

GBT Observing Schedule for January 2007

| Proposal | Investigators | Institute | NRAO Friend | Title | Bands | Back Ends | Days * | Hrs * |
|------------|---|---|--------------|---|-------|-----------|---------------|-----------------|
| BB229 | Brunthaler, A. Reid, M. J. Henkel, C. Menten, K. M. Bower, G. C. Falcke, H. | MPIfR Center for Astrophysics Max-Planck-Institut fur Radioa Max-Planck-Institut Fur Radioa UC Berkeley ASTRON | | Measuring the orbits of M81 and M82 [A. Brunthaler] | K | 5 | 27 28 | 12.50 |
| BG169 | Greenhill, L. J. Braatz, J. A. Henkel, C. Kuiper, T. B. H. Jauncey, D. L. Lovell, J.E.J. Madejski, G. M. Moran, J. M. Peck, A.B. Wilson, A. S. | CfA NRAO - CV Max-Planck-Institut fur Radioa JPL ATNF ATNFc/o COSSA Stanford SLAC Cfa Center for Astrophysics University of Maryland | | Mapping the Accretion disks in the IC2560 and NGC3393 AGN: Implications for Ho [L. J. Greenhill] | K | 5V | 23 24 30 31 | 23.00 |
| GBT01A-005 | Turner, B. Langston, G. I. | NRAO-CV NRAO-GB | Frank Ghigo | A High-resolution Spectral Survey Of Tmc-1 At Q-band [G. I. Langston] | Q | S | (16 17 18 19) | (16.00) |
| GBT02A-054 | Stairs, I. Lyne, A. G. Kramer, M. Athanasiadis, D. | University of British Columbia NRAL Jodrell Bank Nuffield Radio Astronomy Laboratories | Scott Ransom | High-resolution Studies of a Precessing Pulsar [I. Stairs] | L | BY | [27 29] | [12.00] |
| GBT04A-027 | Mason, B.S. Bustos, R. Myers, S. Pearson, T. J. Readhead, A. C. S. Martin, S. Reeves Diaz, R. | NRAO Green Bank Facility Universidad de Concepcion NRAO -SOC Caltech Caltech Caltech Astronomy Universidad de Concepcion | Brian Mason | Determining the High Frequency Properties of mJy radio sources [B.S. Mason] | B | ODK | 4 (13 15) | 7.25 (11.00) |
| GBT05B-011 | Minter, A. | NRAO - Green Bank | Toney Minter | Using Pulsar HI Absorption to Determine the Distance to the Local Spiral Arm in the Second Quadrant of the Galaxy [A. Minter] | L | P | 1 | 3.50 |
| GBT05C-023 | Camilo, F. Ransom, S. Gaensler, B.M. Slane, P.O. Lorimer, D. Manchester, D.R. N. | Columbia Astrophysics Laboratory NRAO - CV CFA Cfa West Virginia University Australia Telescope | Scott Ransom | PSR J1833-1034, the Very Young Pulsar in the SNR G21.5-0.9 [F. Camilo] | 8 | GB | [10 12] | [2.00] |
| GBT05C-026 | Devlin, T. Devlin, M.J. Mason, B.S. | Rutgers University Rutgers Univ. and Univ. of Pennsylvania NRAO Green Bank Facility | Brian Mason | Polarization of 30 GHz emission from extra-galactic sources [T. Devlin] | X | P | 3 (17 19) | 1.50 (16.00) |

Gregorian Bands: Q=40-50GHz, K=18-26.5GHz, U=12.4-15.4GHz, X=8.2-10.0GHz, C=3.95-5.85GHz, S=1.73-2.6GHz, L=1.15-1.73GHz

Prime Focus Bands: 3=0.29-0.395GHz, 4=0.385-0.520GHz, 6=0.51-0.69GHz, 8=0.68-0.92GHz, A=0.91-1.23GHz

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Back Ends: 2=S2 recorder, B=BCPM, C=CGBPP, D=Digital Continuum Receiver, O=user supplied, P=Spectral Processor, S=Spectrometer, V=VLBA recorder

