

VLA Utilization Report December 2008

| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|--|--|--|--------------------|-------------------------|----------------|
| AB1299 | Bonafede, A. Feretti, L. Govoni, F. Murgia, M. Giovannini, G. Taylor, G.B. Dallacasa, D. | INAF-Bologna INAF-Bologna INAF-Bologna INAF-Bologna INAF-Bologna New Mexico INAF-Bologna | The Coma cluster magnetic field | 20 | 11 | 7.53 |
| AB1301 | Berger, E. Reiners, A. | Carnegie Gottingen | Is rotation the fundamental parameter in fully-convective stellar dynamos? | 3.6 | 13 | 0.72 |
| AB1305 | Borthakur, S. Yun, M. Tripp, T.M. Bowen, D.V. York, D. | UMass UMass UMass Princeton Chicago | 21cm Absorption Spectroscopy of Disk/Halo Gas in Nearby Galaxies: VLA Follow-Up | 20 | 15 | 6.49 |
| AB1306 | Bussmann, R. Dey, A. Soifer, T. Armus, L. Borys, C. | Univ. Arizona NOAO Caltech Caltech Caltech | VLA Observations of z~2 Dust Obscured Galaxies | 20 | 15, 18 | 12.01 |
| AB1308 | Bietenholz, M.F. Bartel, N. Chevalier, R.A. | Hartebeesthoek York U. Virginia | The Spectral Evolution of Supernova 1993J | 90 | 6 | 4.49 |
| AC933 | Cheung, C.C. Harris, D.E. | NASA-Goddard CfA | Tracking the Aftermath of the Giant Flare in the M87 Jet | 1.3, 3.6 | 28 | 7.32 |
| AC936 | Chandra, P. Soderberg, A.M. Chevalier, R.A. | Virginia Princeton Virginia | VLA observations of a unique & bright radio and X-ray Type IIIn supernova 2006jd | 1.3, 3.6, 6, 20 | 15 | 2.72 |
| AC938 | Chandra, P. Chevalier, R. Chugai, N. Fransson, C. Soderberg, A. | NRAO UVA Institute of Astrono Stockholm Princeton | Exploring the mysterious type IIIn SN within 150 Mpc | 3.6 | 5,6,7,9,12,1 3,16,28 | 10.85 |
| AC951 | Chandra, P. Frail, D. Soderberg, A. | NRAO NRAO Princeton | Late time deep radio monitoring of brightest naked eye burst GRB 080319B | 20 | 20,21,22,24, 27 | 22.05 |
| AD589 | Datta, A. Carilli, C. McGreer, I. Momjian, E. Frey, S. Gurvits, L.I. Gabanyi, K. Paragi, Z. | MMIIT NRAO-Socorro Columbia NRAO-Socorro FOMISGO JIVE JAXA JIVE | The most distant radio-loud source at z=6.12: steep spectrum or not? | 90 | 8 | 3.83 |
| AF475 | Fuller, G. Caswell, J. Pestalozzi, M. | Manchester CSIRO Goteborg | High Resolution Positions of New Methanol Masers from the MMB Survey | 3.6, 6 | 28, 28 | 5.34 |
| AG746 | Goddi, C. Cesaroni, R. Codella, C. Beltran, M. Moscadelli, L. | CfA Arcetri CNR-Roma Barcelona INAF | The velocity field of the hypercompact HII region G24.78+0.01 A1 | 1.3 line | 26 | 6.22 |
| AG777 | Wrobel, J. Greene, J. Ho, L. | NRAO Princeton Carnegie | Radio emission from 10 intermediate-mass black holes | 20 | 1,5,7,17,24 | 5.60 |
| AG797 | Green, D.A. Reynolds, S. Borkowski, K. Hwang, U. Harrus, I. Petre, R. | Cambridge North Carolina State North Carolina State NASA-GSFC NASA-GSFC NASA-GSFC | First epoch high-resolution observations of G1.9+0.3 | 20 | 6, 7 | 10.0 |
| AG798 | Goodger, J. Hardcastle, M.H. Croston, J. Kraft, R. Worrall, D. | Hertfordshire Hertfordshire Hertfordshire CfA Bristol | Monitoring of Centaurus A's Jet | 3.6 | 20 | 3.23 |

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|-------|---|---|--|--------------------------------|------------------------------------|----------------|
| AI127 | Iverson, R.J. Dunne, L. Simpson, C. Ibar, E. Blain, A.W. Dunlop, J. Smail, I. Biggs, A. Rawlings, S. Jarvis, M. Cirasuolo, M. Farrah, D. | UK Astronomy Tech Nottingham John Moores Edinburgh Caltech Brittish Columbia Durham UK Astronomy Tech Oxford Hertfordshire Edinburgh Cornell | UDS20: a 20-cm survey of the UKIDSS Ultra Deep Survey | 20 | ... | 82.51 |
| AJ352 | Jackson, J. Chambers, E. | Boston Boston | High resolution imaging of methanol masers in infrared dark cloud cores | 1.3 | 12, 29 | 1.83 |
| AK706 | Chandra, P. Cenko, B. Fox, D. Frail, D. Harrison, F. Kulkarni, S. | NRAO Caltech Pennsylvania State NRAO Caltech Caltech | GRBs:Engines, energetcis in the GeV era | 3.6 | 4,5,10,13,14 ,17,23,27 | 6.58 |
| AL728 | Loinard, L. Brogan, C. Chandler, C. Ho, P. Pech, G. Rodriguez, L. Wilner, D. | UNAM NRAO NRAO Cfa UNAM UNAM Cfa | Following the recent bipolar ejectiton of the very young system IRAS 16293-2422 | 0.7 | 13 | 2.46 |
| AM952 | Monnier, J. Danchi, W. Greenhill, L. Tuthill, P. | Ann Arbor NASA Cfa Sydney | Orbital period and the fundamental parameters of colliding wind WR112 | 3.6 | 21 | 0.96 |
| AM962 | McNamara, B. Carilli, C. Jones, C. Nulsen, P. Vrtilek, J. Birzan, L. | Waterloo NRAO-Socorro Cfa Cfa Cfa Pennsylvania State | AGN Feedback in Giant Elliptical Galaxies | 90 | 18, 20, 22, 23, 26, 31 | 22.12 |
| AM965 | Migliari, S. Cai, M. Miller-Jones, J.C.A. Shu, F. | Calif.-San Diego Academia Sinica NRAO-CV Calif.-San Diego | X-ray binary pulsars: the key role of the magnetic field in jet formation | 3.6 | 1 | 5.65 |
| AM966 | Miller-Jones, J.C.A. Kaiser, C.R. Maccarone, T.J. Brocksopp, C. Sokoloski, J.L. | NRAO-CV Southampton Southampton Univ. College London Columbia | Investigating the non-thermal filament in IRAS 19132+1035 | 20 | 24 | 1.80 |
| AM967 | Melis, C. Duchene, G. Maness, H. Palmer, P. Perrin, M. | UCLA Calif., Berkeley Calif., Berkeley Chicago UCLA | Planet forming disks around intermediate mass stars | 3.6 | 1 | 1.85 |
| AM969 | Momjian, E. Ghosh, T. Minchin, R.F. Lerner, M. Lebron, M. Catinella, B. | NRAO-Socorro Arecibo Arecibo Arecibo Arecibo MPIFR | Mapping the distribution of the prebiotic molecule Methanimine and HCN in Arp220 | 6 | 14 | 9.37 |
| AM982 | Menten, K. Reid, M. Brunthaler, A. | MPIFR Cfa MPIFR | The Nature of Class II Methanol Maser Sources | 1.3, 3.6, 6 line EXPLORE | 5, 5 | 10.06 |
| A0242 | Orsky, E. Barvainis, R. Behar, E. Laor, A. | Israel NSF Israel Israel | Continuation of the VLA-RXTE monitoring of Radio Quiet AGN | 3.6 | 1,5,9,14,17, 18,20,24,27, 28 | 8.74 |
| AP563 | Paladino, R. Paladino, R. Beck, R. Murgia, M. Orru, E. Tabatabaei, F. | INAF Astro MPIFR INAF Innsbruck MPIFR | Low frequencies obs. of M51 | 90 | 12 | 7.32 |

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|--------|--|--|---|-------------|-----------------------------|--------------------------------------|
| AR685 | Richards, G. Becker, R. Brandt, N. Fan, X. Lacy, M. Strauss, M. White, R. | Drexel Calif., Davis Penn State Arizona Caltech Princeton STScI | Deep VLA obs. of SDSS Stripe 82 | 20 | 16,18,19,21, 23,24,27,28 | 27.10 |
| AS929 | Soderberg, A. Chevalier, R. Madore, B. Strauss, M. | Princeton UVa Carnegie Princeton | Toward an understanding of the progenitors of type Ibc SN | 3.6 | 16,21,24,29, 30 | 9.08 |
| AS956 | Saintonge, A. Tran, K. Brand, K. | Zurich Zurich STScI | The Interplay between AGN Activity and Star Formation in an Assembling Cluster | 20 | 2, 4 | 13.94 |
| AS962 | Stockdale, C. Immler, S. Marcaide, J-M. Panagia, N. Pooley, D. Ryder, S. Sramek, D. Van Dyk, S. Weiler, K. Williams, C. | Marquette NASA Valencia STScI Madison Anglo-Australian NRAO Spitzer NRL UMASS | Core collapse SN | 1.3 | 31 | 0.96 |
| AS963 | Eyres, S. Mioduszewski, A. Rupen, M. Sokoloski, J. | Lancashire NRAO NRAO Columbia | First radio imaging survey for white dwarf jets | 1.3 | 1,30 | 2.77 |
| AW741 | Wucknitz, O. Volino, F. Garrett, M.A. | Bonn Bonn NFRA | Resolving the brightest lensed star-burst galaxy RXS J1131-1231 | 6, 20 | 29 | 8.75 |
| AZ178 | Zhang, B. Zheng, X.W. Reid, M.J. | Nanjing Nanjing CfA | Radio photosphere and SiO masers of NML Cygni | 0.7 line | 20 | 7.23 |
| S90212 | Marscher, A. Jorstad, S. | Boston Boston | Velocity Gradients in the Jets of BL Lac Objects | 6 | 13 | 2.63 |
| DYNAMI | | | Dynamic scheduling | | | 231.5 |
| | Staff | NRAO | Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Christmas and New Years Shutdowns Software | | 24, 25, 31 | 43.0 71.5 12.0 41.0 64.0 |

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| | Actual Hours | Percentage |
|--------------|---------------------|-------------------|
| Astronomy | 343.05 | 50.32 |
| Unscheduled | 80.41 | 11.79 |
| Maintenance | 71.50 | 10.49 |
| Test/Calc | 149.42 | 21.92 |
| Shutdown | 37.37 | 5.48 |
| Total | 681.75 | 100.00 |

Average downtime measured in antenna hours was 15.36% of scheduled antenna hours, distributed as:

| System | Percentage |
|-----------------|-------------------|
| Antenna | 0.82 |
| Cryogenics | 2.34 |
| Electrical | 0.15 |
| EVLA | 32.68 |
| FOC/ROT | 2.15 |
| Front End | 25.97 |
| HVAC | 0.02 |
| Interference | 8.44 |
| LO/IF | 4.96 |
| Mechanical | 0.14 |
| Monitor/Control | 0.50 |
| Obs. Program | 0.25 |
| Other | 0.41 |
| Servo | 6.67 |
| Site Power | 0.31 |
| Weather | 8.76 |
| Widar Testing | 5.42 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|---|--|---|------------------|---|----------------|
| AA324 | Archibald, A. Kaspi, V. | McGill McGill | Observations of the Pulsar Wind Nebula in the Supernova Remnant Kes 75 | 6 | 8, 9 | 19.30 |
| AB1230 | Braatz, J. Condon, J. Greenhill, L. Henkel, C. Lo, K.Y. Reid, M. | NRAO NRAO CfA MPIfR NRAO CfA | Megamaser cosmology project | 1.3 | 21, 26 | 2.28 |
| AB1301 | Berger, E. Reiners, A. | Carnegie Goettingen | Rotation the fundamental parameter in fully-convective stellar dynamos? | 3.6 | 5,9,11,12,13 ,14,20,21,22 ,23,29,30 | 27.64 |
| AB1304 | Brogan, C.L. Darling, J. Johnson, K. | NRAO-CV Colorado Virginia | Imaging the H ₂ O 'Kilomaser' Emission in the Antennae Galaxies | 1.3 | 10, 11, 15 | 16.28 |
| AC876 | Claussen, M. Wootten, A. | NRAO NRAO | Maser emission from the SIS molecule | 1.3 | 23, 25 | 5.69 |
| AC933 | Cheung, C.C. Harris, D.E. | NASA-Goddard CfA | Tracking the Aftermath of the Giant Flare in the M87 Jet | 1.3, 3.6 | 14 | 7.30 |
| AC934 | Chomiuk, L. Freeland, E. Everett, J. Wilcots, E. Zweibel, E. Keddie-Hill, C. | Wisconsin Wisconsin Wisconsin Wisconsin Wisconsin Agnes Scott | Resolving a Magnetized Superbubble in the Center of Spiral Galaxy NGC 3631 | 20 | 20 | 5.64 |
| AF454 | Fontani, F. Brand, J. Cesaroni, R. | IRA IRA-Bologna Arcetri | Searching for infall in molecular clumps around high-mass young stellar objects | 1.3 line | 11, 15, 16, 21 | 16.80 |
| AF474 | Furuya, R. Sanna, A. Moscadelli, L. Beltran, M.T. Codella, C. Cesaroni, R. | NAOJ-Subaru INAF INAF Barcelona CNR-Roma Arcetri | Exploring the Earliest Phase of High-Mass (Proto)Star Formation | 1.3, 3.6 | 1, 2, 3 | 17.20 |
| AG795 | Gitti, M. Feretti, L. Brunetti, G. | OAN INAF-Bologna INAF-Bologna | Solving the puzzle of the peculiar radio source in the cool core cluster A 2626 | 6, 20 | 20, 21 | 7.95 |
| AG802 | Gelfand, J. Gaensler, B.M. Taylor, G.B. Chryssa, K. Wijers, R. MacFadyen, A. Ramirez-Ruiz, E. | New York Univ. Sydney New Mexico NASA-MSFC Amsterdam New York Univ. Calif. | Evolution of the Radio Nebula Produced During the 2004 December 27 Giant Flare | 20 | 7 | 3.98 |
| AG803 | Gelfand, J. Anderson, G. Arce, H. Gaensler, B. Helfand, D. Slane, P. | NY Sydney Yale Sydney Columbia CfA | Origin of the non-thermal X-ray emission obs. from SNR G28.6-0.1 | 6, 20 | 27 | 1.78 |
| AH976 | Healey, S. Fuhrmann, L. Readhead, A. Romani, R. Taylor, G. | Stanford MPIfR Caltech Stanford UNM | All sky flat spectrum blazar survey: filling in the gaps | 3.6 | 1 | 3.35 |
| AH977 | Hirota, T. | NAOJ-VERA | Dynamical structure of an intermediate-mass protostar IRAS22198+6336 | 0.7, 1.3, 3.6 | 3 | 4.38 |
| AH980 | Hyman, S. Kassim, N. Lazio, J. Pal, S. Ray, P. Roy, S. Wijnands, R. | Sweet Briar NRL NRL Tata NRL NFRA Amsterdam | Monitoring for transient radio sources in the galactic center | 90 | 14 | 1.01 |
| AJ352 | Jackson, J. Chambers, E. | Boston Boston | High resolution imaging of methanol masers in infrared dark cloud cores | 1.3 | 3,7,12 | 2.87 |
| AK706 | Chandra, P. Cenko, B. Fox, D. Frail, D. Harrison, F. Kasliwal, M. Kulkarni, S. | NRAO Caltech Pennsylvania NRAO Caltech Caltech Caltech | GRBs:Engines, energetics (and Enigmas) in the GeV era | 3.6 | 5,17,20,28 | 2.37 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|-------|---|---|--|-------------|------------------------|----------------|
| AM963 | Matsunaga, N. Nakanishi, H. Oyabu, S. | Kyoto Kagoshima JAXA-ISAS | The radio property of a candidate intracluster dust in the globular cluster M53 | 20 | 21 | 4.65 |
| AM967 | Melis, C. Duchene, G. Maness, H. Palmer, P. Perrin, M. | Calif., Los Angeles Calif., Berkeley Calif., Berkeley Chicago Calif., Los Angeles | Planet forming disks around intermediate mass stars | 3.6 | 28, 29 | 3.79 |
| A0230 | O'Dea, C. Kharb, P. Daly, R. Baum, S. | Rochester Purdue Penn State Rochester | High Redshift Powerful Radio Galaxies | 3.6, 20 | 24, 24 | 11.23 |
| A0240 | O'Sullivan, S. Gabuzda, D. | Cork Cork | L-Band VLA Observations to Support VLBA Faraday-Rotation Studies | 20 | 2, 22 | 7.69 |
| A0242 | Orsky, E. Barvainis, R. Behar, E. Laor, A. | Israel NSF Israel Israel | Continuation of VLA-RXTE monitoring of radio quiet AGN | 3.6 | 10,16,21 | 2.74 |
| AR678 | Reid, M.J. Menten, K. genzel, r. Gillessen, S. | Cfa MPIfR MPIfR MPE | Galactic Center Astrometry | 0.7 | 28, 29, 30 | 13.42 |
| AR681 | Richards, G.T. Oguri, M. Becker, R. Inada, N. Kochanek, C. | Drexel Stanford Calif.-Davis Riken's Inst. Ohio State | Resolving Component C in the 22" Lensed Quasar, SDSS J1029+2623 | 6 | 17 | 8.41 |
| AR683 | Riechers, D. Momjian, E. Carilli, C. Wang, R. | Caltech NRAO-Socorro NRAO-Socorro Peking Obs. | Radio Continuum Imaging and Spectral Indices of z~6 Quasars | 6 | 16, 17 | 14.70 |
| AR685 | Richards, G. Becker, R. Brandt, N. Fan, X. Lacy, M. Strauss, M. White, R. | Drexel Calif., Davis Penn State Arizona Caltech Princeton STScI | Deep VLA Obs. of SDSS Stripe 82 | 20 | 1-7,11-15,17 ,23-29 | 67.73 |
| AS929 | Soderberg, A. Chevalier, R. Madore, B. Strauss, M. | Princeton UVA Carnegie Obs. Princeton | Toward an understanding of the progenitors of Type Ibc SN | 3.6 | 3,21,24 | 6.64 |
| AS952 | Smolcic, V. Riechers, D. Schinnerer, E. Carilli, C. Rawlings, S. Kloekner, H.-R. | Caltech Caltech MPIA NRAO-Socorro Oxford Oxford | Searching for the peak epoch of black-hole activity in low radio power AGN | 90 | 6, 8, 9 | 17.27 |
| AS959 | Shepherd, D. Churchwell, E. Maddalena, R. Johnston, K. Cyganowski, C. Povich, M. | NRAO-Socorro Wisconsin NRAO-GB St. Andrews Wisconsin Wisconsin | The Ionized Gas Content in the Galactic Bubble N49 | 3.6 | 22 | 3.75 |
| AS963 | Sokoloski, J. Eyes, S. Mioduszewski, A. Rupen, M. | Columbia Lancashire NRAO NRAO | First radio imaging survey for white dwarf jets | 1.3 | 7,11,16 | 3.32 |
| AV305 | van Weeren, R. Rottgering, H. Bruggen, M. | Leiden Leiden Jacobs Bremen | Tracing Large-scale Structure Formation : Two Filamentary Radio Sources | 20 | 2, 4 | 10.05 |
| AV307 | Volino, F. Wucknitz, O. Garrett, M.A. | Bonn Bonn NFRA | VLA observations of the 8 o'clock arc system | 20 | 15 | 7.23 |
| AW743 | Worrall, D. Birkinshaw, M. | Bristol Bristol | The interactions of gas and radio plasma in tight merging groups | 6, 20 | 7 | 5.84 |

