

GBT Observing Schedule for March 2007

| Proposal | Investigators | Institute | NRAO Friend | Title | Bands | Back Ends | Days * | Hrs * |
|------------|---|---|---------------|--|-------|-----------|---------------------------------|------------------|
| BB243 | Black, G. Campbell, D. B. | UVA Cornell University | | TOO - Interferometric Radar Observations of Asteroid 2006 VV2 [G. Black] | S | X | 31 | 2.50 |
| BB247 | Busch, M.W. Benner, L.A.M. Ostro, S. Black, G. Kulkarni, S.R. | Jet Propulsion Laboratory JPL UVA Caltech | | Radar Interferometric Imaging of Near-Earth Asteroid VV2 [M.W. Busch] | X | X | 29 31 | 2.50 |
| BB248 | Braatz, J. A. Greenhill, L. J. Reid, M. J. Condon, J. J. Henkel, C. Lo, F.K. Y. | NRAO - CV CfA Center for Astrophysics NRAO-CV Max-Planck-Institut fur Radioa NRAO-CV | | The Megamaser Cosmology Project: A Target of Opportunity in Mrk 1419 [J. A. Braatz] | K | 5 | 7 9 10 | 11.50 |
| GBT03C-028 | Walter, F. Carilli, C. L. Lo, F.K. Y. Bertoldi, F. Cox, P. Fan, X. Strauss, M. Menten, K. M. | MPIfA NRAO - Socorro NRAO-CV U Bonn IAS/Instit. d'Astrophys. Spatiale Arizona State University Princeton University Max-Planck-Institut Fur Radioa | Dana Balser | The Molecular Gas Content in z>6 Quasars: Probing the End of Cosmic Reionization [F. Walter] | Q | S | 3 | 6.00 |
| GBT04A-001 | VandenBout, P. A. Solomon, P. Carilli, C. L. | NRAO-CV SUNY at Stony Brook NRAO - Socorro | Ron Maddalena | Q-Band CO Observations [P. A. VandenBout] | Q | S | 12 14 (20 21 22 23 24 26) | 4.00 (37.00) |
| GBT04C-031 | Kondratko, P.T. Greenhill, L. J. Moran, J. M. Lovell, J.E.J. Kuiper, T. B. H. Jauncey, D. L. | Harvard University CfA CfA ATNFc/o COSSA JPL ATNF | Jim Braatz | Monitoring of Five NGC4258-like Water Megamasers Discovered with the GBT and the DSN [P.T. Kondratko] | K | S | 7 8 12 (25 27 29) | 14.50 (21.00) |
| GBT05B-021 | Lim, J. Hsieh, P-Y | Academia Sinica, IAA National Taiwan University | Karen O'Neil | The Extended HI Envelope around the M51 Group [J. Lim] | L | S | 13 16 | 8.50 |
| GBT05C-017 | Roshi, A.D. Balser, D.S. Jeyakumar, S. | Raman Research Institute NRAO - Green Bank Raman Research Institute | Dana Balser | Direct Measurement of the Expansion of UCHII Regions [D.S. Balser] | B | S | (21 23) | (7.00) |
| GBT05C-032 | Shirley, Y.L. Mangum, J. G. | University of Arizona NRAO Charlottesville | Ron Maddalena | Tracing Protostellar Mass During Star Formation with 7mm and 9mm Continuum [J. G. Mangum] | BQ | D | (20 24 26 27 29 31) | (29.00) |
| GBT06A-017 | Lim, J. Farrah, D. Dinh, V.T. Leon, S. Lonsdale, C. J. | Academia Sinica, IAA Department of Astronomy, Cornell University ASIAA Instituto de Astrofisica de Andalucia | Dana Balser | Molecular Gas in Infrared-Luminous Galaxies at Intermediate Redshifts [J. Lim] | Q | S | 6 11 12 13 14 16 (17 18) | 23.00 (30.00) |

