

# GBT Observing Schedule for March 2004

Proposal	Investigators	Institute	NRAO Friend	Title	Bands	Back Ends	Days *	Hrs *
BB178	Bower, G. C. Anderson, J.	UC Berkeley Rice University	F. D. Ghigo	Trigonometric Parallax of Radio Stars in the Pleiades [G. C. Bower]	X	V	20 21	8.00
BS131	Shen, Z. Lo, F.K. Y. Ho, P. T. P. Miyoshi, M.	ASIAA NRAO-CV Smithsonian Astrophysical Obse National Astronomical Observat	G. I. Langston F. D. Ghigo	VLBA Observations of Sgr A ? at 3 and 7 mm [Z. Shen]	Q	V	8 20	14.00
GBT01A-058	Briggs, F. H. de Bruyn, A. G. Chengalur, J. Kanekar, N. Lane, W.M. Vermeulen, R. Little, B.	ANU NFRA NCRA (TIFR) Kapteyn Astronomical Institute Naval Research Lab Stichting ASTRON Australian National University	G. I. Langston	High redshift Damped Lyman Alpha Systems against background Radio Galaxies [F. H. Briggs]	4	PS	3 4 5	20.50
GBT02A-025	Hollis, J. M. Jewell, P. R. Lovas, F. J. Mollandal, H.	NASA/GSFC NRAO-GB National Institute of Standards and Technology University of Oslo	P. R. Jewell	A Search for the Next Interstellar Aldehyde Sugar: Glycerinaldehyde [J. M. Hollis]	UK	S	2 3 4 9 10	38.50
GBT02A-028	Braatz, J. A. Langston, G. I. McMullin, J. Garwood, R.	NRAO NRAO-GB NRAO-CV NRAO-CV	J. A. Braatz	Exploring the Radio Spectrum of Orion A and W51 [J. A. Braatz]	LUKQ4	S	8	4.00
GBT02A-046	Braatz, J. A. Henkel, C. Wilson, A. S.	NRAO Max-Planck-Institut fur Radioa University of Maryland	J. A. Braatz	Monitoring a Maser Disk in Mrk 1419 [J. A. Braatz]	K	S	19	3.00
GBT02A-063	Claussen, M. J. Wootten, H. A. Marvel, K. Wilking, B. A.	NRAO-SOC NRAO-CV American Astronomical Society University of Missouri	K. O'Neil A. Minter	Water Maser Monitoring of Low and Intermediate Mass Young Stellar Objects [M. J. Claussen]	K	S	2 3 (23 25)	4.00 (11.50)
GBT02A-069	Fisher, R.	NRAO Green Bank Facility		Galaxy Survey of HI emission [R. Fisher]	L	SP	7 8	3.00
GBT02C-002	Carilli, C. L. Stocke, J. T. Menten, K. M. Langston, G. I. Rector, T.A. Dwarakanath, K. S.	NRAO University of Colorado Max-Planck-Institut Fur Radioa NRAO-GB NRAO-AOC NRAO-AOC	G. I. Langston	Redshifted HI 21cm Absorption towards Red Gravitational Lenses (J0134-0931, J1004+1229) [C. L. Carilli]	48	S	2 3 14	11.00
GBT02C-012	Hollis, J. M. Lovas, F. J. Jewell, P. R. Kisiel, Z.	NASA/GSFC National Institute of Standards and Technology NRAO-GB Institute of Physics, Polish Academy of Sciences	P. R. Jewell	A Search for the First Nucleic Acid Base Biomarker: Interstellar Pyrimidine [J. M. Hollis]	UK	S	13 15 (22 23 28 29 30 31)	35.00 (65.00)