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|--------|--|---|---|-------------------------------|-------------------|--------------------------------------|
| AW745 | Wang, R. Carilli, C. Wagg, J. Walter, F. Bertoldi, F. Cox, P. Menten, K. Omont, A. Fan, X. Strauss, M. Jiang, L. | Peking Obs. NRAO-Socorro NRAO-Socorro MPIA Bonn Univ. IAP-Paris MPIFR IAP-Paris Arizona Princeton Univ. Arizona | Radio Emission from the Most Distant Quasars | 20 | 7, 14 | 8.03 |
| AW748 | Wardle, J. Cheung, C. Gobeille, D. | Brandeis NASA Brandeis | VLA Imaging of the highest redshift quasars | 6,20 | 1,3 | 3.82 |
| AY189 | Yusef-Zadeh, F. Braatz, J.A. Roberts, D.A. | Northwestern NRAO-GB Northwestern | A Search for On-going Star Formation in the Galactic Center Molecular Ring | 0.7 | 23 | 6.73 |
| S1135 | Ray, P.S. McSwain, M.V. Roberts, M. Grundstrom, E. Ransom, S. Pooley, G.G. Dougherty, S.M. Bolton, C.T. | NRL Lehigh Stanford Univ. Vanderbilt NRAO-CV Cambridge NRC Toronto | Multiwavelength study of LS I +61 303 | 0.7, 1.3, 2, 3.6, 6, 20 | 5, 12, 19 | 5.85 |
| DYNAMI | | | Dynamic scheduling | | | 282.1 |
| | Staff | NRAO | Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Thanksgiving Shutdown Software | | 26, 26 | 36.5 62.1 12.0 26.5 53.5 |

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| | Actual Hours | Percentage |
|--------------|---------------------|-------------------|
| Astronomy | 360.67 | 61.36 |
| Maintenance | 62.10 | 10.56 |
| Test/Calc | 138.57 | 23.57 |
| Shutdown | 26.50 | 4.51 |
| Total | 587.84 | 100.00 |

Average downtime measured in antenna hours was 7.33% of scheduled antenna hours, distributed as:

| System | Percentage |
|-----------------|-------------------|
| Antenna | 1.12 |
| Cryogenics | 2.21 |
| Electrical | 1.26 |
| EVLA | 39.04 |
| EVLA Computers | 7.70 |
| FOC/ROT | 0.90 |
| Front End | 7.81 |
| Interference | 4.59 |
| LO/IF | 9.42 |
| Mechanical | 0.69 |
| Monitor/Control | 9.52 |
| Obs. Program | 1.67 |
| Other | 0.20 |
| Power Supply | .40 |
| Servo | 4.34 |
| Site Power | 0.18 |
| Weather | 0.18 |
| Widar Testing | 8.75 |

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|--------|--|--|---|---------------------|-------------------|----------------|
| AA325 | Audard, M. Carmona, A. Fontani, F. Guedel, M. Gueth, F. Saavedra, C.B. Skinner, S. Stringfellow, G. Walter, F. | Geneve Geneve Bologna Zurich IRAM Geneve Boulder Boulder SUNY | Catching the young star V1647 Ori in Outburst | 1.3, 3.6 | 14 | 0.93 |
| AB1300 | Beltran, M.T. Cesaroni, R. Moscadelli, L. Codella, C. | Barcelona Arcetri INAF CNR-Roma | Investigating the origin of the free-free emission from G24.78+0.08 A1 | 20 | 19 | 1.16 |
| AB1301 | Berger, E. Reiners, A. | Carnegie Gottingen | Is rotation the fundamental parameter in fully-convective stellar dynamos? | 3.6 | 9,25,27,28,30 | 5.36 |
| AB1308 | Bietenholz, M.F. Bartel, N. Chevalier, R.A. | Hartebeesthoek York U. Virginia | The Spectral Evolution of Supernova 1993J | 1.3, 3.6, 6, 20, 90 | 4 | 10.96 |
| AC932 | Cheung, C.C. | NASA-Goddard | The Hard X-ray Transient IGR J18175-1530: a New Microquasar? | 3.6, 6, 20 | 7, 24 | 3.51 |
| AC938 | Chandra, P. | NRAO | Exploring the mysterious Type II in SN within 150 Mpc | 3.6 | 11,15,17,18 | 1.85 |
| AC942 | Cheung, C. | NASA | Follow up of flaring/transient GLAT-LAT sources | 6,20 | 9,12 | 0.9 |
| AC950 | Chandra, I. George, S. | TIFR Birmingham | High resolution of candidate Double-Double radio galaxy | 6 | 20 | 1.83 |
| AD589 | Datta, A. Carilli, C. McGreer, I. Momjian, E. Frey, S. Gurvits, L.I. Gabanyi, K. Paragi, Z. | NMIMT NRAO-Socorro Columbia NRAO-Socorro FOMISGO JIVE JAXA JIVE | The most distant radio-loud source at z=6.12: steep spectrum or not? | 90 | 16 | 1.88 |
| AF454 | Fontani, F. Brand, J. Cesaroni, R. | IRA IRA-Bologna Arcetri | Searching for infall in molecular clumps around high-mass young stellar objects | 1.3 line | 5 | 5.48 |
| AF474 | Furuya, R. Sanna, A. Moscadelli, L. Beltran, M.T. Codella, C. Cesaroni, R. | NAOJ-Subaru INAF-Catania INAF Barcelona CNR-Roma Arcetri | Exploring the Earliest Phase of High-Mass (Proto)Star Formation | 1.3, 3.6 | 31 | 4.28 |
| AF476 | Franco-Hernandez, R. Moran, J. Rodriguez, L.F. Garay, G. | Cfa Cfa UNAM Chile | Water maser in the disk and outflow of the massive protostar IRAS16547-4247 | 1.3 | 10 | 1.93 |
| AG786 | Galvan-Madrid, R. Ho, P. Rodriguez, L.F. Zhang, Q. | Cfa Cfa UNAM Cfa | Hypercompact HII region G24 A1 | 0.7 | 14 | 0.95 |
| AG800 | Gendre, M. Wall, J. Best, P. Grant, J. Taylor, A.R. | Univ. BC Univ. BC Edinburgh Calgary Calgary | The CoNFIG FRI subsample: FRI evolution and their role in AGN feedback. | 20 | ... | 42.94 |
| AG801 | Gomez, Y. Anglada, G. Gomez, J.-F. Miranda, L.F. Suarez, O. Tafuya, D. Torrelles, J.-M. | UNAM Andalucia Andalucia Andalucia UNICE Cfa Catalunya | Imaging the H2O maser emission toward IRAS 18061-2505 | 0.7 | 9 | 1.9 |
| AG802 | Gelfand, J. Gaensler, B.M. Taylor, G.B. Chryssa, K. Wijers, R. MacFadyen, A. Ramirez-Ruiz, E. | New York Univ. Sydney New Mexico NASA-MSFC Amsterdam New York Univ. Calif. | Evolution of the Radio Nebula Produced During the 2004 December 27 Giant Flare | 20 | 11 | 3.65 |
| AH941 | Hoffman, I. Richards, A. | St. Pauls Manchester | Renewed interest in the nonmetastable ammonia maser in NGC 7538 | 1.3 | 10,15 | 1.76 |

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|-------|--|--|---|----------|---|-------------|
| AH976 | Healey, S. Fuhrmann, L. Readhead, A. Romani, R. Taylor, G. | Stanford MPIfR Caltech Stanford UNM | All-Sky flat spectrum blazar survey | 3.6 | 9 | 4.30 |
| AH979 | Hagiwara, Y. | NAOJ | Probing the binary AGN in NGC6240 with water maser | 1.3 | 3 | 3.99 |
| AH980 | Hyman, S. Kassim, N. Lazio, J. Pal, S. Ray, P. Wijnands, R. | Sweet Briar NRL NRL Tata NRL Amsterdam | Monitoring for transient radio sources in the galactic center | 90 | 5 | 1.14 |
| AH981 | Hachisuka, K. Mochizuki, N. | Shanghai Japan Aerospace | Snapshot observation of H2O maser sources at the outer and outside galaxy | 1.3 | 24 | 1.40 |
| AH982 | Hardcastle, M.H. Harris, D.E. Massaro, F. | Hertfordshire Cfa Cfa | Physical conditions in the extended emission-line region of 3C305 | 1.3, 3.6 | 26 | 6.91 |
| AJ352 | Jackson, J. Chambers, E. | Boston Boston | High resolution imaging of methanol masers in infrared dark cloud cores | 1.3 | 7,24 | 1.26 |
| AK634 | Kulkarni, S. Fox, D. Frail, D. | Caltech Penn State NRAO | Long and the short of radio afterglows in the Swift Era | 0.7, 20 | 28 | 0.96 |
| AK681 | Frail, D. Cenko, B. Chandra, P. Fox, D. Harrison, F. Kasliwal, M. Kulkarni, S. | NRAO Caltech UVA Penn State Caltech Caltech Caltech | GRBs:Engines, energetics and enigmas | 3.6 | 9,10,11 | 5.45 |
| AK706 | Chandra, P. Cenko, B. Fox, D. Frail, d. Harrison, F. Kasliwal, M. Kulkarni, S. | NRAO Caltech Penn State NRAO Caltech Caltech Caltech | GRBs: Engines, energetics in the GeV era | 3.6 | 11,12,14,15, 16,17,23,25 | 7.93 |
| AK712 | Carilli, C. Momjian, E. Walter, F. Yun, M. | NRAO NRAO MPIFA UMASS | Enigmatic quasar SMMJ04135+10277 - starburst or AGN? | 3.6, 6 | 2 | 4.22 |
| AL727 | Laing, R. Bridle, A. Parma, P. | ESO-Garching NRAO-CV Bologna | Backflow in FRI Radio Lobes? Relativistic Jet Models of 0206+35 and 0755+37 | 6 | 5, 6, 12, 17 | 43.17 |
| A0240 | O'Sullivan, S. Gabuzda, D. | Univ. College Cork Cork | L-Band VLA Observations to Support VLBA Faraday-Rotation Studies | 20 | 30 | 3.30 |
| AP559 | Pandian, J. Momjian, E. Xu, Y. Menten, K. Goldsmith, P. | MPIfR NRAO-Socorro Purple Mountain MPIfR JPL | Accurate positions for 6.7 GHz methanol masers discovered in AMGPS | 6 | 16, 18 | 8.75 |
| AP563 | Paladino, R. Murgia, M. Beck, R. Tabatabaei, F. Orru', E. | INAF INAF-Bologna MPIfR MPIfR Innsbruck | Low frequencies observations of M51 | 90 | 12 | 6.92 |
| AP569 | Peterson, W. Mutel, R. | Iowa Iowa | Follow-up radio observation of a very bright X-ray flare on Algol | 20 | 15 | 3.59 |
| AR677 | Reid, M. Brunthaler, A. Menten, K. | Cfa MPIfR MPIfR | Mapping the Sagittarius Spiral Arm | 1.3 | 2 | 3.71 |
| AR679 | Reid, M.J. Menten, K. | Cfa MPIfR | Non-spherical radio photospheres of AGB stars | 0.7 | 10, 11, 18, 25 | 19.10 |
| AR680 | Rodriguez, L.F. Loinard, L. Trejo-Cruz, A. | UNAM UNAM UNAM | Runaway star from massive cluster of red supergiants in Scutum? | 0.7 | 2 | 2.68 |
| AR685 | Richards, G. Becker, R. Brandt, N. Fan, X. Lacy, M. Strauss, M. White, R. | Drexel Calif., Davis PSU Arizona Caltech Princeton STScI | Deep VLA Obs. of SDSS Stripe 82 | 20 | 3,4,5,6,7,8, 9,10,12,14,1 5,17,19,20,2 1,23,24,25,2 7,28,31 | 76.54 |

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| Progrm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|---|--|--|------------------------|--------------------------------|----------------|
| AS929 | Soderberg, A. Chevalier, R. Madore, B. Strauss, M. | Princeton UVA Carnegie Princeton | Toward an understanding of Progenitors of Type Ibc SN | 3.6 | 10,24,29 | 2.10 |
| AS955 | Struve, C. Morganti, R. Oosterloo, T. Emonts, B. | NFRA NFRA NFRA Columbia | The kinematics of the central regions of the young radio source B2 0258+35 | 20 | 10 | 7.69 |
| AS961 | Stockdale, C. Inmler, S. Marcaide, J-M. Panagia, N. Pooley, D. Ryder, S. Sramek, D. VanDyk, S. Weiler, K. Williams, C. | Marquette NASA Valencia STScI Madison AAO NRAO Spitzer NRL MIT | Long term monitoring of radio supernovae | 1.3, 3.6 | 1,5,6,7,23,24,26 | 19.80 |
| AS963 | Sokoloski, J. Eyres, S. Mioduszewski, A. Rupen, M. | Columbia Lancashire NRAO NRAO | First radio imaging survey for white dwarf jets | 1.3 | 1,2,3,4,17,19,23 | 12.12 |
| AS967 | Skilton, J. Aharonian, F. Brucker, J. cheung, C. Dubus, G. Fiasson, A. Funk, S. Gallant, Y. Hinton, J. Marcowith, A. Pandey-Pommier, M. Reimer, O. | Leeds Dublin Physik Inst. NASA Grenoble Montpellier II Stanford Montpellier II Leeds Montpellier II Leiden Stanford | High resolution measurement of the likely new gamma-ray binary HESS | 3.6, 6 | 30 | 2.86 |
| AT368 | Trejo-Cruz, A. Rodriguez, L.F. | UNAM UNAM | Clarifying the Nature of a Synchrotron Source in the HH 222 Streamers in Orion | 6, 20 | 16 | 3.81 |
| AT369 | Taylor, G. Rosario, D. Salviander, S. Shields, G. | UNM Lick Austin Austin | Multi-frequency imaging of two candidate binary black systems | 6,20 | 30 | 1.96 |
| AV308 | van Kerkwijk, M. Chatterjee, S. Jayawardhana, R. Lafreniere, D. | Toronto Sydney Toronto Toronto | Radio counterpart to a young star with a planetary mass candidate companion? | 6,20 | 3 | 1.40 |
| AV310 | van der Wolk, G. Barthel, P. Peletier, R. | Kapteyn Kapteyn Kapteyn | Supernova candidate in NGC5448 | 3.6, 6 | 18 | 0.88 |
| AW743 | Worrall, D. Birkinshaw, M. | Bristol Bristol | The interactions of gas and radio plasma in tight merging groups | 6, 20 | 27 | 2.74 |
| AW744 | Williams, P. Dougherty, S. | Edinburgh NRC | Monitoring the radio emission from WR125 | 3.6 | 1 | 0.92 |
| AW746 | Wang, W.-H. Cowie, L.L. Owen, F. Barger, A. | NRAO-Socorro Hawaii NRAO-Socorro Wisconsin | VLA Identification of Faint Submillimeter Sources Lensed by Abell 2390 | 20 | 19, 20, 21, 24, 26, 27 | 33.29 |
| AW748 | Wardle, J. Cheung, C. Gobelle, D. | Brandeis NASA Brandeis | VLA Imaging of the highest redshift quasars | 6,20 | 8,9,10,11,15,17,18,20,23,27,31 | 27.10 |
| BM257 | McClintock, J. Dhawan, V. Narayan, R. Reid, M. Remillard, R. | CfA NRAO CfA CfA MIT | Is the black hole in the microquasar GRS1915+105 spinning maximally? | 1.3 | 1,7,14,18,20,30 | 2.84 |
| GB067 | Bietenholz, M.F. Bartel, N. Rupen, M.P. | Hartebeesthoek York U. NRAO-Socorro | SN 1986J: Evolution of complex supernova | 6 Phased array VLBI | 25 | 15.97 |
| S1040 | Jorstad, S.G. Marscher, A.P. | Boston Univ. Boston Univ. | High resolution mapping of the gamma-ray emission regions in blazar jets | 0.7 | 22 | 5.30 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|---|---|--|-------------|-------------------|------------------------------|
| S1135 | Ray, P.S. McSwain, M.V. Roberts, M. Grundstrom, E. Ransom, S. Pooley, G.G. Dougherty, S.M. Bolton, C.T. | NRL Lehigh Stanford Univ. Vanderbilt NRAO-CV Cambridge NRC Toronto | Multiwavelength study of LS I +61 303 | ... | 16, 23, 30 | 5.55 |
| S90488 | Berger, E. Basri, G. Fleming, T. Gelino, c. Giampapa, M. Gizis, J. Johns-Krull, C. Liebert, J. Martin, E. Phan-Bao, N. Rutledge, R. Sherry, W. | Carnegie Calif., Berkeley Steward Caltech NOAO Delaware Rice Steward Florida Florida McGill NOAO | Full picture of magnetic activity in ultracool dwarfs | 4, 6 | 29 | 8.0 |
| S90602 | Karovska, M. Raymond, J. Gaetz, T. Carilli, C. | SAO SAO SAO NRAO | X-ray Jets Activity in the Symbiotic System CH Cyg | 3.6, 6 | 4 | 5.69 |
| DYNAMI | | | Dynamic scheduling | | | 271.1 |
| | Staff | NRAO | Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Software | | | 40.0 71.5 12.0 70.0 |

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| | Actual Hours | Percentage |
|--------------|---------------------|-------------------|
| Astronomy | 456.61 | 71.38 |
| Maintenance | 75.40 | 11.18 |
| Test/Calc | 111.55 | 17.44 |
| Total | 639.66 | 100.00 |

Average downtime measured in antenna hours was 9.65% of scheduled antenna hours, distributed as:

| System | Percentage |
|-----------------|-------------------|
| Antenna | 2.59 |
| Cryogenics | 2.72 |
| Electrical | 0.04 |
| EVLA | 46.61 |
| EVLA Computers | 6.99 |
| FOC/ROT | 1.91 |
| Front End | 10.91 |
| Interference | 2.22 |
| LO/IF | 5.04 |
| Mechanical | 0.22 |
| Monitor/Control | 0.45 |
| Obs Program | 0.27 |
| Other | 1.18 |
| Servo | 4.35 |
| Site Power | 1.60 |
| VLA Correlator | 6.61 |
| VLBA Recorders | 0.31 |
| Weather | 3.67 |
| Widar Testing | 2.31 |

