N. Mushotzky, R. Nguyen, K. Vogel, S.	Univ. of Maryland Univ. of Maryland Univ. of Maryland Univ. of Maryland	The origin of far-infrared radiation in AGN	1.3	12,13,15,16,17	12.23



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AM1193	MacGregor, M. Andrews, S. Hughes, M. Matthews, B. Ricci, L. Wilner, D.	CfA CfA Calif., Berkeley Herzberg Inst. Caltech CfA	Testing collisional models of planetesimals in the AU Mic debris disk	0.9	21	1.73
AM1198	Morata, O. Eiroa, C. Gregorio-Monsalvo, I Navascues, D. Pauau, A.	Sinica UNAM ESO INTA IEEC	Looking for radio jets in the first sample of proto-brown dwarf candiates	1.3,3.6,6	10,15,27	4.15
AM1200	Myers, S.	NRAO-Socorro	A 6-GHz Pilot Synoptic Survey on the COSMOS field	6	4	0.92
AM1203	Mauersberger, R. Blair, S. Henkel, C. Impellizzeri, V. Mangum, J.	ESO SETI Inst. MPIfR NRAO-CV NRAO-CV	A extragalactic NH <sub>3</sub> (J, K <sub>0</sub> =(6,6) maser toward IC342 West?	1.3	18	1.24
AM1205	Melis, C. Chomiuk, L. Duchene, G. Duvert, G. Maddison, S. Menard, F. Palmer, P. Perrin, M. Pinte, C.	Calif., San Diego CfA Calif., Berkeley Obs. de Grenoble Swinburne Univ. Obs. de Grenoble Chicago STScI Univ. of Exeter	Microwave observations of Edge-on Protoplanetary Disks: IRAS04368+2557	0.7,1.3,6	9,10	2.38
AN157	Nelson, T. Bode, M. Cheung, T. Chomiuk, L. Eyles, S. Krauss, M. Mioduszewski, A. Mukai, K. O'Brien, T. Roy, N. Rupen, M. Sokoloski, J. Weston, J. Williams, B.	Minnesota John Moores NRL CfA Central Lancashire NRAO-CV NRAO-Socorro NASA Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia Columbia STScI	The E-Nova Project: Understanding Gamma-Ray Emission in Classical Novae	0.9,2,6,10	1	1.68
AO292	Ott, J. Brunthaler, A. Impellizzeri, V. Meier, D. Yusef-Zadeh, F.	NRAO-Socorro MPIfR NRAO-CV NMT Northwestern Univ.	Water Masers in the Central Molecular Zone	1.3	20	2.47
AP625	Popping, A. Abraham, R. Cooper, E. Damjanov, I. Glazebrook, K. Green, A. McGregor, P. Obreschkow, D. Wilson, C. Wisnioski, E.	ICRAR Toronto Texas., Austin CfA Swinburne Australian Obs. Australian Obs. West Alabama McMaster Swinburne	Local Turbulent Disks: analogs of high-redshift vigorously star-forming disks	20	22,24,26,27,30	11.93
ARB12	Rudnick, G. Alexander, P. Hodge, J. Lentati, L. Lotz, J. Momcheva, I. Papovich, C. Saintonge, A. Tran, K. Walter, F. Wilmer, C.	Kansas Cambridge MPIA Cambridge STScI Yale Texas., A & M MPE Texas., A & M MPIA Arizona	Detecting CO(1-0) in the star-forming galaxies of a z=1.62 galaxy cluster	0.7	18,20,21,22,23,24	14.54
ARB13	Rodriguez, L. Zapata, L.	UNAM UNAM	The IC 348MMS Outflow: Rotation or Binary System?	0.9,3.6	22	1.73
ARB18	Rodriguez, L. Carrasco-Gonzalez, C Montes, G.	UNAM MPIfR IAA	The nature of JVLA 35 in M17	0.9,1.3	22	2.22

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AR823	Ricci, L. Benisty, M. Dullemond, C. Isella, A. Natta, A. Pinilla, P. Testi, L.	Caltech Obs. de Grenoble MPIA Caltech INA Heidelberg Inst. ESO	Investigating the trapping of particles and planetesimal formation with the EVLA	0.7	8	2.96
AR824	Rujopakarn, W. Clement, B. Egami, E. Iverson, R. Marrone, D. Narayanan, D. Richard, J.	Arizona Arizona Arizona Edinburgh Chicago Steward Obs. CRAL	Probing the star formation law with lensed star-forming galaxies at z=2-4	0.7,0.9,1.3	6,12,23,25	12.63
AR825	Riechers, D. Aravena, M. Capak, P. Carilli, C. da Cunha, E. Daddi, E. Dickinson, M. Iverson, R. Mao, M. Sargent, M. Scovill, N. Smail, I. Smolcic, V. Wagg, J. Walter, F.	Cornell ESO Caltech NRAO-Socorro MPIA CEA NOAO Edinburgh NRAO-Socorro CEA Caltech Durham ESO ESO MPIA	Measuring the dense gas history of the universe	0.9	1,2	3.88
AS1163	Smolcic, V. Balokovic, M. Banfield, J. Bertoldi, F. Bondi, M. Carilli, C. Ciliegi, P. Elvis, M. Hao, H. Jelic, V. Karim, A. Kloekner, H. Krgan, J. Murphy, E. Salim, S. Sargent, M. Schinnerer, E. Scoville, N. Sheth, K. Zamorani, G.	ESO Caltech CSIRO Bonn INAF NRAO-Socorro INAF Cfa Cfa ASTRON MPIA Caltech Univ. of Zagreb Carnegie Inst. Bonn CEA MPIA Caltech NRAO-CV INAF	Deep 3GHz EVLA-COSMOS Survey: Confining Stellar Mass Growth through Cosmic Times	10	11,14,15,16,17	20.67
AS1197	Stanimirovic, S. Begum, A. Dickey, J. Goss, M. Helies, C. Hennebelle, P. Murray, C.	Wisc., Madison Wisc., Madison Univ. of Tasmania NRAO-Socorro Calif., Berkeley Obs. de Paris Wisc., Madison	21-SPONGE: 21-cm Spectral line observations of neutral Gas with the EVLA	20	1,2,3	14.45
AS1208	Soderberg, A. Bartel, N. Bietenholz, M. Brunthaler, A. Chakraborti, S. Chevalier, R. Chomiuk, L. Dittmann, J. Fransson, C. Hamuy, M. Katz, B. Levesque, E. MacFadyen, A. Mazzali, P. Nakar, E. Pignata, G. Plan, E. Ray, A.	Cfa HarTRAO HarTRAO MPIFR TIFR UVa Cfa CFA Stockholm Univ. of Chile IAS Hawaii., Manoa New York MPA Tel Aviv Univ. Univ. of Chile INA TIFR	The diversity of SNE ibc and the Nature of the GRB-SN Connection	1.3,3.6,6,20	13,19,24,26	2.73

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AS1209	Sarazin, C. Clarke, T. Farnsworth, D. Hogge, T. Rudnick, L. van Weeren, R. Wik, D.	UVA NRL Minnesota UVA Minnesota CfA NASA	Is the diffuse radio source in abell 2061 a USS cluster Halo, Relic, or Hybrid?	20	23	3.73
AS1213	Soderberg, A. Berger, E. Brunthaler, A. Gezari, S. Margutti, R. Zauderer, B.	CfA CfA MPIfR Johns Hopkins CfA CfA	Triggered EVLA Follow-up of New Tidal Disruption Events	1.3,3.6,6,20	1	0.50
AS1214	Sokoloski, J. Bode, M. Chomiuk, L. Eyres, S. Krauss, M. Mioduszewski, A. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Weston, J. Williams, B.	Columbia John Moores CfA Central Lancashire NRAO-CV NRAO-Socorro Minnesota Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia STScI	The E-Nova Project: Early Radio Light Curves for a Diverse Sample of Novae	0.9,1.3,6	10,12,16	3.97
AV344	Vlemmings, W. Amiri, N. Tafaya, D. van Langevelde, H.	OSO Colo., Boulder Kagoshima JIVE	JVLA observations of water fountain candidates	1.3	6	2.86
AV350	van Weeren, R. Bruggen, M. Forman, W. Hoeft, M. Intema, H. Jones, C. Kraft, R. Ogrean, G. Rottgering, H. Rudnick, L. Stroe, A.	CfA Jacobs Univ. CfA Thuringer Landesster NRAO-Socorro CfA CfA Univ. of Hamburg Univ. of Leiden Minnesota Univ. of Leiden	Shock and Awe: Deep JVLA observation of the "Sausage Cluster"	10,20	28	7.50
AW836	Wang, R. Bertoldi, F. Carilli, C. Cox, P. Fan, X. Jiang, L. Menten, K. Narayanan, D. Omont, A. Riechers, D. Strauss, M. Wagg, J. Walter, F.	NRAO Bonn NRAO-Socorro IRAM Arizona Arizona MPIfR Steward Obs. Obs. de Paris Cornell Princeton ESO MPIA	Molecular gas in the starburst quasar host galaxies at redshift 6	0.9	5,8,16	6.37
AW838	Wilson, T. Baudry, A. Brouillet, N. Clarke, T. Despois, D. Henkel, C. Mauersberger, R. Wooten, H.	NRL Obs. de Bordeaux Obs. de Bordeaux NRL Obs. de Bordeaux MPIfR ESO NRAO-CV	Ammonia Masers in W51	1.3	16	4.64
AW847	Walker, L. Hibbard, J. Johnson, K. Kepley, A.	UVA NRAO-CV UVA UVA	The role of gas processing in galaxy evolution	20	30	0.38
AZ212	Zijlstra, A. Hajduk, M. van Hoof, P.	Manchester Nicolaus Copernicus Obs. de Belgium	The third twin in a dusty cocoon: hidden evolution of WISE J1810-3305	6	5	0.94
AZ214	Zhu, Q. Wang, J. Zhang, Z.	China Nanjing MPIfR	Using HCN Direct $\text{J}1\text{-}0$ -type Lines to probe densit gradients near UC HII regions	0.9	19,20,22,24	7.89

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AZ219	Zhang, Z. Frayer, D. Gao, Y. Henkel, C. Tan, Q. Wang, J. Zhao, Y.	MPIfR NRAO-CV Chinese Academy MPIfR Chinese Academy Nanjing Chinese Academy	Resolving CS J=1.0 in local (u) LIRG with the JVLA	0.7	11,19	5.07
AZ221	Zschaechner, L. Heald, G. Rand, R. Sancisi, R. Walterbos, R.	UNM ASTRON UNM Kapteyn Inst. NMSU	The HI Halo in the LSB galaxy UGC 7321 and it clues to galaxy evolution	20	6,7	6.34
BB320	Busch, M. Benner, L. Briskin, W. Brozovic, M. Giorgini, J. Margot, J. Nolan, M.	UCLA JPL NRAO-Socorro JPL JPL UCLA NAIC	Radar speckle observations of near-earth asteroids during 2013-2015	3.6,13	6	0.34
BB336	Brunthaler, A. Bower, G. Eatough, R. Falcke, H. Freire, P. Kramer, M. Lazarus, P.	MPIfR Calif., Berkeley MPIfR Radbound Univ. MPIfR MPIfR MPIfR	Proper motion of the galactic center soft gamma ray repeater	20	1	3.96
BB337	Bower, G. Brunthaler, A. Deller, A. Demorest, P. Eatough, R. Falcke, H.	Calif., Berkeley MPIfR ASTRON NRAO MPIfR Radbound Univ.	Proper Motion of the galactic center soft gamma-ray repeater 1745-29	2	30	5.90
BM335	Batejat, F. Alberdi, A. Conway, J. Diamond, P. Lonsdale, C. Lonsdale, C. Marti-Vidal, E. Perez-Torres, M. Varenius, E.	Onsala Obs. IAS Onsala Obs. CSIRO NRAO-CV MIT Onsala Obs. IAA Chalmers Univ.	New deep precision observations of the compact source population in Arp220	6	19	0.48
BR145	Reid, M. Bartkiewicz, 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 Nicolaus Copernicus MPIfR MPIfR CfA Shanghai Obs. MPIfR NRAO-Socorro INA INA Tokyo Chinese Academy Nanjing Nanjing	Mapping the Milky Way	3.6	15,22	1.50
S5033	Jorstad, S. Marscher, A.	Boston Boston	Multi-Frequency campaigns to study rapid variability in gamma-ray blazars	20	1	1.88
S50386	cenko, S. Bloom, J. Chandra, P. Filippeko, A. Frail, D. Harrison, F. Kulkarni, S. Perley, D. Prochaska, J. Rana, V.	Calif., Berkeley Calif., Berkeley RMCC Calif., Berkeley NRAO-Socorro Caltech Caltech Caltech Calif., Santa Cruz Caltech	Afterglows, redshifts, and calorimetry of fermi gamma-ray bursts	20	26,30	2.33
SE0368	Gallo, E. Homan, J. Jonker, P. Markoff, S. Miller-Jones, J. Russell, D.	Michigan MIT Netherlands Amsterdam Curtin Univ. IAC	Deep Chandra/EVLA observations of the quiescent black hole x-ray binary XTE	20	27,28	12.84

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
SE0737	van Weeren, R. Bruggen, M. Croston, J. Forman, E. Hoeft, M. Jones, C. Kraft, R. Murray, S. Ogrean, G. Rottgering, H. Rudnick, L. Sarazin, C. Simionescu, A.	Univ. of Leiden Jacobs Univ. Johns Hopkins CfA Tautenburg SAO SAO Southampton Jacobs Univ. Univ. of Leiden Minnesota UVA Stanford	The "toothbrush cluster": probing particle acceleration by merger induced shock	20	17	5.60

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	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	499.08	69.32
Unscheduled	12.45	1.73
Maintenance	24.84	3.45
Test/Calc	179.81	24.97
Weather	0.00	0.00
Power out	3.82	0.53
Holiday Shutdown	0.00	0.00
<b>Total</b>	<b>720.00</b>	<b>100.00</b>

Average downtime measured in antenna hours was 5.17% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Antenna	1.44
Correlator	15.18
Cryogenics	6.55
Electrical	0.61
Fiber Optics	11.37
Focus/Rotation	5.02
Front End	39.17
Interference	0.72
LO/IF	2.11
Mechanical	0.10
Monitor/Control	5.10
Other	3.63
Recommissioning	2.01
Servo	2.57
Site Power	0.31
Software	3.72
Weather	0.38
<b>Total</b>	<b>100.00</b>

