# GBT Observing Schedule for April 2010

| Proposal | Investigators | Institute | NRAO Friend | Title | Bands | Back Ends | Days * | Hrs * |
|---|---|---|---|---|---|---|---|---|
| BB240 | Bower, G. C.<br>Bolatto, A.<br>Ford, E.<br>Kalas, P. | UC Berkeley<br>University of California at Berkeley<br>University of Amsterdam<br>Calif.-Berkeley | Frank Ghigo | RIPL: Radio Interferometric PLanet Search [G. C. Bower] | X | 5 | 1 11 19 20 28 | 34.00 |
| BB261 | Braatz, J. A.<br>Condon, J. J.<br>Greenhill, L. J.<br>Henkel, C.<br>Lo, F.K. Y.<br>Reid, M. J.<br>Kuo, C-Y.<br>Zaw, I.<br>Tilak, A.<br>Hao, L.<br>Lah, P. | NRAO - CV<br>NRAO-CV<br>CfA<br>MPIfR<br>NRAO-CV<br>Center for Astrophysics<br>UVA<br>NYU<br>CfA<br>Cornell Dept. of Astronomy | Jim Braatz | The Megamaser Cosmology Project: Year 2 [J. A. Braatz] | K | 5 | 12 | 12.25 |
| BB278 | Braatz, J. A.<br>Condon, J. J.<br>Reid, M. J.<br>Henkel, C.<br>Lo, F.K. Y.<br>Kuo, C-Y.<br>Impellizzeri, C.M.V.<br>Hao, L. | NRAO - CV<br>NRAO-CV<br>Center for Astrophysics<br>MPIfR<br>NRAO-CV<br>UVA<br>NRAO<br>Cornell Dept. of Astronomy | Jim Braatz | The Megamaser Cosmology Project: Year 3 [J. A. Braatz] | K | 5 | 2 3 5 | 25.00 |
| BF100 | Forbrich, J.<br>Berger, E.<br>McLean, Margaret | CfA<br>CfA<br>CfA | Frank Ghigo | Confirmation and astrometric monitoring of the first VLBI-detected brown dwarf [J. Forbrich] | X | 5 | 26 | 8.50 |
| BL169 | Loinard, L.<br>Dzib, S.<br>Gomez, L.<br>Mioduszewski, A.<br>Deller, A.<br>Torres, R.M.<br>Rodriguez, L. F. | Instituto de Astronomia (UNAM, Morelia, Mexico)<br>UNAM<br>UNAM<br>NRAO - SOC<br>Swinburne<br>Uni Bonn<br>Instituto de Astronomia, UNAM | Frank Ghigo | The distance to Monoceros: one of the nearest high-mass star-forming regions [L. Loinard] | X | 5 | 3 11 | 11.00 |
| BM327 | McLean, Margaret<br>Berger, E.<br>Forbrich, J. | CfA<br>CfA<br>CfA | | VLBA Observations of the M Dwarf 2M131420+132001: Resolving a Binary? [Margaret McLean] | X | 5 | 1 2 | 8.50 |
| CH11300893 | Heinke, C<br>Sivakoff, G.R.<br>Lynch, R.<br>Ransom, S.<br>Sarazin, C. L.<br>Ivanova, N | University of Virginia<br>UVA<br>NRAO-CV<br>University of Virginia | Scott Ransom | Binary Formation in the Sparse Galactic Globular Cluster NGC 3021 [G.R. Sivakoff] | S | U | 24 | 1.00 |
| GBT07A-051 | Hollis, J. M. | NASA/GSFC | Tony Remijan | A GBT Legacy Survey of Prebiotic Molecules Toward | B | S | 15 18 30 | 11.50 |