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| Progrm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|---|---|---|----------------|----------------|-------------|
| AA321 | Aravena, M. Carilli, C. Bertoldi, F. Schinnerer, E. | Bonn NRAO-Socorro Bonn Univ. MPIA | Observing CO 1-0 in a Starbursting QSO at z=1.83 in the COSMOS field | 0.7 line | 12 | 8.05 |
| AB1292 | Beck, R. Berkhuijsen, E. Fletcher, A. | MPIfR MPIfR Univ. Newcastle | Small-scale structure of the magnetic field in M31 | 6 | 3, 9 | 15.28 |
| AC913 | Carilli, C. Capak, P. Schinnerer, E. Scoville, N. Yun, M. | NRAO Caltech MPIA Caltech UMASS | CO emission from the most distant submm galaxy | 0.7 | 13 | 2.73 |
| AC928 | Capetti, A. Baldi, R. Giovannini, G. | INAF INAF INAF | Duty cycles in low luminosity radio-loud AGN | 20 | 8,20,21 | 9.38 |
| AC938 | Chandra, P. Chevalier, R. chugai, N. Fransson, C. Soderberg, A. | NRAO UVA Inst. of Astronomy Stockholm Princeton | Exploring the mysterious Type IIIn SN within 150 Mpc | 3.6 | 25 | 1.30 |
| AD577 | Donovan, J. van Gorkom, J. Schiminovich, D. | Columbia University Columbia Columbia | Mapping the Local Early-Type Galaxy Population in HI | 20 line | 2 | 7.37 |
| AD582 | Daddi, E. Carilli, C. Dannerbauer, H. Elbaz, D. Mancini, C. Morrison, G. Riechers, D. Stern, D. Walter, F. | CEA NRAO-Socorro MPIA CEA-Saclay Comm. l'Energie Atom Hawaii-CFHT Caltech JPL MPIA | Molecular gas from two submm-selected galaxies in a z=4.056 proto-cluster | 1.3 | 5 | 18.89 |
| AD583 | Darling, J. Willett, K. | Boulder NRAO | An OH Maser survey of M31 | 20 | 5,6 | 4.67 |
| AD592 | Daddi, E. Carilli, C. Dannerbauer, H. Ebaz, D. Mancini, C. Morrison, G. Riechers, D. Stern, D. Walter, F. | CEA NRAO MPIA CEA CEA Hawaii MPIA JPL MPIA | Molecular gas from two submm-selected galaxies in a z=4.056 proto-cluster | 1.3 | 14,15,16,19,21 | 5.73 |
| AH975 | Hurley-Walker, N. | Cavendish | Follow-up Observation of Possible SNR Discovered in NVSS Data - copy | 3.6, 6, 20, 90 | 4 | 3.32 |
| AH985 | Hallinan, G. Golden, A. Antonova, A. Doyle, J.G. Bourke, S. Jardine, M. Morin, J. Donati, J-F. Delfosse, X. | NUI, Galway Ireland-Galway Armagh Armagh NUI St. Andrews Toulouse Toulouse Grenoble | Mapping the radio corona of an active M Dwarf | 3.6, 6 | 25, 26, 27 | 32.33 |
| AK679 | Koerding, E. Dhawan, V. Fender, R. Knigge, C. Rupen, M. | Southampton NRAO Southampton Southampton NRAO | Transient radio emission from cataclysmic variables | 3.6 | 25 | 1.48 |
| AK695 | Krips, M. Barvainis, R. Beelen, A. Neri, R. Peck, A. | Cfa NSF Bonn IRAM Cfa | Mapping CO in the gravitationally lensed BAL QSO SBS1520+530 | 0.7 | 12 | 2.77 |
| AK699 | Kurtz, S. Araya, E. Hofner, P. | UNAM NMIMT NMIMT | Methanol masers in high-mass protostellar objects:II | 0.7 | 5,7,8,12,14 | 10.23 |
| AK706 | Chandra, P. Kulkarni, S. Cenko, B. Fox, D. Frail, D. Harrison, F. Kasliwal, N. | NRAO Caltech Caltech Penn State NRAO Caltech Caltech | GRBs:Engines, Energetics (and Enigmas) in the GeV era | 3.6 | 18,25 | 2.22 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|-------|---|---|---|-------------|-------------------|----------------|
| AM959 | Mao, S. Brown, J. Gaensler, B.M. Taylor, A.R. Stil, J. Haverkorn, M. McClure-Griffiths, N Shukurov, A. Kronberg, P. | Jodrell Bank Caltech Sydney Calgary Calgary Calif., Berkeley ATNF Newcastle Los Alamos | Final Frontiers of the Milky Way's Magnetic Field | 20 line | 1, 1 | 11.46 |
| AM961 | Marrone, D. Carlstrom, J. Joy, M. Leitch, E. Sharp, M. | Chicago Chicago NASA JPL Chicago | Identification of radio source contamination in SZA Anisotropy Fields | 3.6 | 1,3,5,9,16,20,21 | 13.84 |
| A0236 | Orsky, E. Barvainis, R. Behar, E. Laor, A. | Israel NSF Israel Israel | Simultaneous VLA-RXTE monitoring of Radio Quiet AGN | 3.6, 6 | 2,7,12,13,26 | 4.80 |
| A0239 | Osten, R. Phan-Bao, N. Ojha, R. | Maryland Central Florida USNO | Is the Radio Emission from LP 349-25 Variable? | 3.6, 6, 20 | 23 | 8.88 |
| AP537 | Pandian, J. Menten, K. Momjian, E. Xu, Y. | MPIfR MPIfR NRAO MPIfR | Determining the SED of 6.7 GHz methanol masers | 1.3, 0.7 | 2 | 3.84 |
| AP557 | Pillai, T. Zhang, Q. Kauffmann, J. | MPIfR Cfa Cfa | Infrared Dark Clouds in Extreme Environments | 1.3 line | 12 | 8.64 |
| AP566 | Palau, A. Barrado, D. Bayo, A. Gregorio-Monsalvo, E Huelamo, N. Morales, M. Morata, O. | LAEFF LAEFF LAEFF ESO LAEFF LAEFF Academia Sinica | Centimeter emission from a peculiar proto-brown dwarf candidate | 3.6, 6 | 4 | 1.86 |
| AR624 | Riechers, D. Walter, F. Carilli, C. Weiss, A. Bertoldi, F. | Caltech MPIA NRAO-Socorro MPIfR Bonn Univ. | ISM Chemistry at Redshift 2.6: The Search for HNC emission | 1.3 line | 6, 7, 8, 13 | 23.14 |
| AR677 | Reid, M. Brunthaler, A. Menten, K. | Cfa MPIfR MPIfR | Mapping the Sagittarius Spiral Arm | 1.3 | 28 | 4.04 |
| AS929 | Soderberg, A. Chevalier, R. Madore, B. Strauss, M. | Princeton Uva Carnegie Princeton | Toward an understanding of the progenitors of Type Ibc Supernovae | 3.6 | 2.10 | 0.98 |
| AS941 | Schnee, S. Caselli, P. Goodman, A. Myers, P. | Caltech Cfa Harvard Cfa | Gas Temperature and Kinematics of the Prestellar Core TMC-1C | 1.3 line | 9, 11 | 18.36 |
| AS943 | Sajina, A. Burke, S. Coish, J. Klein, J. Massardi, M. Partridge, R.B. | Haverford Swinburne Haverford Haverford SISSA Haverford | Spectra of radio sources dominating the confusion in SZ cluster surveys | 3.6, 6 | 6 | 2.99 |
| AS944 | Skiton, J. Aharonian, F. Cheung, C. Dubus, G. Fiasson, A. Funk, S. Gallant, Y. Hinton, J. Marcowith, A. Pandey, M. Reimer, O. | Leeds Dias NASA LAOG Montpellier Stanford Montpellier Leeds Montpellier Leiden Stanford | Proposal for VLA obs. of HESS J0632+057 | 6, 20 | 2 | 1.92 |
| AS946 | Sokoloski, J. Kuuikers, E. Mioduszewski, A. Rupen, M. | Columbia ESA NRAO Columbia | Bi-weekly obs. of the Fast Nova V2491 Cyg | 0.7 | 19 | 4.50 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|--|--|---|-------------------------|--------------------|--------------------------------------|
| AS961 | Stockdale, C. Immier, S. Marcaide, J-M. Panagia, N. Pooley, D. Sramek, R. VanDyk, S. Weiler, K. Williams, c. | Marquette NASA Valencia STScI Wisconsin NRAO Caltech NRL MIT | Long term monitoring of radio supernovae | 1.3 | 25,26,27,28, 30 | 25.98 |
| AS966 | Soderberg, A. Chandra, P. | Princeton NRAO | Search for radio emission from nature's brightest supernova:2008es | 1.3 | 2,5 | 2.00 |
| AT363 | Tarchi, A. Braatz, J. Brunthaler, A. Castangia, P. Henkel, C. Menten, K. | INA NRAO MPIfR MPIfA MPIfR MPIfR | Continuum emission and water maser line monitoring in the megamaser galaxy | 1.3 | 25 | 0.94 |
| AT367 | Tsai, C-W. Beck, S. Turner, J. | UCLA Tel Aviv UCLA | Imaging radio infrared supernebulae in starburst galaxies at 7 mm | 0.7 | 13 | 0.93 |
| AW749 | Walter, F. Bertoldi, F. Carilli, C. | MPIA Bonn NRAO | Exploratory proposal to detect CO emission at z=6.26 | 0.7 | 29 | 2.68 |
| AW750 | Wagg, J. Edmonds, R. Wilner, D. Humphreys, L. Menten, K. Carilli, C. Momjian, E. | NRAO NMSU Cfa Cfa MPIfE NRAO NRAO | Confirming a tentative detection of H2O megamaser emission at z~2.5 | 6 line EXPLORE | 15, 18 | 9.41 |
| AW751 | Wagg, J. Carilli, C. Edmonds, R. Humphreys, L. Menten, K. Momjian, E. Wilner, D. | NRAO NRAO NMSU Cfa MPIfR NRAO Cfa | Continued obs. of water megamaser emission in submm galaxies at z~2.5 | 6 | 28,29 | 6.72 |
| AY187 | Yun, M. Tripp, T. Borthakur, S. | Massachusetts Massachusetts UMass | Intragroup HI in two galaxy groups associated with a QSO absorption line system | 20 line | 1 | 9.83 |
| BM257 | McClintock, J. Dhawan, V. Narayan, R. Reid, M. Remillard, R. | Cfa NRAO Cfa Cfa MIT | Is the Black Hole in the Microquasar GRS1915+105 spinning maximally? | 1.3 | 10,23 | 0.92 |
| BM284 | Momjian, E. Riechers, D. Carilli, C. | NRAO-Socorro Caltech NRAO-Socorro | Testing the AGN vs. AGN+starburst hypothesis in two z~6 QSOs | 20 Phased array VLBI | 28 | 9.32 |
| DYNAMI | | | Dynamic scheduling | | | 297.0 |
| | Staff | NRAO | Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Software General tests | | | 29.0 98.0 12.0 65.0 30.0 |

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| | Actual Hours | Percentage |
|--------------|---------------------|-------------------|
| Astronomy | 303.72 | 50.01 |
| Maintenance | 98.00 | 16.14 |
| Test/Calc | 205.58 | 33.85 |
| Total | 607.30 | 100.00 |

Average downtime measured in antenna hours was 7.82% of scheduled antenna hours, distributed as:

| System | Percentage |
|-----------------|-------------------|
| Antenna | 4.78 |
| Cryogenics | 4.67 |
| Electrical | 1.56 |
| EVLA | 34.28 |
| Feed | 0.05 |
| FOC/ROT | 8.28 |
| Front End | 7.87 |
| HVAC | 0.06 |
| Interference | 13.69 |
| LO/IF | 3.29 |
| Mechanical | 0.24 |
| Monitor/Control | 1.32 |
| Other | 1.69 |
| Servo | 14.92 |
| Site Power | 0.63 |
| VLA Correlator | 0.62 |
| Weather | 0.42 |
| Widar Testing | 1.63 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|-------|--|--|--|-------------------|--------------------|-------------|
| AA320 | Alves, F. Vlemmings, W.H.T. Girart, J.M. Torrelles, J.M. Rao, R. | Catalunya Bonn Catalunya IEEC-Barcelona Hawaii | Probing magnetic fields in collapsing magnetized cores through H2O masers . II | 1.3 line | 10, 11 | 13.99 |
| AC926 | Codella, C. Beltran, M.T. Cesaroni, R. Moscadelli, L. Vig, S. | CNR-Roma Barcelona Arcetri Arcetri INAF-Arcetri | The jet/disk system in the high-mass protostar G24.78+0.08 | 0.7 line | 9 | 3.85 |
| AC930 | Chynoweth, K. Holley-Bockelmann, K Langston, G. | Vanderbilt Vanderbilt NRAO-GB | A Search for HVC Analogs in Nearby Galaxy Groups | 20 line | 4 | 6.72 |
| AD565 | Dougherty, S. Beasley, A. Claussen, M. O'Connor, E. Pittard, J. | NRC NRAO-ALMA NRAO PEI Leeds | High-frequency constraints to models of non-thermal emission in WR140 | 0.7, 3.6 | 22 | 0.99 |
| AD580 | Daddi, E. Carilli, C. Dannerbauer, H. Dickinson, M. Elbaz, D. Morrison, G. Riechers, D. Stern, D. Walter, F. | CEA NRAO-Socorro MPIA NOAO CEA Hawaii-CFHT MPIA JPL MPIA | A dominant population of low-excitation gas rich galaxies at z=1.5 ? | 0.7 | 1, 2, 3, 4, 8, 9 | 35.76 |
| AD582 | Daddi, E. Carilli, C. Dannerbauer, H. Elbaz, D. Mancini, C. Morrison, G. Riechers, D. Stern, D. Walter, F. | CEA NRAO-Socorro MPIA CEA CEA Hawaii-CFHT MPIA JPL MPIA | Molecular gas from two submm-selected galaxies in a z=4.056 proto-cluster | 1.3 | 22, 23, 24, 25, 30 | 29.95 |
| AD583 | Darling, J. Willett, K. | Univ. of Colorado Colorado | An OH Maser Survey of M31: First step toward proper motion | 20 | 3,19,13,25 | 9.69 |
| AD584 | de Gregorio-Monsalvo Chandler, C. Kuiper, T. Gomez, J.F. Torrelles, J.M. Morata, O. Anglada, G. | ESO NRAO-Socorro JPL IAC IEEC-Barcelona ESA-LAEFF IAA | CCS and NH3 studies in the extremely young low-mass Class 0 protostar GF9-2 | 1.3 line | 11, 23 | 12.79 |
| AF472 | Frau, P. Anglada, G. Beltran, M. Estalella, R. Girart, J-M. | Catalunya Adalucia Barcelona Barcelona Catalunya | 1.3 Continuum survey of very young thermal radio jets | 1.3, 3.6 | 3 | 2.39 |
| AG804 | Gelfand, J. Chryssa, K. Gaensler, B. Taylor, G. vanderHorst, A. | NYU NASA Sydney UNM NASA | Origin of the radio emission from flaring Magnetar SGR 0501+4516 | 3.6, 6, 20 | 27,31 | 6.11 |
| AH927 | Hunter, D. Brinks, E. Elmegreen, B. Rupen, M. Simpson, C. Walter, F. Westpfahl, D. Young, L. | Lowell Hertfordshire IBM NRAO Florida MPIfR NMIMT NMIMT | LITTLE THINGS Survey | 20 | 1,2,3,5 | 4.32 |
| AH967 | Hewitt, J. Yusef-Zadeh, F. Roberts, D. | Northwestern Northwestern Northwestern | Mapping the post-shock magnetic field in W44 with sensitive OH polarization | 20 line | 21, 28 | 14.42 |
| AH972 | Harrison, T. Dhawan, V. Rupen, M. | NMSU NRAO NRAO | Is the mid-infrared excess in intermediate polars due to synchrotron emission? | 3.6 | 25,26 | 4.97 |
| AJ348 | Jackson, N. Battye, R. Gabuzda, D. Taylor, A.R. | Manchester Manchester Cork Calgary | Radio source polarization for CMB foreground subtraction | 0.7, 1.3, 3.6, 20 | 1 | 17.08 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|-------|--|---|---|------------------|-----------------------------|----------------|
| AK681 | Cenko, B. Chandra, P. Fox, D. Frail, D. Harrison, F. Kasliwal, M. Kulkarni, S. | Caltech UVA Penn State NRAO Caltech Caltech Caltech | GRBs: Engines, energetics (and enigmas) | 3.6 | 13,14 | 0.95 |
| AK699 | Kurtz, S. Araya, E. Hofner, P. | UNAM NMINT NMINT | Methanol masers in high-mass protostellar objects:II | 0.7 | 26,31 | 3.80 |
| AK710 | Kulkarni, S. | Caltech | New soft gamma-ray repeater 0501+4516 | 3.6, 20 | 24,25 | 3.36 |
| AL721 | Lopez-Sepulcre, A. Fontani, F. Brand, J. Cesaroni, R. Walmsley, C. Wyrowski, F. | Arcetri IRA IRA-Bologna Arcetri Arcetri MPIfR | Imaging infalling clumps around high-mass young stellar objects | 1.3 line | 3, 8 | 9.61 |
| AL723 | Lang, C. Hadfield, L. Messineo, M. Figer, D. Gingfeng, Z. | Univ. Iowa RIT Rochester STScI RIT | Radio Emission From Young Massive Stellar Clusters in our Galaxy | 3.6, 6 | 4 | 11.44 |
| AM947 | Mason, P. Singh, K. Harrison, T. Howell, S. Girish, V. Saikia, D. | NMSU TIFR NMSU NOAO Tata Inst. NCRA-Pune | Phased Resolved Observations of the Highest Field Polar AR UMA | 3.6, 6, 20 | 31 | 6.91 |
| AM951 | Marti, J. Benaglia, P. Romero, G. | U. Jaen La Plata Instituto Argentino | Search for non-thermal emission from a stellar bow shock | 6 | 20 | 3.48 |
| AM959 | Mao, S. Brown, J. Gaensler, B.M. Taylor, A.R. Stil, J. Haverkorn, M. McClure-Griffiths, N. Shukurov, A. Kronberg, P. | Jodrell Bank Caltech CfA Calgary Calgary Berkeley ATNF Newcastle Los Alamos | Final Frontiers of the Milky Way's Magnetic Field | 20 line | 25, 30, 31 | 11.53 |
| AM960 | Meier, D. Beck, S. Turner, J. | NRAO Tel Aviv UCLA | Imaging HI Emission in the obscured LIRG, IRAS 04296+2923 | 20 | 4,7,8 | 5.56 |
| AM961 | Marrone, D. Sharp, M. Carlstrom, J.E. Joy, M. Leitch, E.M. | Chicago Chicago Chicago NASA-MSFC CalTech | Identification of radio source contamination in SZA anisotropy fields | 3.6 | 2, 5, 6, 7 | 30.27 |
| A0215 | Ott, J. Skillman, E. Dalcanton, J. Walter, F. Koribalski, B. West, A. | ATNF Minnesota Washington MPIA ATNF Calif.-Berkeley | VLA and HST: Star Formation History and ISM Feedback in Nearby Galaxies | 20 line LARGE | 10, 11, 15, 16, 17, 21 | 73.44 |
| A0236 | Orsky, E. Barvainis, R. Behar, E. Laor, A. | Israel NSF Israel Israel | Simultaneous VLA-RXTE monitoring of radio quiet AGN | 3.6, 6 | 1,5,8,15,18, 21,26,28,29 | 8.82 |
| A0238 | Ofek, E.O. Chandra, P. Frail, D. Gal-Yam, A. Kulkarni, S. Gehrels, N. | Tel Aviv University Virginia NRAO-Socorro Caltech Caltech NASA-GSFC | A VLA survey for "long"-duration radio transients | 6 | ... | 23.41 |
| AP550 | Parma, P. deRuiter, H. Govoni, F. Murgia, M. | INAF Bologna Astrofisica INAF | Study of a complete sample of dying radio sources | 3.6, 6 | 29.0 | 3.95 |
| AP554 | Palen, S. | Weber | Search for non-thermal emission from Proto-Planetary Nebulae I | 3.6 | 26,31 | 2.91 |
| AR642 | Rupen, M. Dhawan, V. Mioduszewski, A. | NRAO NRAO NRAO | VLA Monitoring of X-ray binaries, transients, and related sources | 3.6, 6, 20 | 2 | 0.89 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|---|--|---|--------------------------------|-------------------|----------------|
| AR670 | Rygl, K. Wyrowski, F. Menten, K. Schuller, F. | MPIfR MPIfR MPIfR MPIfR | Ammonia imaging of massive star forming clumps in high extinction clouds | 1.3 line | 12 | 6.70 |
| AR672 | Rodriguez-Franco, A. Martin-Pintado, J. Jimenez-Serra, I. Caselli, P. Chandler, C. Hoare, M.G. | CSIC IEM-CSIC CSIC CfA NRAO-Socorro Leeds | On the origin of the narrow SiO emission toward the NGC1333 star forming region | 0.7 line | 18 | 6.47 |
| AR674 | Riechers, D. Carilli, C. Walter, F. Wang, R. Maiolino, R. Wagg, J. | MPIA NRAO-Socorro MPIA NRAO-Socorro Arcetri NRAO-Socorro | Total Molecular Gas Masses of z>5 Quasar Host Galaxies | 1.3 | 22, 28, 29, 30 | 26.73 |
| AS921 | Rupen, M. Mioduszewski, A. Mukai, K. Sokoloski, J. | NRAO NRAO NASA Columbia | Multi-wavelength monitoring of CH Cygni | 3.6, 6, 20 | 19,21 | 0.98 |
| AS929 | Soderberg, A. Chevalier, R. Madore, B. Strauss, M. | Princeton UVA Carnegie Obs. Princeton | Toward an understanding of the progenitors of Type Ibc SN | 3.6 | 13 | 0.48 |
| AS937 | Sakai, N. Sakai, T. Yamamoto, S. Lim, J. | Tokyo NAO-NRO Tokyo Academia Sinica | Negative Ion Distribution in a Low-Mass Star Forming Region | 1.3 line | 12, 14 | 14.53 |
| AS939 | Soida, M. Urbanik, M. Balkowski, C. Chyzy, K.T. Knapik, J. | Jagiellonian Jagiellonian Paris Obs. Jagiellonian Jagiell. Univ. | Compact galaxy groups as a laboratory of intergalactic shocked magnetic fields | 6, 20 | 14, 18, 22 | 29.15 |
| AS943 | Sajina, A. Burke, S. Coish, J. Klein, J. Massardi, M. Partridge, B. | Haverford Swinburne Haverford Haverford SISSA Haverford | Spectra of radio sources dominating the confusion in SZ cluster surveys | 1.3, 3.6, 6 | 7 | 2.73 |
| AS946 | Sokoloski, J. Kuulkers, E. Mioduszewski, A. Rupen, M. | Columbia ESA NRAO NRAO | Bi-weekly observations of the fast nova V2491 Cyg | 0.7 | 23, 24 | 2.95 |
| AV300 | Venturi, T. Cassano, R. Brunetti, G. Giacintucci, S. Dallacasa, D. Kassim, N.E. Lane, W. | Bologna Bologna Bologna Bologna NRL NRL | Testing particle re-acceleration in the cluster A521 | 6, 20 | 24, 25 | 11.67 |
| BH157 | Hallinan, G. Brisken, W. Bourke, S. Doyle, G. Antonova, A. Golden, A. | NUI, Galway NRAO-Socorro NUI Armagh Armagh Ireland-Galway | Using the HSA to resolve two binary ultracool dwarf systems | 3.6, 6 Phased array VLBI | 3 | 2.84 |
| BI035 | Imai, H. Deguchi, S. Nakashima, J. Diamond, P.J. | Kagoshima U. NAOJ-Nobeyama Hong Kong Jodrell Bank | Proper motions of the W43A SiO masers | 0.7 Phased array VLBI | 29 | 6.19 |
| BM267 | Mutel, R. Gudel, M. Peterson, W. | Iowa Paul Scherrer Iowa | Time-Lapse Imaging of Algol's Radio Magnetosphere | 2 Phased array VLBI | 16 | 10.61 |
| BO031 | Osten, R. Ojha, R. Ngoc, P. | Maryland USNO Central Florida | Ultracool dwarfs at high spatial resolution | 3.6, 6 Phased array VLBI | 3 | 4.32 |
| DYNAMI | | | Dynamic scheduling | | | 152.5 |
| | Staff | NRAO | Baselines, Pointing, Delays | | | 34.0 |
| | | | Maintenance | | | 62.0 |
| | | | Polarization Calibrator Monitoring | | | 12.0 |
| | | | Software | | | 54.0 |