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

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GBT02C-030	Lo, F.K. Y. Liang, M. C. Trung, D.	NRAO-CV Caltech Academia Sinica Institute of Astronomy & Astrophysics	J. A. Braatz	GBT Search for Very Luminous H <sub>2</sub> O Megamasers [F.K. Y. Lo]	K	S	17 18	23.00
GBT02C-033	Liszt, H. Gerin, M. Lucas, R.	NRAO-CV Ecole Normale Superieure IRAM (Grenoble)	A. Minter	Search for C <sub>4</sub> H absorption in diffuse clouds at 19 GHz [H. Liszt]	K	S	(30 31)	(20.00)
GBT02C-038	Gibson, S. Knee, L.B.G.	University of Calgary Dominion Radio Astrophysical Observatory	G. I. Langston A. Minter	Interstellar Matter in the Vicinity of Cassiopeia A (HI) [S. Gibson]	L4	SD	6 7	29.00
GBT02C-052	McGary, R.S. Ho, P. T. P.	Harvard University Smithsonian Astrophysical Obse	A. Minter K. O'Neil	Ammonia in the Central 10 pc of the Galaxy [R.S. McGary]	K	S	(22 23 25 27)	(24.00)
GBT03A-014	Lockman, F. J.	NRAO-GB		Halo HI Clouds: Distribution and Properties [F. J. Lockman]	L	PD	1	4.50
GBT03A-016	Stairs, I. Manchester, D.R. N. Lyne, A. G.	University of British Columbia Australia Telescope NRAL		The Physics of a Massive Pulsar System [I. Stairs]	L	BP	19	2.50
GBT03B-011	Widicus, S. Blake, G. Braakman, R.	Caltech Caltech Caltech	K. O'Neil	A search for sugars in hot cores [S. Widicus]	QK	SP	14	9.50
GBT03B-013	Yun, M. Schneider, S. E. Brinks, E. Bravo-Alfaro, H.	University of Massachusetts University of Massachusetts INAOE Universidad de Guanajuato, Mexico	G. I. Langston	An Unbiased HI Survey of the Coma Cluster and Beyond [M. Yun]	L	S	1 2 9 [27 28 29 30 31]	15.25 [26.50]
GBT03B-015	Ransom, S. Stairs, I. Kaspi, V. Hessels, J. W. T. Backer, D. C.	McGill University University of British Columbia McGill University McGill University University of California, Berkeley	A. Minter	Timing the Pulsars in the Globular Cluster M30 [S. Ransom]	LS	B	21	5.50
GBT03B-019	Li, D. Goodman, A. A. Goldsmith, P. F. Schnee, S.	Harvard-Smithsonian Center for Astrophysics Center for Astrophysics Cornell University Harvard-Smithsonian Center for Astrophysics	K. O'Neil G. I. Langston	The GBT HI Narrow Self Absorption Survey of Star Forming Regions [D. Li]	L	S	14 16 17 20 21 [22 23 25]	24.00 [18.00]
GBT03C-009	Darling, J.	Carnegie Institution of Washington (Headquartes)	A. Minter	A Direct Measurement of Fine Structure "Constant" Evolution from OH and HI Absorption Lines [J. Darling]	4	S	5 6	11.50
GBT03C-031	Jacoby, B. Anderson, S.	Caltech Astronomy Caltech Physics	K. O'Neil	Timing the pulsars in M62, NGC 6544, and NGC 6624 and Search for Ultra-fast pulsars [B. Jacoby]	L8	BS	15	7.50