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| GBT05C-027 | Mangum, J. G. Wootten, H. A. | NRAO Charlottesville NRAO-CV | Dana Balser | An Exact Identification of High Densities in Molecular Clouds [J. G. Mangum] | QUB | S | (20 22 23 24 25 26 27 29) | (65.00) |
| GBT05C-037 | Kanekar, N. Carilli, C. L. Langston, G. I. Stocke, J. T. Menten, K. M. Rocha, G. | NRAO-AOC NRAO - Socorro NRAO-GB University of Colorado Max-Planck-Institut Fur Radioa University of Cambridge | Glen Langston | Measuring changes in fundamental constants with redshifted OH lines [N. Kanekar] | A | S | 29 | 5.50 |
| GBT06A-004 | Reach, W. T. Palla, F. Riccardo, V. Morris, P. | IPAC, Caltech Osservatorio Astrofisico di Ar Arcetri IPAC/Caltech | Toney Minter | Water Masers from Protostars in IC 1396A [W. T. Reach] | K | S | (24 26) | (7.00) |
| GBT06A-013 | Braatz, J. A. Lo, F.K. Y. | NRAO - CV NRAO-CV | Jim Braatz | Finding Signatures of a Maser Disk in a Quasar at z=0.66 [J. A. Braatz] | U | S | 3 | 4.00 |
| GBT06A-015 | Bottinelli, S. Ceccarelli, C. Hollis, J. M. Remijan, A. Williams, J. P. | Observatoire de Grenoble NASA/GSFC National Radio Astronomy Observatory Institute for Astronomy | Dana Balser | The hot corinos of solar-type protostars [S. Bottinelli] | Q | S | 2 3 4 (6 7 8 9) | 13.25 (22.75) |
| GBT06A-049 | Readhead, A. C. S. Weintraub, L. Mason, B.S. Pearson, T. J. Shepherd, M. C. | Caltech California Institute of Technology NRAO Green Bank Facility Caltech Caltech | Brian Mason | Definitive Detection of Excess Arcminute Scale CMB Anisotropies [L. Weintraub] | B | O | (14 21) | (13.00) |
| GBT06A-054 | Demorest, P. Backer, D. C. Ferdman, R. Stairs, I. Nice, D. Jacoby, B.A. Bailes, M. Ord, S. | UC Berkeley (Physics) University of California, Berkeley University of British Columbia University of British Columbia Princeton University Naval Research Lab Swinburne University of Technology Swinburne University of Technology | Scott Ransom | Long-term Precision Timing of Millisecond Pulsars [P. Demorest] | L | YR | 1 | 8.00 |
| GBT06B-015 | Morgan, L. Urquhart, J. Thompson, M. | National Radio Astronomy Observatory (NRAO) University of Leeds The University Of Hertfordshire | Larry Morgan | NH3 and CCS Mapping of Triggered Star Formation Regions [L. Morgan] | K | S | (27 28) | (11.50) |
| GBT06B-018 | Kramer, M. Stairs, I. McLaughlin, M. Ferdman, R. Camilo, F. Lyne, A. G. | Jodrell Bank University of British Columbia WVU University of British Columbia Columbia Astrophysics Laboratory NRAL | Scott Ransom | Timing and General Relativity in the Double Pulsar System [M. Kramer] | L | GBY | [12 13 14 15] | [11.00] |

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| | Manchester, D.R. N. Possenti, A. D'Amico, N. Burgay, M. Freire, P. | Australia Telescope Istituto Nazionale di Astrofisica Osservatorio di Cagliari Istituto Nazionale di Astrofisica Arecibo Observatory | | | | | | |
| GBT06B-019 | Minter, A. | NRAO - Green Bank | Toney Minter | Obtaining A Complete Sample Of Pulsar OH Absorption With The GBT [A. Minter] | L | M | 2 5 | 8.50 |
| GBT06B-024 | Mangum, J. G. Di Francesco, J. Freed, K. | NRAO Charlottesville National Research Council Canada Metro State College of Denver | Frank Ghigo | CCS Chronometry of Dense Cores [J. G. Mangum] | K | S | (30 31) | (9.50) |
| GBT06B-032 | Begin, S. Freire, P. Ransom, S. Stairs, I. Hessels, J. W. T. Kaspi, V. Camilo, F. | University of British Columbia Arecibo Observatory NRAO - CV University of British Columbia Universiteit van Amsterdam McGill University Columbia Astrophysics Laboratory | Scott Ransom | Timing of the Binary and Millisecond Pulsars in M28 [S. Begin] | S | G | [13 15] | [9.00] |
| GBT06B-033 | Hessels, J. W. T. Ransom, S. Kaspi, V. Champion, David Roberts, M. | Universiteit van Amsterdam NRAO - CV McGill University McGill University Eureka Scientific, Inc. | Scott Ransom | Completing a 350-MHz Survey of the Galactic Plane for Pulsars and Transients [J. W. T. Hessels] | 8 | G | [13 15] | [2.50] |
| GBT06B-034 | van Gorkom, J. H. Carollo, C. Lilly, S. J. Norberg, P | Columbia University ETH | Frank Ghigo | Galaxy evolution in groups: HI properties of 80 2dfGRS-selected groups [J. H. van Gorkom] | L | S | [9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 25 27 29] | [95.00] |
| GBT06B-036 | Jackson, J. M. Chambers, E. T. Rathborne, J. Bania, T. M. Zhang, Q. Wang, Y. Simon, R. | Boston University Boston University Boston University Boston University Center for Astrophysics Cfa Universitat zu Koln | Dana Balser | Pre-stellar evolution in Infrared Dark Cloud Cores [J. M. Jackson] | K | S | (23 25 27 29) | (18.00) |
| GBT06B-037 | Weisberg, J. M. Johnston, S. Koribalski, B. Minter, A. Stanimirovic, S. | Carleton College Australia Telescope National Facility (ATNF) Australia Telescope National Facility (ATNF) NRAO - Green Bank Wisconsin | Toney Minter | Probing the Small-Scale Structure of Molecular Gas with Pulsar B1641-45 [J. M. Weisberg] | L | M | 4 5 6 7 8 | 9.75 |
| GBT06B-042 | Kanekar, N. Ellison, S.E. York, B | NRAO-AOC University of Victoria University of Victoria | Larry Morgan | The nature of damped Lyman-alpha systems, as traced by their spin temperature. [N. Kanekar] | 4 | P | 3 5 6 7 8 | 18.75 |