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

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| | | Caltech IPAC | | | | | | | | | |
| 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] | L8 | YR | 24 25 [23 24 25 26] | 8.00 [16.00] | | | |
| GBT06A-056 | Kondratko, P.T. Greenhill, L. J. Moran, J. M. | Harvard University Cfa Cfa | Jim Braatz | Are there Unrecognized NGC4258-like Systems Among Known Water Masers in AGN? [P.T. Kondratko] | K | S | 1 | 6.00 | | | |
| GBT06A-068 | Shirley, Y.L. Myers, P. C. | University of Arizona Center for Astrophysics | Toney Minter | The Kinematical and Chemical Structure of Pre-protostellar Cores [Y.L. Shirley] | K | S | (24 26 27 29) | (24.00) | | | |
| GBT06B-014 | Freire, P. Ransom, S. Gupta, Y. | Arecibo Observatory NRAO - CV National Centre for Radio Astrophysics | Scott Ransom | Continued timing of the eccentric binary system in the globular cluster NGC 1851 [S. Ransom] | 3 | G | 16 [17 18 20 22] | 2.50 [19.00] | | | |
| GBT06B-018 | Kramer, M. Stairs, I. McLaughlin, M. Ferdman, R. Camilo, F. Lyne, A. G. Manchester, D.R. N. Possenti, A. D'Amico, N. Burgay, M. Freire, P. | Jodrell Bank University of British Columbia WVU University of British Columbia Columbia Astrophysics Laboratory Manchester, University of Australia Telescope Istituto Nazionale di Astrofisica Osservatorio di Cagliari Istituto Nazionale di Astrofisica Arecibo Observatory | Scott Ransom | Timing and General Relativity in the Double Pulsar System [M. Kramer] | L | GBY | [24 26] | [11.00] | | | |
| 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 | 10 | 4.00 | | | |
| 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 | 10 | 1.25 | | | |

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| 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 | 31 | 1.75 |
| GBT06B-043 | Pagani, L. Herbst, E. Bacmann, A. | Ohio State University Observatoire de Bordeaux | Larry Morgan | Depletion of heavy molecules in pre-stellar cores [L. Pagani] | K | S | 4 | 8.00 |
| 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) University of Manchester Australia Telescope National Facility (ATNF) Jodrell Bank West Virginia University Manchester, University of 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 [20 22] | 2.50 [4.00] |
| GBT06C-003 | Remijan, A. Hollis, J. M. Lovas, F. J. Jewell, P. R. | National Radio Astronomy Observatory NASA/GSFC Nat'l Inst. of Standards and Technology NRAO-CV | Larry Morgan | Additional Transitions of Interstellar Methyl Isocyanate (CH ₃ NCO) [A. Remijan] | K | S | (19 25) | (5.50) |
| 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 | 9 | 3.50 |
| 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 | 7 | 4.50 |
| GBT06C-029 | Bhatnagar, S. Brogan, C.L. Langston, G. I. Golap, K. | NRAO New Mexico Facilities National Radio Astronomy Observatory NRAO-GB NRAO | Glen Langston | GBT 330 MHz Survey of the Inner Galactic Plane [S. Bhatnagar] | 3 | P | [17 18 21 23] | [29.00] |

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| 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 | (27 29) | (7.00) |
| GBT06C-045 | Champion, David Kaspi, V. Hessels, J. W. T. Woods, P. Thompson, C. | McGill University McGill University Universiteit van Amsterdam Space Science Research Center Canadian Institute for Theoretical Astrophysics | Scott Ransom | A Search for Radio Emission from Magnetars after Outburst [David Champion] | S | G | 2 | 1.75 |
| 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 | 5 6 7 8 | 8.00 |
| GBT06C-052 | Ransom, S. Begin, S. Hessels, J. W. T. Stairs, I. Freire, P. Camilo, F. Kaspi, V. | NRAO - CV University of British Columbia Universiteit van Amsterdam University of British Columbia Arecibo Observatory Columbia Astrophysics Laboratory McGill University | Scott Ransom | Continued Timing of the Binary and Millisecond Pulsars in NGC6440 and NGC6441 [S. Ransom] | S | G | 1 [28 30] | 1.00 [19.00] |
| 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 | 12 | 5.00 |
| GBT07A-010 | Mutel, R. L. Jaeger, T. | University of Iowa Iowa, University of | Toney Minter | A Search for Narrow-Band Stellar Radio Bursts Associated With CMI Emission [R. L. Mutel] | 8S | S | 1 2 | 18.00 |
| GBT07A-012 | Das, M. Braatz, J. A. Henkel, C. Menten, K. M. | Raman Research Institute NRAO - CV Max-Planck-Institut fur Radioa Max-Planck-Institut Fur Radioa | Larry Morgan | Searching for Water Masers in the AGN of Giant Low Surface Brightness Galaxies [J. A. Braatz] | K | S | (19 20 21 28 30) | (25.50) |
| 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 | 2 3 4 5 7 8 10 11 15 | 62.25 |