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*P. J. E.*

Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA361	Anderson, L. Balser, D. Banja, T. Wenger, T.	West Virginia NRAO Boston Boston	How many Ultra-compact HII regions are there in the Milky Way?	1.3	5	2.16
AB1443	Berger, E. Chakraborti, S. Chornock, R. Fong, W. Laskar, T. Margutti, R. Menten, K. Metzger, B. Nakar, E. Sari, R. Soderberg, A. Zauderer, B.	CfA TIFR CfA CfA CfA MPIfR Princeton Tel Aviv Univ. Hebrew Univ. CfA CfA	New Insights on Gamma-Ray Bursts with the JVLA	1.3,6	24,26	3.40
AB1448	Blomme, R. Naze, Y. Prinja, R. Rauw, G. Volpi, D.	Obs. of Belgium Univ. of Liege London Univ. of Liege Obs. of Belgium	The Colliding Winds of the Massive Early-Type Binary 9 Sgr	3.6,6,20	1	0.48
AB1459	Bignall, H. Godfrey, L. Koay, J. Macquart, J.	Curtin Univ. Curtin Univ. Curtin Univ. Curtin Univ.	Wide-band interstellar as a robe of ultracompact AGN jets	3.6,6	8,19,29,30	24.55
AB1461	Burgasser, A. Melis, C.	Calif., San Diego Calif., San Diego	Radio Emission from a Newly Detected Hyperactive L Dwarf	3.6,6,10,20	16,17,18	13.55
AB1462	Bastian, T. Bhatnagar, S. Gibson, S. Tomczyk, S.	NRAO NRAO-Socorro UCAR UCAR	Radio and IR Imaging of a Coronal Cavity: Probing the Magnetic Heart	20	5	4.98
AB1463	Bastian, T. Chen, B. Gary, D. White, S.	NRAO UVA New Jersey USAF	Dynamic Imaging Spectroscopy of Coherent Solar Radio Bursts II	10,20	14	2.90
AB1478	Bonafede, A. Bruggen, M. Intema, H. Kantharia, N. Rottgering, H. van Weeren, R.	Hamburg Jacobs Univ. NRAO-Socorro TIFR Leiden CfA	The cluster PLCKG287: A Unique Opportunity to unravel the origin of radio relics	10,20	9,16,17,20,21,30	9.45
AC1098	Corsi, A. Arcavi, I. Frail, D. Gal-Yam, A. Kulkarni, S. Mazzali, P. Ofek, E.	Caltech Weizmann Inst. NRAO-Socorro Weizmann Inst. Caltech MPA Caltech	Radio follow-up of "exotic" IcsNe discovered by PTF	2,6,10	11,16	3.43
AC1113	Ceasaroni, R. Beltran, M. Busquet, G. Elia, D. Molinari, S. Moscadelli, L. Olm, L. Pestalozzi, M. Sanchez-Monge, A. Schisano, E. Testi, L.	INA INA INAF INAF INAF INA INA INAF INA INAF ESO	A quest for high-mass star formation in two families of molecular clumps	1.3,6	6	1.67
AC1124	Claussen, M. Menten, K. Patel, N. Sahai, R. Sjouwerman, L. Young, K.	NRAO-Socorro MPIfR CfA JPL NRAO-Socorro CfA	An imaging Spectral survey of the AGB carbon star IRC+10216 from 18-50 GHz	0.9	5,6	5.77
AC1127	Chamess, C. Corby, J. Loomis, R. McGuire, B. Pulliam, R. Remijan, A.	UVA UVA UVA Caltech NRAO NRAO	Mapping a new astronomical maser towards SgrB2(n)-LMH	6	15,17,20,24	3.84

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	PI	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
	A. Cenko, B. Dhuga, K. Frail, D. Kulkarni, S. Perley, D. Sonbas, E.	Caltech Calif., Berkely GW Univ. NRAO-Socorro Caltech Caltech Adiyaman Univ.	Probing the composition of GRB jets with JVLA: A quest for reverse shocks	0.7,1.3,3. 6,6	2	1.96
AC1134	Chomiuk, L. Bode, M. Eyres, S. Krauss, M. Mioduszewski, A. Mukai, K. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Sokoloski, J. Weston, J. Williams, B.	Cfa John Moores Central Lanchashire NRAO NRAO-Socorro NASA Minnesota Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia Columbia STSci	The E-Nova Project: Explosion Dynamics Traced in Detail by the VLA	0.9,2,6,20	29	0.97
AC1166	Corsi, A. Berger, E. Cenko, B. Dhuga, K. Kulkarni, S. Laskar, T. Margutti, R. Perley, D. Soderberg, A. Sonbas, E. Zauderer, B.	GW Univ. Cfa Calif., Berkeley GW Univ. Caltech Cfa Cfa Caltech Cfa Adiyaman Univ. Cfa	Late-time follow-up of GRB 130215A with the VLA	1.3,6,10	4,12,25	5.83
AG893	Gastaldello, F. Vergani, D. Wolter, A.	INAF INAF INAF	The tidal interaction of the NGC 5054 spiral with the NGC 5044 group	20	12,13,14,15, 20,27,28	4.68
AG895	Green, D. Hwang, U. Katsuda, S. Long, K. Petre, R. Reynolds, S. Williams, B. Winkler, F.	Cambridge NASA RIKEN STSci NASA North Carolina NASA Middlebury	Observations of G327.6+14.6=SN AD1006: high-resolution continuum plus HI	20	11,12,13	5.60
AH1083	Heesen, V. Beck, R. Crocker, R. Dettmar, R. Hinton, J. Jones, D. Ohm, S. Ott, J.	Hertfordshire MPIfR MPIA Ruhr-Bochum Leicester MPIA Univ. of Leeds NRAO-Socorro	Radio filaments and the WMAP haze from Fermi bubbles in nearby galaxies	2,10	12	3.92
AH1095	Hallinan, G. Bourke, S. Burgasser, A. Kao, M.	Caltech Caltech Calif., San Diego Caltech	Bridging the Gap: Detecting the magnetic fields of the coolest brown dwarfs	6	18,19,21,25, 26,27	23.00
AH1097	Hallinan, G. Bourke, S. Rupen, M. Villadsen, J.	Caltech Caltech NRAO-Socorro Caltech	Capturing Sweeping Radio Bursts from Nearby Active Stars	10,20	26	4.09
AH1104	Hallinan, G. Bourke, S. Villadsen, J.	Caltech Caltech Caltech	The Thermal Atmospheres of Nearby Solar-type Stars	2,3.6	18,19,21,25, 26	10.41
AH1105	Horesh, A. Corsi, A. Frail, D. Kulkarni, S. Ofek, E.	Caltech Caltech NRAO-Socorro Caltech Weizmann Inst.	A Search for Collisionless Shocks in Recent Nearby Type IIn Supernovae	0.7,1.3,6	19,21	0.97
AH1107	Horesh, A. Bourke, S. Hallinan, G. Kulkarni, S. Mooley, K.	Caltech Caltech Caltech Caltech Caltech	Radio Observations of Recent Tidal-Disruption-Event Candidate	1.3,6,10,2 0	4	1.44



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Progn	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AK798	Klaassen, P. Johnson, K. Mottram, J. Peters, T. Zapata, L.	Leiden MPIA Leiden Univ. of Zurich UNAM	Accretion Dynamics and HII Regions	0.7	27	3.99
AK800	Kilborn, V. Drinkwater, M. Meurer, G. Sweet, S.	Swinburne Univ. of Queensland Johns Hopkins Univ. of Queensland	The Star Formation Efficiency of Galaxies in Groups	20	19,21,24	11.16
AK801	Kepley, A. Balsler, D. Chomiuk, L. Goss, M. Johnson, K. Pisano, D.J.	Uva NRAO CfA NRAO-Socorro Uva West Virginia	Measuring the Dense Ionized Gas in Dwarf Starburst Galaxies Using RRLs	0.9	9,11	4.36
AK803	Kanekar, N. Carilli, C. Menten, K.	TIFR NRAO-Socorro MPIFR	A Blind Ka- and Q-band survey for molecular absorption at high redshift	0.7	4,19,27	8.44
AL831	Liu, H. Chou, M. Forbrich, J. Galvan-Madrid, R. Ho, P. Hora, J. Michihiro, T. Rodriguez, L. Sanchez, J. Yan, C. Zhang, Q.	CfA ASIAA CfA ESO CfA CfA ASIAA UNAM IAA ASIAA CfA	The Jet-Accretion Connection in Young Stellar Objects	2,3.6	4,5,26,27,28,29	7.18
AL832	Leroy, A. Beck, R. Bolatto, A. Braun, R. Chomiuk, L. Dalcanton, J. de Blok, E. Giessuebel, R. Johnson, M. Kepley, A. Krumholz, M. Lee, C. Mao, S. Rosolowsky, E. Walter, F.	NRAO-Socorro MPIFR Univ. of Maryland ATNF CfA Univ. of Washington NFRA MPIFR NRAO Uva Calif., Santa Cruz Uva Wisc., Madison UBC MPIA	The L-Band local group legacy: Resolving the ISM and Star Formation Cycle	20	14,15,27	3.67
AL836	Lang, C. Brentjens, M. Law, C. Mao, S. Mills, E. Morris, M. Ott, J. Staguhn, J. Zweibel, E.	Iowa ASTRON Calif., Berkeley Wisc., Madison Calif., Los Angeles Calif., Los Angeles NRAO-Socorro Maryland Wisc., Madison	The nature and origin of the galactic center radio arc: A VLA faraday study	0.7,0.9,3.6,6,10,20	15,28	4.18
AM1183	Murgia, M. Brown, S. Carretti, E. Feretti, L. Giovannini, G. Govoni, F. Vacca, V.	INAF CSIRO CSIRO INAF INAF INAF INAF	Single-dish and interferometric imaging for radio halos in Galaxy Clusters	20	2,5	3.91
AM1184	Mangum, J. Darling, J. Henkel, C. Kulow, J. Menten, K. Smullen, R.	NRAO Colo., Boulder MPIFR Colo., Boulder MPIFR Univ. of Wyoming	Imaging the Spatial Density within Starburst Galaxies	2,6	10,11,12	5.18

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AM1189	Middleton, M. Carpenter, J. Dickinson, H. Fender, R. Gandhi, P. Gehrels, N. Haberl, F. Henze, M. Hurley-Walker, N. Markoff, S. Miller-Jones, J. Roberts, T. Scaife, A. Walton, D.	Durham Caltech Stockholm Southampton JAXA NASA MPE MPE Cambridge Univ. van Amsterdam Curtin Durham Southampton Caltech	Observing Extragalactic Binaries to Reveal The Nature of Eddington Accretion	1.3,6	1,2,4,5,10,1 1,12	9.53
AM1193	Macgregor, M. Andrews, S. Hughes, M. Matthews, B. Ricci, L. Wilner, D.	Cfa Cfa Calif., Berkeley Herzberg Inst. Caltech Cfa	Testing Collisional Models of Planetesimals in the AU Mic Debris Disk	0.9	9,11	3.43
AM1197	Mills, E. Lang, C. Longmore, S. Meier, D. Morris, M. Ott, J. Sjouwerman, L.	UCLA Iowa ESO NMT UCLA NRAO-Socorro NRAO-Socorro	Non-Metastable NH <sub>3</sub> in the Galactic Center: The Distribution of the Densest Gas	1.3	12,19,24,26	8.91
AM1199	Menten, K. Beuther, H. Brunthaler, A. Carrasco-Gonzalez, C Claussen, M. Csengeri, T. Hofner, P. Ott, J. Pandian, J. Reid, M. Urquhart, J. Wyrowski, F.	MPIfR MPIA MPIfR MPIfR NRAO-Socorro MPIfR NMT NRAO-Socorro Hawaii., Manoa Cfa ATNF MPIfR	A comprehensive Galactic plane radio wavelength star formaion survey	6	2,16,17	14.41
AM1201	Momjian, E. Meier, D. Ott, J.	NRAO-Socorro NMT NRAO-Socorro	Resolved Physics and Chemistry in Nearby Star Forming Galaxies	0.9,1.3	11,23,24,26	13.25
AM1204	Mao, S. Gallagher III, J. Kepley, A. Robshaw, T. Stanimirovic, S. Zweibel, E.	Wisc., Madison Wisc., Madison UVA NRCC Wisc., Madison Wisc., Madison	Mapping the Magnetic Field Structure in the Interacting Antennae Galaxies	6,10,20	10,14	4.43
AM1210	Morris, M. Carretti, E. Crocker, R. Lang, C.	UCLA CSIRO MPI Iowa	Structure of the Galactic Center Magnetic Field-Climbing to Larger Scales	20	11	1.50
AP626	Pihlstrom, Y. Claussen, M. Sjouwerman, L.	UNM NRAO-Socorro NRAO-Socorro	On the Relation between Shock excited masers, CO and TeV Emission in the W28 SNR	0.7,0.9	4,7	3.7
AP628	Peretto, N. Andre, P. Fuller, G.	CEA CEA Manchester	Where do massive star get their mass from?	1.3	13,14,18,20	11.73
AR824	Rujopakarn, W. Clement, B. Egami, E. Ivison, R. Marrone, D. Narayanan, D. Richard, J. Rieke, G. Walth, G. Wang, R. Weiner, B.	Arizona Arizona Arizona Edinburgh Chicago Steward Obs. CRAL Arizona Arizona NRAO Steward Obs.	Probing the Star Formation Law with Lensed Star-Forming Galaxies at z=2-4	0.7,0.9,1. 3	14,18,27,28	7.94

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AR825	Riechers, D. Aravena, M. Capak, P. Carilli, C. da Cunha, E. Daddi, E. Dickinson, M. Ivison, R. Mao, M. Sargent, M. Scoville, N. Smail, I. Smolcic, V. Wagg, J. Walter, F.	Cornell ESO Caltech NRAO-Socorro MPIA CEA NOAO Edinburgh NRAO CEA Caltech Durham ESO ESO MPIA	Measuring the Dense Gas History of the Universe	0.9	1,2,4,5,6,7, 9,10,12,13,1 4,15,16,22,2 3,24,25,26,2 7,28	75.29
AR828	Royster, M. Yusef-Zadeh, F.	Northwestern Northwestern	Continuation of RRL Observations to Probe the Kinematics in the Galactic Center	3.6	6	2.40
AS1197	Stanimirovic, S. Begum, A. Dickey, J. Goss, M. Heiles, C. Hennebelle, P. Murray, C.	Wisc., Madison Wisc., Madison Tasmania NRAO-Socorro Calif., Berkeley Obs. de Paris Wisc., Madison	21-SPONGE: 21-cm Spectral line observations of Neutral Gas with the EVLA	20	29	1.74
AS1198	Smail, I. Ivison, R. Jean-Paul, K. Richard, J.	Durham Edinburgh Marseille-Provence Obs. de Lyon	A CO(1-0) survey at z=3.3-5.2 through a massive cluster lens	1.3	2	1.99
AS1202	Sharon, C. Baker, A. Harris, A. Lutz, D. Tacconi, L.	New Jersey., Rutgers New Jersey., Rutgers Univ. of Maryland MPE MPE	Gold gas in a multi-component submm galaxy with varying excitation conditions	0.9	12,13	3.90
AS1203	Storm, S. Arce, H. Chen, C. Mundy, L. Ostriker, E. Plunkett, A. Rosolowsky, E.	Univ. of Maryland Yale Univ. of Maryland Univ. of Maryland Univ. of Maryland Yale British Columbia	Connecting the Scales: VLA+GBT Large Area, high Resolution Ammonia Mapping	1.3	4,5	3.84
AS1208	Soderberg, A. Bartel, N. Bietenholz, M. Brunthaler, A. Chakraborti, S. Chevalier, R. Chomiuk, L. Dittmann, J. Fransson, C. Hamuy, M. Katz, B. Levesque, E. MacFadyen, A. Mazzali, P. Nakar, E. Pian, E. Pignata, G. Ray, A.	CfA York Univ. HarTRAO MPIFR TIFR UVA CfA CfA Stockholm Chile IAS Hawaii., Manoa New York MPA Tel Aviv Univ. INA Chile TIFR	The diversity of SNe Ibc and the Nature of the GRB-SN connection	1.3,3.6,6, 20	23,26	3.19
AS1209	Sarazin, C. Clarke, T. Farnsworth, D. Hogge, T. Rudnick, L. van Weeren, R. Wik, D.	UVA NRL Minnesota UVA Minnesota CfA NASA	Is the diffuse radio source in Abell 2061 a USS Cluster Halo, Relic, or Hybrid?	20	1	3.92
AS1210	Sahai, R. Claussen, M. Morris, M.	JPL NRAO-Socoro UCLA	Shocked and Scorched in the Cygnus Star Forming Region	0.9,1.3,2, 3.6	5	0.95
AS1213	Soderberg, A. Berger, E. Brunthaler, A. Gezari, S. Margutti, R. Zauderer, B.	CfA CfA MPIFR Johns Hopkins CfA CfA	Triggered EVLA Follow-up of New Tidal Disruption Events	1.3,3.6,6, 20	31	0.92