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

* [ ] indicates secondary project; ( ) indicates primary project

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| | Remijan, A.<br>Jewell, P. R.<br>Lovas, F. J. | National Radio Astronomy Observatory<br>NRAO-CV<br>Nat'l Instit. of Standards and Technology | | SgrB2(N-LMH) and TMC-1 [A. Remijan] | | | | |
| GBT08B-038 | Goncalves, D.<br>Martin, P.G.<br>Lockman, F. J. | University of Toronto<br>NRAO-GB | Jay Lockman | The North Celestial Pole Loop [D. Goncalves] | L | S | 24 | 4.00 |
| GBT08C-026 | Wilner, D.<br>Hales, A.<br>Mason, B.S. | Center for Astrophysics<br><br>NRAO-GB | Brian Mason | 3.3 mm MUSTANG Imaging of the Vega Debris Disk [A. Hales] | M | | 1 5 12 13 | 17.75 |
| GBT08C-078 | Cotton, B.W. D.<br>Mason, B.S.<br>Dicker, S.<br>Korngut, P.<br>Devlin, M.J. | NRAO-CV<br>NRAO-GB<br>UPenn<br>UPenn<br>UPenn | Brian Mason | MUSTANG Observations of Cygnus A [B.S. Mason] | M | | 16 23 | 1.75 |
| GBT09B-006 | Camilo, F.<br>Ransom, S.<br>Chatterjee, S.<br>Ray, P.S.<br>Lorimer, D. | Columbia<br>NRAO-CV<br>Center for Astrophysics<br>NRL<br>WVU | Scott Ransom | Three newly discovered pulsars [F. Camilo] | S | U | 10 | 1.25 |
| GBT09B-029 | Kramer, M.<br>Stairs, I.<br>McLaughlin, M.<br>Ferdman, R.<br>Camilo, F.<br>Lyne, A. G.<br>Manchester, D.R.<br>N.<br>Possenti, A.<br>D'Amico, N.<br>Burgay, M.<br>Freire, P.<br>Perera, B. | Jodrell Bank<br>UBC<br>WVU<br>Obs. de Paris<br>Columbia<br>Manchester U<br>ATNF<br>Instituto di Astrofisica<br>Instituto di Astrofisica<br>Instituto di Astrofisica<br>NAIC<br>UWV | Scott Ransom | Timing and General Relativity in the Double Pulsar System [M. Kramer] | 8 | YB | 15 | 5.50 |
| GBT09B-031 | Lynch, R.<br>Ransom, S.<br>Lorimer, D.<br>McLaughlin, M.<br>Stairs, I.<br>Kaspi, V.<br>Cordes, J. M.<br>Champion, D.<br>Archibald, A.<br>Kondratiev, V.<br>Boyles, J. | UVA<br>NRAO-CV<br>WVU<br>WVU<br>UBC<br>McGill<br>NAIC and Cornell<br>MPIfR<br>McGill<br>NFRA<br>WVU | Scott Ransom | Timing the New GBT 350 MHz Drift Scan Pulsars [R. Lynch] | 8 | U | 16 18 | 4.50 |