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| GBT07A-019 | Maccarone, T. Brisken, W.F. McLaughlin, M. Stappers, B. | U Southampton NRAO - SOC WVU Netherlands Foundation for Research in Astronomy | Scott Ransom | Searching for giant pulses from M82 pulsars [T. Maccarone] | 3 | G | [18 19 20 21] | [37.75] |
| GBT07A-021 | Wolfe, A. M. Jorgenson, R. Heiles, C. E. Robishaw, T. | University of California-San D University of California at San Diego University of California University of California at Berkeley | Toney Minter | Detection of B Fields in Damped Lyman-alpha Sytems [A. M. Wolfe] | 8 | P | [31] | [17.75] |
| GBT07A-030 | Mason, B.S. Finkbeiner, D. Robishaw, T. | NRAO Green Bank Facility Princeton University (Astrophysics) University of California at Berkeley | Brian Mason | A Search for Polarized, Anomalous Microwave Emission from Lynds 1622 - copy [B.S. Mason] | X | S | 4 5 9 11 12 13 (17 18 19 20 21 22 23) | 25.00 (31.50) |
| GBT07A-031 | 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: Accelerations in Maser Disks [J. A. Braatz] | K | S | (26 27 28 29) | (11.00) |
| GBT07A-034 | 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 Masers in SDSS and 2MRS AGNs [J. A. Braatz] | K | S | (19 20 21 22 23 24 26 31) | (34.25) |
| GBT07A-039 | Fisher, R. Courtois, H. Tully, R.B. | NRAO Green Bank Facility Institute for Astronomy Institute for Astronomy | Frank Ghigo | Bulk Motions of Filaments in the Local Universe [R. Fisher] | L | S | 2 3 5 6 7 8 10 11 15 16 | 38.25 |
| GBT07A-040 | Weintraub, L. Mason, B.S. Readhead, A. C. S. Pearson, T. J. | California Institute of Technology NRAO Green Bank Facility Caltech Caltech | Brian Mason | Detecting the Origin of Arcminute Scale CMB Anisotropy [L. Weintraub] | B | K | (31) | (8.50) |
| GBT07A-042 | Tarchi, A. Braatz, J. A. Henkel, C. Brunthaler, A. Menten, K. M. | Istituto Nazionale di Astrofisica NRAO - CV Max-Planck-Institut fur Radioa MPIfR Max-Planck-Institut Fur Radioa | Jim Braatz | H2O versus continuum in the nucleus of the megamaser galaxy 3C403 [A. Tarchi] | K | S | 5 | 2.75 |
| GBT07A-048 | Rudnick, L. Brown, S. | University of Minnesota University of Minnesota | Toney Minter | New Populations of Extended Polarization Sources [L. Rudnick] | LS | S | 15 16 [17 18 19 20 21 22] | 7.00 [20.75] |
| GBT07A-072 | Wei, L. Kannappan, S. | Maryland, University of Univ. of Texas | Frank Ghigo | Gas Reservoirs in Blue-Sequence Early-Type Galaxies [L. Wei] | L | S | 3 4 5 6 8 9 10 11 12 14 | 36.75 |