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS1214	Sokoloski, J. Bode, M. Chomiuk, L. Eyres, S. Krauss, M. Mioduszewski, A. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Weston, J. Williams, B.	Columbia John Moores Cfa Central Lancashire NRAO NRAO-Socorro Minnesota Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia STSci	The E-Nova Project: Early Radio Light Curves for a Diverse Sample of Novae	0.9,1.3,2, 3.6,6	23	1.17
AT422	Torii, K. Enokiya, R. Fukui, Y. Kudo, N. Morris, M.	Nagoya Nagoya Nagoya Nagoya UCLA	Zeeman Splitting Measurements near the Galactic center	20	4	3.24
AV345	van der Werf, P. Danielson, A. Harris, A. Iverson, R. Smail, I. Swinbank, M.	Leiden Durham Univ. of Maryland Edinburgh Durham Durham	Confirmation of first 13CO and C18O 1-0 detections at high z	0.9	4,5	1.90
AV349	Verdes-Montenegro, L. Athanasoula, E. Bosma, A. Dobbs, C. Espada, D. Fernandez, M. Montes, J. Moreta, P. Munoz-Mateos, J. Scott, T. Sengupta, C. Vela, J. Yun, M.	IAA OAMP OAMP Univ. of Exeter NAO IAA IAA IAA NRAO IAA IAA ESO Univ. Massachusetts	The extended HI envelope of the isolated galaxy CIG 96	20	11,12	2.85
AV354	van Dishoeck, E. Andrews, S. Birnstiel, T. Brown, J. Matthews, G. van der Marel, N.	Leiden Cfa Cfa Cfa Cfa Hawaii., Manoa Leiden	A gigantic dust trap in IRS 48: finding the largest grains	0.9	8	1.20
AW846	Wang, K. Busquet, G. Liu, H. Lu, X. Pillai, T. Tan, J. Wu, Y. Zhang, Q.	Cfa INAF Cfa Cfa Cfa Florida Peking Univ. Cfa	Ammonia in Filamentary IR-dark Clouds	1.3	13,16,18,20, 21,22,23,26	15.45
AW847	Walker, L. Hibbard, J. Johnson, K. Kepley, A.	Uva NRAO Uva Uva	The role of gas processing in galaxy evolution	20	27	1.44
AZ211	Zauderer, B. Berger, E. Bietenholz, M. Brunthaler, A. Chakraborti, S. Pooley, G. Rupen, M. Sari, R. Shcherbakov, R. Soderberg, A.	Cfa Cfa York Univ. MPIfR TIFR Cambridge NRAO-Socorro Hebrew Univ. Univ. of Maryland Cfa	Continued Monitoring of the Relativistic outflow from a Tidal Disruption Event	0.9,1.3,6, 20	21	3.03
AZ215	Zhang, Q. Girart, J. Ho, P. Liu, H. Lu, X. Qiu, K.	Cfa IEEC Cfa Cfa Cfa MPIfR	Filaments, Star Formation and Magnetic Fields	1.3	12	0.97

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AZ216	Zhang, Q. Goldsmith, P. Kauffmann, J. Lu, X. Menten, K. Pillai, T. Wang, K.	CfA JPL JPL CfA MPIFR CfA CfA	Star Formation in the Central Molecular Zone	1.3	11,12,24	6.93
S50386	cenko, B. Bloom, J. Chandra, P. Filippenko, A. Fiona, H. Frail, D. Kulkarni, S. Perley, D. Prochaska, J. Rana, V.	Calif., Berkeley Calif., Berkeley RMCC Calif., Berkeley Caltech NRAO-Socorro Caltech Caltech Calif., Santa Cruz Caltech	Afterglows, Redshifts, and Calorimetry of Fermi Gamma-Ray Bursts	20	15,24	3.44
SE0242	Trigo, M. Migliari, S. Miller-Jones, J.	ESO Barcelona Curtin Univ.	Probing the disc wind-jet connection in black hole transients with multiwavelength observations	20	28	0.96
SE0824	Haggard, D. Heinke, C. Roberts, D. Yusef-Zadeh, F.	Northwestern Univ. of Alberta Northwestern Northwestern	Joint Chandra/EMM/EVLA Monitoring of the Gas Cloud G2 as it Encounters Sgr A*	20	25	6.87
SE0851	Fruchter, A. Cenko, S. Graham, J. Holland, S. Levan, A. Misra, K. Pe'er, A. Tanvir, N.	STScI Calif., Berkeley STScI NASA Univ. of Warwick STScI CfA Leicester	The Astrophysics of the Most Energetic Gamma-Ray Bursts	20	7	2.42

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	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	426.28	58.49
Unscheduled	29.06	3.99
Maintenance	52.54	7.21
Test/Calc	220.89	30.31
Weather	0.00	0.00
Power out	0.00	0.000
Holiday Shutdown	0.00	0.00
<b>Total</b>	<b>728.77</b>	<b>100.00</b>

Average downtime measured in antenna hours was 3.45% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Antenna	0.45
Correlator	15.79
Cryogenics	3.53
Fiber Optics	6.04
Focus/Rotation	3.12
Front End	49.17
HVAC	0.42
LO/IF	4.94
Other	7.42
Recommissioning	7.44
Servo	1.48
Site Power	0.07
Software	0.14
<b>Total</b>	<b>100.00</b>

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA357	Adams, E. Cannon, J. Giovanelli, R. Haynes, M. Rhode, K. Salzer, J.	Cornell Macalester Cornell Cornell Indiana Indiana	Ultra-Compact High Velocity Clouds: Candidate Galaxies in the Local Group	20	24	1.87
AB1441	Best, P. Geach, J. Ibar, E. Iverson, R. Smail, I. Sobral, D. Swinbank, M.	Edinburgh McGill Univ. Edinburgh Edinburgh Durham Univ. of Leiden Durham	Molecular gas in normal galaxies at $z > 2$ : a targeted and blind survey approach	0.9	4	0.99
AB1442	Balser, D. Anderson, L. Bannia, T. Wenger, T.	NRAO West Virginia Boston Boston	Transgalactic Abundances in the Milky Way Disk	3.6	17	2.88
AB1443	Berger, E. Chakraborti, S. Chornock, R. Fong, W. Laskar, T. Margutti, R. Margutti, R. Menten, K. Metzger, B. Nakar, E. Sari, R. Soderberg, A. Zauderer, B.	Cfa TIFR Cfa Cfa Cfa Cfa Cfa MPIFR Princeton Tel Aviv Univ. Hebrew Univ. Cfa Cfa	New Insights on Gamma -Ray Bursts with the JVLA	1.3,6	23,27,29	3.35
AB1446	Bolatto, A. Cooper, M. Genzel, R. Herrera, R. Jameson, K. Leroy, A. Rosolowsky, E. Schreiber, N. Tacconi, L.	Maryland Arizona MPE Maryland Maryland NRAO Univ. of Okanagan MPE MPE	Driving Star Formation: Cold Molecular Gas Mass and Excitation in Galaxies at $z \sim 2$	0.9	6,7	3.96
AB1456	Babul, A. Basu, K. Bonafede, A. Dolag, K. Klein, U. Sommer, M.	Univ. of Victoria Bonn Jacobs Univ. MPA Bonn Bonn	A census of radio haloes in Planck-SZ selected galaxy cluster	20	7,12,14,17,23	4.29
AB1463	Bastian, T. Chen, B. Gary, D. White, S.	NRAO UVA New Jersey USAF	Dynamic imaging spectroscopy of coherent solar radio bursts II	10,20	23,25,28	11.25
AC1089	Chandra, P. Chevalier, R. Chugai, N. Fransson, C. Soderberg, A.	RMCC UVA Moscow Stockholm Cfa	Exploring the mysterious Type II in supernovae with the EVLA	1.3	22	0.47
AC1098	Corsi, A. Arcavi, I. Frail, D. Gal-Yam, A. Kulkarni, S. Mazzali, P. Ofek, E.	Caltech Weizmann Inst. NRAO-Socorro Weizmann Inst. Caltech MPA Caltech	Radio follow-up of "exotic" Ic SNe discovered by PTF	2,6,10	9	0.97
AC1115	Cannon, J. Adams, E. Dolphin, A. Elison, E. Giovanelli, R. Haynes, M. McQuinn, K. Ott, J. Saintonge, A. Salzer, J. Skillman, E.	Macalester Cornell Raytheon ICRAR Cornell Cornell Minnesota NRAO-Socorro MPE Indiana Minnesota	SHIELD: Re-Execution of Low-Resolution HI Imaging	20	2	1.9

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AC1116	Cannon, J. Giovannelli, R. Hallenbeck, G. Haynes, M. Jones, M. Koopmann, R. Leisman, L. Nichols, N. Rhode, K. Salzer, J. Troischt, P.	Macalester Cornell Cornell Cornell Cornell Union College Cornell Hartwick Univ. Indiana Indiana Hartwick Univ.	(Almost) Dark Galaxies Discovered by ALFALFA	20	9,10,11,14,15	10.16
AC1123	Cannon, J. Atek, H. Bruggen, M. Dolag, K. Hayes, M. Kunth, D. Mas-Hesse, M. Nagarajan, A. Ostlin, G. Pardy, S. Schaefer, D.	Maclaester Caltech Jacobs Univ. MPA IRAP IAP CSIC Bonn Stockholm Macalester Obs. de Geneve	HI Morphologies and Kinematics of the Lyman Alpha Reference Sample	20	3,5,14,16	14.78
AC1124	Clausesen, M. Menten, K. Patei, N. Sahai, R. Sjouerman, L. Young, K.	NRAO-Socorro MPIFR Cfa JPL NRAO-Socorro Cfa	An imaging spectral survey of the AGB carbon star IRC+10216 from 18-50 GHz	0.9	19,21,22,28,30	13.89
AC1128	Chitsazzadeh, S. Bourke, T. Di Francesco, J. Friesen, R. Langston, G. Pineda, J. Schnee, G. Tobin, J.	Univ. of Victoria Cfa Herzberg Inst. NRAO NRAO Manchester NRAO NRAO	Ammonia Observations of cores on the brink	1.3	7,21,22	11.58
AC1129	Corsi, A. Cenko, B. Dhuga, K. Frail, D. Kulkarni, S. Perley, D. Sombas, E.	Caltech Calif., Berkeley GW Univ. NRAO-Socorro Caltech Caltech Adiyaman Univ.	Probing the composition of Grb jets with JVLA: a quest for reverse shocks	0.7,1.3,3.6,6	20,29	5.93
AC1135	Iverson, R. Blain, A. Chapman, S. Reddy, N. Smail, I.	Edinburgh Caltech Cambridge NOAO Durham	CO(1-0) in the most overdense cluster known at $z > 2$ , Q1246+19	0.9	10,14,18,30	10.53
AD662	De Gasperin, F. Bruggen, M. Churazov, E. Cotton, W. Falcke, H. Forman, W. Intema, H. Merloni, A. Murgia, Matteo Orru, E. Owen, F. Venkata, U.	MPA Jacobs Univ. MPA NRAO Radbound Cfa NRAO-Socorro MPE INAF Radbound NRAO-Socorro NRAO-Socorro	Understanding M87: a multi-frequency campaign (VLA)	6,10	8,12,15	7.95
AF520	Fertig, D. Bernstein-Cooper, E. Cannon, J. Rosenberg, J.	George Mason Macalester Macalester George Mason	Extended Gas in an Unusual Galaxy Group	20	9,18,20	5.58
AH1092	Hallenbeck, G. Giovannelli, R. Haynes, M. Huang, S. Papastergis, E.	Cornell Cornell Cornell Cornell Cornell	Gas-Bearing Red Dwarf Ellipticals in Virgo: Re-accretion from the Cosmic Web?	20	23,24	3.68
AH1097	Hallinan, G. Bourke, S. Rupen, M. Villadsen, J.	Caltech Caltech NRAO-Socorro Caltech	Capturing sweeping radio bursts from nearby active stars	10,20	24	1.92



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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH1104	Hallinan, G. Bourke, S. Villadsen, J.	Caltech Caltech Caltech	The Thermal atmospheres of Nearby Solar-type stars	2,3,6	13,14,15,16, 20,21	13.68
AI168	Ivion, R. De Breuck, C. Wylezalek, D.	Edinburgh ESO ESO	Submillimeter-selected protoclusters at $z \sim 3-4$	1.3	1,7	2.53
AK803	Kanekar, N. Carilli, C. Menten, K.	TIFR NRAO-Socorro MPIfR	A Blind Ka-and Q-band survey for molecular absorption at high redshift	0.7	2,4,7,8,13	11.81
AL831	Liu, H. Chou, M. Forbrich, J. Galvan-Madrid, R. Ho, P. Hora, J. Michihiro, T. Rodriguez, L. Sanchez, J. Yan, C. Zhang, Q.	CfA Sinica CfA ESO CfA CfA Sinica UNAM IAA Sinca CfA	The Jet-Accretion Connection in Young Stellar Objects	2,3,6	26,28	2.20
AL835	Leroy, A. Beck, R. Bolatto, A. Braun, R. Chomiuk, L. Dalcanton, J. de Blok, E. Giessuebel, R. Johnson, M. Kepley, A. Krumholz, M. Lee, C. Mao, S. Meyer, J. Rosolowsky, E. Walter, F.	NRAO MPIfR Maryland ATNF CfA Washington NFRL MPIfR NRAO UVA Calif., Santa Cruz UVA NRAO-Socorro New York., Stony Bro Univ. of Okanagan MPIA	The L-Band local group legacy: Resolving the ISM and Star Formation Cycle	20	16,23,25	7.43
AL837	Lacy, M. Farrah, D. Mao, M. Petric, A. Ridgway, S. Urrutia, T.	NRAO Cornell NRAO-Socorro Caltech NOAO Caltech	The molecular gas reservoirs in normal and obscured high redshifts quasars	0.9,1.3	5,7,22	5.13
AM1183	Murgia, M. Brown, S. Carretti, E. Fertti, L. Giovannini, G. Govoni, F. Vacca, V.	INAF ATNF CSIRO INAF INAF INAF INAF	Single-dish and interferometric imaging of radio halos in galaxy clusters	20	3,10	1.92
AM1184	Mangum, J. Darling, J. Henkel, C. Kulow, J. Menten, K. Smullen, R.	NRAO Colo., Boulder MPIfR Colo., Boulder MPIfR Wyoming	Imaging the Spatial Density within Starburst Galaxies	2,6	13	1.99
AM1196	Menten, K. Alcolea, J. Brunthaler, A. Kaminski, T. Keller, D. Wyrowski, F.	MPIfR IGN MPIfR MPIfR MPIfR MPIfR	Addressing the Ammonia Enigma around evolved Stars	1.3	5	3.99
AM1199	Menten, K. Beuther, H. Brunthaler, A. Carrasco-Gonzalez, C. Claussen, M. Csengeri, T. Hogner, P. Ott, J. Pandian, J. Reid, M. Urquhart, J. Wyrowski, F.	MPIfR MPIA MPIfR MPIfR NRAO-Socorro MPIfR NMT NRAO-Socorro Hawaii., Manoa CfA ATNF MPIfR	A Comprehensive Galactic Plane radio wavelength star formation survey	6	3,6,7,8,9,11 ,12,15,16,20 ,29	37.15