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|---|---|---|---|---|---|---|---|---|
| | Hessels, J. W. T.<br>McPhee, C.<br>Roberts, M.<br>Kasian, L.<br>van Leeuwen, J.<br>Deneva, J. | U Amsterdam<br>UBC<br>Eureka Scientific<br>University of British Columbia<br>UC Berkeley<br>Cornell | | | | | | |
| GBT09B-041 | Demorest, P.<br>Nice, D.<br>Stairs, I.<br>Ransom, S.<br>Ferdman, R.<br>Lommen, A.<br>Backer, D. C.<br>Gonzalez, M. | NRAO-CV<br>Bryn Mawr College<br>UBC<br>NRAO-CV<br>Obs. de Paris<br>Franklin and Marshall College<br>UC Berkeley | Scott Ransom | Detecting nHz Gravitational Radiation using a Pulsar Timing Array [P. Demorest] | L8 | YU | 18 19 20 21 | 17.00 |
| GBT09C-014 | Camilo, F.<br>Ransom, S.<br>Gaensler, B.M.<br>Lorimer, D. | Columbia<br>NRAO-CV<br>CFA<br>WVU | Scott Ransom | The energetic pulsar J1747-2809 in the supernova remnant G0.9+0.1 [F. Camilo] | S | U | 23 | 1.75 |
| GBT09C-020 | Nikolic, B.N. | Mullard Radio Astronomy Observatory | Brian Mason | Star-forming galaxies at 90GHz [B.N. Nikolic] | M | | 22 23 | 3.25 |
| GBT09C-050 | Sajina, A.<br>Partridge, R. B.<br>Devlin, M.J.<br>Korngut, P.<br>Dicker, S.<br>Evans, T. | University of British Columbia<br>Haverford College<br>UPenn<br>UPenn<br>UPenn | Brian Mason | 90 GHz Flux Densities of Radio Source that Dominate the Confusion in SZ Surveys [A. Sajina] | M | | 20 | 2.75 |
| GBT09C-051 | Braatz, J. A.<br>Condon, J. J.<br>Reid, M. J.<br>Henkel, C.<br>Lo, F.K. Y.<br>Kuo, C-Y.<br>Impellizzeri, C.M.V.<br>Hao, L. | NRAO - CV<br>NRAO-CV<br>Center for Astrophysics<br>MPIfR<br>NRAO-CV<br>UVA<br>NRAO<br>Cornell Dept. of Astronomy | Jim Braatz | The Megamaser Cosmology Project: Year 3 [J. A. Braatz] | K | S | 10 11 13 28 | 23.50 |
| GBT09C-057 | Ransom, S.<br>Lorimer, D.<br>McLaughlin, M.<br>Stairs, I.<br>Kaspi, V.<br>Roberts, M.<br>Lynch, R.<br>van Leeuwen, J.<br>van Leeuwen, J.<br>Kondratiev, V.<br>Boyles, J. | NRAO-CV<br>WVU<br>WVU<br>UBC<br>McGill<br>Eureka Scientific<br>UVA<br>UC Berkeley<br>UC Berkeley<br>NFRA<br>WVU | Scott Ransom | A 350-MHz Pulsar Survey of the Northern Celestial Cap [S. Ransom] | 3 | U | 3 4 6 7 9 | 19.75 |

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|---|---|---|---|---|---|---|---|---|
| | Hessels, J. W. T.<br>Archibald, A.<br>Jenet, F. | U Amsterdam<br>McGill | | | | | | |
| GBT09C-058 | Ransom, S.<br>Freire, P.<br>Stairs, I.<br>Hessels, J. W. T.<br>Lynch, R. | NRAO-CV<br>NAIC<br>UBC<br>U Amsterdam<br>UVA | Scott Ransom | Long Term Timing of 55 Recycled Pulsars in Bulge Globular Clusters [S. Ransom] | S | U | 27 | 3.00 |
| GBT09C-086 | Arzoumanian, Z.<br>Ransom, S. | USRA<br>NRAO-CV | Scott Ransom | Followup of the GBT's discovery of a 24 ms pulsar in SNR G76.9+1.0 [Z. Arzoumanian] | S | U | 10 | 4.00 |
| GBT09C-092 | Zeiger, B.<br>Darling, J. | U Colorado<br>U Colorado | | Water and OH Masers in the Atmosphere of an Extrasolar Planet [B. Zeiger] | K | S | 29 | 2.00 |
| GBT09C-093 | Heatherly, S.<br>Rosen, R. | NRAO-GB<br>NRAO-GB | Rachel Rosen | Maintenance Observing with the GBT [S. Heatherly] | 83 | YU | 16 18 27 | 10.00 |
| GBT10A-001 | Reach, W. T.<br>Rho, J.<br>Cortial, Marin<br>Dickinson, Clive | IPAC, Caltech<br>Caltech IPAC<br>Laboratiore Astrophysique de Toulouse | Frank Ghigo | Microwave emission from supernova remnants [W. T. Reach] | B | DK | 4 6 | 7.25 |
| GBT10A-012 | Joncas, G.<br>Liszt, H.<br>Robitaille, J.<br>Lockman, F. J.<br>Miville-Deschenes, M.<br>Martin, P.G. | Universite Laval<br>NRAO-CV<br>Laval<br>NRAO-GB<br>Orsay<br>University of Toronto | Jay Lockman | Establishing a scenario of molecule formation from high Galactic latitude sites [G. Joncas] | L | S | 10 | 3.75 |
| GBT10A-014 | Greenhill, L. J.<br>Briggs, F. H.<br>Goddi, C.<br>Hagiwara, Y.<br>Harris, R.<br>Horiuchi, S.<br>Masters, K.<br>Moran, J. M.<br>Soni, A.<br>Tilak, A.<br>Zaw, I. | CfA<br>ANU<br>Istituto Nazionale di Astrofisica<br>NAOJ<br>CfA<br>CDSCC<br>University of Portsmouth<br>CfA<br>ANU<br>CfA<br>NYU | Daniel Perera | H2O Maser Survey of Early-Type Galaxies [L. J. Greenhill] | K | S | 10 29 | 5.25 |
| GBT10A-016 | Jackson, M.<br>Hunter, D. A. | Lowell<br>Lowell | Daniel Perera | Searching for a Connection Between NGC 1569 and the IC 342 Galaxy Group [M. Jackson] | L | S | 6 7 8 9 11 12 14 15 17 21 23 24 | 50.75 |
| GBT10A-019 | Amiri, N.<br>Vlemmings, W.<br>van Langevelde, H.J. | UMich<br>Argelander-Institut fuer Astronomie<br>JIVE | Toney Minter | The role of the magnetic field on the mass loss in AGB stars [N. Amiri] | K | S | 21 22 | 5.75 |