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| GBT06B-044 | Ferdman, R. Stairs, I. Backer, D. C. Burgay, M. Camilo, F. D'Amico, N. Demorest, P. Faulkner, A. Hobbs, G. Kramer, M. Lorimer, D. Lyne, A. G. Manchester, D.R. N. McLaughlin, M. Nice, D. Possenti, A. | University of British Columbia University of British Columbia University of California, Berkeley Istituto Nazionale di Astrofisica Columbia Astrophysics Laboratory Osservatorio di Cagliari UC Berkeley (Physics) Jodrell Bank Observatory Australia Telescope National Facility (ATNF) Jodrell Bank West Virginia University NRAL Australia Telescope WVU Princeton University Istituto Nazionale di Astrofisica | Scott Ransom | Timing Binary and Millisecond Pulsars from the Parkes Multibeam Survey [R. Ferdman] | L | YGB | [13 15 20 22] | [9.00] |
| GBT06C-004 | Remijan, A. McMahon, R. J. Widicus Weaver, S. McCall, B. | National Radio Astronomy Observatory Dept. of Chemistry, University of Wisconsin, Madison Illinois at Urbana-Champaign, University of Illinois | Larry Morgan | A Search for o-Benzyne (o-C ₆ H ₄) and Phenyl (C ₆ H ₅) toward CRL 618 [A. Remijan] | KQ | S | (21 28) | (18.00) |
| GBT06C-008 | Srianand, R. Gupta, N. Petitjean, P. Saikia, D. J. Boisse, P. Ledoux, C. | Inter-University Centre for As Tata Institute of Fundamental Research Institut d'Astrophysique Tata Institute of Fundamental Research Institut d'Astrophysique de Paris European Southern Observatory | Toney Minter | Search for 21-cm and OH absorption in the DLAs towards Q 0405-443 (CTS 247) [N. Gupta] | 4 | P | 4 5 [6 7] | 8.25 [8.50] |
| GBT06C-012 | Curran, S. Whiting, M. Webb, J. Bignell, R.C. | University of New South Wales Australia Telescope National Facility University of New South Wales NRAO - GB | Carl Bignell | A Wide-Band Search of the Source of the Obscuration of Reddened Quasars [S. Curran] | 48LA | S | 6 11 [6 7 8 9 10 11 12 16 17 18 19 20 21 22 28] | 3.00 [68.75] |
| GBT06C-013 | Curran, S. Tzanavaris, P. Murphy, M. T. Webb, J. Bignell, R.C. | University of New South Wales National Observatory of Athens (Institute of Astronomy and Astrophysics) Cambridge, University of University of New South Wales NRAO - GB | Carl Bignell | The Nature of High Redshift Intervening Absorption Systems [S. Curran] | 4 | S | 5 [6 7 8] | 1.75 [12.00] |
| GBT06C-016 | Camilo, F. Ransom, S. | Columbia Astrophysics Laboratory NRAO - CV | Scott Ransom | Studying the magnetar XTE J1810-197 [F. Camilo] | SX8CUK | BG | 6 [10 12 20 22] | 1.50 [14.00] |