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AM1200	Myers, S.	NRAO-Socorro	A 6-GHz Pilot Synoptic Survey of the COSMOS Field	6	4,29	1.89
AM1211	Monkiewicz, J. Bomans, D. Powell, D.	Arizona Ruhr-Bochum Stanford	The outflowing wind of the ultra-low metallic dwarf galaxy Sextans A	20	7,8	6.37
AN157	Nelson, T. Bode, M. Cheung, T. Chomiuk, L. Eyrres, S. Krauss, M. Kukai, K. Mioduszewski, A. O'Brien, T. Roy, N. Rupen, M. Sokoloski, J. Weston, J. Williams, B.	Minnesota John Moores NRL CfA Central Lancashire NRAO NASA NRAO-Socorro Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia Columbia Univ. STScI	The E-Nova Project: Understanding Gamma-Ray Emission in Classical Novae	0.9,2,6,20 Nelson	17,20,28	2.91
A0291	Osten, R. Reiners, A. Robrade, J. Schmitt, J. Stelzer, B.	STScI Univ. of Gottingen Univ. of Hamburg Univ. of Hamburg Univ. of Palermo	The nature of magnetic activity at the low-mass end of the Main sequence	3.6	6,27	9.69
AP626	Pihlstrom, Y. Claussen, M. Sjouwerman, L.	UNM NRAO-Socorro NRAO-Socorro	On the Relation between Shock excited Masers, CO and TeV emission in the W28 SNR	0.7,0.9	24,28	3.65
AP629	Pope, A. Alberts, S. Brodwin, M. Dey, A. Eisenhardt, P. Gonzalez, A. Stanford, S. Stern, D. Wagg, J. Zeimann, G.	Mass., Amherst Mass., Amherst Kansas City NOAO JPL Florida LLNL JPL ESO Calif., Davis	Tracing molecular gas in the highest redshift massive galaxy cluster	0.7	26	2.20
AR812	Rudnick, G. Alexander, P. Hodge, J. Lentati, L. Lotz, J. Momcheva, I. Papovich, C. Saintonge, A. Tran, K. Walter, F. Wilmer, C.	Kansas Cambridge MPIA Cambridge STScI Yale Texas., A&M MPE Texas., A&M MPIA Arizona	Detecting CO(1-0) in the star-forming galaxies of a z=1.62 galaxy cluster	0.7	4,18,20,27	9.38
AR825	Riechers, D. Aravena, M. Capak, P. Carilli, C. da Cunha, E. Daddi, E. Dickinson, M. Ivison, R. Mao, M. Sargent, M. Scoville, N. Smail, I. Smolcic, V. Wagg, J. Walter, F.	Cornell ESO Caltech NRAO-Socorro MPIA CEA NOAO Edinburgh NRAO-Socorro CEA Caltech Durham ESO ESO MPIA	Measuring the dense gas history of the universe	0.9	2,10,11,12,14,15,17,18,19,21,22,23,30	35.67
AR828	Royster, M. Yusef-Zadeh, F.	Northwestern Northwestern	Continuation of RRL observations to probe the kinematics in the galactic center	3.6	3,17	2.43
AR829	Rabidoux, K. Pisano, D.J.	West Virginia West Virginia	Measuring star formation in local luminous compact blue galaxies	0.7,2,6,20	5,8,22,24	5.67
AS1122	Schinnerer, E. Beck, R. Murphy, E. Tabatabaei, F.	MPIA MPIFR Carnegie Inst. MPIA	Unveiling the Physics of the Radio-IR Relation on Sub-kpc Scales	6,20	9,17	3.25

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS1194	Sanchez-Monge, A. Cesaroni, R. Hofner, P. Kurtz, S. Walmsley, C.	INA INA NMT UNAM INA	A Multilevel study of ammonia in hot molecular cores	1.3	25,30	4.49
AS1198	Smail, I. Iverson, R. Jean-Paul, K. Richard, J.	Durham Edinburgh Marselli-Provence CRAL	A CO(1-0) survey at z=3.3-5.2 through a massive cluster lens	1.3	2,4,6,10,20	14.59
AS1203	Storm, S. Arce, H. Chen, C. Mundy, L. Ostriker, E. Plunkett, A. Rosolowsky, R.	Maryland Yale Univ. of Maryland Maryland Univ. of Maryland Yale Univ. of Okanagan	Connecting the Scales: VLA+GBT Large Area, High Resolution Ammonia Mapping	1.3	7,13,21	7.62
AS1205	Sjouerman, L. Claussen, M. Creech-Eakman, M. Morris, M. Pihlstrom, Y. Rich, R.	NRAO-Socorro NRAO-Socorro NMT Calif., Los Angeles UNM Calif., Los Angeles	BAAde: Bulge Assymetries and Dynamic Evolution	0.7	1,4,5,19	21.55
AS1208	Soderberg, A. Bartel, N. Bietenholz, M. Brunthaler, A. Chakraborti, S. Chevalier, R. Chomiuk, L. Dittmann, J. Fransson, C. Hamuy, M. Katz, B. Levesque, E. MacFadyen, A. Mazzali, P. Nakar, E. Pian, E. Pignata, G. Ray, A.	CFA York Univ. HarTRAO MPIFR TIFR UVA CFA CFA Stockholm Univ. de Chile IAS Hawaii., Manoa New York MPA Tel Aviv Univ. INA Univ. de Chile TIFR	The Diversity of SNE Ibc and the Nature of the GRB-SN Connection	1.3,3.6,6,20	1,2,18,19,25,26	8.03
AS1209	Sarazin, C. Clarke, T. Farnsworth, D. Hogge, T. Rudnick, L. van Weeren, R. Wik, D.	UVA NRL Minnesota UVA Minnesota CFA NASA	Is the diffuse radio source in Abell 2061 a USS cluster halo, relic, or hybrid?	20	9	3.87
AS1214	Sokoloski, J. Bode, M. Chomiuk, L. Krauss, M. Mioduszewski, A. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Weston, J. Williams, B. Wyres, S.	Columbia John Moores CFA NRAO NRAO-Socorro Minnesota Jodrell Bank NRAO NRAO-Socorro Columbia STScI Central Lancashire	The E-Nova Project: Early Radio Light Curves for a diverse sample of novae	0.9,1.3,2,3.6,6	4,19	2.67
AS1216	Stil, J. Taylor, A.	Calgary Calgary	Intergrated Polarization of Spiral Galaxies	10	6	2.95
AT421	Tadaki, K. Hatsukade, B. Hayashi, M. Kodama, T. Kohno, K. Koyama, Y. Shimakawa, R. Suzuki, K. Tamura, Y. Tanak, I.	Tokyo Koto NAO NAO Tokyo Durham NAO Tokyo Tokyo NAOJ	The accelerated star formation in an extremely dense proto-cluster at z=2.5	0.9	11,12,24	10.22

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AT422	Torii, K. Fukui, Y. Kudo, N. Morris, M.	Nagoya Univ. Nagoya Univ. Nagoya Univ. Calif., Los Angeles	Zeeman Splitting Measurements near the Galactic center	20	16	2.36
AV345	van der Werf, P. Danielson, A. Harris, A. Iverson, R. Smail, I. Swinbank, M.	Leiden Durham Maryland Edinburgh Durham Durham	Confirmation of first 13CO and C18O 1-0 detections at high z	0.9	4,6,13,19,20 ,25,26,30	10.49
AW846	Wang, K. Busquet, G. Liu, H. Lu, X. Pillai, T. Tan, J. Wu, Y. Zhang, Q.	CfA INAF CfA CfA CfA Florida Peking Univ. CfA	Ammonia in Filamentary IR-dark Clouds	1.3	6,13,14,18,2 1	14.44
AW847	Walker, L. Hibbard, J. Johnson, K. Kepley, A.	UVA NRAO UVA UVA	The role of gas processing in galaxy evolution	20	1	1.47
AY226	Yusef-Zadeh, F. Roberts, D. Wardle, M.	Northwestern Northwestern Macquarie	Polarization and Spectral Index Studies of a Jet-like Feature from Sgr A*	0.7,0.9	25	0.94
AZ219	Zhang, Z. Frayer, D. Gao, Y. Henkel, C. Tan, Q. Wang, Z. Zhao, Y.	MPIfR NRAO Chinese Academy MPIfR Chinese Academy Nanjing Chinese Academy	Resolving CS J=1.0 in local (U) LIRG with the JVLA	0.7	5	1.75
AZ220	Zwaan, M. Briggs, F. Briggs, A. Meyer, M. Sadler, E. Staveley-Smith, L.	ESO ANU ESO Western Australia Sydney Western Australia	First measurement of the cosmic molecular mass density at z=1.6	0.7	1,3	6.51
BB321	Braatz, J. Condon, J. Constantin, A. Gao, F. Greene, J. Henkel, C. Impellizzeri, V. Kuo, C. Litzinger, E. Lo, K.Y. Reid, M. Wagner, J. Zhao, W.	NRAO NRAO James Madison NRAO Princeton MPIfR NRAO UVA Wuerzburg NRAO CfA MPIfR Shanghai	The Megamaser Cosmology Project VI	1.3	12,13,14,15	30.08
SE0124	Berger, E. Williams, P. Zauderer, A.	CfA Calif., Berkeley CfA	The Topology of Magnetic fields and coronae at the bottom of the main sequence	20	28	9.64
SE0242	Trigo, N. Migliari, S. Miller-Jones, J.	ESO Barcelona Curtin	Probing the disc wind-jet connection in black hole transients with multiwavelength observations	20	25	0.92

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	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	443.56	63.86
Unscheduled	25.35	3.65
Maintenance	40.53	5.83
Test/Calc	185.17	26.66
Weather	0.00	0.00
Power out	0.00	0.000
Holiday Shutdown	0.00	0.00
<b>Total</b>	<b>694.61</b>	<b>100.00</b>

Average downtime measured in antenna hours was 5.41% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Antenna	0.23
Correlator	3.36
Cryogenics	4.39
Fiber Optics	5.65
Focus/Rotation	1.76
Front End	20.95
LO/IF	13.67
Mechanical	0.06
Other	2.87
Recommissioning	17.84
Servo	0.59
Site Power	0.27
Software	18.90
Weather	9.45
<b>Total</b>	<b>100.00</b>

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Progn	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA358	Andrews, S. Birstiel, T. Chandler, C. Kastner, J. Rosenfeld, K. Wilner, D.	CfA Ludwig-Maximilians NRAO-Socorro Rochester Inst. CfA CfA	Particle growth in the protoplanetary disk around V4046 Sgr	0.7,0.9,1.3,2,3.6,6	16	1.24
AB1441	Best, P. Geach, J. Ibar, E. Ivison, R. Smail, I. Sobral, D. Swinbank, M.	Edinburgh McGill Univ. Edinburgh Edinburgh Durham Univ. of Leiden Durham	Molecular gas in normal galaxies at $z > 2$ : a targeted and blind survey approach	0.9	14	1.25
AB1443	Berger, E. Chakraborti, S. Chormock, R. Fong, W. Laskar, T. Margutti, R. Menten, K. Metzger, B. Nakar, E. Sari, R. Soderberg, A. Zauderer, B.	CfA TIFR CfA CfA CfA MPIFR Princeton Tel Aviv Univ. Hebrew Univ. CfA CfA	New Insights on Gamma-Ray Bursts with the JVLA	1.3,6	14	0.97
AB1445	Bonafede, A. Bruggen, M. Ebeling, H. Edge, A. Giovannini, G. Hoeft, M. Klein, U. van Weeren, R. Vazza, F.	Jacobs Univ. Jacobs Univ. Hawaii., Manoa Durham INAF Thueringer Bonn Unvi. of Leiden Jacobs Univ.	Radio halos in galaxy clusters: Detection of the steepest spectrum known so far	20	4	0.94
AB1446	Bolatto, A. Cooper, M. Genzel, R. Herrera, R. Jameson, K. Leroy, A. Rosolowsky, E. Schreiber, N. Tacconi, L.	Univ. of Maryland Univ. of Arizona MPE Univ. of Maryland Univ. of Maryland NRAO-Socorro Univ. of Okanagan MPE MPE	Driving Star Formation: Cold Molecular Gas Mass and Excitation in Galaxies at $z \sim 2$	0.9	2,8,10,11,24	19.62
AB1448	Blomme, R. Naze, Y. Prinja, R. Rauw, G. Volpi, D.	Obs. de Belgique Univ. de Liege London Univ. de Liege Obs. de Belgique	The Colliding Winds of the Massive Early-Type Binary 9 Sgr	3.6,6,20	4,21	0.98
AB1456	Babul, A. Basu, K. Bertoldi, F. Bonafede, A. Bruggen, M. Dolag, K. Klein, U. Nagarajan, A. Sommer, M.	Univ. of Victoria Bonn Bonn Jacobs Univ. Jacobs Univ. MPA Bonn Bonn Bonn	A census of radio haloes in Planck-SZ selected galaxy clusters	20	1,3,9,11,16,17,18,31	9.39
AC1089	Chandra, P. Chevalier, R. Chugai, N. Fransson, C. Soderberg, A.	RMCC Uva Moscow Stockholm CfA	Exploring the mysterious Type II <sub>n</sub> Supernovae with the EVLA	1.3	9	1.00
AC1114	Cannon, J. Adams, E. Bernstein-Cooper, E. Giovanelli, R. Haynes, M. McQuinn, K. Rhode, K. Salzer, J. Skillman, E.	Macalester Cornell Macalester Cornell Cornell Minnesota Indiana Indiana Minnesota	Leo P: A new extreme dwarf galaxy discovered by ALFALFA	20	23	4.02