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| | Actual Hours | Percentage |
|--------------|---------------------|-------------------|
| Astronomy | 489.78 | 72.80 |
| Maintenance | 62.0 | 9.22 |
| Test/Calc | 120.96 | 17.98 |
| Total | 672.74 | 100.00 |

Average downtime measured in antenna hours was 5.85% of scheduled antenna hours, distributed as:

| System | Percentage |
|-----------------|-------------------|
| Cryogenics | 4.65 |
| EVLA | 50.16 |
| EVLA Computers | 12.42 |
| Feed | 0.29 |
| FOC/ROT | 6.52 |
| Front End | 6.63 |
| HVAC | 0.13 |
| LO/IF | 11.67 |
| Mechanical | 0.17 |
| Monitor/Control | 0.16 |
| Other | 2.84 |
| Servo | 0.86 |
| Site Power | 0.72 |
| VLA Correlator | 0.13 |
| Weather | 2.56 |
| Widar Testing | 0.10 |

VLA Utilization Report July 2008

| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|--|--|---|-------------|-------------------|----------------|
| AA319 | Ashby, M. Rosolowsky, E. Willner, S.P. Chakrabarti, S. Wang, Z. Fazio, G. | CfA Calif.-Berkeley CfA SNBNCBS CfA CfA | Completing 1.4 GHz Star Formation Rate Estimates for the Reference Survey Sample | 20 | 4 | 2.83 |
| AA322 | Arce, H. Pineda, J. Caselli, P. Goodman, A. Tafalla, M. Kauffmann, J. Anglada, G. | AMNH CfA CfA Harvard OAN CfA IAA | Evolution of Ammonia Cores in Perseus | 1.3 line | 15, 18, 19, 26 | 23.41 |
| AB1293 | Beltran, M.T. Codella, C. Viti, S. Cesaroni, R. | Barcelona CNR-Roma University London Arcetri | The possible detection of glycolaldehyde in massive protostars | 1.3 line | 8, 9, 16 | 17.15 |
| AB1298 | Busquet, G. Estalella, R. Palau, A. Sanchez-Monge, A. | Barcelona Barcelona Barcelona Barcelona | Tracing the earliest stages of massive star formation in G14.2-0.60 | 6 | 3,8 | 4.47 |
| AC861 | Carilli, C. VandenBout, P.A. Solomon, P.M. Gao, Y. | NRAO-Socorro NRAO-CV Stoney Brook Purple Mountain | Observations of dense star forming gas in SMM J16359 | 1.3 line | 14, 17, 18, 19 | 28.36 |
| AC881 | Chandra, P. Chevalier, R. Chugai, N. Fransson, C. Soderberg, A. | UVA UVA Moscow Stockholm Caltech | Exploring IIn supernova within 150 Mpc with the VLA | 3.6 | 1 | 0.49 |
| AC928 | Capetti, A. Baldi, R. Giovannini, G. | INAF INAF INAF | Duty cycles in low luminosity radio-loud AGN | 20 | 3 | 1.92 |
| AC930 | Chynoweth, K. Holley-Bockelmann, K. Langston, G. | Vanderbilt Vanderbilt NRAO-GB | A Search for HVC Analogs in Nearby Galaxy Groups | 20 line | 10 | 0.42 |
| AD579 | Dedes, L. Hieret, C. Kalberla, P. | RAIUB MPIFR Bonn Univ | A Galactic Halo HI clump showing evidence for solid body rotation. | 20 line | 7, 14 | 11.67 |
| AD580 | Daddi, E. Carilli, C. Dannerbauer, H. Dickinson, M. Elbaz, D. Morrison, G. Riechers, D. Stern, D. Walter, F. | CEA NRAO-Socorro MPIA NOAO CEA Hawaii-CFHT MPIA JPL MPIA | A dominant population of low-excitation gas rich galaxies at z=1.5 ? | 0.7 | 28 | 6.65 |
| AD583 | Darling, J. Willett, K. | Colorado Colorado | An OH Maser survey of M31 | 20 | 14,16,22,29 | 10.23 |
| AF471 | Fontani, F. Caselli, P. Brand, J. Cesaroni, R. Zhang, Q. | IRA CfA IRA-Bologna Arcetri CfA | Unveiling the nature of the deuterated cores in high-mass star forming regions | 1.3 line | 11, 13 | 14.98 |
| AF472 | Frau, P. Anglada, G. Beltran, M. Estalella, R. Girart, J-M. | Catalunya Andalucia Barcelona Barcelona Catalunya | 1.3 continuum survey of very young thermal radio jets | 1.3, 3.6 | 10,25,29 | 7.75 |
| AG725 | Gao, Y. Carilli, C. Wang, J. Liu, F. | Purple Mountain NRAO-Socorro Chinese Academy Purple Mountain Obs. | CS(1-0) emission in ultraluminous infrared galaxies | 0.7 | 15, 24, 30 | 8.04 |
| AG784 | Giovannini, G. Feretti, L. Bonafede, A. Govoni, F. Murgia, M. | Bologna Bologna INAF-Bologna IRA-Bologna Bologna | Intergalactic Magnetic Fields in a Large Scale Filament | 20, 90 | 24 | 5.76 |
| AG786 | Galvan-Madrid, R. Ho, P. Rodriguez, L. Zhang, Q. | CfA CfA UNAM CfA | Hypercompact HII region G24 A1 | 0.7, 20 | 6,7 | 3.99 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|-------|---|---|--|-------------------|-----------------------------|----------------|
| AG789 | Goldston, J. Grecvich, J. Putman, M. Heiles, C. | Calif.-Berkeley Michigan Michigan Calif.-Berkeley | A Candidate Local Group Dwarf Galaxy | 20 line | 21, 26 | 13.07 |
| AH927 | Hunter, D. Elmegreen, B. Simpson, C. Walter, F. Brinks, E. Young, L. Westpfahl, D. Rupen, M. | Lowell Obs. IBM Florida Int. MPIA Hertfordshire NMIMT NMIMT NRAO-Socorro | The LITTLE THINGS Survey | 20 line LARGE | 6, 7, 20, 23, 25 | 36.86 |
| AH971 | Hirota, T. Yamamoto, S. Sakai, N. | NAOJ-VERA Tokyo Tokyo | Centrally peaked CCS distribution of Class 0 protostellar core L483? | 0.7, 1.3 line | 1 | 8.48 |
| AH975 | Hurley-Walker, N. | Manchester | Follow-up Observation of Possible SNR Discovered in NVSS Data - copy | 3.6, 6, 20, 90 | 1 | 3.15 |
| AJ347 | Jamrozy, M. Kuligowska, E. Machalski, J. Saikia, D. Wierbowska, D. | Jagiellonian Jagiellonian Jagellonian TIFR Jagiellonian | Spectral and dynamical age analyses of the largest radio galaxy in the universe | 6 | 3 | 0.97 |
| AJ349 | Jimenez-Serra, I. Caselli, P. Martin-Pintado, J. Chandler, C. Rodriguez-Franco, A. | CSIC CfA IEM-CSIC NRAO-Socorro CSIC | Revealing the kinetic temperature in the magnetic precursor of C-shocks in L1448 | 1.3 line | 17, 21, 28 | 12.11 |
| AK681 | Frail, D. Cenko, B. Chandra, P. Fox, D. Harrison, F. Kasliwal, M. Kulkarni, S. | NRAO Caltech UVA Penn State Caltech Caltech Caltech | GRBs:Engines, Energetics (and Enigmas) | 3.6 | 3,24 | 1.46 |
| AL725 | Lin, Y-T. Partridge, R.B. | Princeton Haverford | SED of radio sources in 0.3 galaxy clusters II | 0.7, 1.3 | 14 | 2.39 |
| AM952 | Monnier, J. Danchi, W. Greenhill, L. Tuthill, P. | Ann Arbor NASA CfA Sydney | Orbital period and fundamental parameters of colliding wind WR 112 | 3.6 | 12 | 0.95 |
| AM959 | Mao, S. Brown, J. Gaensler, B.M. Taylor, A.R. Stil, J. Haverkorn, M. McClure-Griffiths, N Shukurov, A. Kronberg, P. | Jodrell Bank Caltech CfA Calgary Calgary Berkeley ATNF Newcastle Los Alamos | Final Frontiers of the Milky Way's Magnetic Field | 20 line | 1, 3, 4, 5, 8, 10, 12 | 40.94 |
| AM960 | Meier, D. Beck, S. Turner, J. | NRAO Tel Aviv UCLA | Imaging HI Emission in the obscured LIRG, IRAS 04296+2923 | 20 | 20 | 1.78 |
| AO215 | Ott, J. Dalcanton, J. Koribalski, B. Skillman, E. Walter, F. West, A. | ATNF Univ. Washington ATNF Minnesota MPIFR Calif., Berkeley | VLA and HST:Star formation history and ISM feedback in nearby galaxies | 20 | 10,11,12,13, 14,18,26,31 | 18.21 |
| AO230 | O'Dea, C. Kharb, P. Daly, R. Baum, S. | Rochester Purdue Penn State Rochester | High Redshift Powerful Radio Galaxies | 6 | 8 | 3.50 |
| AO235 | Angles, D. Araya, E. Hofner, P. Morales, J. Olm, L. | Puerto Rico NMIMT NMIMT Puerto Rico Arcetri | Candidate high-mass protostellar objects revealed by BLAST | 1.3 | 21 | 2.77 |
| AO236 | Orsky, E. Barvainis, R. Behar, E. Laor, A. | Israel NSF Israel Israel | Simultaneous VLA-RXTE monitoring of radio quiet AGN | 1.3, 3.6, 6 | 2,5,8,10,30 | 4.90 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|-------|---|--|---|--------------------|-------------------|----------------|
| AO238 | Ofek, E.O. Chandra, P. Frail, D. Gal-Yam, A. Kulkarni, S. Gehrels, N. | Tel Aviv University Virginia NRAO-Socorro Caltech Caltech NASA-GSFC | A VLA survey for "long"-duration radio transients | 6 | 15, 18, 19 | 9.46 |
| AP554 | Palan, S. | Weber State | Search for non-thermal emission from Proto-planetary nebulae I | 3.6 | 1,7,8 | 2.95 |
| AR601 | Riechers, D. Walter, F. Weiss, A. Carilli, C. Bertoldi, F. | MPIA MPIA MPIFR NRAO-Socorro Bonn Univ. | Search for CO(1-0) emission in the z=4.4 QSO BRI 1335-0417 | 1.3 line | 11, 12, 13 | 20.16 |
| AR642 | Rupen, M. Dhawan, V. Mioduszewski, A. | NRAO NRAO NRAO | VLA Monitoring of X-ray binaries, transients, and related sources | 3.6, 6, 20 | 1 | 1.0 |
| AR656 | Remijan, A. Cordiner, M. Hollis, M. Jewell, P. Lovas, F. Markwick-Kemper, A. Milar, T. | NRAO Queens NASA NRAO NIST Manchester Queens | High spatial and spectral obs. of C6H and C6H toward IRC+10216 | 0.7 | 1 | 2.58 |
| AR670 | Rygl, K. Wypowski, F. Menten, K. Schuller, F. | MPIFR MPIFR MPIFR MPIFR | Ammonia imaging of massive star forming clumps in high extinction clouds | 1.3 line | 15, 29 | 12.18 |
| AR672 | Rodriguez-Franco, A. Martin-Pintado, J. Jimenez-Serra, I. Caselli, P. Chandler, C. Hoare, M.G. | CSIC IEM-CSIC CSIC CfA NRAO-Socorro Leeds | On the origin of the narrow SiO emission toward the NGC1333 star forming region | 0.7 line | 29, 31 | 12.45 |
| AR673 | Riechers, D. Walter, F. Carilli, C. Weiss, A. | MPIA MPIA NRAO-Socorro MPIFR | Measuring the Low-Excitation Molecular Gas Content of MIPS J1428+3526 at z=1.325 | 0.7 line | 5 | 6.10 |
| AR675 | Riechers, D. Walter, F. Carilli, C. Weiss, A. Henkel, C. | MPIA MPIA NRAO-Socorro MPIFR MPIFR | Molecular Mass Estimates at High z: A Search for ^{13}CO toward J2322+1944 (z=4.1) | 0.7 | 3, 6, 7 | 22.33 |
| AS921 | Rupen, M. Mioduszewski, A. Mukai, K. Sokoloski, J. | NRAO NRAO NASA Columbia | Multi-wavelength monitoring of CH Cygni | 1.3, 2,3,6,6,20 | 8 | 0.49 |
| AS929 | Soderberg, A. Chevalier, R. Madore, B. Strauss, M. | Princeton UVA Carnegie Princeton | Toward an understanding of the progenitors of Type Ibc SN | 3.6 | 19,22 | 3.80 |
| AS943 | Sajina, A. Burke, S. Coish, J. Klein, J. Massardi, M. Partridge, B. | Haverford Swinburne Haverford Haverford SISSA Haverford | Spectra of radio dominating the confusion in SZ Cluster surveys | 3.6 | 17,25 | 6.55 |
| AS944 | Skilton, J. Aharonian, F. Cheung, C. Dubus, G. Funk, S. Gallant, Y. Hinton, J. Marcowith, A. Pandey, M. Reimer, O. | Leeds Dias NASA LAOG Stanford Univ. Montpellier II Leeds Universite Montpelli Leiden Standord | Proposal for VLA obs. of HESS J0632+057 | 20 | 25 | 1.93 |
| AS946 | Rupen, M. Sokoloski, J. Kuulkers, E. Mioduszewski, A. | NRAO Columbia ESA NRAO | Bi-weekly obs. of the fast Nova V2491 Cyg | 0.7 | 9 | 1.50 |
| AS951 | Soderberg, A. Berger, E. | Princeton Carnegie | Follow-up for the mysterious transient in NGC 300 | 3.6, 6 | 26 | 0.99 |
| AT367 | Beck, S. Turner, J. | Tel Aviv Calif., Los Angeles | Imaging radio-infrared supernebulae in starburst galaxies at 7mm | 0.7 | 6 | 1.43 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|--|---|--|-------------------------|----------------|--------------------------------------|
| AY185 | Yusef-Zadeh, F. Reid, M. Cotton, B. Roberts, D. Wardle, M. genzel, r. Menten, K. | Northwestern Cfa NRAO-CV Northwestern Macquarie MPIfR MPIfR | Simultaneous VLA and VLBA Monitoring of Flare Emission from Sgr A* | 0.7, 1.3, 2 | 24, 25 | 14.26 |
| AY190 | Barthakur, S. Bowen, D. Tripp, T. | UMass Princeton UMass | Extended HI disk of UGC 7408, a Galaxy QSO Pair | 20 | 6 | 1.92 |
| AZ176 | Zwaan, M.A. Meurer, G. Ryan-Weber, E. Webster, R. Dopita, M. Knezek, P.M. | ESO Montreal Cambridge Melbourne ANU WIYN Obs. | Star formation and kinematics in HI-selected galaxies | 20 line | 20, 27 | 14.13 |
| BD134 | Dougherty, S.M. Pittard, J.M. Kennedy, M. Beasley, A.J. Claussen, M.J. | NRC Leeds Victoria NRAO-Santiago NRAO-Socorro | Wind-collision evolution in WR140 | ... Single antenna VLBI | 28 | 12.0 |
| BI035 | Imai, H. Deguchi, S. Nakashima, J. Diamond, P.J. | Kagoshima U. NAOJ-Nobeyama Hong Kong Jodrell Bank | Proper motions of the W43A SiO masers | 0.7 Phased array VLBI | 20 | 5.14 |
| BM267 | Mutel, R. Gudel, M. Peterson, W. | Iowa Paul Scherrer Iowa | Time-Lapse Imaging of Algol's Radio Magnetosphere | 2 Phased array VLBI | 4, 12, 26 | 27.84 |
| DYNAMI | | | Dynamic scheduling | | | 133.0 |
| | Staff | NRAO | Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Software Students | | 3, 5 | 40.0 71.5 12.0 66.0 3.81 |

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| | Actual Hours | Percentage |
|--------------|---------------------|-------------------|
| Astronomy | 472.69 | 70.39 |
| Maintenance | 71.50 | 10.65 |
| Test/Calc | 127.34 | 18.96 |
| Total | 671.53 | 100.00 |