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|---|---|---|---|---|---|---|---|---|
| GBT10A-022 | Miller, J.<br>McLaughlin, M.<br>Boyles, J.<br>Keane, E.<br>Lyne, A. G.<br>Kramer, M.<br>Lorimer, D. | WVU<br>WVU<br>WVU<br>Manchester U<br>Manchester U<br>Jodrell Bank<br>WVU | Scott Ransom | Continued Timing of Rotating Radio Transients [J. Miller] | 8 | U | 17 | 5.00 |
| GBT10A-023 | Lorimer, D.<br>Camilo, F.<br>McLaughlin, M. | WVU<br>Columbia<br>WVU | Scott Ransom | Timing seven new pulsars found in a deep Parkes multibeam survey [D. Lorimer] | S | U | 1 2 4 6 9 | 4.75 |
| GBT10A-039 | Johnson, K.<br>Kepley, A.<br>Pisano, D.J.<br>Balser, D.S.<br>Rabidoux, K. | UVA<br>UVA<br>WVU<br>NRAO - Green Bank<br>WVU | Dana Balser | Survey for Radio Recombinations Lines in Nearby Star-Forming Galaxies [K. Johnson] | B | S | 1 | 4.00 |
| GBT10A-042 | Castangia, P.<br>Tarchi, A.<br>Panessa, F | INAF<br>INAF<br>INAF | Daniel Perera | A search for 22 GHz water masers in recently identified INTEGRAL AGN [P. Castangia] | K | S | 29 | 2.00 |
| GBT10A-043 | Free, N.<br>Shields, J.<br>Lockman, F. J. | Ohio U<br>Ohio U<br>NRAO-GB | Jay Lockman | M33 And Its Association with Local Group Gas [F. J. Lockman] | L | S | 16 29 | 3.50 |
| GBT10A-049 | Rosen, R.<br>McLaughlin, M.<br>Lorimer, D.<br>Heatherly, S. | NRAO-GB<br>WVU<br>WVU<br>NRAO-GB | Rachel Rosen | Confirmation and Follow-up Observations of New Pulsars Discovered by the PSC [R. Rosen] | 38 | U | 3 | 2.00 |
| GBT10A-050 | Walker, L.<br>Johnson, K.<br>Privon, G.<br>Whelan, D. | UVA<br>UVA<br>UVA<br>UVA | Daniel Perera | HI MASSES OF COMPACT GROUPS OF GALAXIES [L. Walker] | L | S | 16 | 3.00 |
| GBT10A-056 | Mroczkowski, A.<br>Korngut, P.<br>Mason, B.S.<br>Dicker, S.<br>Devlin, M.J.<br>Cotton, B.W. D.<br>Sun, M.<br>Reese, E. | UPenn<br>UPenn<br>NRAO-GB<br>UPenn<br>UPenn<br>NRAO-CV<br>UVA<br>UPenn | Brian Mason | Detailed cluster physics from the resolved SZ effect imaged with Mustang [A. Mroczkowski] | M | | 1 5 14 15 | 10.50 |
| GBT10A-058 | Ries, P.<br>Mason, B.S.<br>Hunter, T. | UVA<br>NRAO-GB<br>NRAO-CV | Brian Mason | A Study of TNO Analogues at 3.3mm in search of deviations from unity emissivity [P. Ries] | M | | 4 | 2.00 |
| GBT10A-059 | Courtois, H.<br>Tully, R.B.<br>Fisher, R. | Institute for Astronomy<br>Institute for Astronomy<br>NRAO-CV | Ron Maddalena | Bulk motions of filaments in the Local Universe - Flat Galaxies Catalog [H. Courtois] | L | S | 3 6 7 9 12 14 16 17 18 19 21 22 23 24 25 26 27 | 150.00 |