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AC1115	Cannon, J. Adams, E. Dolphin, A. Elson, E. Giovanelli, R. Haynes, M. McQuinn, K. Ott, J. Saintonge, A. Salzer, J. Skillman, E.	Macalester Cornell Raytheon ICRAR Cornell Cornell Minnesota NRAO-Socorro MPE Indiana Minnesota	SHEILD: Re-Execution of Low-Resolution HI Imaging	20	25,27	3.88
AC1118	Clements, D. Dannerbauer, H. Gonzalez-Nuevo, J. Harris, A. Ivison, R. Leeuw, L. Riechers, D.	Imperial College Univ. Wien Cantabria Univ. of Maryland Edinburgh NASA Cornell	H-ATLAS: A z=3.26 Starbursting Galaxy Cluster found by planck and Herschel	0.9	7,16	5.89
AC1123	Cannon, J. Atek, H. Hayes, M. Kunth, D. Mas-Hesse, M. Ostlin, G. Pardy, S. Schaerer, D.	Macalester Caltech IAP IAP CSIC Stockholm Macalester Obs. de Geneve	HI Morphologies and Kinematics of the Lyman Alpha Reference Sample	20	3,26,30	14.22
AC1128	Chitsazzadeh, S. Bourke, T. Di Francesco, J. Friessen, R. Langston, G. Pineda, J. Schnee, S. Tobin, J.	Univ. of Victoria Cfa Herzberg Inst. NRAO NRAO Manchester NRAO NRAO	Ammonia Observations of Cores on the Brink	1.3	5,9,11,14,16 20,25,26,28	25.79
AC1134	Chomiuk, L. Bode, M. Eyres, S. Krauss, M. Mioduszewski, A. Mukai, K. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Solloski, J. Weston, J. Williams, B.	Cfa John Moores Central Lancashire NRAO NRAO-Socorro NASA Minnesota Manchester NRAO-Socorro NRAO-Socorro Columbia Columbia STScI	The E-Nova Project: Explosion Dynamics Traced in Detail by the VLA	0.9,2,6,20	6,7,8	3.09
AD645	Duc, P. Appleton, P. Belles, P. Boquien, M. Bournaud, F. Braine, J. Brinks, E. Gallinao, F. Leroy, A. Lisenfeld, U. Walter, F.	CEA Caltech CEA OAMP CEA Obs. de Bordeaux Hertfordshire CEA NRAO-Socorro Univ. de Granada MPIA	Chaotic THINGS: Turbulent ISM Conditions in the HI Interacting Galaxy Survey	20	22,25,29	9.30
AD658	Darling, J. Frail, D.	Colo., Boulder NRAO-Socorro	High velocity masers in the galactic center: A new probe of general relativity	0.7,1.3	4	1.92
AD662	De Gasperin, F. Bruggen, M. Churazov, E. Cotton, W. Falcke, H. Forman, W. Intema, H. Merloni, A. Murgia, M. Orru, E. Owen, F. Venkata, U.	MPA Jacobs Univ. MPA NRAO Radboud Cfa NRAO-Socorro MPE INAF Radboud NRAO-Socorro NRAO-Socorro	Understanding M87: a multi-frequency campaign (VLA)	6,10	4,23	5.91

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AD667	DeCesar, M. Brandt, T. Hewitt, J.	Univ. of Maryland NASA NASA	Spectral breaks in Pulsar wind nebulae	0.9,1.3,3.6	16,23	1.98
AG888	Giessuebel, R. Beck, R. Berkuijsen, E. Fletcher, A. Mulcahy, D.	MPIfR MPIfR MPIfR Newcastle Univ. MPIfR	Magnetic Field Tomography of M31	10	17,23	0.78
AG891	Ginsburg, A. Bally, J. Battersby, C. Becklin, E. Darling, J. Klein, R. Koda, J. Sankrit, R. Scoville, N. Smith, E. Smith, R. Youngblood, A.	Colo., Boulder Colo., Boulder Colo., Boulder UCLA Colo., Boulder USRA Stony Brook USRA Caltech NASA Heidelberg Colo., Boulder	Massive stars and ionized and molecular gas in the W51 complex	2,6	2	1.50
AG899	Coddi, C. Ricci, L.	ESO Caltech	When does dust grain growth start in star formation ?	0.7,1.3,3.6	21	1.00
AI145	Irwin, J. Beck, R. Benjamin, R. Dettmar, R. English, J. Heald, G. Henriksen, R. Krause, M. Li, J. Murphy, E. Oosterloo, T. Porter, T. Rand, R. Saikia, D.J. Strong, A. Walterbos, R. Wang, D.	Queen's Univ. MPIfR Wisc., Whitewater RUB Univ. of Manitoba ASTRON Queen's Univ. MPIfR Nanjing Caltech ASTRON Stanford UNM TIFR MPE NMSU Mass., Amherst	CHANG-ES: Continuum HALos in Nearby Galaxies--an EVLA Survey	6,20	17,28	8.88
AI168	Iverson, R. De Breuck, C. Wylezalek, D.	Edinburgh ESO ESO	Submillimeter-Selected Protoclusters at $z \sim 3.4$	1.3	31	0.46
AK799	Kale, R. Giacintucci, S. Markevitch, M. Venturi, T. Wik, D.	INAF Univ. of Maryland Cfa INAF NASA	Deep L band imaging of a new radio halo and a relic in Planck clusters	20	17	1.94
AK802	Konar, C. Wang, W.	Academia Sinica Academia Sinica	Which accretion mode is on during quiescent phase of jet activity in AGN?	6,10	6	1.39
AK803	Kanekar, N. Carilli, C. Menten, K.	TIFR NRAO-Socorro MPIfR	A blind Ka-and Q-band survey for molecular absorption at high redshift	0.7	3,12,15,24,25,26,28,29	16.99
AL831	Liu, H. Chou, M. Forbrich, J. Galvan-Madrid, R. Ho, P. Hora, J. Michihiro, T. Rodriguez, L. Sanchez, J. Yan, C. Zhang, Q.	Cfa Academia Sinica Cfa ESO Cfa Cfa Academia Sinica UNAM IAA Academia Sinica Cfa	The Jet-Accretion Connection in Young Stellar Objects	2,3.6	4,5	1.42



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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AL832	Leroy, A. Beck, R. Bolatto, A. Braun, R. Chomiuk, L. Dalcanton, J. de Blok, E. Giessuebel, R. Johnson, M. Kepley, A. Krumholz, M. Lee, C. Mao, S. Meyeran, J. Rosolowsky, E. Walter, F.	NRAO-Socorro MPIfR Univ. of Maryland ATNF CfA Univ. of Washington NFRL MPIfR NRAO UVA Calif., Santa Cruz UVA NRAO-Socorro Stony Brook Univ. Univ. of Okanagan MPIA	The L-Band Local Group Legacy: Resolving the ISM and Star Formation Cycle	20	16	3.92
AL837	Lacy, M. Farrah, D. Mao, M. Petric, A. Ridgway, S. Urrutia, T.	NRAO Cornell NRAO-Socorro Caltech NOAO Caltech	The molecular gas reservoirs in normal and obscured high redshift quasars	0.9	14,29,31	5.15
AM1176	Mulchahy, D. Beck, R. Damas, A. Fletcher, A. Giessuebel, R. Heald, G.	MPIfR MPIfR MPIfR Newcastle Univ. MPIfR ASTRON	Vertical magnetic fields and outflows in the face-on spiral galaxy NGC 628	10	3	4.62
AM1181	Murphy, E. Condon, J. Helou, G. Meier, D. Momjian, E. Ott, J. Schinnerer, E. Turner, J.	Carnegie Inst. NRAO Caltech NMT NRAO-Socorro NRAO-Socorro MPIA Calif., Los Angeles	The Star Formation in Radio Survey: Completion of JVLA Ka-Band Observations	0.9	2,5,7,8,10	14.33
AM1183	Murgia, M. Brown, S. Carretti, E. Feretti, L. Giovannini, G. Govoni, F. Vacca, V.	INAF CSIRO CSIRO INAF INAF INAF INAF	Single-dish and interferometric imaging of radio halos in Galaxy Clusters	20	24	1.96
AM1184	Mangum, J. Darling, J. Henkel, C. Kulow, J. Menten, K. Smullen, R.	NRAO Colo., Boulder MPIfR Colo., Boulder MPIfR Univ. of Wyoming	Imaging the Spatial Density within Starburst Galaxies	2,6	1,9,11,16,29,30	23.67
AM1189	Middleton, M. Carpenter, J. Dickinson, H. Fender, R. Gandhi, P. Gehrels, N. Haberl, F. Henze, M. Hurley-Walker, N. Markoff, S. Miller-Jones, J. Roberts, T. Scaife, A. Walton, D.	Durham Caltech Stockholm Southampton JAXA NASA MPE MPE Canbridge Univ. van Amsterdam Curtin Durham Southampton Caltech	Observing extragalactic binaries to reveal the nature of Eddington accretion	1.3,6	6,9,15,21,22,23,24	7.95

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AM1199	Menten, K. Beuther, H. Brunthaler, A. Carrasco-Gonzalez, C Claussen, M. Csengeri, T. Hofner, P. Ott, J. Pandian, J. Reid, M. Urquhart, J. Wyrowski, F.	MPIfR MPIA MPIfR MPIfR NRAO-Socorro MPIfR NMT NRAO-Socorro Hawaii., Manoa CfA ATNF MPIfR	A comprehensive galactic plane radio wavelength star formation survey	6	25,29,31	7.62
AN154	Wroczynski, B. Adebahr, B. Beck, R. Bomans, D. Soida, M. Urbaink, M.	Jagiellonian RUB MPIfR RUB Jagiellonian Jagiellonian	Compact galaxy groups: tracing the relic of past intruder?	6	9,10	2.99
AN157	Chomiuk, L. Cheung, T. Krauss, M. Mioduszewski, A. Nelson, T. Roy, N. Rupen, M. Sokoloski, J. Weston, J. Williams, B.	CfA NRL NRAO NRAO-Socorro Univ. of Minnesota NRAO-Socorro NRAO-Socorro Columbia Columbia STScI	The E-Nova Project: Understand Gamma-Ray Emission in Classical Novae	0.9,2,6,20	5	1.00
A0291	Osten, R. Reiners, A. Robrade, J. Schmitt, J. Stelxer, B.	STScI Univ. of Gottingen Univ. Hamburg Univ. Hamburg Univ. of Palermo	The nature of magnetic activity at the low-mass end of the main sequence	3.6	5	2.85
AP626	Pihlstrom, Y. Claussen, M. Sjouwerman, L.	UNM NRAO-Socorro NRAO-Socorro	On the relation between shock excited masers, CO and TeV emission in the W28 SNR	0.7,0.9	17	1.98
AR812	Rudnick, G. Alexander, P. Hodge, J. Lentati, L. Lotz, J. Momcheva, I. Papovich, C. Saintonge, A. Tran, K. Walter, F. Wilmer, C.	Univ. of Kansas Cambridge MPIA Cambridge STScI Yale Texas., A&M MPE Texas., A&M MPIA Arizona	Detecting Co(1-0) in the star-forming galaxies of a z=1.62 galaxy cluster	0.7	25,31	9.88
AR816	Ricci, L. Birnstiel, T. Testi, L.	Caltech Ludwig-Maximilians ESO	Investigating grain growth in the disk of a young brown dwarf	0.7,0.9,1.3	10,11,12,13,29,30	18.71
AR817	Roy, N. Chengalur, J. Datta, A. Momjian, E. Sarma, A.	NRAO-Socorro TIFR Colo., Boulder NRAO-Socorro DePaul Univ.	CCS 22.3 GHz Zeeman observations of the molecular core TMC-1C	1.3	1,2,6,11,12,19,24,25,29	19.91
AR820	Roy, N. Krishna, G.	NRAO-Socorro TIFR	A sensitive search for HI 21 cm emission from superdisks in large radio galaxies	20	19	2.45
AR825	Riechers, D. Aravena, M. Capak, P. Carilli, C. da Cunha, E. Daddi, E. Dickinson, M. Iverson, R. Mao, M. Sargent, M. Scoville, N. Smail, I. Smolcic, V. Wagg, J. Walter, F.	Cornell ESO Caltech NRAO-Socorro MPIA CEA NOAO Edinburgh NRAO-Socorro CEA Caltech Durham ESO ESO MPIA	Measuring the Dense Gas History of the Universe	0.9	1,2,3,4,6,7,8,9,10,11,12,14,15,16,17,18,19,20,21,22,23,27,31	80.47
AR828	Royster, M. Yusef-Zadeh, F.	Northwestern Univ. Northwestern Univ.	Continuation of RRL observations at PROBE the kinematics in the galactic center	3.6	16,18,23	2.91

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS1122	Schinnerer, E. Beck, R. Murphy, E. Tabatabaei, F.	MPIA MPIFR Carnegie Inst. MPIA	Unveiling the Physics of the Radio-IR Relation on Sub-KPC Scales	6,20	29	0.45
AS1172	Stockdale, C. Bauer, F. Immler, S. Lien, A. Marcaide, J. Panagia, N. Pooley, D. Ryder, S. Sramek, R. van Dyk, S. Weiler, K. Williams, C.	Marquette Univ. STScI NASA GSFC Univ. of Valencia STScI MIT AAO NRAO Caltech NRL MIT	ToO Observations of Core Collapse Supernovae (Type II)	1.3,2,3.6,6,10	23,31	1.99
AS1194	Sanchez-Monge, A. Cesaroni, R. Hofner, P. Kurtz, S. Walmsley, C.	INA INA NMT UNAM INA	A multilevel study of ammonia in hot molecular cores	1.3	28	1.91
AS1202	Sharon, C. Baker, A. Harris, A. Lutz, D. Tacconi, L.	New Jersey., Rutgers New Jersey., Rutgers Univ. of Maryland MPE MPE	Cold gas in a multi-component submm galaxy with varying excitation conditions	0.9	29,30,31	5.98
AS1203	Storm, S. Arce, H. Chen, C. Mundy, L. Ostriker, E. Plunkett, A. Rosolowsky, E.	Univ. of Maryland Yale Univ. Univ. of Maryland Univ. of Maryland Univ. of Maryland Yale Univ. Univ. of Okanagan	Connecting the Scales: VLA+GBT Large Area, High Resolution Ammonia Mapping	1.3	14,16,28	9.09
AS1205	Sjouerman, L. Claussen, M. Creech-Eakman, M. Morris, M. Pihlstrom, Y. Rich, R.	NRAO-Socorro NRAO-Socorro NMT Calif., Los Angeles UNM Calif., Los Angeles	BAaDE: Bulge Asymmetries and Dynamic Evolution	0.7	1,2,3,7,10,12,15,24,26,30	51.09
AS1208	Soderberg, A. Bartel, N. Bietenholz, M. Brunthaler, A. Chakraborti, S. Chevalier, R. Chomiuk, L. Dittmann, J. Fransson, C. Hamuy, M. Katz, B. Levesque, E. MacFadyen, A. Mazzali, P. Nakar, E. Pian, E. Pignata, G. Ray, A.	CfA York Univ. HarTRAO MPIFR TIFR UVa CfA CfA Stockholm Univ. de Chile IAS Hawaii., Manoa New York MPA Tel Aviv Univ. INA Univ. de Chile TIFR	The diversity of SNe Ibc and the Nature of the GRB-SN Connection	1.3,3.6,6,20	8,9,13,17,20,21,22	8.93
AS1210	Sahai, R. Claussen, M. Morris, M.	JPL NRAO-Socorro Calif., Los Angeles	Shocked and Scorched in the Cygnus Star Forming Region	0.9,1.3,2,3.6	21	1.50
AS1214	Sololoski, J. Bode, M. Chomiuk, L. Eyles, S. Krauss, M. Mioduszewski, A. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Weston, J. Williams, B.	Columbia John Moores CfA Central Lancashire NRAO NRAO-Socorro Minnesota Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia STScI	The E-Nova Project: Early Radio Light Curves for a Diverse Sample of Novae	0.9,1.3,2,3.6,6	22	1.50
AS1216	Stil, J. Taylor, A.	Calgary Calgary	Integrated Polarization of Spiral Galaxies	6,10	30	2.99