Average downtime measured in antenna hours was 8.28% of scheduled antenna hours, distributed as:

| System | Percentage |
|-----------------|-------------------|
| Antenna Pads | 0.17 |
| Cryogenics | 3.30 |
| EVLA | 58.64 |
| EVLA Computers | 2.50 |
| FOC/ROT | 1.02 |
| Front End | 9.79 |
| HVAC | 0.24 |
| LO/IF | 6.45 |
| Mechanical | 0.06 |
| Monitor/Control | 3.17 |
| Obs. Program | 4.94 |
| Other | 0.54 |
| Servo | 4.86 |
| Site Power | 0.28 |
| VLA Correlator | 4.03 |
| Weather | 0.01 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|---|---|---|-------------|-------------------|----------------|
| AB1264 | Bournaud, F. Duc, P.A. Koribalski, B. Boquien, M. Lisenfeld, U. Weilbacher, P. Revaz, Y. Amram, P. Brinks, E. | CEA Saclay ATNF CEA-Saclay IAA Inst. of Astroph. Paris Obs. Marseille Hertfordshire | Probing dark matter in the tidal tails of NGC7252 | 20 line | 13 | 3.84 |
| AB1298 | Busquet, G. Estalella, R. Palau, A. Sanchez-Monge, A. | Barcelona Barcelona Barcelona Barcelona | Tracing the earliest stages of massive star formation in G14.2-0.60 | 6 | 27,29,30 | 4.38 |
| AB1310 | Bolatto, A. Goldstein, J. Gordon, K. Leroy, A. Walter, F. | Maryland Maryland Arizona MPIFA MPIFA | Galactic foreground of I Zw 18 | 20 | 26 | 1.94 |
| AC881 | Chandra, P. Chevalier, R. Chugai, N. Fransson, C. Soderberg, A. | Virginia Virginia Moscow Stockholm Caltech | Exploring 1In SN within 150 Mpc with the VLA | 3.6 | 13 | 0.96 |
| AC913 | Carilli, C. Schinnerer, E. Yun, M. Capak, P. Scoville, N. | NRAO-Socorro MPIA Massachusetts U. of Hawaii Caltech | CO emission from the most distant submm galaxy | 0.7 | 13, 14, 22 | 18.54 |
| AC928 | Capetti, A. Baldi, R. Giovannini, G. | INAF INAF INAF | Duty cycles in low luminosity radio-loud AGN | 20 | 27 | 1.96 |
| AC929 | Clarke, T.E. Schmitt, H.R. Taylor, G.B. Kassim, N.E. | NRL NRL UNM NRL | Another Piece of a Big Puzzle: Probing the Northern Middle Lobe of Cen A | 90 line | 7 | 3.05 |
| AC931 | Cheung, C. | NASA | Search for variable radio source in transient AGILE Cygnus Source Field | 20 | 3 | 0.96 |
| AD565 | Dougherty, S. Beasley, A. Claussen, M. O'Connor, E. Pittard, J. | NRC NRAO NRAO DRAO Leeds | High frequency constraints to models of non-thermal emission in WR140 | 0.7, 3.6 | 14 | 1.00 |
| AD575 | Dowell, J. vanZee, L. | Indiana Indiana | Deciphering the nature of unusually extended galactic disks | 20 | 24 | 2.93 |
| AD585 | Darling, J. Giovannelli, R. Macdonald, E. Willett, K. | Colorado Cornell Colorado NRAO | An unusual new OH megamaser and starburst wind at z=0.2 | 20 | 01 | 0.95 |
| AG778 | Giovannini, G. Bonafede, A. Feretti, L. Govoni, F. | INAF INAF INAF ASTRO | A1213:a low luminosity X-ray cluster with a possible radio halo | 20 | 2 | 1.92 |
| AG788 | Goldston, J. Heiles, C. | Calif.-Berkeley Calif.-Berkeley | Galactic Hyperpressure Objects: Dark Matter Candidates? | 20 line | 28 | 8.96 |
| AG791 | Tafoya, D. Gomez, Y. | UNAM UNAM | Search for H2CO maser emission toward IRAS 17347-3139 | 6 | 27 | 1.0 |
| AG792 | Gelfand, J. Brogan, C.L. Lemiere, A. Slane, P.O. Kassim, N.E. Ng, C. Lazio, J. MacFadyen, A. | Cfa NRAO-CV Cfa Cfa NRL Sydney NRL NYU | The Origin of the TeV emission from Supernova Remnants G11.0-0.0 & G5.71-0.08 | 6, 20 line | 11 | 5.28 |
| AH927 | Hunter, D. Brinks, E. Elmegreen, B. Rupen, M. Simpson, C. Walter, F. Young, L. | Lowell Hertfordshire IBM NRAO Florida MPIA NMIMT | LITTLE THINGS Survey | 20 | 1,3,11 | 6.25 |
| AH972 | Harrison, T. Dhawan, V. Rupen, M. | NMSU NRAO NRAO | Is the mid-infrared excess in intermediate polars due to synchrotron emission? | 3.6 | 12,13,16,18 | 5.66 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|-------|---|--|---|------------------|----------------------|----------------|
| AK681 | Frail, D.A. Cenko, B. Chandra, P. Fox, D. Harrison, F. Kasliwal, M. Kulkarni, S. | NRAO Caltech Virginia Penn State Caltech Caltech Caltech | GRBs:Engines, energetcis (and enigmas) | 3.6 | 5,7,8,14,16 | 7.59 |
| AK693 | Kontinen, S. Liljestrom, A. Miettinen, O. Harju, J. Juvela, M. | Helsinki Helsinki Helsinki Helsinki Helsinki | Kinetic temperature gradient in Rho Oph D | 1.3 line | 8, 9, 12, 13, 14 | 28.39 |
| AK701 | Krips, M. Martin, S.C. | CfA Caltech | A search for Ammonia in the prototypical Seyfert-2 galaxy NGC1068 | 1.3 line | 28 | 8.88 |
| AL725 | Lin, Y-T. Partridge, R.B. | Princeton Hayverford | SED of radio sources in $0.3 < z < 0.8$ galaxy clusters II: K & Q-band observations | 0.7, 1.3 | 5,16,23 | 8.43 |
| AM938 | Mittal, R. Clarke, T. Hudson, D. Nulsen, P. Reiprich, T. | Bonn NRL Bonn CfA Bonn | Scrutinizing the AGN-regulated feedback in galaxy clusters | 90 | 2 | 1.43 |
| AM954 | Machalski, J. Jamrozny, M. Konar, C. Saikia, D. Stawarz, L. Wierzbowska, D. | Jagiellonian Jagiellonian IUCAA TIFR KIPAC Jagiellonian | Outflow parameters in restarting-jet radio sources | 6 | 5,6,27,29 | 5.94 |
| AM959 | Mao, S. Brown, J. Gaensler, B.M. Taylor, A.R. Stil, J. Haverkorn, M. McClure-Griffiths, N Shukurov, A. Kronberg, P. | Jodrell Bank Caltech CfA Calgary Calgary Calif.,Berkeley ATNF Newcastle Los Alamos | Final Frontiers of the Milky Way's Magnetic Field | 20 line | 8, 8, 20, 23, 29 | 29.19 |
| AO215 | Ott, J. Skillman, E. Dalcanton, J. Walter, F. Koribalski, B. West, A. | ATNF Minnesota Washington MPIA ATNF Calif.-Berkeley | VLA and HST: Star Formation History and ISM Feedback in Nearby Galaxies | 20 line LARGE | 12, 15 | 8.12 |
| AO235 | Olm, L. | Arcetri | Candidate high-mas protostellar objects revealed by BLAST | 1.3 | 27,29 | 5.81 |
| AO236 | Orsky, A. Barvainis, R. Behar, E. Laor, A. | IIT NSF IIT IIT | Simultaneous VLA-RXTE monitoring of radio quiet AGN | 6 | 27 | 1.0 |
| AP550 | Parma, P. deRuiter, H. Govoni, F. Murgia, M. | INAF ASTRO ASTRO INAF | Study of a complete sample of dying radio sources | 6 | | 5.98 |
| AP551 | Plotkin, R. Anderson, S. Strauss, M. | Washington Washington Princeton | Verification of additional radio-quiet/weak BL Lacs from SDSS | 3.6 | 6,8 | 10.51 |
| AP553 | Surajit, P. Bagchi, J. Ensslin, T. Iapichinio, L. Mannheim, K. | Wuerzburg IUCAA Garching Wuerzburg Wuerzburg | VLA Mapping of giant ringlike radio structures around galaxy cluster Abell 3376 | 6 | 2,13,15,20,2 1,22 | 12.62 |
| AP557 | Pillai, T. Zhang, Q. Kauffmann, J. | MPIfR CfA CfA | Infrared Dark Clouds in Extreme Environments | 1.3 line | 16, 17 | 9.28 |
| AR642 | Orsky, E. Barvainis, R. Behar, E. Laor, A. | IIT NSF IIT IIT | Simultaneous VLA-RXTE monitoring of radio quiet AGN | 6 | 3 | 0.96 |
| AR656 | Remijan, A. Hollis, M. Lovas, F.J. Millar, T. Cordiner, M. Markwick-Kemper, A. Jewell, P.R. | NRAO-CV NASA-GSFC NIST Queen's Belfast Queen's Belfast Manchester NRAO-GB | High Spatial and Spectral Observations of C6H and C6H- Toward IRC+10216 | 0.7 line | 30 | 4.63 |

VLA Utilization Report June 2008

| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|-------|---|---|---|----------------|-------------------|----------------|
| AR662 | Rodriguez, L. Miranda Ocejo, B. | UNAM UNAM | A Search for Twice Ionized Helium in the Galactic Center | 3.6 line | 10 | 2.89 |
| AR673 | Riechers, D. Walter, F. Carilli, C. Weiss, A. | MPIA MPIA NRAO-Socorro MPIfR | Measuring the Low-Excitation Molecular Gas Content of MIPS J1428+3526 at z=1.325 | 0.7 line | 29 | 5.42 |
| AR675 | Riechers, D. Walter, F. Carilli, C. Weiss, A. Henkel, C. | MPIA MPIA NRAO-Socorro MPIfR MPIfR | Molecular Mass Estimates at High z: A Search for ^{13}CO toward J2322+1944 (z=4.1) | 0.7 | 30 | 6.73 |
| AS921 | Rupen, M. Mioduszewski, A. Mukai, K. Sokoloski, J. | NRAO NRAO NASA Columbia | Multi-wavelength monitoring of CH Cygni | 20 | 9 | 0.91 |
| AS929 | Soderberg, A. Chevalier, R. Madore, B. Strauss, M. | Princeton UVA Carnegi Princeton | Toward an understanding of the progenitors of Type Ibc SN | 3.6 | 2,9,13 | 4.71 |
| AS943 | Sajina, A. Burke, S. Coish, J. Klein, J. Massardi, M. Partridge, R.B. | Haverford Swinburne Haverford Haverford SISSA Haverford | Spectra of radio sources dominating the confusion in SZ cluster surveys | 3.6, 6 | 19,21,22 | 8.44 |
| AS944 | Skilton, J. Aharonian, F. Cheung, C. Fiasson, A. Funk, S. Gallant, Y. Hinton, J. Marcowith, A. Pandey, M. Reimer, O. | Leeds Dias NASA Montpellier Stanford Montpellier Leeds Montpellier Leiden Stanford | Proposal for VLA obs. of HESS J0632+057 | 20 | 27 | 1.98 |
| AS945 | Stockdale, C. Immler, S. Marcaide, J-M. Panagia, N. Sramek, R. VanDyk, S. Weiler, K. | Marquette NASA Valencia STScI NRAO Caltech NRL | Earliest Type II Radio Supernova | 3.6, 6 | 1,9 | 1.92 |
| AS946 | Sokoloski, J. Kuulkers, E. Mioduszewski, A. Rupen, M. | Columbia ESA NRAO Columbia | Bi-weekly obs. of fast Nova V2491 Cyg | 0.7, 3.6 | 6 | 0.48 |
| AS951 | Berger, E. Soderberg, A. | Carnegie Princeton | Follow-up for mysterious transients in NGC 300 | 3.6, 6 | 9,10 | 3.31 |
| AT359 | Takahashi, S. Kawabe, R. Lim, J. Saito, M. Shimajiri, Y. Takakuwa, s. | ASIAA NAOJ ASIAA NAOJ NAOJ NAOJ | Direct imaging of multiple protostars in intermediate-mass SFR of OMC-2/3 | 0.7, 3.6, 6 | 1 | 4.33 |
| AT367 | Tsai, C-W. Beck, S. Turner, J. | UCLA Tel Aviv UCLA | Imaging radio-infrared supernebulae in starburst galaxies at 7mm | 0.7 | 30 | 0.99 |
| AV301 | van Gorkom, J. Schweizer, F. Donovan, J. Seitzer, P. | Columbia DTM Columbia Columbia | HI Imaging of a Prototypical "Wet" Merger, NGC 34 | 20 line | 21 | 3.93 |
| AW736 | Whysong, D. Antonucci, R. Owen, F. | NRAO-Socorro Calif.-Santa Barbara NRAO-Socorro | A Search for Thompson Scattered Emission in the Cluster Around 3C295 | 6 line | 21 | 7.40 |
| AW739 | Wagg, J. Wilner, D. Humphreys, L. Menten, K. Carilli, C. | NRAO-Socorro CfA CfA MPIfR NRAO-Socorro | EVLA observations of H ₂ O megamasers in luminous infrared galaxies at z~2.5 | 6 line | 1, 3 | 17.76 |
| AW749 | Walter, F. Bertoldi, F. Carilli, C. | MPIA Bonn NRAO | Detect CO(302) emission at z=6.26 | 0.7 | 24,26 | 7.11 |

VLA Utilization Report June 2008

| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|---|---|---|---------------------------|----------------|-------------|
| AY190 | Yun, M. Borthakur, S. Bowen, D. Tripp, T. | UMass UMass Princeton UMass | Extended HI dusk of UGC 7408, a galaxy-QSO pair | 20 | 28 | 1.92 |
| AZ176 | Zwaan, M.A. Meurer, G. Ryan-Weber, E. Webster, R. Dopita, M. Knezek, P.M. | ESO Montreal Cambridge Melbourne ANU WIYN Obs. | Star formation and kinematics in HI-selected galaxies | 20 line | 9, 9, 10 | 9.34 |
| BB250 | Boyce, E. Stroman, W. Myers, S.T. Browne, I.W.A. Jackson, N. | Jodrell Bank Iowa NRAO-Socorro Manchester Manchester | A Deep Observation of J0316+4328, a Candidate "Asymmetric Double" Gravitational | 3.6 Phased array VLBI | 22 | 3.97 |
| BD134 | Dougherty, S.M. Pittard, J.M. Kennedy, M. Beasley, A.J. Claussen, M.J. | NRC Leeds Victoria NRAO-Santiago NRAO-Socorro | Wind-collision evolution in WR140 | ... Single antenna VLBI | 1 | 2.29 |
| BM267 | Mutel, R. Gudel, M. Peterson, W. | Iowa Paul Scherrer Iowa | Time-Lapse Imaging of Algol's Radio Magnetosphere | 2 Phased array VLBI | 19 | 10.17 |
| BR125 | Robishaw, T. Heiles, C. Sarma, A. Bower, G.C. Quataert, E. | Calif.-Berkeley Calif.-Berkeley De Paul Calif.-Berkeley Calif.-Berkeley | The New Extragalactic Magnetometer: Zeeman Splitting in OH Megamasers | 20 Phased array VLBI | 19, 20 | 0.26 |
| GB064 | Brunthaler, A. Impellizzeri, V. McKean, J.P. Castangia, P. Roy, A. Henkel, C. Wucknitz, O. Ros, E. | MPIfR MPIfR MPIfR MPIfR MPIfR MPIfR JIVE MPIfR | A water megamaser in the early universe | 6 Phased array VLBI | 14, 15, 17, 18 | 14.29 |
| GM064 | Miller-Jones, J.C.A. Rupen, M.P. Mioduszewski, A.J. Dhawan, V. Gallo, E. | NRAO-CV NRAO-Socorro NRAO-Socorro NRAO-Socorro Calif.-Santa Barbara | Exploring the production of jets in a quiescent black hole X-ray binary | 1.3 Phased array VLBI | 1 | 11.08 |
| GW019 | Wucknitz, O. Volino, F. Porcas, R. McKean, J.P. Impellizzeri, V. Brunthaler, A. Castangia, P. Garrett, M.A. Henkel, C. Munoz, J. Ros, E. Roy, A. | JIVE AIfA MPIfR MPIfR MPIfR MPIfR MPIfR NFRA MPIfR CfA MPIfR MPIfR | Revealing the secrets of gravitational lens MGJ0414+0534 | 3.6, 20 Phased array VLBI | 7 | 10.81 |
| S90200 | Audard, M. Briggs, K. Brown, A. Gizis, J. Guedel, M. Osten, R. | Obs.de Geneve Paul Scherrer Colorado Delaware Paul Scherrer Maryland | Surveying Magnetic Activity in L and T Brown Dwarfs | 3.6 | 20 | 7.84 |
| DYNAMI | | | Dynamic scheduling | | | 261.5 |
| STUDEN | | | Student Observing | | | 3.38 |
| | Staff | NRAO | Baselines, Pointing, Delays | | | 44.0 |
| | | | Maintenance | | | 65.5 |
| | | | Polarization Calibrator Monitoring | | | 12.0 |
| | | | Software | | | 60.0 |

**VLA
Utilization Report
June, 2008**

| | Actual Hours | Percentage |
|--------------|---------------------|-------------------|
| Astronomy | 372.02 | 65.05 |
| Maintenance | 65.50 | 11.45 |
| Test/Calc | 134.41 | 23.50 |
| Total | 571.93 | 100.00 |

Average downtime measured in antenna hours was 8.30% of scheduled antenna hours, distributed as:

| System | Percentage |
|----------------|-------------------|
| Cryogenics | 3.91 |
| EVLA | 38.70 |
| FOC/ROT | 0.16 |
| Front End | 0.72 |
| HVAC | 2.25 |
| Interference | 28.35 |
| LO/IF | 10.89 |
| Mechanical | 0.36 |
| Obs. Program | 4.04 |
| Other | 4.54 |
| Servo | 2.53 |
| Site Power | 1.40 |
| VLA Correlator | 0.03 |
| Weather | 2.11 |

VLA Utilization Report May 2008

| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|---|---|---|-------------|-------------------|----------------|
| AA318 | Araya, E. Hofner, P. Goss, M. Linz, H. Kurtz, S. Olmi, L. Sewilo, M. | NMIMT NMIMT NRAO-Socorro MPIA UNAM CNR STSci | The Origin of Maser Flares in IRAS 18566+0408 | 6 line | 26 | 6.10 |
| AB1266 | Bonafede, A. Feretti, L. Giovannini, G. Solovyeva, L. | Bologna Bologna Bologna C.E.A. | The most distant radio halo source in the galaxy cluster CL0016+16 | 20, 90 line | 3, 19 | 10.49 |
| AB1275 | Bartel, N. Bietenholz, M. | York HRAO | Supernova 2006gy: Extreme mass loss or extreme progenitor mass? | 3.6, 0.7 | 30 | 2.73 |
| AB1285 | Brinks, E. Bravo-Alfaro, H. Cortese, L. Scott, T. | Hertfordshire Guanajuato Cardiff Hertfordshire | Probing evolutionary mechanisms in galaxy clusters: HI in abell 1367 | 20 | 13,14,17,28,28,30 | 9.76 |
| AC881 | Chandra, P. Chevalier, R. Chugai, N. Fransson, C. Soderberg, A. | UVA UVA Moscow Stockholm Caltech | Exploring IIn SN withing 150 Mpc with the VLA | 3.6 | 2,8,10,15,16,25 | 7.08 |
| AC919 | Cannon, J. Salzer, J. | MacAlester Wesleyan | Dr. Jekyll or Mr. Hyde? Exploring the ISM of Optically Compact Dwarf Galaxies | 20 line | 1, 7, 12, 14 | 19.17 |
| AC921 | Chynoweth, K. Langston, G. | Vanderbilt NRAO | HI Clouds in M81/M82 group | 20 | 4,24 | 4.48 |
| AC931 | Cheung, C. | NASA | Search for variable radio source in transient AGILE Cygnus Source Field | 20 | 30 | 0.93 |
| AD565 | Dougherty, S. Beasley, A. Claussen, M. O'Connor, E. Pittard, J. | NRC NRAO NRAO PEI Leeds | High-frequency constraints to models of non-thermal emission in WR140 | 20 | 25 | 0.95 |
| AD572 | Gregorio-Monsalvo, I Gomez, J.-F. | ESO IAA | Study of the CB3 Proto-binary system | 1.3 | 25,26,29 | 9.23 |
| AF469 | Furuya, R. Sanna, A. Moscadelli, L. Beltran, M. Codella, C. Cesaroni, R. | NAOJ-Subaru INAF-Catania Arcetri Barcelona CNR-Roma Arcetri | Rotating Toroids Hosting High-Mass Star Clusters | 3.6 | 14 | 5.76 |
| AG779 | Galvan-Madrid, R. Ho, L. Rodriguez, L. | UNAM Cfa UNAM | Flux-variation trend of G24 A1: How is the accretion rate changing? | 6, 0.7 | 2 | 1.91 |
| AH927 | Hunter, D. Brinks, E. Elmegreen, B. Rupen, M. Simpson, C. Walter, F. Westpfahl, D. Young, L. | Lowell Hertfordshire IBM NRAO Florida MPIa NMIMT NMIMT | LITTLE THINGS Survey | 20 | 20,30,31 | 7.02 |
| AH938 | Hardcastle, M. Jester, S. | Hertfordshire MPIA | The nature of X-ray jets in powerful core-dominated quasars | 2 | 11 | 16.64 |
| AJ345 | Jackson, J. Finn, S. Stojimirovic, I. Chambers, E. | Boston Boston Boston Boston | The Transition from High-mass Protostars to High-Mass Stars in IRDC Cores | 3.6 | 4, 9 | 12.0 |
| AK681 | Frail, D.A. Cenko, B. Chandra, P. Fox, D. Harrison, F. Kasliwal, M. Kulkarni, S. | NRAO Caltech UVA Pennsylvania State Caltech Caltech Caltech | GRBs: Engines, energetics (and enigmas) | 3.6 | 1,6,7,8,9,13,19 | 10.66 |
| AK685 | Knudsen, K. Momjian, E. Walter, F. Carilli, C. Yun, M. | Bonn Arecibo MPIA NRAO-Socorro Massachusetts | Radio photometry of quasar host galaxy | 6, 20 | 19 | 2.88 |
| AL693 | Laing, R. Bridle, A. | ESO-Garching NRAO-CV | Kinematics and dynamics of the relativistic jets in 3C 270 and NGC 193 | 6, 20 | 24, 24 | 14.96 |
| AL714 | Lang, C. Lazio, J. | Univ. Iowa NRL | Massive Star Forming Activities in the GC: Radio and Paschen Alpha Observations | 6 | 17, 18 | 10.82 |