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|---|---|---|---|---|---|---|---|---|
| | Makarov, D.<br>Karachentsev, I.D.<br>Mitronova, S. | Special AO<br>Special AO<br>Special AO | | | | | 30 | |
| GBT10A-060 | Lazio, T.J.W.<br>McLaughlin, M.<br>Ransom, S.<br>Cordes, J. M. | NRL<br>WVU<br>NRAO-CV<br>NAIC and Cornell | Scott Ransom | Direct Detection of Local Group Baryons: Giant Pulses from Extragalactic Pulsars [T.J.W. Lazio] | 3 | U | 6 7 | 10.25 |
| GBT10A-061 | Ransom, S.<br>Ray, P.S.<br>Camilo, F.<br>Roberts, M. | NRAO-CV<br>NRL<br>Columbia<br>Eureka Scientific | | Timing of a 3.1ms pulsar discovered in a Fermi LAT unidentified gamma-ray source [S. Ransom] | L | U | 10 | 1.00 |
| GBT10A-064 | Pisano, D.J.<br>Rabidoux, K. | WVU<br>WVU | Brian Mason | Mapping the thermal emission in local Luminous Compact Blue Galaxies [D.J. Pisano] | B | K | 1 | 1.75 |
| GBT10A-065 | Murphy, E.<br>Condon, J. J.<br>Schinnerer, E.<br>Turner, J. L.<br>Beck, R.<br>Mason, B.S.<br>Meier, D.S.<br>Armus, L. | IPAC<br>NRAO-CV<br>MPIA<br>UCLA<br>MPIfR<br>NRAO-GB<br>NMIMT<br>SSC/IPAC | Brian Mason | Measuring Star Formation Activity and Anomalous Dust Emission in Nearby Galaxies [E. Murphy] | B | K | 2 4 5 6 11 12 14 15 16 29 30 | 44.25 |
| GBT10A-066 | Braatz, J. A.<br>Kuo, C-Y.<br>Cassidy, T. | NRAO - CV<br>UVA<br>UVA | Jim Braatz | Water Masers in the Saturnian System [C-Y. Kuo] | K | S | 27 | 4.00 |
| GBT10A-067 | Wang, K.<br>Zhang, Q.<br>Liu, H.<br>Caselli, P.<br>Jimenez-Serra, I.<br>Tan, J.<br>Fontani, F.<br>Wu, Y. | CfA<br>CfA<br>CfA<br>U Leeds<br>U Leeds<br>U Florida<br>Obs. Geneve<br>U Peking | Jim Braatz | Turbulence Dissipation and Fragmentation in the Early Phase of Cluster Formation [K. Wang] | K | S | 29 | 1.50 |
| GBT10A-068 | Appleton, P. N.<br>Darling, J.<br>Cluver, M.<br>Frayer, D.T.<br>Boulanger, F.<br>Guillard, P.<br>Ogle, P. | Caltech<br>U Colorado<br>Caltech<br>NRAO-GB<br>Institut d'Astrophysique<br>Orsay U<br>Caltech | Dave Frayer | Searching for H2O Masers in Shocked H2-Luminous systems [P. N. Appleton] | K | S | 22 28 | 5.00 |
| GBT10A-072 | Cordiner, M.<br>Charnley, S.B.<br>Millar, T.<br>Buckle, J. | NASA<br>GSFC<br>Queen's U Belfast<br>Cavendish | Jim Braatz | A Targeted Search for Hydrocarbon Anions: Probing the Evolution of Dense Clouds [M. Cordiner] | B | S | 19 20 | 9.50 |