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AT421	Tadaki, K. Hatsukade, B. Hayashi, M. Kodama, T. Kohno, K. Shimakawa, R. Suzuki, K. Tamura, Y. Tanaka, I.	Tokyo Kyoto Univ. NAO NAO Tokyo NAO Tokyo Tokyo NAOJ	The accelerated star formation in an extremely dense proto-cluster at z=2.5	0.9	17,18,19	10.38
AV345	van der Werf, P. Danilson, A. Harris, A. Iverson, R. Smail, I. Swinbank, M.	Univ. of Leiden Univ. of Durham Univ. of Maryland Edinburgh Univ. of Durham Univ. of Durham	Confirmation of first 13CO and C18O 1-0 detections at high z	0.9	2,25	1.97
AV349	Verdes-Montenegro, L. Athanasoulas, E. Bosma, A. Dobbs, C. Espada, D. Fernandez, M. Montes, J. Moreta, P. Munoz-Mateos, J. Scott, T. Sengupta, C. Vela, J. Yun, M.	IAA OAMP OAMP Univ. of Exeter NAO IAA IAA IAA NRAO IAA IAA ESO Mass., Amherst	The extended HI envelope of the isolated galaxy CIG 96	20	9,10	2.96
AW844	Wagg, J. Aravena, M. Bertoldi, F. Carilli, C. Menten, K. Owen, F.	ESO ESO Bonn NRAO-Socorro MPIfR NRAO-Socorro	A CO redshift for the luminous mm-selected starburst galaxy: MMJ1541+6630	0.9,1.3	8	1.45
AW846	Wang, K. Busquet, G. Liu, H. Lu, X. Pillai, T. Tan, J. Wu, Y. Zhang, Q.	CfA INAF CfA CfA CfA Florida Peking Univ. CfA	Ammonia in Filamentary IR-dark Clouds	1.3	17,30	3.49
AW847	Walker, L. Johnson, K. Kepley, A. Kibbard, J.	UVA UVA UVA NRAO	The Role of Gas Processing in Galaxy Evolution	20	9,18,24,25,28	7.27
AW849	Weston, J. Bode, M. Chomiuk, L. Eyres, S. Krauss, M. Mioduszewski, A. Mukai, K. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Sokoloski, J. Williams, B.	Columbia John Moores CfA Central Lancashire NRAO NRAO-Socorro NASA Minnesota Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia STScI	The E-Nova Project: Testing the Hubble flow model for V1723 Aql	0.9,1.3,2,3.6	27	2.99
AY226	Yusef-Zadeh, F. Roberts, D. Wardle, M.	Northwestern Northwestern Macquarie Univ.	Polarization and Spectral index studies of a jet-like feature from Sgr A*	0.7,0.9	22,28	1.94
AZ211	Zauderer, B. Berger, E. Bietenholz, M. Brunthaler, A. Chakraborti, S. Pooley, G. Rupen, M. Sari, R. Shcherbakov, R. Soderberg, A.	CfA CfA York Univ. MPIfR TIFR Cambridge NRAO-Socorro Hebrew Univ. Univ. of Maryland CfA	Continued Monitoring of the Relativistic Outflow from a Tidal Disruption Event	0.9,1.3,6,20	27	1.25

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AZ219	Zhang, Z. Frayer, D. Gao, Y. Henkel, C. Tan, Q. Wang, J. Zhao, Y.	MPIFR NRAO Chinese Academy MPIFR Chinese Academy Nanjing Univ. Chinese Academy	Resolving CS J=1.0 in local (U) LIRG with the JVLA	0.7	24	0.25
AZ220	Zwaan, M. Biggs, A. Briggs, F. Meyer, M. Sadler, E. Staveley-Smith, L.	ESO ESO ANU Western Australia Univ. of Sydney Western Australia	First measurement of the cosmic molecular mass density at z=1.6	0.7	5,19,24,26,29,30,31	20.05
BB021	Braatz, J. Condon, J. Constantin, A. Gao, F. Greene, J. Henkel, C. Impellizzeri, V. Kyo, C. Litzinger, E. Lo, K.Y. Reid, M. Wagner, J. Zhao, W.	NRAO NRAO James Madison Univ. NRAO Princeton MPIFR NRAO UVA Wuerzburg NRAO CfA MPIFR Shanghai Obs.	The Megamaser Cosmology Project VI	1	13,14	11.84
BK178	Kellermann, K. Anderson, J. Edwards, P. Gurvits, L. Jauncey, D. Kardashev, N. Kovalev, Y. Lobanov, A. Romney, J. Schillizzi, R. Sololovsky, K. Zensus, A.	NRAO MPIFR ATNF JIVE ATNF Lebedev Lebedev MPIFR NRAO-Socorro Jodrell Bank Lebedev MPIFR	Getting closer to SMBHs with the space VLBI interferometer Radio Astron-VLA	1	1	1.53
SD0643	Sun, M. Chung, A. Forman, B. Jones, C. Nulsen, P. Roediger, E. Sarazin, C.	UVA Yonsei Unvi. SAO SAO SAO Univ. of Bremen UVA	X-Raying the spectacular star-forming trail behind IC 3418	20	21,22	7.20

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	<b>Actual Hours</b>	<b>Percentage</b>
Astronomy	518.15	71.59
Unscheduled	13.66	1.89
Maintenance	38.33	5.30
Test/Calc	145.16	20.06
Weather	8.47	1.17
Power out	0.00	0.000
Holiday Shutdown	0.00	0.00
<b>Total</b>	<b>723.76</b>	<b>100.00</b>

Average downtime measured in antenna hours was 3.76% of scheduled antenna hours, distributed as:

<b>System</b>	<b>Percentage</b>
Antenna	8.95
Cryogenics	2.60
EVLA	7.34
EVLA Computers	23.50
EVLA Correlator	26.51
Focus/Rotation	0.14
Front End	11.16
HVAC	0.13
LO/IF	10.70
Optical Fiber	3.29
Other	0.27
Servo	1.89
Site Power	0.16
VLBA Recorders	0.51
Weather	2.85
<b>Total</b>	<b>100.00</b>

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA358	Andrews, S. Birnstiel, T. Chandler, C. Kastner, J. Rosenfeld, K. Wilner, D.	CfA Ludwig-Maximilians NRAO-Socorro Rochester CfA CfA	Particle Growth in the Protoplanetary Disk around V4046 Sgr	0.7,0.9,1.3,2,2.6,6	2	2.09
AB1441	Best, P. Geach, J. Ibar, E. Ivison, R. Smail, I. Sobral, D. Swinbank, M.	Edinburgh McGill University Edinburgh Edinburgh Durham Leiden Durham	Molecular gas in normal galaxies at $z > 2$ : a targeted and blind survey approach	0.9	3,4,5,6	7.68
AB1442	Balser, D. Anderson, L. Bania, T. Wenger, T.	NRAO West Virginia Boston Boston	Transgalactic Abundances in the Milky Way Disk	3.6	9,21	3.77
AB1443	Berger, E. Chakrabarti, S. Chornock, R. Fong, W. Laskar, T. Margutti, R. Menten, K. Metzger, B. Nakar, E. Sari, R. Soderberg, A. Zauderer, B.	CfA TIFR CfA CfA CfA CfA MPIfR Princeton Tel Aviv Univ. Hebrew Univ. CfA CfA	New insights on Gamma-Ray Bursts with the JVLA	1,3,6	1,2,5,14	5.68
AB1445	Bonafede, A. Bruggen, M. Ebeling, H. Edge, A. Giovannini, G. Hoeft, M. Klein, U. van Weeren, R. Vazza, F.	Jacobs Univ. Jacobs Univ. Hawaii., Manoa Durham INAF Thueringer Bonn Leiden Jacobs Univ.	Radio halos in galaxy clusters: detection of the steepest spectrum known so far	20	11,14	0.94
AB1446	Bolatto, A. Cooper, M. Genzel, R. Herrera, R. Jameson, K. Leroy, A. Rosolowsky, E. Schreiber, N. Tacconi, L.	Maryland Arizona MPE Maryland Maryland NRAO British Columbia MPE MPE	Driving Star Formation: Cold Molecular Gas Mass and Excitation in Galaxies at $z \sim 2$	0.9	13	3.57
AB1448	Blomme, R. Naze, Y. Prinja, R. Rauw, G. Volpi, D.	OMA Univ. de Liege London Univ. de Liege OMA	The Colliding Winds of the Massive Early-Type Binary 9 Sgr	3.6,6,20	5	0.50
AB1452	Brunthaler, A. Falcke, H. Groot, P. Koerding, E. Ramsay, G.	MPIfR NFRL Radboud Univ. Radboud Univ. <del>Amagh-Obs.</del> <i>Amagh</i>	The nature of radio emission from the ultracompact binary HM Cnc	1.3	3	1.92
AB1456	Babul, A. Basu, K. Bertoldi, F. Bonafede, A. Bruggen, M. Dolag, K. Klein, U. Nagarajan, A. Sommer, M.	Univ. of Victoria Bonn Bonn Jacobs Univ. Jacobs Univ. MPA Bonn Bonn Bonn	A census of radio haloes in Planck-SZ selected galaxy clusters	20	9,10,11,12,15,18,23,24,27	7.00

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AC1111	Carilli, C. Andreani, P. Cox, P. Lentati, L. Maiolino, R. McMahon, R. Riechers, D. Wagg, J. Walter, F. Wolfe, A.	NRAO-Socorro ESO IRAM Cambridge INAF Cambridge Cornell ESO MPIA Calif., San Diego	Anatomy of Massive galaxy and SMH formation	0.7	13,18	7.39
AC1115	Cannon, J. Adams, E. Dolphin, A. Elson, E. Giovannelli, R. Haynes, M. McQuinn, K. Ott, J. Saintonge, A. Salzer, J. Skillman, E.	Macalester Cornell Raytheon ICRAR Cornell Cornell Minnesota NRAO-Socorro MPE Indiana Minnesota	SHIELD: Re-Execution of Low-Resolution HI Imaging	20	2,3,4	7.65
AC1118	Clements, D. Dannerbauer, H. Gonzalez-Nuevo, J. Harris, S. Ivison, R. Leeuw, L. Riechers, D.	Imperial College Univ. Wien Cantabria Maryland Edinburgh NASA Cornell	H-ATLAS: A $z=3.26$ Starbursting Galaxy Cluster found by Planck and Herschel	0.9	1,5,6,8,9,11,25	19.83
AC1128	Chitsazzadeh, S. Bourke, T. Di Francesco, J. Friesen, R. Langston, G. Pineda, J. Schnee, S. Tobin, J.	Univ. ov Victoria CfA Herzberg Inst. NRAO NRAO Manchester NRAO NRAO	Ammonia Observations of Cores on the Brink	1.3	15,18,20,23,25,26,27	17.10
AC1129	Corsi, A. Cenko, B. Dhuga, K. Frail, D. Kulkarni, S. Perley, D. Sonbas, E.	Caltech Calif., Berkeley G. W. Univ. NRAO-Socorro Caltech Caltech Adiyaman Univ.	Probing the composition of GRB with JVLA: a quest for reverse shocks	0.7,1.3,3.6,6	16,28	3.66
AC1134	Chomfuk, L. Bode, M. Eyles, S. Krauss, M. Mioduszewski, A. Mukai, K. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Soliloski, J. Weston, J. Williams, B.	CfA John Moores Central Lancashire NRAO NRAO-Socorro NASA Minnesota Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia Columbia STScI	The E-Nova Project: Explosio Dynamics Traced in Detail by the VLA	0.9,2,6,20	24	0.99
AC1135	Chapman, S. Blain, A. Ivison, R. Reddy, N. Smail, I.	Cambridge Caltech Edinburgh NOAO Durham	CO(1-0) in the most overdense cluster known at $z>2$ , Q1549+19	0.9	22,23	5.95
AD645	Duc, P. Appleton, P. Belles, P. Boquien, M. Bournaud, F. Braine, J. Brinks, E. Galliano, F. Leroy, A. Lisenfield, U. Walter, F.	CEA Caltech CEA OAMP CEA Obs. de Bordeaux Hertfordshire CEA NRAO Granada MPIA	Chaotic THINGS: Turbulent ISM Conditions in the HI interacting Galaxy Survey	20	20	2.45
AD658	Darling, J. Frail, D.	Colo., Boulder NRAO-Socorro	High Velocity masers in the Galactic Center: A New Probe of General Relativity	0.7,1.3	14,16,21	1.93



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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AD662	De Gasperin, F. Bruggen, M. Churazov, E. Cotton, W. Falcke, H. Forman, W. Intema, H. Merloni, A. Murgia, M. Orru, E. Owen, F. Venkata, U.	MPA Jacobs Univ. MPA NRAO Radboud Univ. CfA NRAO-Socorro MPE INAF Radboud Univ. NRAO-Socorro NRAO-Socorro	Understanding M87: a multi-frequency campaign (VLA)	6,10	10	2.72
AD667	DeCesar, M. Brandt, T. Hewitt, J.	Univ. of Maryland NASA NASA	Spectral Breaks in Pulsar Wind Nebulae	0.9,1.3,3.6	23	1.00
AG891	Ginsburg, A. Bally, J. Battersby, C. Becklin, E. Darling, J. Klein, R. Koda, J. Sankrit, R. Scoville, N. Smith, E. Smith, R. Youngblood, A.	Colo., Boulder Colo., Boulder Colo., Boulder UCLA Colo., Boulder USRA Stony Brook USRA Caltech NASA Heidelberg Colo., Boulder	Massive stars and ionized and molecular gas in the W51 complex	2,6	17	0.55
AH1083	Heesen, V. Beck, R. Crocker, R. Dettmar, R. Hinton, J. Jones, D. Ohm, S. Ott, J.	Hertfordshire MPIfR MPI Bochum Univ. of Leicester MPI Univ. of Leeds NRAO-Socorro	Radio filaments and the WMAP haze from Fermi bubbles in nearby galaxies	2,10	11,22,23	11.44
AH1098	Hewitt, J. Ghavamian, P. Petre, R. Reynolds, A. Williams, B.	NASA Towson NASA North Carolina NASA	A new epoch of EVLA Observations of TYcho's SNR: Proper Motions and More	6,20	9,23	3.82
AK802	Konar, C. Wang, W.	ASIAA ASIAA	Which accretion mode is on during quiescent phase of jet activity in AGN?	6,10	18,21,22	2.15
AK803	Kanekar, N. Carilli, C. Menten, K.	TIFR NRAO-Socorro MPIfR	A blind Ka-and Q-band survey for molecular absorption at high redshift	0.7	17,19	0.96
AK807	Kanekar, N. Meier, D.	TIFR NMT	A search for molecular oxygen at intermediate redshifts	0.9	24	1.50
AL826	Laing, R. Bridle, A. Perley, R.	ESO NRAO NRAO-Socorro	How fast are the jets in NGC6251?	6	4	2.88
AL831	Liu, H. Chou, M. Forbrich, J. Galvan-Madrid, R. Ho, P. Hora, J. Michihiro, T. Rodriguez, L. Sanchez, L. Yan, C. Zhang, Q.	CfA ASIAA CfA ESO CfA CfA ASIAA UNAM UNAM ASIAA CfA	The JEt-Accretion Connection in Young Stellar Objects	2,3.6	17,22,25,26,27	5.70
AM1181	Murphy, E. Condon, J. Helou, G. Merier, D. Momjian, E. Ott, J. Schinnerr, E. Turner, J.	Carnegie Inst. NRAO Caltech NMT NRAO-Socorro NRAO-Socorro MPIA Calif., Los Angeles	The Star Formation in Radio Survey: Completion of JVLA Ka-Band Observations	0.9	2,3,6,10,16	12.74