VLA Utilization Report May 2008

| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|-------|---|--|--|-------------------------------|------------------------|----------------|
| AM938 | Mittal, R. Clarke, T. Hudson, D. Reiprich, T. Nulsen, P. | Bonn NRL Bonn Bonn CfA | Scrutinizing the AGN-regulated feedback in galaxy clusters | 90 | 5, 8 | 9.76 |
| AM939 | Imai, H. Hagiwara, Y. Honma, M. Matsumoto, N. Sjouerman, L. | Kagoshima NAOJ NAOJ Kagoshima NRAO | Astrometry of SiO masers | 0.7 | 29,31 | 3.68 |
| AM941 | Mangum, J. Darling, J. Menten, K. Henkel, C. | NRAO-CV Colorado MPIfR MPIfR | Formaldehyde Densitometry of Starburst Galaxies | 2 line | 17, 25 | 6.50 |
| AM942 | Martini, P. Schinnerer, E. Boeker, T. Lisenfeld, U. | Ohio State MPIA ESA IAA | Testing the Schmidt Law at the End of the Hubble Sequence | 20 line | 13, 13, 15, 16, 17 | 24.13 |
| AM946 | Menten, K. Verheyen, L. Messineo, M. | MPIfR MPIfR Rochester | Maser emission from Red Supergiants in Star Clusters - copy | 0.7, 1.3, 20 line | 16, 23 | 5.28 |
| AO215 | Ott, J. Skillman, E. Dalcanton, J. Walter, F. Koribalski, B. West, A. | ATNF Minnesota Washington MPIA ATNF Calif.-Berkeley | VLA and HST: Star Formation History and ISM Feedback in Nearby Galaxies | 20 line LARGE | 5 | 5.72 |
| AO227 | O'Neil, K. van Driel, W. Schneider, S. | NRAO-GB Paris Obs. Massachusetts | Star Formation in the Most Massive Low Surface Brightness Galaxies | 20 line | 10, 12, 16, 18, 19 | 46.61 |
| AP533 | Palau, A. Estalella, R. | Barcelona Barcelona | Young star driving a cavity of swept up material | 3.6, 6 | 19 | 2.89 |
| AP558 | Perez-Torres, M. Albertdi, A. Alonso-Herrero, A. Colina, L. Kankare, E. Mattila, S. Romero-Canizales, C. Ryder, S. | IAA IAA CSIC CSIC Turku Queen's IAA AAO | Radio detection of two dust-enshrouded SN in IRAS 17138-1017 | 1.3, 6 | 19 | 2.30 |
| AR642 | Rupen, M. Dhawan, V. Mioduszewski, A. | NRAO NRAO NRAO | VLA Monitoring of X-ray binaries, transients, and related sources | 3.6, 6, 20, 2, 1.3, 0.7 | 1,2,17,21,24 ,29,31 | 8.08 |
| AR669 | Roy, A. Impellizzeri, C. Brunthaler, A. Castangia, P. Henkel, C. McKean, J.P. Wucknitz, O. | MPIfR MPIfR MPIfR MPIfR MPIfR MPIfR JIVE | Confirmation of a Possible Water Maser at $z = 2.28$ in the ULIRG IRAS F10214+4724 | 6 line | 30 | 9.62 |
| AS921 | Rupen, M. Mioduszewski, A. Mukai, K. Sokoloski, J. | NRAO NRAO NASA Columbia | Multi-wavelength monitoring of CH Cygni | 20,6,3.6,2 ,1.3,0.7 | 29 | 0.43 |
| AS929 | Soderberg, A. Chevalier, R. Madore, B. Strauss, M. | Princeton UVA Carnegie Obs. Princeton | Toward an understanding of progenitors of Type Ibc SN | 3.6 | 4,7,24,31 | 6.80 |
| AS945 | Stockdale, C. Immler, S. Marcaide, J-M. Panagia, N. Sramek, R. VanDyk, S. Weiler, K. | Marquette NASA Valencia STScI NRAO Caltech NRL | SN 2008ax: Earliest type IIP radio SN | 1.3, 3.6, 6 | 1,8,16,21,24 | 6.17 |
| AS946 | Sokoloski, J. Kuulkers, E. Mioduszewski, A. Rupen, M. | Columbia ESA NRAO NRAO | Bi-weekly obs. of the fast Nova V2471 Cyg | 0.7, 3.6 | 21,29 | 1.81 |

VLA Utilization Report May 2008

| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|--|--|--|-------------------------------|------------------------|---------------------------------------|
| AS949 | Stockdale, C. VanDyk, S. Immler, S. Panagia, N. Pooley, D. Sramek, R. Weiler, K. | Marquette Caltech NASA STScI Calif., Berkeley NRAO NRL | Radio monitoring of the Type IIbSN 2008bo | 1.3, 3.6, 6 | 1,9,15,24 | 5.29 |
| AS950 | Soderberg, A. Berger, E. | Princeton Carnegie | Revealing the nature of the mysterious transient in NGC 300 | 3.6 | 21 | 0.94 |
| AS951 | Soderberg, A. Berger, E. | Princeton Carnegie | Follow-up for mysterious transient in NGC 300 | 3.6, 6 | 25,26 | 2.76 |
| AY360 | Testi, L. Santangelo, G. Walmsley, M. Cesaroni, R. Gregorini, L. | ESO Bologna Arcetri Arcetri Bologna | Ammonia in NGC 253 | 1.3 line | 2 | 10.30 |
| AV298 | Vollmer, B. Soida, M. Urbanik, M. Beck, R. Chyzy, K. Otmianowska-Mazur, K Kenney, J. van Gorkom, J. Chung, A. Wezgowiec, M. | Strasbourg Jagiellonian Jagiellonian MPIfR Jagiellonian Krakov Yale University Columbia Columbia Jagiellonian | Ram pressure diagnostics using polarized emission | 20 | 1, 2, 18 | 30.61 |
| AW720 | Wei, L. Kannappan, S. Baker, A. Vogel, S. Matthews, L.D. | Maryland Univ. of Texas Rutgers Maryland Cfa | Rebirth of Late-Type Disks in E/SOs: Imaging the HI | 20 line | 22, 22, 23, 23, 25, 26 | 34.56 |
| AY184 | Yusef-Zadeh, F. Arendt, R. Hewitt, J. Roberts, D. | Northwestern GSFC Northwestern Northwestern | Correlation of methanol masers and green sources in the nuclear disk | 0.7, 6 | 25,27 | 4.78 |
| AY185 | Yusef-Zadeh, F. Reid, M. Cotton, B. Roberts, D. Wardle, M. genzel, r. Menten, K. | Northwestern Cfa NRAO-CV Northwestern Macquarie MPIfR MPIfR | Simultaneous VLA and VLBA Monitoring of Flare Emission from Sgr A* | 0.7, 1.3, 2 | 5, 6, 9, 10 | 28.56 |
| AY187 | Yun, M. Tripp, T. Borthakur, S. | Massachusetts Massachusetts Massachusetts | Intragroup HI in two galaxy groups associated with a QSO absorption line system | 20 line | 6, 9 | 15.51 |
| BB255 | Brunthaler, A. Reid, M. Henkel, C. Menten, K. Bower, G. Falcke, H. | MPIfR Cfa MPIfR MPIfR Calif.-Berkeley Nijmegen | Measuring the orbits of MB1 and MB2 | 1.3, 2, 3.6 Phased array VLBI | 3 | 11.80 |
| BB259 | Bietenholz, M. Soderberg, A. Bartel, N. | York U. Caltech York U. | Is the transient in NGC2770 a relativistic SN explosion? | 3.6, 6 ToO Phased array VLBI | 21 | 4.22 |
| BW089 | Wrobel, J.M. Ho, L.C. | NRAO-Socorro Carnegie Obs. | Radio Emission from the Intermediate-Mass Black Hole in NGC 4395 | 20 Phased array VLBI | 4 | 7.37 |
| DYNAMI | Staff | NRAO | Dynamic scheduling Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Software | | | 189.5 29.0 62.0 12.0 64.5 |

**VLA
Utilization Report
May, 2008**

| | Actual Hours | Percentage |
|--------------|---------------------|-------------------|
| Astronomy | 450.04 | 69.75 |
| Maintenance | 62.00 | 9.61 |
| Test/Calc | 133.21 | 20.64 |
| Shutdown | 0 | 0 |
| Total | 645.25 | 100.0 |

Average downtime measured in antenna hours was 8.22% of scheduled antenna hours, distributed as:

| System | Percentage |
|-----------------|-------------------|
| Antenna Pads | 0.11 |
| Cryogenics | 4.41 |
| Electrical | 0.08 |
| EVLA | 46.98 |
| EVLA Computers | 3.70 |
| FOC/ROT | 0.21 |
| Front End | 8.54 |
| Interference | 0.74 |
| LO/IF | 9.51 |
| Mechanical | 0.38 |
| Monitor/Control | 1.05 |
| Obs. Program | 0.20 |
| Other | 0.62 |
| Servo | 2.99 |
| Site Power | 1.68 |
| Weather | 18.78 |

VLA Utilization Report April 2008

| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|--|--|---|----------------|--------------------------|----------------|
| AA317 | Andrews, S. Wilner, D. Chandler, C. Hughes, M. Qi, C. Sargent, A. Calvet, N. D'Alessio, P. | CfA CfA NRAO-Socorro CfA CfA Caltech Michigan UNAM | Resolved Millimeter Colors of Disks: Signposts of Planetesimal Growth | 3.6, 6 | 20, 21, 23 | 7.97 |
| AA323 | Araya, E. Hofner, P. | NMIMT NMIMT | A new H2CO flare in IRAS 18566+0408 | 6 | 1 | 1.0 |
| AB1266 | Bonafede, A. Feretti, L. Giovannini, G. Solovyeva, L. | Bologna Bologna Bologna CEA | The most distant radio halo source in the galaxy cluster CL0016+16 | 20, 90 line | 20 | 5.98 |
| AB1283 | Brand, J. Kurtz, S. Zavagno, A. Deharveng, L. Massi, F. | Bologna UNAM Marseille Marseille Arcetri Obs. | Triggered star formation at the borders of Galactic HII region Sh2-217 | 1.3 line | 21 | 3.49 |
| AB1284 | Bonafede, A. Feretti, L. Dallacasa, D. Giovannini, G. Govoni, F. Murgia, M. Taylor, G. | Bologna Bologna Bologna Bologna Bologna Bologna UNM | Polarimetric study of the Coma cluster | 3.6, 6 | 6, 9 | 11.92 |
| AB1285 | Brinks, E. Bravo-Alfaro, H. Scott, T. Cortese, L. | Hertfordshire Guanajuato Hertfordshire Cardiff | Probing evolutionary mechanisms in galaxy clusters: HI in Abell 1367 | 20 line | 13, 14, 17, 18, 19 | 49.85 |
| AB1288 | Brown, J. Brown, A. Blake, G. | Caltech Colorado Caltech | Determining the large dust grain properties of transitional disks | 0.7 | 7 | 9.97 |
| AC919 | Cannon, J. Salzer, J. | McAlester Wesleyan | Dr. Jekyll or Mr. Hyde? Exploring the ISM of Optically Compact Dwarf Galaxies | 20 line | 22, 28, 30 | 9.97 |
| AC921 | Chynoweth, K. Langston, G. | Vanderbilt NRAO | HI Clouds in M81/M82 group | 20 | 9,11,14,18 | 5.96 |
| AD565 | Dougherty, S. Beasley, A. Claussen, M. O'Connor, E. Pittard, J. | NRC NRAO NRAO PEI Leeds | High frequency constraints to models of non-thermal emission in WR140 | 0.7, 3.6 | 28 | 1.0 |
| AE165 | Emonts, B. van Gorkom, J. Morganti, R. Oosterloo, T. van Moorsel, G. Tadhunter, C. | Columbia Columbia ASTRON ASTRON NRAO-Socorro Sheffield | Tidal HI structures in powerful radio galaxies:studying the FR-I/FR-II dichotomy | 20 line | 3, 8, 15, 16 | 19.94 |
| AF469 | Furuya, R. Sanna, A. Moscadelli, L. Beltran, M. Codella, C. Cesaroni, R. | NAOJ-Subaru INAF-Catania Arcetri Barcelona CNR-Roma Arcetri | Rotating Toroids Hosting High-Mass Star Clusters | 3.6 | 13, 20 | 11.97 |
| AG761 | Govoni, F. Feretti, L. Giovannini, G. Taylor, G.B. Pihlstrom, Y. Gentile, G. Murgia, M. Orru', E. Allen, S. Ebeling, H. | Bologna Bologna Bologna UNM UNM New Mexico Bologna INAF Stanford Hawaii | Magnetic field power spectrum in the distant galaxy cluster MACS J0717.5+3745 | 6 | 20 | 3.99 |
| AH927 | Hunter, D. Brinks, E. Elmegreen, B. Rupen, M. Simpson, C. Walter, F. Westpfahl, D. Young, L. | Lowell Hertfordshire IBM NRAO Florida MPIfa NMIMT NMIMT | LITTLE THINGS Survey | 20 | 1,2,4,14,15, 19,22,27 | 21.44 |

VLA Utilization Report April 2008

| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|-------|--|--|--|-----------------------|-------------------------------------|----------------|
| AH967 | Hewitt, J. Yusef-Zadeh, F. Roberts, D. | Northwestern Northwestern Northwestern | Mapping the post-shock magnetic field in W44 with sensitive OH polarization | 20 line | 5, 17 | 14.97 |
| AH968 | Hooper, E. Liu, C. | Wisconsin NY | Radio properties of E+A Galaxies | 20 | 1,18 | 2.99 |
| AK681 | Frail, D. Cenko, B. Chandra, P. Fox, D. Harrison, F. Kasliwal, M. Kulkarni, S. | NRAO Caltech Virginia Pennsylvania Caltech Caltech Caltech | GRBs:Engines, Energetics and Enigmas | 3.6 | 14,24,26 | 3.0 |
| AK688 | Kondratiev, V. Kargaltsev, O. McLaughlin, M. Pavlov, G. | West Virginia Penn State West Virginia Penn State | Resolving Long Pulsar Tails with the VLA | 6, 20 | 5 | 5.98 |
| AL711 | Lang, C. Corbel, S. Kaaret, P. | Univ. Iowa CEA-Saclay Iowa | Radio Nebulae Associated with Ultra luminous X-ray Sources | 3.6 | 21, 25 | 7.98 |
| AM933 | Melis, C. Zuckerman, B. Palmer, P. | Calif.-Los Angeles Calif.-Los Angeles Chicago | Rapid accretion of gas and dust onto an old main sequence star | 0.7, 3.6, 20 | 26 | 7.98 |
| AM934 | Minchin, R. Mojibian, E. | NAIC NAIC | High-resolution imaging of HI massive starburst galaxy AGES J2240+2441 | 20 | 19,26,27 | 8.21 |
| AM945 | Marti, J. Benaglia, P. Romero, G. | U. Jaen La Plata Instituto Argentino | Search for non-thermal emission from a stellar bow shock | 20 | 25 | 4.0 |
| A0215 | Ott, J. Skillman, E. Dalcanton, J. Walter, F. Koribalski, B. West, A. | ATNF Minnesota Washington MPIA ATNF Calif.-Berkeley | VLA and HST: Star Formation History and ISM Feedback in Nearby Galaxies | 20 line LARGE | 2, 4, 7, 10 | 29.89 |
| A0228 | Osorio, M. Torrelles, J. Anglada, G. Gomez, J. | IAA IEEC-Barcelona IAA IAC | A Test for the Disk Candidate around the High-Mass Protostar Cep A HW2 | 1.3 line | 14 | 5.98 |
| AQ018 | Qiu, K. Zhang, Q. | Cfa Cfa | Characterizing kinematics within a few 1000AU of a 10 ⁵ L sun disk candidate | 0.7, 1.3 line | 24 | 7.98 |
| AR642 | Dhawan, V. Mioduszewski, A. Rupen, M. | NRAO NRAO NRAO | VLA Monitoring of X-ray binaries, transients and related sources | 3.5, 6, 20 | 4,7,10,11,18 ,19,25,26,27 ,28 | 19.95 |
| AR664 | Rau, U. Owen, F. Eilek, J. Cornwell, T. | NMIMT NRAO-Socorro NMIMT NRAO-Socorro | M87: The Impact of a Black Hole on its Environment | 20 line | 27 | 10.98 |
| AR665 | Rand, R. Walterbos, R. Benjamin, R. | UNM New Mexico State Wisconsin-Whitewater | Search for a Neutral Gas Halo in NGC 4302 | 20 line | 24, 25 | 19.95 |
| AS926 | Sanchez-Monge, A. Palau, A. Estalella, R. | Barcelona Barcelona Barcelona | Studying infall and outflow in the first stages of B-type objects | 0.7, 1.3, 3.6 line | 21 | 6.0 |
| AS929 | Soderberg, A. Chevalier, R. Madore, B. Struss, M. | Princeton Virginia Carnegie Princeton | Understanding of the progenitors of Type Ibc SN | 3.6 | 5,8,12,14,16 ,19,21 | 4.76 |
| AS930 | Smith, I. | Rice | Coordinated VLA-Hubble Observations of the Microquasar GRS 1758-258 | 3.6, 6 | 1, 7, 12 | 8.80 |
| AS931 | Stanimirovic, S. Goss, M. Heiles, C. | Wisconsin NRAO-Socorro Calif.-Berkeley | VLA observations of the thinnest cold HI clouds in the ISM | 20 line | 8 | 10.96 |
| AS933 | Soderberg, A. Frail, D. Kulkarni, S. | Caltech NRAO-Socorro Caltech | Continued Monitoring of the GRB 030329 Radio Afterglow | 6, 20 | 28 | 3.98 |
| AS945 | Stockdale, C. Immler, S. Panagia, N. Sramek, R. VanDyk, S. Weiler, K. | Marquette NASA STScI NRAO Spitzer NRL | SN 2008ax:Earliest Type IIP Radio SN | 3.6, 6 | 1,3,7,12,16, 21,27 | 7.98 |
| AS946 | Kuulkers, E. Mioduszewski, A. Rupen, M. Sokoloski, J. | EPA NRAO NRAO Columbia | Bi-weekly obs. of Fast Nova V2491 Cyg | 3.6 | 28 | 1.51 |

VLA Utilization Report April 2008

| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|---|---|--|---------------------|----------------|---|
| AS947 | Immler, S. Marcaide, J-M. Panagia, N. Pooley, D. Sramek, C. Stockdale, C. VanDyk, S. Weiler, K. | NASA Valencia STScI Calif., Berkeley NRAO Marquette Spitzer NRL | Radio monitoring of the Type IIb SN 2008bo | 1.3, 3.6 | 25 | 0.99 |
| AS949 | Stockdale, C. Immler, S. Panagia, N. Pooley, D. Sramek, D. VanDyk, S. Weiler, K. | Marquette NASA STScI Calif., Berkeley NRAO Spitzer NRL | Radio monitoring of Type IIbSN 2008bo | 1.3, 3.6 | 27 | 2.99 |
| AT358 | Taylor, G. Feretti, L. Giovannini, G. Pihlstrom, Y. Gentile, G. Govoni, F. Allen, S. Ebeling, H. | UNM Bologna Bologna UNM New Mexico Bologna Stanford Hawaii | Searching for High Redshift Radio Halos in the MACS Cluster Sample | 20 | 10, 11, 12 | 24.93 |
| AT360 | Testi, L. Santangelo, G. Walmsley, M. Cesaroni, R. Gregorini, L. | ESO Bologna Arcetri Arcetri Bologna | Ammonia in NGC 253 | 1.3 line | 13, 18, 19 | 11.91 |
| AT363 | Tarchi, A. Braatz, J. Brunthaler, A. Castangia, P. Henkel, C. Menten, K. | Italy NRAO MPIfR MPIfR MPIfR MPIfR | Continuum emission and water maser line monitoring in the megamaser galaxy | 1.3 | 24 | 1.02 |
| AW710 | Weiler, K. Immler, S. Marcaide, J. Panagia, N. Pooley, D. Ryder, S. Sramek, D. Stockdale, C. Williams, C. | NRL NASA Valencia STScI Calif., Berkeley AAO NRAO Marquette MIT | ToO Obs. of Core Collapse SN (Type II) | 1.3, 3.6 | 5,7,18 | 3.00 |
| AW720 | Wei, L. Baker, A. Kannappan, S. Matthews, L. Vogel, S. | Maryland Rutgers Austin CfA Maryland | Rebirth of late-type disks in E/SOs: Imaging the HI | 20 | 19 | 5.96 |
| AW733 | Wolter, A. Pompei, E. Trinchieri, G. Vergani, D. | Brera ESO Brera INAF | Cold gas in isolated elliptical galaxies | 20 | 4,11 | 7.99 |
| AZ175 | Zapata, L. Rodriguez, L. | MPIfR UNAM | Searching for an accreting pseudo-disk associated with an O-type star | 0.7, 1.3 line | 22 | 9.95 |
| BD135 | Dhawan, V. | NRAO | Phoenix/Lander | | 13 | 2.54 |
| BM257 | McClintock, J. Dhawan, V. Narayan, R. Reid, M. Remillard, R. | CfA NRAO CfA CfA MIT | Is the black hole in the microquasar GRS1915+105 spinning maximally? | 1.3 | 17 | .50 |
| BM267 | Mutel, R. Gudel, M. Peterson, W. | Iowa Paul Scherrer Iowa | Time-Lapse Imaging of Algol's Radio Magnetosphere | 2 Phased array VLBI | 6 | 12.47 |
| S90644 | Osten, R. Huenemoerder, D. Testa, P. Schulz, N. | Maryland MIT MIT MIT | Polar Exploration and Coronal Structure in the Active Binary HR 5110 | ... | 3, 5 | 23.93 |
| DYNAMI | Staff | NRAO | Dynamic scheduling Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring Software Students | | | 150.0 40.0 95.5 12.0 54.0 2.99 |
| | | | | | 26 | |