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|---|---|---|---|---|---|---|---|---|
| GBT10A-076 | Verschuur, G. L. | University of Memphis | | Follow-up to 10A-003 [G. L. Verschuur] | L | P | 28 30 | 8.00 |
| GBT10A-077 | Frayer, D.T.<br>Frayer, D.T.<br>Negueruela, I.<br>Dye, S.<br>Serjeant, S.<br>Omont, A.<br>Eales, S.<br>Dunne, L.<br>Maddalena, R. | NRAO-GB<br>NRAO-GB<br>Strasbourg<br>Imperial College<br>Imperial College<br>Inst. d'Astrophysique de Paris<br>Cardiff University<br>Cardiff University<br>NRAO-Green Bank | | CO(1-0) Observations of the Brightest H-ATLAS Lensed Submm Galaxies [D.T. Frayer] | B | Z | 21 | 4.00 |
| GBT10A-078 | Blagrave, K.<br>Boothroyd, A.<br>Lockman, F. J.<br>Martin, P.G.<br>Miville-Deschenes, M. | University of Toronto<br>NRAO-GB<br>University of Toronto<br>Orsay | | Re-observation of Galactic HI in the ELIAS N1 Field [F. J. Lockman] | L | S | 16 17 30 | 7.00 |
| GBT10A-080 | Demorest, P.<br>Pennucci, T.<br>Ransom, S.<br>Hessels, J. W. T.<br>Roberts, M. | NRAO-CV<br>UVA<br>NRAO-CV<br>U Amsterdam<br>Eureka Scientific | Scott Ransom | Confirming the Mass of the Pulsar J1614-2230 [P. Demorest] | L | S | 17 18 | 4.00 |
| GLST021284 | Camilo, F.<br>Ransom, S.<br>Roberts, M.<br>McLaughlin, M. | Columbia<br>NRAO-CV<br>Eureka Scientific<br>WVU | Scott Ransom | GREEN BANK TELESCOPE TIMING OF KEY FERMI PULSARS [F. Camilo] | S38 | UG | 4 15 16 21 30 | 13.75 |
| Maint | NRAO staff | | | Maintenance | | | 8 9 13 20 22 27 | 50.75 |
| Tests | Coherent Tests | | | GUPPI | S3 | | 29 | 1.50 |
| Tests | Software Tests | | | KFPA | LF | | 16 | 4.00 |
| Tests | NRAO staff | | | KFPA Followup Tests | F | | 2 | 4.00 |
| Tests | up map | | | KFPA Follow | F | | 29 | 5.00 |
| Tests | NRAO staff | | | KFPA Pipeline Mapping Test | F | | 8 | 6.00 |
| Tests | NRAO staff | | | KFPA Point Focus Check | F | | 19 | 7.25 |
| Tests | pointing<br>night | | | PTCS | BQLX | | 13 14 28 30 | 18.75 |
| Tests | X | | | RFI Checkout | X8SLC | | 5 17 18 22 23 25 26 29 | 7.50 |
| Tests | 800 | | | Receiver Checkout | 8AC | | 13 22 29 | 4.00 |

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

* [ ] indicates secondary project; ( ) indicates primary project

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

# GBT Observing Schedule for April 2010

| Proposal | Investigators | Institute | NRAO Friend | Title | Bands | Back Ends | Days * | Hrs * |
|---|---|---|---|---|---|---|---|---|
| Tests | NRAO staff | | | Scal Measurements | K | | 9 10 | 4.25 |
| Total Hrs | Astronomy | 607.00 | | | | | | |
| | Maintenance | 50.75 | | | | | | |
| | Un-assigned | | | | | | | |
| | Tests | 62.25 | | | | | | |

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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