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AM1183	Murgia, M. Brown, S. Carretti, E. Feretti, L. Giovannini, G. Govoni, F. Vacca, V.	INAF ATNF CSIRO INAF INAF INAF INAF	Single-dish and interferometric imaging halos in Galaxy Clusters	20	10	1.77
AM1184	Mangum, J. Darling, J. Henkel, C. Kulow, J. Menten, K. Smullen, R.	NRAO Colo., Boulder MPIfR Colo., Boulder MPIfR Wyoming	Imaging the Spatial Density within Starburst Galaxies	2,6	8,9,10,11,13 ,14,17,22,24	12.34
AM1189	Middleton, M. Carpenter, J. Dickinson, H. Fender, R. Gandhi, P. Gehrels, N. Haberl, F. Henze, M. Hurley-Walker, N. Markoff, S. Miller-Jones, J. Roberts, T. Scaife, A. Walton, D.	Durham Caltech Stockholm Southampton JAXA NASA MPE MPE Cavendish Amsterdam Curtin Univ. Durham Southampton Caltech	Observing extragalactic binariesw to reveal the nature of Eddington accretion	1,3,6	1,2,3	3.94
AN154	Nikiel-Wroczyński, B Adebahr, B. Beck, R. Bomans, D. Soida, M. Urbanik, M.	Jagiellonian Rugh-Univ. Bochum MPIfR Ruhr-Univ. Bochum Jagiellonian Jagiellonian	Compact galaxy groups: tracing the relic of past intruder?	6	11,24	2.30
AN157	Nelson, T. Bode, M. Cheung, T. Chomiuk, L. Eyles, S. Krauss, M. Mioduszewski, A. Mukai, K. O'Brien, T. Roy, N. Rupen, M. Sokoloski, J. Weston, J. Williams, B.	Minnesota John Moores NRL CfA Central Lancashire NRAO NRAO-Socorro NASA Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia Columbia STScI	The E-Nova Project: Understandign Gamma-Ray Emission in Classical Novae	0.9,2,6,20	6,9,20	2.39
AR812	Rudnick, G. Alexander, P. Hodge, J. Lentati, L. Lotz, J. Momcheva, I. Papovich, C. Saintonge, A. Tran, K. Walter, F. Willmer, C.	Kansas Cambridge MPIA Cambridge STScI Yale Texas., A&M MPE Texas., A&M MPIA Arizona	Detecting CO[1-0] in the star-forming galaxies of a z=1.62 galaxy cluster	0.7	3	4.80
AR817	Roy, N. Chengalur, J. Datta, A. Momjian, E. Sarma, A.	NRAO-Socorro TIFR Colo., Boulder NRAO-Socorro DePaul Univ.	CCS 22.3 GHz Zeeman observations of the molecular core TMC-1C	1.3	7,12	4.29
AR820	Roy, N. Krishna, G.	NRAO-Socorro TIFR	A sensitive search for HI 21 cm emission from superdisks in large radio galaxies	20	4,5	5.68

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AR825	Riechers, D. Aravena, M. Carilli, C. da Cunha, E. Daddi, E. Dickinson, M. Iverson, R. Mao, M. Sargent, M. Scoville, N. Smail, I. Smolcic, V. Wagg, J. Walter, F.	Cornell ESO NRAO-Socorro MPIfR CEA NOAO Edinburgh NRAO-Socorro CEA Caltech Durham ESO ESO MPIfR	Measuring the Dense Gas History of the Universe	0.9	9,13,14,15, 16,17,18,19, 20,21,22,23, 26,27,28	59.50
AS1194	Sanchez-Monge, A. Cesaroni, R. Hofner, P. Kurtz, S. Walmsley, C.	INA INA NMT UNAM INA	A multilevel study of ammonia in hot molecular cores	1.3	2,10,16,17	8.46
AS1198	Smail, I. Iverson, R. Kneib, J. Richard, J.	Durham Edinburgh Marseille-Provence De Lyon Obs.	A CO(1-0) survey at z=3.3-5.2 through a massive cluster lens	1.3	1,2,6,7	12.19
AS1202	Sharon, C. Baker, A. Harris, A. Lutz, D. Tacconi, L.	New Jersey., Rutgers New Jersey., Rutgers Maryland MPIfR MPIfR	Cold gas in a multi-component submm galaxy with varying excitation conditions	0.9	16	1.44
AS1209	Sarazin, C. Clarke, T. Farnsworth, D. Hogge, T. Rudnick, L. van Weeren, R. Wik, D.	UVA NRL Minnesota UVA Minnesota CfA NASA	Is the Diffuse Radio Source in Abell 2061 a USS Cluster Halo, Relic, or Hybrid	207	10	3.55
AS1214	Sololoski, J. Bode, M. Chomiuk, L. Kuauss, M. Mioduszewski, A. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Weston, J. Williams, B.	Columbia John Moores CfA NRAO NRAO-Socorro Minnesota Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia STSCI	The E-Nova Project: Early Radio Light Curves for a Diverse Sample of Novae	0.9,1.3,2, 3.6,6	7,14	2.84
AT421	Tadaki, K. Hatsukade, B. Hayashi, M. Kodama, T. Kohno, K. Koyama, Y. Shimakawa, R. Suzuki, K. Tamura, Y. Tanaka, I.	Tokyo Kyoto Univ. NAO NAO Tokyo Durham NAO Tokyo Tokyo NAO	The accelerated star formation in an extremely dense proto-cluster at z=2.5	0.9	3,6	6.80
AT429	Takuma, I. Kohno, k. Nakajima, T. Nakanishi, K. Takano, S. Tamura, Y.	Tokyo Tokyo NAOJ NAOJ NAOJ Tokyo	The CS multi-transition analysis for the robust AGN diagnostic	0.7	1,8	1.45
AV343	Vlemmings, W. Kastner, J. Montez, R. Ramstedt, S. Tafaya, D.	Onsala Space Obs. Rochester Inst. Rochester Inst. Bonn Kagoshima Univ.	The HI column density towards X-ray emitting AGB Stars	20	17	1.50
AV345	van der Werf, P. Danielson, A. Harris, A. Iverson, R. Smail, I. Swinbank, M.	Leiden Durham Maryland Edinburgh Durham Durham	Confirmation of first 13CO and C18O 1-0 detections at high z	0.9	2,17	1.89

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AV350	van Weeren, R. Bruggen, M. Forman, W. Hoeft, M. Intema, H. Jones, C. Ogrean, G. Rottgering, H. Rudnick, L. Stroe, A.	CfA Jacobs Univ. CfA Thueringer NRAO-Socorro CfA Hamburg Leiden Minnesota Leiden	Shock and Awe: Deep JVLA observations of the "Sausage Cluster"	10,20	3,9,10,18,23	5.06
AY226	Yusef-Zadeh, F. Roberts, D. Wardle, M.	Northwestern Univ. Northwestern Univ. Macquarie Univ.	Polarization and Spectral Index Studies of a Jet-like feature from Sgr A*	0.7,0.9	7,8	2.85
AZ219	Zhang, Z. Frayer, D. Gao, Y. Henkel, C. Tan, Q. Wang, J. Zhao, Y.	MPIfR NRAO Chinese Academy MPIfR Chinese Academy Nanjing Chinese Academy	Resolving CS J+1.0 in local (U)LIRG with the JVLA	0.7	28	1.68
AZ220	Zwaan, M. Briggs, F. Meyer, M. Sadler, E. Staveley-Smith, L.	ESO Australian Western Australia Sydney Western Australia	First measurement of the cosmic molecular mass density at z=1.6	0.7	3,10,19	3.69
BA105	Amiri, N. Darling, J.	Colo., Boulder Colo., Boulder	Probing Magnetic Fields in the accretion disks of supermassive black holes	20	4,7,17,18,24,25	35.75
BB320	Busch, M. Benner, L. Briskin, 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 Near-Earth Asteroids During 2013-2015	20	16	0.50
BB321	Braatz, J. Condon, J. Constantin, A. Gao, F. Greene, J. Henkel, C. Impellizzeri, V. Kuo, C. Litzinger, E. Lo, K.Y. Reid, M. Wagner, J. Zhao, W.	NRAO NRAO James Madison NRAO Princeton MPIfR NRAO UVA Wuerzburg NRAO CfA MPIfR Shanghai	The Megamaser Cosmology Project. VI	1.3	10,12,15,16,17,19,21,24,25	53.18
BK178	Kellerman, K. Anderson, J. Edwards, P. Gurvits, I. Jauncey, D. Kardashev, N. Kovalev, Y. Lobanov, A. Romney, J. Schillizzi, R. Sokolovsky, K. Zensus, A.	NRAO MPIfR ATNF JIVE ATNF Lebedev Inst. Lebedev Inst. MPIfR NRAO-Socorro Jodrell Bank Lebedev Inst. MPIfR	Getting closer to SMBHs with the space VLBI interferometer Radio Astron-VLA	1.3	2,3	3.53

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	Actual Hours	Percentage
Astronomy	399.19	63.17
Unscheduled	9.58	1.52
Maintenance	40.92	6.48
Test/Calc	182.27	28.84
Weather	0.00	0.00
Power out	0.00	0.000
Holiday Shutdown	0.00	0.00
<b>Total</b>	<b>631.96</b>	<b>100.00</b>

Average downtime measured in antenna hours was 9.12% of scheduled antenna hours, distributed as:

System	Percentage
Cryogenics	1.25
EVLA	10.00
EVLA Correlator	40.98
Focus/Rotation	5.90
Front End	2.61
LO/IF	1.78
Monitor/Control	1.66
Obs. Program	0.58
Optical Fiber	0.06
Other	12.73
Servo	6.87
Site Power	0.04
VLBA Recorders	13.06
Weather	2.49
<b>Total</b>	<b>100.00</b>

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AA351	Avison, A. Fuller, G. Gaylard, M. Gjoedhart, S. Maswanganye, J. Pineda, J. Richards, A. van der Walt, J. Zijstra, A.	Manchester Manchester HarTRAO SKA HarTRAO Manchester Jodrell Bank Potchefstroom Manchester	Are colliding-wind binary systems causing variable methanol maser emission?	6	3,4	0.48
AA358	Andrews, S. Birnstiel, T. Chandler, C. Kastner, J. Rosenfeld, K. Wilner, D.	CfA Ludwig-Maximilians NRAO-Socorro Rochester CfA CfA	Particle Growth in the Protoplanetary Disk around V4046 Sgr	0.7,0.9,1.3,2,3.6,6	31	1.12
AB1441	Best, P. Geach, J. Ibar, E. Ivison, R. Smail, I. Sobral, D. Swinbank, M.	Edinburgh McGill University Edinburgh Edinburgh Durham Leiden Durham	Molecular gas in normal galaxies at z>2: A targeted and blind survey approach	0.9	26	1.85
AB1452	Brunthaler, A. Falcke, H. Groot, P. Koerding, E. Ramsay, G.	MPIfR NFRL Radboud Radboud Armagh Obs.	The nature of radio emission from the ultracompact binary HM Cnc	1.3	26	1.87
AC1046	Chomiuk, L. Berger, E. Chornock, R. Elvis, M. Foley, R. Fong, W. Gezari, S. Giannios, D. Lawrence, A. Metzger, B. Narayan, G. Rest, A. Sanders, N. Soderberg, A. Stubbs, C. Zauderer, B.	CfA CfA CfA CfA CfA CfA Johns Hopkins Princeton Royal Obs. Calif., Berkeley CfA CfA CfA CfA CfA CfA CfA	Exotic Explosions, Eruptions, and Disruptions: A New Transient Phase-Space	6	4	1.44
AC1060	Chandra, P. Chevalier, R. Chugai, N. Fransson, C. Soderberg, A.	RMCC UVa Moscow Stockholm CfA	EVLA Observations of Radio non-Detected Type IIn Supernovae Between 2007-2009	3.6	18	0.96
AC1064	Comerford, J. Eracleous, M. Gebhardt, K. Wrobel, J.	Texas., Austin Penn State Texas., Austin NRAO-Socorro	Identifying Galaxies with Kpc-Scale Separation Dual Supermassive Black Holes	3.6	5	3.84
AC1084	Capetti, A. Baldi, R. Giovannini, G.	INAF INAF INAF	Exploring the bulk of the radio-loud AGN population	6,20	6	1.88
AC1089	Chandra, P. Chevalier, R. Chugai, N. Fransson, C. Soderberg, A.	RMCC UVa Moscow Stockholm CfA	Exploring the mysterious Type IIn supernovae with the EVLA	1.3	20	0.75
AC1092	Chemin, L. Charlot, P. Raymond, S. Selsis, F.	Obs. de Bordeaux Obs. de Bordeaux Obs. de Bordeaux Obs. de Bordeaux	Astrometric characterization of exoplanets at radio frequencies	1.3,3.6,10	1	0.98
AC1107	Chandra, P. Chevalier, R. Chugai, N. Fransson, C. Soderberg, A.	RMCC UVa Moscow Stockholm CfA	JVLA DDT request for SN 2010jl radio observations	1.3,3.6,6	18,19	2.03

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AC1109	Chomiuk, L. Bode, M. Eyres, S. Krauss, M. Mioduszewski, A. Mukai, K. Nelson, T. O'Brien, T. Roy, N. Rupen, M. Sokoloski, J. Weston, J. Williams, R.	CFA John Moores Central Lancashire NRAO NRAO-Socorro NASA Minnesota Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia Columbia STScI	The E-Nova Project: Probing Complex Mass Ejection in Nova Sgr 2012	0.9,2,6,10	18,19	2.03
AC1111	Carilli, C. Andreani, P. Cox, P. Lentati, L. Maiolino, R. McMahon, R. Riechers, D. Wagg, J. Walter, F. Wolfe, A.	NRAO-Socorro ESO IRAM Cambridge INAF Cambridge Cornell ESO MPIA Calif., San Diego	Anatomy of massive galaxy and SMH formation	0.7	26,28,31	7.68
AC1115	Cannon, J. Adams, E. Dolphin, A. Elson, E. Giovanelli, R. Haynes, M. McQuinn, K. Ott, J. Saintonge, A. Salzer, J. Skillman, E.	Macalester Cornell Raytheon ICRAR Cornell Cornell Minnesota NRAO-Socorro MPE Indiana Minnesota	SHIELD: Re-Execution of Low-Resolution HI Imaging	20	28,29,30,31	9.20
AD662	De Gasperin, F. Bruggen, M. Churazov, E. Cotton, W. Falcke, H. Forman, W. Intema, H. Merloni, A. Murgia, M. Orru, E. Owen, F. Venkata, U.	MPA Jacobs Univ. MPIfR NRAO Radboud Univ. Cfa NRAO-Socorro MPE INAF Radboud Univ. NRAO-Socorro NRAO-Socorro	Understanding M87: a multi-frequency campaign (VLA)	6,10	30	3.83
AD664	DiPompeo, M. Brotherton, M. Myers, A.	Wyoming Wyoming Wyoming	"Polar" Broad Absorption Line Quasars: Fact or Fiction?	3.6,6,20	28	2.22
AG879	Gultekin, K. Cackett, E. Miller, J.	Mich., Ann Arbor Cambridge Mich., Ann Arbor	The Radio X-Ray BH-Mass Fundamental Plane for the Smallest SMBHs	3.6	6	1.50
AG881	Gupta, N. Momjian, E. Noterdaeme, P. Petitjean, P. Srianand, R.	NFRL NRAO-Socorro IAP IAP IUCAA	Search for OH radical in the disks of galaxies at $z < 0.3$	20	5,12,13,14,15,16	23.38
AG884	Giroletti, M. Orienti, M. Panessa, F.	INAF INAF INAF	Hunting for nuclear emission in the faintest Seyfert cores	2,3,6,6,20	5	1.90
AH1049	Hlavacek-Larrondo, J. Baum, S. Edge, A. Fabian, A. McNamara, B. O'Dea, C. Russell, H. Sanders, J. Taylor, G. van Weeren, R.	Cambridge Rochester Durham Cambridge Waterloo Rochester Cambridge Cambridge UNM Leiden	Abell 2146: a bullet-like merging cluster with no extended radio emission?	20	27	1.88
AH1082	Hofstadter, M. Butler, B. Gurwell, M. Orton, G.	JPL NRAO-Socorro CFA JPL	Composition and Dynamics of the Deep Atmospheres of Uranus and Neptune	6,10,20	3	1.92