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	Kulkarni, S. R. Kaplan, D.L. Backer, D. C.	Caltech Caltech University of California, Berkeley						
GBT04A-002	Camilo, F.	Columbia Astrophysics Laboratory	K. O'Neil	Measurement of Scattering Timescales at 800 MHz for a Sample of "Parkes Multibeam Pulsars" [F. Camilo]	8	BPG	28	12.00
GBT04A-016	Donovan, J. Camilo, F.	Columbia University Columbia Astrophysics Laboratory	K. O'Neil	Deep Searches for Young Pulsars in "Shell" Supernova Remnants [J. Donovan]	8	BG	[23 24 25 26 27]	[22.50]
GBT04A-025	Liszt, H. Lockman, F. J. Rupen, M. P. Pidopryhora, Y.	NRAO-CV NRAO-GB NRAO - NM Ohio University	F. J. Lockman	Physical Properties of Halo HI Clouds [H. Liszt]	L	SP	[22 27 29 31]	[28.00]
GBT04A-026	Pidopryhora, Y. Shields, J. Lockman, F. J.	Ohio University Ohio University NRAO-GB	F. J. Lockman	Mapping the Galactic Halo HI: Correlated halo clouds and an HI plume [Y. Pidopryhora]	L	SP	8 12 15 16 18 19 21 22	38.75
GBT04A-030	Stairs, I. Thorsett, S. Arzoumanian, Z. Ferdman, R.	University of British Columbia University of California, Santa Cruz NASA/GSFC University of British Columbia	A. Minter	High-Precision Timing of Binary Pulsars at the GBT [I. Stairs]	L	PG	16	2.75
GBT04A-041	Margot, J.L. Peale, S. Slade, M.	Caltech (Geo. and Planetary) Dept. of Physics, U. of Calif., Santa Barbara JPL	G. I. Langston	The interiors of Mercury and Venus from their spin dynamics [J.L. Margot]	X	O	29 30 31	6.00
GBT04A-045	Roberts, M. Hessels, J. W. T. Ransom, S. Kaspi, V. Tam, C.R. Livingstone, M. Backer, D. C. Crawford, F. Kaplan, D.L.	McGill University (Physics Dept) McGill University McGill University McGill University McGill McGill University of California, Berkeley Haverford College Caltech	K. O'Neil G. I. Langston	Timing of Three Binary Pulsars Discovered in a Survey of Mid-Latitude EGRET Error Boxes [M. Roberts]	L83	BG	1 [23 25]	2.25 [6.50]
Comm	Maddalena			Q band comm	Q	S	3 12 (24 25 26 27)	13.25 (28.50)
Shutdown	NRAO staff			Power Shutdown			11	4.00
Calibratio	Ghigo			Sys Cal	LCSXUKQ	DSP	8	5.00
Maint	NRAO staff			Install 450Mhz Feed	4		1	1.75
Maint	NRAO staff			Maintenance			2 5 9 12 16 19 [23 24 25 26 30]	53.00 [49.00]

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							31]	
Setup	NRAO staff			Observation setup	XQ4KUL368S	VPSDBGO	1 2 3 4 5 6 7 8 9 11 13 14 15 16 17 18 19 20 21 27 29 30 31 [22 23 24 25 26 27 28 29 31] (22 23 25 27 28 29 30 31)	51.00 [16.00] (13.00)
Tests	Watts			AB Tests	S	DSP	11	4.00
Tests	NRAO staff			General tests	LCXUKQ	S	(23 24 25 26)	(48.00)
Tests	Fleming			M&C Integ	LCUKSX	DSP	18 19 27	12.00
Tests	Braatz			M&C Reg tests	KSUXCL	DSP	[23 24 25 26]	[23.50]
Tests	Fleming			M&C Release			(31)	(2.00)
Tests	Minter			PCO 1A4	X	DSP	[27 28 29]	[15.50]
Tests	Balser			PCO 2A17	X	DS	[30 31]	[6.50]
Tests	Balser			PCO 2A21	LCS	DSP	10	5.00
Tests	O'Neil			PCO 2A66	K	DSP	10 11	9.50
Tests	Balser			PCO 2C17	U		6 7	7.00
Tests	Braatz			PCO 4A5	U	S	19 20	3.50
Tests	Prestage			PTCS	QKUXSCL	DSP	1	6.00
Tests	Langston			RCO*4 450MHz	4	DSP	1	3.00
Tests	Ghigo			RCO*8	8	DSP	11	2.50
Tests	Lacasse O'Neil			Spigot tests		SG	4	7.50
Tests	NRAO staff			System tests	LCUKXC	DSP	11	5.50
Tests	Ghigo			VLBI tests	Q	S	7	1.50

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Total Hrs	Shutdown	4.00						
	Astronomy	455.50	101.50					
	Setup	64.00	16.00					
	Commissioning	41.75						
	Calibration	5.00						
	Maintenance	54.75	49.0					
	Un-assigned	2.00						
	Tests	117.00						

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