**VLA
Utilization Report
April, 2008**

| | Actual Hours | Percentage |
|--------------|---------------------|-------------------|
| Astronomy | 441.00 | 68.40 |
| Maintenance | 95.50 | 14.81 |
| Test/Calc | 108.23 | 16.79 |
| Shutdown | 0 | 0 |
| Total | 644.73 | 100.0 |

Average downtime measured in antenna hours was 5.7% of scheduled antenna hours, distributed as:

| System | Percentage |
|----------------|-------------------|
| Cryogenics | 1.87 |
| EVLA | 41.52 |
| EVLA Computers | 6.28 |
| FOC/ROT | 17.08 |
| Front End | 14.77 |
| HVAC | 1.16 |
| LO/IF | 6.46 |
| Mechanical | 0.23 |
| Obs. Program | 2.37 |
| Other | 0.81 |
| Servo | 3.82 |
| Weather | 3.63 |

VLA Utilization Report March 2008

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|--|--|---|------------------|-------------------|----------------|
| AA318 | Araya, E. Goss, M. Hofner, P. Kurtz, S. Linz, H. Olmi, L. Sewilo, M. | NRAO NRAO NRAO UNAM MPIA Arcetri STScI | Origin of maser flares in IRAS 18566+0408 | | 21,22 | 2.87 |
| AB1272 | Venturi, T. Brunetti, G. Cassano, R. Giacintucci, S. Kassim, N. Lane, W. | INAF INAF Bologna INAF NRL NRL | Particle re-acceleration in galaxy clusters: Abell 521 | 90 | 1 | 3.55 |
| AB1286 | Bietenholz, M. Bartel, N. Safi-Harb, S. Matheson, H. | York U. York U. Manitoba Manitoba | Search for the Supernova Shell in the Young SNR G21.5-0.9 | 20 line | 17 | 5.94 |
| AB1288 | Brown, J. Brown, A. Blake, G. | Caltech Colorado Caltech | Determining the large dust grain properties of transitional disks | 0.7 | 29 | 9.46 |
| AC888 | Claussen, M. Bond, H. Healy, K. Starrfield, S. | NRAO STScI ASU ASU | Continuing monitoring of SiO masers in V838 Monocerotis | 0.7 | 1 | .50 |
| AC921 | Chynoweth, K. Langston, G. | Vanderbilt NRAO | HI Clouds in MB1/MB2 Group | 20 | 29 | 1.40 |
| AC924 | Chevalier, R. Fransson, C. Soderberg, A. | Virginia Stockholm Princeton | VLA Obs. of a bright radio and X-ray Type IIn Supernova 2006jd | 6,20 | 7 | 2.69 |
| AE165 | Emonts, B. van Gorkom, J. Morganti, R. Oosterloo, T. van Moorsel, G. Tadhunter, C. | Columbia Columbia ASTRON ASTRON NRAO-Socorro Sheffield | Tidal HI structures in powerful radio galaxies:studying the FR-I/FR-II dichotomy | 20 line | 13, 31 | 19.18 |
| AF466 | Fomalont, E. Bagri, D. Majid, W. | NRAO JPL JPL | Finding survey for a sample 1-20 mJy sources at 8 GHz | 3.6, 20 | 1,4 | 7.91 |
| AG761 | Govoni, F. Feretti, L. Giovannini, G. Taylor, G.B. Pihlstrom, Y. Gentile, G. Murgia, M. Orru', E. Allen, S. Ebeling, H. | IRA-Bologna Bologna Bologna UNM UNM New Mexico Bologna INAF Stanford Hawaii | Magnetic field power spectrum in the distant galaxy cluster MACS J0717.5+3745 | 6 | 23 | 3.54 |
| AG778 | Govoni, F. Giovannini, G. Bonafede, A. Feretti, L. | INAF INAF INAF INAF | A1213:a low luminosity X-ray cluster with a possible halo | 20 | 6 | 1.96 |
| AG779 | Galvan-Madrid, R. Ho, P. Rodriguez, L. | UNAM Cfa UNAM | Flux-variation trend of G24 A1: how is the accretion rate changing? | 0.7, 6 | 18 | 1.93 |
| AG780 | Gentile, G. Jozsa, G. | New Mexico Bonn Univ. | Structure, kinematics and properties of dwarf galaxies with giant HI disks | 20 line | 1, 2 | 15.96 |
| AG793 | Green, D. Harrus, I. Hwang, U. Kazimierz, B. Petre, R. Reynolds, S. | Cambridge NASA NASA North Carolina NASA North Carolina | Expansion of the very young SNR G1.9+0.3 | 6,20 | 12 | 1.0 |
| AH927 | Hunter, D. Elmegreen, B. Simpson, C. Walter, F. Brinks, E. Young, L. Westpfahl, D. Rupen, M. | Lowell Obs. IBM Florida Int. MPIA Hertfordshire NMIMT NMIMT NRAO-Socorro | The LITTLE THINGS Survey | 20 line LARGE | ... | 61.07 |
| AH958 | Hunter, D. Elmegreen, B. Anderson, E. | Lowell Obs. IBM Northern Arizona | Extreme Outer Stellar Disks | 20 line | 18 | 4.86 |

VLA Utilization Report March 2008

| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|-------|--|---|---|------------------|--------------------|-------------|
| AH962 | Hofner, P. Araya, E. Anderson, C. Kurtz, S. Rodriguez, L. Garay, G. | NMIMT NMIMT NMIMT UNAM UNAM Chile | The Accretion Disk Around the Massive Protostar IRAS18566+0408 | 0.7 | 25 | 7.53 |
| AH968 | Hooper, E. Liu, C. | Wisconsin Univ.NYC | Radio properties of E&A galaxies: AGN and ongoing star formation | 20 | 15,22 | 0.92 |
| A1124 | Iverson, R. Stevens, J. Page, M. Biggs, A. | ROE MRAO Lancaster Royal Obs. | VLA imaging of a star-forming filament at high redshift | 3.6 | 24, 25 | 18.70 |
| AJ337 | Johnston, K. Shepherd, D. | St. Andrews NRAO-Socorro | The affect of UCHII regions & stellar winds on ionized outflows of B protostars | 0.7, 3.6, 6 | 9, 9, 11 | 14.62 |
| AJ345 | Jackson, J. Finn, S. Stojimirovic, I. Chambers, E. | Boston Boston Boston Boston | The Transition from High-mass Protostars to High-Mass Stars in IRDC Cores | 3.6 | 24 | 5.46 |
| AK679 | Koerding, E. Dhawan, V. Fender, R. Knigge, C. Rupen, M. | Southampton NRAO Southampton Southampton NRAO | Transient radio emission from cataclysmic variables | 3.6, 6 | 28 | .96 |
| AK681 | Frail, D. Cenko, B. Chandra, P. Fox, D. Harrison, F. Kasliwal, M. Kulkarni, S. | NRAO Caltech UVA Pennsylvania Caltech Caltech Caltech | GRBs:Engines, Energetics (and Enigmas) | 3.6 | 1,21,26 | 1.90 |
| AK683 | Krips, M. Koenig, S. Eckart, A. Bertram, T. | Cfa Cologne Cologne Cologne | Mapping HI in three nearby low-luminosity QSO host galaxies as a pilot study | 20 line | 11, 11 | 11.68 |
| AK686 | Kim, K-T. Kurtz, S. | KASI UNAM | Water masers in high mass outflow regions | 1.3 | 17 | 0.97 |
| AL719 | Liu, C. | UNY | Archetypal E&A galaxy G515 | 20 | 18 | 1.0 |
| AL720 | Lommen, D. van Dishoeck, E. Wright, C. Maddison, S. van Langevelde, H. | Leiden Leiden New South Wales Swinburne JIVE | A multi-wavelength study of grain growth in protoplanetary disks | 0.7, 1.3, 3.6, 6 | 10, 11, 13, 14, 15 | 24.71 |
| AM901 | Monnier, J. Danchi, W. Greenhill, L. Tuthill, P. | Ann Arbor NASA Cfa Sydney | Orbital period and fundamental parameters of colliding wind WR112 | 3.6 | 26 | 0.85 |
| AM930 | Montes, G. Alberdi, A. Perez-Torres, M. | UNAM IAA IAA | Disentangling the nature of radio emission in WR Binary Stars | 1.3, 6 | 5,7,8 | 10.08 |
| AM932 | Andreani, P. DeBreuck, C. DeZotti, G. Magliocchetti, M. Zwaan, M. | ESO ESO Padovani ESO ESO | Assessing the nature of radio emission in z~2 Spitzer galaxies | 6 | 5,6,7 | 9.28 |
| AM938 | Mittal, R. Clarke, T. Hudson, D. Nulsen, P. Reiprich, T. | Bonn NRL Bonn Cfa Bonn | Scrutinizing the AGN regulated feedback in galaxy clusters | 90 | 29 | 6.09 |
| AM941 | Mangum, J. Darling, J. Menten, K. Henkel, C. | NRAO-CV Colorado MPIfR MPIfR | Formaldehyde Densitometry of Starburst Galaxies | 2, 6 line | 1, 2 | 3.85 |
| AM947 | Mason, P. Singh, K. Harrison, T. Howell, S. Girish, V. Saikia, D. | NMSU TIFR NMSU NOAO Tata Inst. NCRA-Pune | Phased Resolved Observations of the Highest Field Polar AR UMA | 3.6, 6, 20 | 13 | 6.72 |

VLA Utilization Report March 2008

| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|-------|---|--|---|------------------|-----------------------|----------------|
| AO215 | Ott, J. Skillman, E. Dalcanton, J. Walter, F. Koribalski, B. West, A. | ATNF Minnesota Washington MPIA ATNF Calif.-Berkeley | VLA and HST: Star Formation History and ISM Feedback in Nearby Galaxies | 20 line LARGE | 8, 14, 15, 15, 30 | 34.75 |
| AO227 | O'Neil, K. van Driel, W. Schneider, S. | NRAO-GB Paris Obs. Massachusetts | Star Formation in the Most Massive Low Surface Brightness Galaxies | 20 line | 21 | 8.44 |
| AO228 | Osorio, M. Torrelles, J. Anglada, G. Gomez, J. | IAA IEEC-Barcelona IAA IAC | A Test for the Disk Candidate around the High-Mass Protostar Cep A HW2 | 1.3 line | 28 | 5.19 |
| AO230 | O'Dea, C. Kharb, P. Daly, R. Baum, S. | Rochester Purdue Penn State Rochester | High Redshift Powerful Radio Galaxies | 20 | 9, 10 | 3.85 |
| AP537 | Pandian, J. Menten, K. Momjian, E. Xu, Y. | MPIfR MPIfR Arecibo MPIfR | Determining the SED of 6.7 GHz methanol masers | 1.3 | 22 | 3.60 |
| AR642 | Rupen, M. Dhawan, V. Mioduszewski, A. | NRAO NRAO NRAO | VLA Monitoring of X-ray binaries, transients, and related sources | 3.6, 6, 20 | 1,2,28,29 | 9.23 |
| AR661 | Trejo-Cruz, A. Rodriguez, L. | UNAM UNAM | Distance to a Synchrotron source apparently associated with a PN | 20 | 6 | 1.99 |
| AR664 | Rau, Urvashi Cornwell, T. Eilek, J. Owen, F. | NRAO CSIRO NMIMT NRAO | M87: The impact of a black hole on its environment | 20 | 13 | 1.0 |
| AR676 | Rygl, K. Brunthaler, A. Menten, K. Wyrowski, F. | MPIA MPIfR MPIfR MPIfR | Calibrator search near water masers | 1.3, 3.6 | 1 | 1.99 |
| AS887 | Soderberg, A. Chevalier, R. Frail, D. Kulkarni, S. | Caltech UVA NRAO Caltech | Toward an understanding of the progenitors of Type Ibc SN | 3.6 | 1,4,7,21,22 | 7.24 |
| AS945 | Stockdale, C. Immler, S. Panagia, N. Sramek, D. VanDyk, S. Weller, K. Marcaide, J-M. | Marquette NASA STScI NRAO Spitzer NRL Valencia | SN2008ax: Earliest type IIP radio supernova | 1.3, 3.6, 6 | 13,17,18,19, 21,26 | 5.33 |
| AT358 | Taylor, G. Feretti, L. Giovannini, G. Pihlstrom, Y. Gentile, G. Govoni, F. Allen, S. Ebeling, H. | UNM Bologna Bologna UNM UNM IRA-Bologna Stanford Hawaii | Searching for High Redshift Radio Halos in the MACS Cluster Sample | 20 | 15 | 6.13 |
| AT359 | Takahashi, S. Lim, J. Shimajiri, Y. Saito, M. Takakuwa, S. Kawabe, R. | ASIAA ASIAA NAOJ NAOJ NAOJ NAOJ | An direct imaging of a Multiple Protostars in Intermediate-mass SFR of OMC-2/3 | 0.7, 3.6, 6 | 14, 17 | 6.83 |
| AV298 | Vollmer, B. Soida, M. Urbanik, M. Beck, R. Chyzy, K. Otmianowska-Mazur, K. Kenney, J. van Gorkom, J. Chung, A. Wezgowiec, M. | Strasbourg Jagiellonian Jagiellonian MPIfR Jagiellonian Krakow Yale University Columbia Columbia Jagiellonian | Ram pressure diagnostics using polarized emission | 20 | 20 | 10.56 |

VLA Utilization Report March 2008

| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|---|---|---|-----------------------------------|-------------------|-----------------------|
| AW710 | Weiler, K. Immler, S. Marcaide, J. Panagia, N. Pooley, D. Ryder, S. Sramek, D. Stockdale, C. Williams, C. | NRL NASA Valencia STScI Berkeley AAO NRAO Marquette MIT | Core collapse SN (Type II) | 1.3, 3.6 | 7,10,11,12,29,31 | 6.67 |
| BB251 | Berger, E. Rupen, M. | Carnegie NRAO-Socorro | An Astrometric Search for Close Companions to Radio Active M and L Dwarfs | 3.6 Phased array VLBI | 29 | 10.52 |
| BB254 | Brunthaler, A. Tarchi, A. Castangia, P. Henkel, C. Reid, M. Falcke, H. Menten, K. | MPiFR IRA-Caligari MPiFR MPiFR CfA Nijmegen MPiFR | The nuclear H2O maser in NGC 253 | 1.3 Phased array VLBI | 24 | 7.48 |
| BB257 | Boden, A. Akeson, R. Boboltz, D. Johnston, K. Sargent, A. | Caltech Caltech USNO USNO Caltech | VLBA Imaging of two pre-main sequence T Tauri binary systems | 3.6 | 29 | 0.48 |
| BC178 | Chen, X. Nakashima, J. Imai, H. Shen, Z-Q. | Shanghai Hong Kong Kagoshima U. Shanghai Obs. | VLBA Obs. of VY CMa in the SiO J=1-0v=1,2 and 3 lines | 0.7 | | 5.98 |
| BM270 | Miller-Jones, J.C.A. Migliari, S. Fender, R.P. Jonker, P.G. Tomsick, J. | NRAO-CV Calif.-San Diego Southampton CfA Calif.-San Diego | Imaging the compact jet in the neutron star X-ray binary 4U 0614+091 | 3.6 Phased array VLBI | 23 | 2.73 |
| B0030 | Orienti, M. Dallacasa, D. | IAC Bologna | The individual hotspot-core separation velocity influence of the ISM? | 3.6, 6, 20 Single antenna VLBI | 22 | 14.01 |
| S90208 | Jonker, P. Homan, J. Tomsick, J. Gallo, E. Markoff, S. Rupen, M. Steehgs, D. Fender, R. Wijnands, R. Dhawan, V. Kong, A. Kaaret, P. Lewin, W. | CfA MIT Calif., San Diego Calif., Santa Barbar Amsterdam NRAO SAO Southampton Amsterdam NRAO MIT Iowa MIT | Following a black hole candidate X-ray transient to quiescence | 3.6 TRIGGER | 2, 8, 16, 20 | 12.88 |
| S90564 | Wolk, S. Osten, R. Muench, A. Forbrich, J. | SAO Maryland SAO SAO | X-ray and Radio Imaging of the Protostar Complex Adjacent to IC 348 | 3.6, 6 | 13, 18 | 19.36 |
| DYNAMI | | | Dynamic scheduling | | | 97.74 |
| | Staff | NRAO | Maintenance Students Test/Calculations | | 8, 9 | 62.0 5.81 125.4 |

**VLA
Utilization Report
March, 2008**

| | Actual Hours | Percentage |
|--------------|---------------------|-------------------|
| Astronomy | 441.19 | 70.18 |
| Maintenance | 62.00 | 9.86 |
| Test/Calc | 125.43 | 19.95 |
| Shutdown | 0 | 0 |
| Total | 628.62 | 100.0 |

Average downtime measured in antenna hours was 7.64% of scheduled antenna hours, distributed as:

| System | Percentage |
|-----------------|-------------------|
| Antenna Pads | 0.09 |
| Cryogenics | 1.13 |
| Electrical | 0.09 |
| EVLA | 49.25 |
| EVLA Computers | 2.90 |
| FOC/ROT | 1.37 |
| Front End | 4.20 |
| HVAC | 0.10 |
| Interference | 0.11 |
| LO/IF | 1.28 |
| Mechanical | 0.17 |
| Monitor/Control | 1.29 |
| Obs. Program | 1.23 |
| Other | 1.23 |
| Servo | 9.89 |
| Site Power | 0.05 |
| VLA Correlator | 0.01 |
| Weather | 25.62 |