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AH1083	Heesen, V. Beck, R. Crocker, R. Dettmar, R. Hinton, J. Jones, D. Ohm, S. Ott, J.	Hertfordshire MPIfR MPIA Ruhr-Bochum Leicester MPIA Unvi. of Leeds NRAO-Socorro	Radio filaments and the WMAP haze from Fermi bubbles in nearby galaxies	2,10	31	3.68
AH1107	Horesh, A. Bouke, S. Hallinan, G. Kulkarni, S. Mooley, K.	Caltech Caltech Caltech Caltech Caltech	Radio Observations of a Recent Tidal-Disruption-Event Candidate	0.9,1.3,3.6,2,6,10,20	19	1.39
AI163	Iverson, R. Baker, A. Cox, P. Eales, S. Frayser, D. Harris, A. Neri, R. Omont, A. Riechers, D. Serjeant, S. Swinbank, M. van der Werf, P.	Edinburgh Rutgers IRAM Unvi. of Cardiff NRAO Maryland IRAM Obs. de Paris Caltech Open Univ. Durham Univ. of Leiden	Dissecting a colossus: confronting recent theory with a multi-merging HyLIRG	0.9,6	1,2,4,7	2.74
AI165	Isella, A. Carpenter, J. Chandler, C. Perez, L. Ricci, L.	Caltech Caltech NRAO-Socorro Caltech Caltech	Characterizing the first proto-planet with the EVLA	0.7	2,13,17,19,20,21,22,23,25	33.20
AJ379	Jackson, N. Biggs, A. Birkinshaw, M. Deane, R. McKean, J. Serjeant, S. Vaccari, M. White, G. Wucknitz, O. Zhang, M.	Jodrell Bank ESO Univ. of Bristol Oxford ASTRON Open Univ. Padova Open Univ. Bonn Jodrell Bank	Gravitational lens central images; probing the central regions of galaxies	1.3	1	1.99
AJ384	Juneau, S. Dickinson, M. Gabor, J. Just, D. Morrison, G. Sargent, M.	CEA NOAO CEA Steward Obs. Hawii., Manoa CEA	Positive and negative feedback from an obscured quasar at z=0.68	6	6	1.91
AK812	Kassim, N. Hyman, S. Subrahmanyan, R.	NRL Sweet Briar NRAO-Socorro	Low frequency probe of the supermassive black hole region at the Galactic Center	20	5,17	1.86
AK813	Kanekar, N. Carilli, C. Stoake, J.	TIFR NRAO-Socorro Colo., Boulder	Confirming detections of molecular absorption in blind GBT absorption survey	0.7	8,12,18,19	3.09
AK814	Koerding, E. Knigge, C. Miller-Jones, J. Pretorius, M. Sivakoff, G.	Radbound Southampton Curtin Univ. Southampton Univ. of Alberta	Is the optical transient SS130101:122222-311525 the most radio bright known CV?	6	11,19	1.33
AL797	Law, C. Bower, G. Rupen, M.	Calif., Berkeley Calif., Berkeley NRAO-Socorro	RRAT Trap: Using Fast Imaging to Understand the Neutron Star Life Cycle	20	1	2.00
AL804	Li, Z. Forman, B. Jones, C. Kraft, R. Lal, D.	CfA CfA CfA CfA CfA	Probing a mini radio jet in the Sombrero galaxy	3.6,6	1,6	5.73
AL817	Lynch, C. Gayley, K. Guedel, M. Mutel, R.	Univ. of Iowa Univ. of Iowa Univ. of Vienna Univ. of Iowa	The Inner jet Structure of Young Stellar Objects	0.9,1.3,3.6,2	2,4,6,7	7.01
AL829	Lopez-Sepulcre, A. Ceccarelli, C. Dominik, C. Kama, M. Sanchez-Monge, A.	Obs. de Grenoble Obs. de Grenoble Amsterdam Amsterdam INA	Catching the first formation steps of an intermediate-mass protocluster in Orion	0.7,1.3,6	26	0.93



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AL835	Li, Z. Gim, H. Morris, M. Wang, Q. Yun, M.	CfA Mass., Amherst Calif., Los Angeles Mass., Amherst Mass., Amherst	A mapping of the polarized synchrotron emission from the central region of M31	6	26	0.96
AL842	Laskar, T. Berger, E. Zauderer, B.	CfA CfA CfA	Radio followup of the Optically Bright GRB 121024A-Reverse Shock Candidate	1.3,6	2	0.96
AM1147	Monnier, J. Danchi, W. Greenhill, L. Tuthill, P.	Mich., Ann Arbor NASA CfA Sydney	Orbital Period and the Fundamental Parameters of Colliding Wind WR 112-Copy	6	12	2.00
AM1149	Mao, M. Carilli, C. Lovell, J. Norris, R. Perley, R. Venkata, U.	Univ. of Tasmania NRAO-Socorro Univ. of Tasmania ATNF NRAO-Socorro NRAO-Socorro	A Pilot Study of the micro Jansky Sky	10	7	3.55
AM1150	Moscadelli, L. Cesaroni, R. Goddi, C. Molinari, S. Reid, M. Sanchez-Monge, A. Sanna, A.	INA INA ESO INAF CfA INA MPIfR	Characterizing the ionized gas emission in massive protostars	1.3,2,6	1	1.50
AM1163	Miyamoto, Y. Ishii, S. Nakai, N. Salak, D. Seta, M. Terabe, Y. Yamauchi, A.	Univ. of Tsukuba Univ. of Tsukuba Univ. of Tsukuba Univ. of Tsukuba Univ. of Tsukuba Univ. of Tsukuba NAO	Unveiling the 100-pc molecular gas disk in the nuclear region of NGC 3079	1.3	1,6	2.90
AM1183	Murgia, M. Brown, S. Carretti, E. Feretti, L. Giovannini, G. Govoni, F. Vacca, V.	INAF ATNF CSIRO INAF INAF INAF INAF	Single-dish and interferometric imaging of radio halos in galaxy clusters	20	26,28,29,31	7.55
AM1189	Middleton, M. Carpenter, J. Dickinson, H. Fender, R. Gandhi, P. Gehrels, N. Haberl, F. Henze, M. Hurley-Walker, N. Markoff, S. Miller-Jones, J. Roberts, T. Scaife, A. Walteon, D.	Durham Caltech Stockholm Southampton JAXA NASA MPG MPE Cambridge van Amsterdam Curtin Univ. Durham Southampton Caltech	Observing extragalactic binaries to reveal the nature of Eddington Accretion	1.3,6	26	3.81
AM1214	Mao, S. Robishaw, T.	Wisc., Madison NRCC	Probing the Magnetic Field in Local Starburst Galaxy M82-A Pilot Study	20	1,4,8	7.21
AN150	Nyland, K. Cappellari, M. Emsellem, E. Krajinovic, D. Morganti, R. Sarzi, M. Wrobel, J. Young, L.	NMT Univ. of Oxford ESO ESO NFRL Hertfordshire NRAO-Socorro NMT	The importance of LLAGN in Early-Type Galaxies Containing Molecular Gas	6	10,12,13,14	9.77

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AN157	Nelson, T. Bode, M. Cheung, T. Chomiuk, L. Eyes, S. Krauss, M. Mioduszewski, A. Mukai, K. O'Brien, T. Roy, N. Rupen, M. Sokoloski, J. Weston, J. Williams, B.	Minnesota John Moores NRL CfA Central Lancashire NRAO NRAO-Socorro NASA Jodrell Bank NRAO-Socorro NRAO-Socorro Columbia Columbia STScI	The E-Nova Project: Understanding Gamma-Ray Emission in Classical Novae	0.9,2,6,20	3,4,5	2.97
AP620	Perley, D. Hjorth, J. Jakobsson, P. Kruehler, T. Levan, A. Malesani, D. Michalowski, M. Perley, R. Tanvir, N.	Caltech Univ. of Copenhagen Univ. of Iceland Univ. of Copenhagen Univ. of Warwick Niels Bohr Inst. Edinburgh NRAO-Socorro Univ. of Liecester	The Dust-Unbiased Star-Formation Rates of GRB-Selected Star-Forming Galaxies	10	1,5	5.76
AR796	Riechers, D. Bradford, C. Chapman, S. Clements, D. Conley, A. Cooray, A. Dowell, D. Fu, H. Iverson, R. Omont, S. Perez-Fournon, I. Wardlo, J.	Caltech JPL Cambridge Imperial Colo., Boulder Calif., Irvine Caltech Caltech Edinburgh IAP IAC Calif., Irvine	Detailed Molecular Gas Properties of the Most Distant Massive Starburst Galaxy	0.9	5,6	8.62
AR804	Reines, A. Condon, J.	NRAO NRAO	Supermassive Black Holes in Dwarf Galaxies	6	1	1.92
AR820	Roy, N. Krishna, G.	NRAO TIFR	A sensitive search for HI 21 cm emission from super disks in large radio galaxies	20	29	2.40
AR825	Riechers, D. Aravena, M. Capak, P. Carilli, C. Cunha, E. Daddi, E. Dickinson, M. Iverson, R. Mao, M. Sargent, M. Scoville, N. Smail, I. Smolcic, V. Wagg, J. Walter, F.	Cornell ESO Caltech NRAO-Socorro MPIA CEA NOAO Edinburgh NRAO-Socorro CEA Caltech Univ. of Durham ESO ESO MPIA	Measuring the Dense Gas History of the Universe	0.9	26,27,28,29	21.34
AS1089	Soderberg, A. Badenes, C. Chevalier, R. Chomiuk, L. Fransson, C.	CfA Princeton Univ. UVA Wisc., Madiosn Stockholm Univ.	EVLA can reveal the nature of Type Ia Supernova Progenitors	6	4,8	1.84
AS1131	Stanimirovic, S. Begum, A. Dickey, J. Goss, M. Heiles, C. Hennebelle, P. Murray, C.	Wisc., Madison Wisc., Madison Univ. of Tasmania NRAO-Socorro Calif., Berkeley Obs. de Paris Wisc., Madison	SPONGE: 21-cm Spectral line Observations of Neutral Gas with the EVLA	20	5,8,9,10,11, 12,13,14,15, 16,17,18,19, 20,21,22,23	84.82

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
AS1163	Smolcic, V. Banfield, J. Bondi, M. Capak, P. Carilli, C. Ciliegi, P. Karim, A. Kloekner, H. Murphy, E. Sargent, M. Schinnerer, E. Scoville, N. Sheth, K. Zamorani, G.	ESO ATNF INAF Caltech NRAO-Socorro INAF MPIA Univ. of Oxford Carnegie Inst. CEA MPIA Caltech NRAO INAF	Deep 3GHz EVLA-COSMOS Survey: Confining Stellar Mass Growth through Cosmic Times	10	2,3,4,7	18.76
AT419	Tuccillo, D. Brotherton, M. Bruni, G. DiPompeo, M. Gonzalez-Serrano, I. Mack, K. Montenegro-Montes, F	IFCA Univ. of Wyoming INAF Univ. of Wyoming IFCA INAF ESO	The Radio Proprieties of High Redshift Broad Absorption Line Quasars	1.3,3.6,6, 20	1,3,5	3.8
AV343	Vlemmings, W. Kastner, J. Montez, R. Ramstedt, S. Tafoya, D.	OSO Rochester Inst. Rochester Inst. Bonn Kagoshima Univ.	The HI column density toward x-ray emitting AGB Stars	20	27,29,31	3.26
AV350	van Weeren, R. Bruggen, M. Forman, E. Hoeft, M. Intema, H. Jones, C. Kraft, R. Ogrean, G. Rottgering, H. Rudnick, L. Stroe, A.	Cfa Jacobs Univ. Cfa Tautenburg NRAO-Socorro Cfa Cfa Univ. of Hamburg Univ. of Leiden Univ. of Minnesota Univ. of Leiden	Shock and Awe: Deep JVLA observations of the 'Sausage Cluster'	10,20	26,27,30,31	7.39
AY223	Yun, M. Aretxaga, I. Giavalisco, M. Gim, H. Hughes, D. Kawabe, R. Kellermann, K. Kohno, K. Lowenthal, J. Miller, N. Morrison, G. Owen, F. Wilson, G.	Mass., Amherst INAOEP Mass., Amherst Mass., Amherst INAOEP NAO NRAO Tokyo Smith College Univ. of Maryland Hawaii., Manoa NRAO-Socorro Mass., Amherst	Nature of Micro-Jy Radio Sources in the GOODS-South Field	6,20	1,5	7.20
AY226	Yusef-Zadeh, F. Roberts, D. Wardle, M.	Northwestern Univ. Northwestern Univ. Macquarie Univ.	Polarization and Spectral Index Studies of a Jet-like Feature from Agr A*	0.7,0.9	31	0.91
AZ202	Zauderer, B. Berger, E. Bietenholz, M. Brunthaler, A. Frail, D. Rupen, M. Soderberg, A.	Cfa Cfa York Univ. MPIfR NRAO-Socorro NRAO-Socorro Cfa	Continued Insights into Transient Accretion onto a Supermassive Black Hole	0.7,1.3,6	4	1.92
AZ208	Zijlstra, A. Hajduk, M. van Hoof, P.	Manchester Nicolaus Copernicus Obs. de Belgique	Stellar evolution after a late thermal pulse	3.6,6,20	12	0.96

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Progm	Observer	Affiliation	Program Title	Bands cm	Observing Date	Sched Hours
SE0737	van Weeren, R. Bruggen, M. Croston, J. Forman, W. Hoeft, M. Jones, C. Kraft, R. Murray, S. Ogrean, G. Rottering, H. Rudnick, L. Sarazin, C. Simionescu, A.	Univ. of Leiden Jacobs Univ. Johns Hopkins CfA TLS-Tautenburg CfA CfA Southampton Jacobs Univ. Univ. of Leiden Minnesota UVA Stanford	The 'toothbrush-cluster': probing particle acceleration by merger induced shock waves	20	12	0.96
SE0795	Giacintucci, S. Brunetti, G. Cassano, R. Clarke, T. Dallacasa, D. Mushotzky, R. Venturi, T.	Univ. of Maryland INAF INAF NRL INAF Univ. of Maryland INAF	RXCJ1514.9-1523: A new USSRH?	20	31	1.81

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	Actual Hours	Percentage
Astronomy	390.44	50.47
Unscheduled	49.47	6.96
Maintenance	40.39	5.66
Test/Calc	261.71	36.67
Weather	1.99	0.28
<b>Total</b>	<b>713.77</b>	<b>100.00</b>

Average downtime measured in antenna hours was 7.74% of scheduled antenna hours, distributed as:

System	Percentage
Antenna Pads	0.73
Cryogenics	1.70
Electrical	0.48
EVLA	25.49
EVLA Computers	0.11
EVLA Correlator	39.18
Focus/Rotation	7.41
Front End	11.41
Interference	2.05
LO/IF	0.22
Mechanical	1.44
Obs. Program	0.40
Optical Fiber	3.19
Other	0.32
Servo	4.43
Site Power	0.04
Weather	1.42
<b>Total</b>	<b>100.00</b>