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| | Halpern, J. P. Reynolds, J. E. Helfand, D. J. | Columbia University Australia Telescope National F Columbia University | | | | | (9 11 13 14 15 21) | (53.50) |
| GBT06C-017 | Blanton, M. Christiansen, W. A. Cecil, G. N. | North Carolina, University of University of North Carolina University of North Carolina | Frank Ghigo | Mapping the Galactic Center Lobe [M. Blanton] | U | D | 1 3 4 (6 8 10 12 17 18 19 20 22 23 25) | 9.25 (33.00) |
| GBT06C-018 | Stairs, I. Lorimer, D. | University of British Columbia West Virginia University | Scott Ransom | Continued timing of a highly relativistic binary pulsar system [D. Lorimer] | LS | YG | 5 | 4.50 |
| GBT06C-026 | Dickinson, Clive Casassus, Simon Reach, W. T. Paladini, R. Banday, Anthony Pearson, T. J. Cleary, Kieran Bernard, J.P. | Jet Propulsion Laboratory Chile, Universidad de IPAC, Caltech California Institute of Technology Max Planck Institute for Astronomy, Garching Caltech Jet Propulsion Laboratory CESR, Toulouse | Larry Morgan | The spinning dust grains of LDN1622 [Clive Dickinson] | UCK | DS | [9 11 13 15] (9 10 11 12 13 14 15) | [16.00] (30.50) |
| GBT06C-032 | Martin, P.G. Lockman, F. J. Bernard, J.P. Miville-Deschenes, M. | University of Toronto NRAO-GB CESR, Toulouse IAS Univ. Paris-Sud | Jay Lockman | The Galactic foreground at the North Ecliptic Pole [P.G. Martin] | L | S | 1 7 [6 7 8] | 6.00 [12.50] |
| GBT06C-035 | Braatz, J. A. Condon, J. J. Greenhill, L. J. Henkel, C. Reid, M. J. Lo, F.K. Y. Hao, Lei | NRAO - CV NRAO-CV Cfa Max-Planck-Institut fur Radioa Center for Astrophysics NRAO-CV Cornell Dept. of Astronomy | Jim Braatz | The Megamaser Cosmology Project: A Survey for H2O Maser Disks in SDSS AGNs [J. A. Braatz] | K | S | (16 18) | (8.00) |
| GBT06C-037 | Lada, C. J. Muench, A. Rathborne, J. Alves, J. Roman-Zuniga, Carlos | Smithsonian Astrophysical Obse Harvard-Smithsonian Center for Astrophysics Boston University Cala Alto Observatory Harvard-Smithsonian CfA | Frank Ghigo | Probing the Origin of Dense Cores and the Stellar IMF [C. J. Lada] | K | S | (31) | (3.00) |
| GBT06C-038 | Lockman, F. J. Pidopryhora, Y. | NRAO-GB Ohio University | Jay Lockman | GBT Mapping of HI Clouds in the Disk-Halo Interface [F. J. Lockman] | L | S | [17 19 24 26] | [32.50] |
| GBT06C-039 | Braatz, J. A. Condon, J. J. Greenhill, L. J. Henkel, C. Reid, M. J. Lo, F.K. Y. | NRAO - CV NRAO-CV Cfa Max-Planck-Institut fur Radioa Center for Astrophysics NRAO-CV | Jim Braatz | The Megamaser Cosmology Project: Circumnuclear Disk Accelerations [J. A. Braatz] | K | S | (20 22) | (14.50) |