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VLA Utilization Report February 2008

| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|---|---|--|---------------------|-----------------------|-------------|
| AA317 | Andrews, S. Wilner, D. Chandler, C. Hughes, M. Qi, C. Sargent, A. Calvet, N. D'Alessio, P. | CfA CfA NRAO-Socorro CfA CfA Caltech Michigan UNAM | Resolved Millimeter Colors of Disks: Signposts of Planetesimal Growth | 0.7, 3.6, 6 | 20, 22, 22, 23, 23 | 18.25 |
| AB1264 | Bournaud, F. Duc, P.A. Koribalski, B. Boquien, M. Lisenfeld, U. Weilbacher, P. Revaz, Y. Amram, P. Brinks, E. | CEA Saclay ATNF CEA-Saclay IAA Inst. of Astroph. Paris Obs. Marseille Hertfordshire | Probing dark matter in the tidal tails of NGC7252 | 20 line | 22 | 5.91 |
| AB1272 | Brunetti, G. Venturi, T. Kassim, N.E. Lane, W. Cassano, R. Giacintucci, S. | INAF-Bologna INAF-Bologna NRL NRL Bologna INAF-Bologna | Particle re-acceleration in galaxy clusters: Abell 521 | 90 line | 29 | 0.43 |
| AB1275 | Bartel, N. Bietenholz, M. | York Hartebeesthoek | Supernova 2006gy: Extreme mass loss or extreme progenitor mass? | 3.6 | 9 | 2.81 |
| AB1288 | Brown, J. Brown, A. Blake, G. | Caltech Colorado Caltech | Determining the large dust grain properties of transitional disks | 0.7 | 24 | 6.45 |
| AC881 | Chandra, P. Chevalier, R. Chugai, N. Fransson, C. Soderberg, A. | Virginia Virginia Moscow Stockholm Caltech | Exploring 1In SN within 150 Mpc with the VLA | 3.6 | 10,19 | 1.92 |
| AC904 | Cyganowski, C. Churchwell, E. Brogan, C.L. Hunter, T.R. | Wisconsin at Madison Wisconsin NRAO-CV NRAO-CV | A New Approach to Identifying High Mass Protostellar Objects | 0.7, 3.6, 6 line | 16, 18 | 18.27 |
| AC912 | Chandra, P. Chevalier, R. Patat, F. | NRAO Virginia ESO | SN2006X:looking for traces of material surrounding the SN in radio band | 400 | 19 | 1.92 |
| AD574 | Datta, A. Carilli, C. McGreer, I. Mojibian, E. | NMIMT NRAO Columbia NAIC | Is the most distant known radio-loud source at z=6.1 a steep spectrum object? | 90 | 13 | 1.76 |
| AF466 | Fomalont, E. Bagri, D. Majid, W. | NRAO JPL JPL | Finding survey for a sample 1-20 mJy Sources at 8 GHz for VLBA Observations | 20 | 25,29 | 7.92 |
| AG776 | Goddi, C. Greenhill, L.J. Humphreys, L. Chandler, C. Matthews, L.D. | CfA CfA CfA NRAO-Socorro CfA | Mapping a new redshifted line wing of SiO in Orion BN/KL | 0.7 line | 1 | 6.740 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|-------|---|---|--|-----------------------|---------------------------|----------------|
| AH884 | Hoare, M.G. Lumsden, S. Oudmaijer, R. Urquhart, J. Diamond, P.J. Garrington, S. Muxlow, T. Smethurst, S. Gunn, A.G. Spencer, R. Zijlstra, A. Richards, A.M.S. Cotton, W.D. Chandler, C. Shepherd, D. Churchwell, E. Kurtz, S. Mundy, L. Goldsmith, P. Pandian, J. Jackson, J. Shah, R.Y. Moore, T. Dougherty, S. Gledhill, T.M. Fender, R.P. Paredes, J.M. Marti, J. | Leeds Leeds Leeds Leeds Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Manchester Manchester Jodrell Bank NRAO-CV NRAO-Socorro NRAO-Socorro Wisconsin UNAM Maryland JPL MPIfr Boston Univ. U. Virginia John Moores NRC Hertfordshire Southampton Barcelona U. Jaen | The CORNISH survey | 6 | 2, 4 | 15.14 |
| AH927 | Hunter, D. Elmegreen, B. Simpson, C. Walter, F. Brinks, E. Young, L. Westpfahl, D. Rupen, M. | Lowell Obs. IBM Florida Int. MPIA Hertfordshire NMIMT NMIMT NRAO-Socorro | The LITTLE THINGS Survey | 20 line LARGE | 1, 3, 4, 7 | 69.28 |
| AH959 | Honma, M. Reid, M. | NAOJ Cfa | VLA Survey of compact extra-galactic calibrators around bright maser sources | 1.3 | 9,28 | 5.85 |
| AJ346 | Jaeger, T. Mutel, R. | Iowa Iowa | A Search for Cerenkov Burst Emission from UHE Lunar Neutrinos | 20 | 9, 11, 14, 16, 17, 19 | 44.27 |
| AK656 | Keto, E. Zhang, Q. Kurtz, S. | Cfa Cfa UNAM | Electron densities and flow in hypercompact HII regions | 0.7, 1.3, 3.6 line | 25, 26, 29 | 22.06 |
| AK678 | Knapik, J. Chyzy, K.T. Soida, M. Beck, R. Urbanik, M. Vollmer, B. Kronberg, P. | Jagiellonian Jagiellonian Jagiellonian MPIfr Jagiellonian Strasbourg Los Alamos | The magnetic field in Virgo from Faraday rotation of background sources | 3.6, 6 | 4 | 7.75 |
| AK679 | Koeding, E. Dhawan, V. Fender, R. Knigge, C. Rupen, M. | Southampton NRAO Southampton Southampton NRAO | Transient radio emission from cataclysmic variables | 3.6, 6 | 17,24 | 3.90 |
| AK681 | Frail, D. Cenko, B. Chandra, P. Fox, D. Harrison, F. Kasliwal, M. Kulkarni, S. | NRAO Caltech Virginia Penn State Caltech Caltech Caltech | GRBs:Engines, Energetics (and Enigmas) | 3.6 | 6,12,13 | 1.34 |
| AK687 | Konopacky, Q. Ghez, A. Mioduszewski, A. | Caltech Caltech NRAO | Radio emission from very low mass binaries | 3.6 | 16,17,18,19 | 9.63 |
| AL713 | Lin, Y-T. Vikhlinin, A. Quintana, H. | Princeton Cfa Pontificia | Evolution of Radio Galaxies in Clusters Detected by the ROSAT 400d Survey | 20 | 2 | 5.76 |
| AM941 | Mangum, J. Darling, J. Menten, K. Henkel, C. | NRAO-CV Colorado MPIfr MPIfr | Formaldehyde Densitometry of Starburst Galaxies | 2, 6 line | 23, 24, 25, 26, 28, 29 | 13.55 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|-------|---|--|--|--------------------------|--------------------------|-------------|
| AM943 | Montenegro-Montes, F Benn, C. Crballo, R. Gonzales-Serrano, J. Holt, J. Jimenez-Lujan, F. Mack, K.-H. Vigotti, M. | IRA La Palma Cantabria Cantabria Sheffield Cantabria IRA IRA | High-frequency radio variability of BAL QSOs | 1.3, 3.6 | 14,19 | 5.83 |
| AM944 | Mack, K. Snellen, I. Schilizzi, R. de Vries, N. | INAF-Bologna Leiden SKA Leiden | The CORALZ sample at high frequencies | 0.7, 1.3, 3.6, 6 | 10 | 13.28 |
| AO215 | Ott, J. Skillman, E. Dalcanton, J. Walter, F. Koribalski, B. West, A. | ATNF Minnesota Washington MPIA ATNF Calif.-Berkeley | VLA and HST: Star Formation History and ISM Feedback in Nearby Galaxies | 20 line LARGE | 16, 17, 18, 25 | 11.56 |
| AO231 | Osten, R. Phan-Bao, N. | Maryland Florida | Radio signatures of magnetic activity in Halpha-emitting Ultracool dwarfs | 3.6 | 8,9,10,12 | 10.35 |
| AR642 | Rupen, M. Dhawan, V. Mioduszewski, A. | NRAO NRAO NRAO | VLA Monitoring of X-ray binaries, transients, and related sources | 3.6, 6 | 1,3,5,6,7,9, 20,23,29 | 12.81 |
| AR650 | Rudnick, I. Brown, S. Williams, L. Condon, J.J. | Minnesota Minnesota Minnesota NRAO-CV | The apparent 280 Mpc NVSS void towards the WMAP cold spot | 20, 90 line | 4 | 8.56 |
| AR676 | Richards, G. Becker, R. Brandt, N. Fan, X. Hodge, J. Jester, S. Lacy, M. Strauss, M. White, R. | Drexel Calif., Davis Penn State ASU Calif., Davis MPIFA Caltech Princeton STScI | Deep radio observations of SDSS Stripe 82 | 20 | 28 | 1.0 |
| AS887 | Chevalier, R. Frail, D. Kulkarni, S. | Virginia NRAO Caltech | Toward an understanding of the progenitors of Type Ibc SN | 3.6 | 1,3,8,9,14,2 1,24,25 | 9.27 |
| AT363 | Tarchi, A. Braatz, J. Brunthaler, A. Castangia, P. Henkel, C. Menten, K. | Italy NRAO MPIFR MPIFR MPIFR MPIFR | Continuum emission and water maser line monitoring in the megamaser galaxy | 1.3 | 18 | 0.99 |
| BG170 | Giovannini, G. Feretti, L. Giroletti, M. Cotton, W.D. Perez-Torres, M.A. | Bologna Bologna Bologna NRAO-CV IAA | Jet and Counter-Jet emission in NGC 315 | ... Phased array VLBI | 3 | 3.90 |
| BG187 | Gugliucci, N. Braatz, J. | Virginia NRAO | NGC23 and UGC3193: Two new and unusual water megamasers | 1.3 | 22 | 3.98 |
| BR125 | Robishaw, T. Heiles, C. Sarma, A. Bower, G.C. Quataert, E. | Calif.-Berkeley Calif.-Berkeley De Paul Calif.-Berkeley Calif.-Berkeley | The New Extragalactic Magnetometer: Zeeman Splitting in OH Megamasers | 20 Phased array VLBI | 6, 10 | 1.09 |
| BZ035 | Zhang, B. Reid, M. Zheng, X. | Nanjing Cfa Nanjing | Trigonometric parallax for the luminous supergiant NML Cygni | 1.3, 7 | 14 | 2.88 |
| S0208 | Lewin, W. Jonker, P. Dhawan, V. Fender, R. Gallo, E. Homan, J. Kaaret, P. Kong, A. Markoff, S. Rupen, M. Steehgs, D. Tomsick, J. Wijnands, R. | MIT Cfa NRAO Southampton Calif., Santa Barbara MIT Iowa MIT Amsterdam NRAO Cfa Calif., San Diego Amsterdam | High energy astrophysics | 4 | 19,24 | 1.04 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|---|--|---|-------------|-------------------|----------------|
| S0488 | Berger, E. Basri, G. Fleming, T. Gelino, C. Giampapa, M. Gizis, J. Johns-Krull, C. Liebert, J. Martin, E. Phan-Bao, N. Rutledge, R. Sherry, W. | Carnegie Obs. Calif., Berkeley Steward Obs. Caltech NOAO Delaware Rice Univ. Steward Obs. Central Florida Central Florida McGill NOAO | The Full Picture of Magnetic Activity in Ultracool Dwarfs: Simultaneous Observat | 3.6, 6 | 21 | 8.48 |
| DYNAMI | | | Dynamic scheduling | | | 179.9 |
| TEST | | | Test/Calc | | 4,6 | 5.19 |

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| | Actual Hours | Percentage |
|--------------|---------------------|-------------------|
| Astronomy | 371.10 | 64.26 |
| Maintenance | 62.00 | 10.74 |
| Test/Calc | 144.40 | 25.00 |
| Shutdown | 0 | 0 |
| Total | 577.50 | 100.00 |

Average downtime measured in antenna hours was 10.24% of scheduled antenna hours, distributed as:

| System | Percentage |
|-----------------|-------------------|
| Antenna Pads | 3.48 |
| Cryogenics | 1.66 |
| EVLA | 51.21 |
| EVLA Computers | 3.02 |
| FOC/ROT | 0.89 |
| Front End | 0.37 |
| HVAC | 10.71 |
| Interference | 2.25 |
| LO/IF | 6.97 |
| Mechanical | 0.18 |
| Monitor/Control | 0.06 |
| Obs. Program | 1.40 |
| Other | 1.99 |
| Servo | 0.22 |
| Site Power | 0.09 |
| VLA Correlator | 0.01 |
| Waveguide | 0.02 |
| Weather | 15.50 |

VLA Utilization Report January 2008

| Prog# | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|---|---|---|------------------|------------------|-------------|
| AB1236 | Bartkiewicz, A. Brunthaler, A. Pihlstrom, Y. Szymczak, M. vanLangevelde, H. | Copernicus MPIfR UNM Torun JIVE | Verifying the radio continuum counterpart at the origin of methanol ring | 1.3 | 10 | 1.84 |
| AC843 | Cheung, C.C. Harris, D.E. Junor, W. | KIPAC-Stanford CfA Los Alamos | Continued Monitoring of Knot "HST-1" in the M87 Jet | 0.7, 1.3, 2 | 19 | 6.27 |
| AC881 | Chandra, P. Chevalier, R. Chugai, N. Fransson, C. Soderberg, A. | UVA UVA Moscow Stockholm Caltech | Exploring IIn supernovae within 150Mpc with the VLA | 3.6 | 12,23 | 1.95 |
| AC896 | Choi, M. Tatematsu, K. Park, G. Kang, M. | KAO-TRAO NAOJ KASI KASI | Rotation in the Star Forming Activities of the NGC 1333 IRAS 4A2 Protostar | 1.3 line | 7, 10, 14 | 17.10 |
| AC901 | Chandra, P. Frail, D. Kulkarni, S. Cenko, B. | Virginia NRAO-Socorro Caltech Caltech | VLA Monitoring of GRB 070125: A "Golden Burst" | 1.3, 3.6, 6, 20 | 2 | 3.98 |
| AC904 | Cyganowski, C. | Wisconsin | New approach to identifying high mass protostellar objects | 0.7 | 26,27 | 3.66 |
| AD574 | Datta, A. Carilli, C. McGreer, I. Mojibian, E. | NMIMT NRAO Columbia NRAO | Is the most distant known radio loud source at z=6.1 a steep spectrum object? | 90 | 7 | 1.69 |
| AH884 | Hoare, M.G. Lumsden, S. Oudmaijer, R. Urquhart, J. Diamond, P.J. Garrington, S. Muxlow, T. Smethurst, S. Gunn, A.G. Spencer, R. Zijlstra, A. Richards, A.M.S. Cotton, W.D. Chandler, C. Shepherd, D. Churchwell, E. Kurtz, S. Mundy, L. Goldsmith, P. Pandian, J. Jackson, J. Shah, R.Y. Moore, T. Dougherty, S. Gledhill, T.M. Fender, R.P. Paredes, J.M. Marti, J. | Leeds Leeds Leeds Leeds Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Jodrell Bank Manchester Jodrell Bank NRAO-CV NRAO-Socorro NRAO-Socorro Wisconsin UNAM Maryland JPL MPIfR Boston Univ. U. Virginia John Moores NRC Hertfordshire Southampton Barcelona U. Jaen | The CORNISH survey | 6 | 5, 6, 11, 12, 13 | 38.55 |
| AH927 | Hunter, D. Elmegreen, B. Simpson, C. Walter, F. Brinks, E. Young, L. Westpfahl, D. Rupen, M. | Lowell Obs. IBM Florida Int. MPIA Hertfordshire NMIMT NMIMT NRAO-Socorro | The LITTLE THINGS Survey | 20 line LARGE | ... | 182.8 |
| AJ337 | Johnston, K. Shepherd, D. | St. Andrews NRAO-Socorro | The affect of UCHII regions & stellar winds on ionized outflows of B protostars | 0.7, 3.6 | 18, 18 | 10.57 |
| AJ343 | Jackson, N. Alba, A. Browne, I. Fassnacht, C. Koopmans, L. Sakai, S. | Manchester JIVE Manchester Calif., Davis Kapteyn Manchester | VLA-WMD lens time-delay survey | 6 | 3 | 0.50 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|---|---|---|------------------|--|-------------|
| AK678 | Knapik, J. Chyzy, K.T. Soida, M. Beck, R. Urbanik, M. Vollmer, B. Kronberg, P. | Jagiellonian Jagiellonian Jagiellonian MPIFR Jagiellonian Strasbourg Los Alamos | The magnetic field in Virgo from Faraday rotation of background sources | 3.6, 6 | 2, 4, 6 | 26.03 |
| AK681 | Kulkarni, S. Cenko, B. Chandra, P. Fox, D. Frail, D. Harrison, F. Kasliwal, M. | Caltech Caltech Virginia Pennsylvania NRAO Caltech Caltech | GRBs: Engines, Energetics and Enigmas | 3.6 | 16,21 | 2.44 |
| AL695 | Lin, Y-T. Partridge, R.B. Crawford, T. | Princeton Haverford Univ. Chicago | Spectral Energy Distribution of Radio Sources in 0.3<z<0.8 Clusters | 1.3 | 14, 17, 22 | 14.52 |
| AM950 | Metzger, B. Bower, G. Quataert, E. | Calif., Berkeley Calif., Berkeley Calif., Berkeley | Late time radio emission from SGRBEEs | 20 | 19,23 | 3.26 |
| AO215 | Ott, J. Skillman, E. Dalcanton, J. Walter, F. Koribalski, B. West, A. | ATNF Minnesota Washington MPIA ATNF Calif.-Berkeley | VLA and HST: Star Formation History and ISM Feedback in Nearby Galaxies | 20 Line LARGE | ... | 43.33 |
| AR641 | Carilli, C. Momjian, E. Riechers, D. Walter, F. Wang, R. | NRAO NRAO MPIFA MPIFA NRAO | Radio continuum imaging of most distant radio-loud quasar | 20 | 28 | 0.93 |
| AR642 | Rupen, M. Dhawan, V. Mioduszewski, A. | NRAO NRAO NRAO | VLA Monitoring of X-ray binaries, transients, and related sources | 6 | 7,10,15,17,19,20,21,22,23,25,29,31 | 18.03 |
| AR650 | Rudnick, I. Brown, S. Williams, L. Condon, J.J. | Minnesota Minnesota Minnesota NRAO-CV | The apparent 280 Mpc NVSS void towards the WMAP cold spot | 20, 90 line | 6 | 8.72 |
| AR659 | Richards, G. Becker, R. Brandt, N. Fan, X. Hodge, J. Jester, S. Lacy, M. Schneider, D. Strauss, M. White, R. | Drexel Calif., Davis Pennsylvania ASU Calif., Davis MPIFA Caltech Pennsylvania Princeton STScI | Deep 8-array obs. of SDSS Stripe 82 | 20 | 21 | 3.83 |
| AS887 | Soderberg, A. Chevalier, R. Frail, D. Kulkarni, S. | Caltech UVA NRAO Caltech | Toward an understanding of the progenitors of Type Ibc SN | 3.6 | 3,5,6,7,10,12,13-17,19,20,21,23,25,26-30 | 37.62 |
| AS921 | Rupen, M. Mioduszewski, A. Mukai, K. Sokoloski, J. | NRAO NRAO NASA Columbia | Multi-wavelength monitoring of CH Cygni | 20 | 14,18,28 | 1.43 |
| BD130 | Dougherty, S. Beasley, A.J. Claussen, M. Pittard, J. Williams, P. | NRC NRAO-ALMA NRAO Leeds IfA | Wind-collision evolution in WR140 | 2 | 20 | 2.48 |
| S80723 | Cheung, C.C. Stawarz, L. Siemiginowska, A. Harris, D.E. Schwartz, D. Wardle, J.F.C. | KIPAC-Stanford Cfa Cfa Cfa Cfa Brandeis | Chandra Imaging of the Highest Redshift Relativistic Jets | 6 | 13 | 4.45 |

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| Progm | Observer | Affiliation | Program Title | Bands cm | Observing Date | Sched Hours |
|--------|---|--|--|-------------|-------------------|--------------------------------------|
| S90488 | Berger, E. Basri, G. Fleming, T. Gelino, C. Giampapa, M. Gizis, J. Johns-Krull, C. Liebert, J. Martin, E. Phan-Bao, N. Rutledge, R. Sherry, W. | Carnegie Calif., Berkeley Steward Caltech NOAO Delaware Rice University Steward Central Florida Central Florida McGill NOAO | The Full Picture of Magnetic Activity in Ultracool Dwarfs: Simultaneous Observat | | 17 | 8.38 |
| DYNAMI | | | Dynamic scheduling | | | 143.0 |
| | Staff | NRAO | Baselines, Pointing, Delays Maintenance Polarization Calibrator Monitoring New Years Shutdown Software | | 1 | 43.0 71.5 12.0 16.1 66.0 |

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| | Actual Hours | Percentage |
|--------------|---------------------|-------------------|
| Astronomy | 448.36 | 65.99 |
| Maintenance | 71.50 | 10.52 |
| Test/Calc | 143.51 | 21.12 |
| Shutdown | 16.10 | 2.37 |
| Total | 679.47 | 100.00 |

Average downtime measured in antenna hours was 4.21% of scheduled antenna hours, distributed as:

| System | Percentage |
|-----------------|-------------------|
| Antenna Pads | 3.15 |
| Cryogenics | 6.63 |
| EVLA | 51.42 |
| EVLA Computers | 2.68 |
| FOC/ROT | 3.82 |
| Front End | 2.98 |
| HVAC | 0.12 |
| LO/IF | 8.37 |
| Mechanical | 0.79 |
| Monitor/Control | 0.82 |
| Obs. Program | 2.87 |
| Other | 1.42 |
| Servo | 1.23 |
| VLA Correlator | 0.01 |
| Waveguide | 0.26 |
| Weather | 13.43 |