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| | Baker, A.C. Vogel, S. N. | University of Maryland University of Maryland | | | | | | |
| GBT07A-080 | McLaughlin, M. Lorimer, D. Lyne, A. G. Manchester, D.R. N. Stairs, I. Kramer, M. Camilo, F. Possenti, A. Burgay, M. Cordes, J. M. Hill, M. | WVU West Virginia University Manchester, University of Australia Telescope University of British Columbia Jodrell Bank Columbia Astrophysics Laboratory Istituto Nazionale di Astrofisica Istituto Nazionale di Astrofisica NAIC and Cornell University West Virginia University | Scott Ransom | Continued Radio Timing Observations of RRAT Sources [M. McLaughlin] | 3 | O | [17 18 20 22] | [6.00] |
| GBT07A-089 | Camilo, F. Ransom, S. Lorimer, D. | Columbia Astrophysics Laboratory NRAO - CV West Virginia University | Scott Ransom | PSR J1833-1034, the Very Young Pulsar in the SNR G21.5-0.9 [F. Camilo] | 8 | B | 10 | 1.50 |
| GBT07A-093 | Borthakur, S. Yun, M. Verdes-Montenegro, L. | University of Massachusetts University of Massachusetts Instituto de Astrofísica de An | Frank Ghigo | Diffuse Intragroup Medium: Evolution and Connection to Large Scale Structures [S. Borthakur] | L | S | 16 [24 26 28 30] | 7.50 [44.00] |
| GBT07A-098 | Camilo, F. Ransom, S. Halpern, J. P. Reynolds, J. E. Helfand, D. J. | Columbia Astrophysics Laboratory NRAO - CV Columbia University Australia Telescope National F Columbia University | Scott Ransom | Studying the magnetar XTE J1810-197 [F. Camilo] | SCX | B | 1 2 3 4 5 6 7 8 10 11 12 13 14 15 16 17 18 19 25 31 [24 26 27 29] (21 23 24 26 27 28 29 30) | 25.25 [4.00] (8.00) [24 26 27 29] (21 23 24 26 27 28 29 30) |
| 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 | [21 23 25 27 29] | [41.00] |
| GT007 | Taylor, G.B. Rodriguez, C. Peck, A.B. Zavala, R. | Univ. of New Mexico Center for Astrophysics USNO | | Weighing the Binary Black Hole System in 0402+379 [G.B. Taylor] | L | 5 | 14 | 10.50 |
| Maint | NRAO staff | | | Install 800 | 8 | | 23 | 4.00 |
| Maint | NRAO staff | | | Maintenance | | | 1 6 9 14 22 [27 29] (28 30) | 34.50 [16.00] (8.00) |
| Maint | NRAO staff | | | Maintenance/Install 340MHz | 3 | | 13 | 8.50 |

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| Tests | Norrod | | | BL Tests | C | DSP | (17 18) | (6.00) |
| Tests | NRAO staff | | | M&C Install | | | 28 | 4.00 |
| Tests | NRAO staff | | | M&C Integ | | | [20 21 22 23] | [16.00] |
| Tests | NRAO staff | | | M&C Reg | LSX | DSP | 25 | 6.00 |
| Tests | NRAO staff | | | OOF | QBK | DSP | (19) | (8.00) |
| Tests | NRAO staff | | | Pointing | X | DSP | 9 (28 30) | 4.00 (16.00) |
| Tests | NRAO staff | | | RCO*3 340MHz | 3 | DSP | 15 | 1.50 |
| Tests | NRAO staff | | | RCO*8 800 MHz | 8 | DSP | 23 | 1.50 |
| Tests | Ford | | | Servo tests | | | [17 18] | [8.50] |
| Tests | NRAO staff | | | Tcals | XCSLU | | 14 | 3.75 |
| Total Hrs | Astronomy | 644.25 | | 269.25 | | | | |
| | Maintenance | 55.00 | | 16.00 | | | | |
| | Un-assigned | | | | | | | |
| | Tests | 50.75 | | 24.50 | | | | |

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