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| GBT06C-048 | Kanekar, N. Ellison, S.E. Prochaska, J. York, B | NRAO-AOC University of Victoria University of California University of Victoria | Toney Minter | HI 21cm absorption in strong MgII and Cl absorbers in the redshift desert [N. Kanekar] | 4 | P | 4 [6 7] | 3.50 [4.00] |
| GBT06C-049 | Masters, K. Huchra, J. Crook, A. Macri, L. Jarrett, T.H. | Harvard-Smithsonian Center for Astrophysics Center for Astrophysics MIT National Optical Astronomy Observatory (NOAO) Caltech | Larry Morgan | Mapping Matter in the Nearby Universe with 2MASS [K. Masters] | L | S | [16] | [6.50] |
| GBT06C-051 | Greenhill, L. J. Braatz, J. A. Henkel, C. Kuiper, T. B. H. Jauncey, D. L. Lovell, J.E.J. Madejski, G. M. Moran, J. M. Peck, A.B. Wilson, A. S. | CfA NRAO - CV Max-Planck-Institut fur Radioa JPL ATNF ATNFc/o COSSA Stanford SLAC Cfa Center for Astrophysics University of Maryland | Jim Braatz | Monitoring 2 NGC4258-like Masers: Measurement of Distances / Constraint of LCDM [L. J. Greenhill] | K | S | (6 8 9 11) | (16.50) |
| GBT06C-058 | Fuller, G. A. Helmich, F. Plume, R. | UMIST SRON University of Calgary | Larry Morgan | A Centimeter Spectral Survey of the SLS Sources [G. A. Fuller] | KUX | S | (6 7 8 9 10 11 12 13 14 15 16 17 18 19) | (67.00) |
| GBT07A-001 | Bolatto, A. Darling, J. | University of California at Berkeley Colorado at Boulder, University of | Frank Ghigo | A Search for HI Absorbers in a Sample of Gravitationally Lensed Systems [A. Bolatto] | A | S | 30 [23 24 25 26] | 8.00 [17.00] |
| GBT07A-003 | Fish, V.L. | NRAO New Mexico Facilities | Frank Ghigo | Probing circumstellar envelopes with isotopomers [V.L. Fish] | S | S | [27 28] | [11.00] |
| GBT07A-009 | Pisano, D.J. | NRAO-GB | D.J. Pisano | HI Emission from Gravitationally Lensed Galaxies at z~0.5 [D.J. Pisano] | A | P | 25 26 | 10.50 |
| GBT07A-015 | Mangum, J. G. Menten, K. M. Henkel, C. Darling, J. | NRAO Charlottesville Max-Planck-Institut Fur Radioa Max-Planck-Institut fur Radioa Colorado at Boulder, University of | Frank Ghigo | Formaldehyde Densitometry of External Galaxies [J. G. Mangum] | CU | S | (16 18) | (8.00) |
| GBT07A-036 | Chin, Y. Lemme, C. Kaiser, R.I. | Tamkang University Tamkang University University of Hawaii, Chemistry Department | Jim Braatz | Confirmation of Interstellar Benzonitrile (C6H5CN) -- A Key Tracer of Benzene [Y. Chin] | CX | S | [8 10 12 13 14 15 21] | [42.50] |
| GBT07A-074 | Hewitt, J. Yusef-Zadeh, F. | Northwestern University Northwestern University | Ron Maddalena | Follow-Up of Radio Recomb Lines Associated with Supernova Remnants [J. Hewitt] | XC | S | 3 4 [14 21] (31) | 4.50 [14.00] (3.50) |

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| GBT07A-104 | Martin, P.G. Chou, R. Damjanov, I. Lockman, F. J. Miville-Deschenes, M. | University of Toronto Univ. Toronto Univ. Toronto NRAO-GB IAS Univ. Paris-Sud | Jay Lockman | The Spider's Web from Ursa Major to Polaris [P.G. Martin] | L | S | [17 18 19 20 22 23 24 25 26 27 28 29] | [43.00] |
| Comm | NRAO staff | | | Ka Comm | B | DSP | (23 25) | (13.00) |
| Maint | NRAO staff | | | Install 800 | 8 | | 8 | 3.00 |
| Maint | NRAO staff | | | Install PF2 | A | | (16) | (4.00) |
| Maint | NRAO staff | | | Maintenance | 8 | | 2 3 30 [9 11 16 18 23 25 31] (10 12 17 19 24 26) | 21.00 [55.00] (24.50) |
| Not Sched | NRAO staff | | | | | | (18) | (4.00) |
| Tests | Clark | | | M&C Tests | | | 1 2 | 4.50 |
| Tests | NRAO staff | | | PTCS | Q | DSP | (9 10 11 12) | (20.00) |
| Tests | NRAO staff | | | Pointing | X | DSP | (27 29) | (16.00) |
| Tests | NRAO staff | | | RCO*4 450 MHz | 4 | DSP | 2 | 1.50 |
| Tests | NRAO staff | | | RCO*8 800 MHz | 8 | DSP | 9 | 2.25 |
| Tests | NRAO staff | | | RCO*8 PF1 | 8 | DSP | 30 | 2.00 |
| Tests | NRAO staff | | | RCO*A PF2 | A | DSP | 16 | 2.00 |
| Tests | Ghigo | | | RFI FS tests | 8C | DSP | 1 | 6.00 |
| Tests | Ford | | | Servo Tests | | | 5 [9 11] | 2.75 [6.00] |
| Total Hrs | Astronomy Commissioning Maintenance Un-assigned Tests | 621.50 13.00 52.50 4.00 57.00 | 442.75 55.00 6.00 | | | | | |

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