

# GBT Observing Schedule for April 2004

Proposal	Investigators	Institute	NRAO Friend	Title	Bands	Back Ends	Days *	Hrs *
BK110	Kondratko, P.T. Greenhill, L. J. Lovell, J.E.J. Kuiper, T. B. H. Moran, J. M. Jauncey, D. L.	Harvard University Harvard-Smithsonian ATNFC/o COSSA JPL CfA ATNF	F. D. Ghigo	Follow-up Imaging of the Water Megamaser in NGC 3393 [P.T. Kondratko]	K	V	26 27	7.00
BW070	Walker, R. C. Wrobel, J. Ly, C.	NRAO-SOC NRAO-SOC University of Arizona	F. D. Ghigo	High Sensitivity Observations of the M84 Jet Base [R. C. Walker]	Q	V	4 5	12.50
GBT01A-061	Lane, W.M. Briggs, F. H. Chengalur, J. Kanekar, N. Kassim, N. E.	Naval Research Lab ANU NCRA (TIFR) Kapteyn Astronomical Institute NRL	R. Maddalena A. Minter	A blind search for redshifted HI 21cm Absorption [W.M. Lane]	6	SP	[11 12 13]	[38.00]
GBT01A-064	Cordes, J. M. Lazio, T. J. McLaughlin, M. Backer, D. C. Chatterjee, S. Kassim, N. E.	NAIC and Cornell University Naval Research Laboratory University of Manchester University of California, Berkeley Cornell University NRL	K. O'Neil G. I. Langston	Search for Pulsars from Point Sources in the Galactic Center [J. M. Cordes]	X	BG	26 28 30 [24 25 27 29]	18.00 [22.50]
GBT02A-025	Hollis, J. M. Jewell, P. R. Lovas, F. J. Mollendal, 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)	(45.75)
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]	6UKQ	S	(7 9)	(12.00)
GBT02A-031	Lockman, F. J.	NRAO-GB		Galactic HI Mapping of X-Ray, UV, and Optical Deep Fields [F. J. Lockman]	L	SP	1	3.75
GBT02A-046	Braatz, J. A. Henkel, C. Wilson, A. S.	NRAO Max-Planck-Institut fur Radioa University of Maryland	J. A. Braatz G. I. Langston	Monitoring a Maser Disk in Mrk 1419 [J. A. Braatz]	K	S	(27 28 29 30)	(6.00)
GBT02A-063	Claussen, M. J. Wootten, H. A. Marvel, K. Wilking, B. A.	NRAO-SOC NRAO-CV American Astronomical Society University of Missouri	R. Maddalena K. O'Neil G. I.	Water Maser Monitoring of Low and Intermediate Mass Young Stellar Objects [M. J. Claussen]	K	S	(7 9 27 29)	(18.00)
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	P. R. Jewell	A Search for the First Nucleic Acid Base Biomarker: Interstellar Pyrimidine [J. M. Hollis]	UK	S	(5 6 13 14 15 16 17 18 19 20 22)	(160.75)

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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		Academy of Sciences						
GBT02C-043	Finkbeiner, D. Heiles, C. E. Schlegel, D. Frank, C.	Princeton University (Astrophysics) University of California Princeton University (Astrophysics) University of Maryland	F. D. Ghigo	Microwave Emission from Spinning Dust [D. Finkbeiner]	XUK	S	(21 23 24 25)	(40.00)
GBT02C-054	Braatz, J. A. Henkel, C. Wilson, A. S. Greenhill, L. J. Moran, J. M.	NRAO Max-Planck-Institut fur Radioa University of Maryland Harvard-Smithsonian CfA	J. A. Braatz	Measuring Nuclear Disks in NGC 1386 and IC 2560 (H2O) [J. A. Braatz]	K	S	(18 26 28 30)	(14.00)
GBT03A-014	Lockman, F. J.	NRAO-GB	F. J. Lockman	Halo HI Clouds: Distribution and Properties [F. J. Lockman]	L	PD	[6 7 9 10]	[13.75]
GBT03A-015	Lane, W.M. Kanekar, N. Ellison, S.E. Chengalur, J.	Naval Research Lab Kapteyn Astronomical Institute European Southern Observatory NCRA (TIFR)	A. Minter	A Search for 21cm Absorption in High Redshift Damped Lyman-Alpha Absorbers [W.M. Lane]	6	P	[12 13]	[8.00]
GBT03A-016	Stairs, I. Manchester, D.R. N. Lyne, A. G.	University of British Columbia Australia Telescope NRAL	G. I. Langston F. D. Ghigo	The Physics of a Massive Pulsar System [I. Stairs]	L	BP	[3 4]	[4.50]
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 [3 4 13 14 15 16]	1.00 [32.50]
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	R. Maddalena	Timing the Pulsars in the Globular Cluster M30 [S. Ransom]	LS	B	[3 4]	[7.50]
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	A. Minter	The GBT HI Narrow Self Absorption Survey of Star Forming Regions [D. Li]	L	S	11	4.50
GBT03C-009	Darling, J.	Carnegie Institution of Washington (Headquartes)	R. Maddalena A. Minter	A Direct Measurement of Fine Structure "Constant" Evolution from OH and HI Absorption Lines [J. Darling]	6	S	[7 8 9 10]	[24.00]
GBT03C-026	Fish, V.L. Reid, M. J.	Harvard Smithsonian Center for Astrophysics	A. Minter G. I. Langston	Hydroxyl Absorption Zeeman Splitting in Massive Star-Forming Regions [V.L. Fish]	U	S	(11 12 13)	(48.00)

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	Menten, K. M.	Max-Planck-Institut Fur Radioa						
GBT03C-030	Chengalur, J. Kanekar, N.	NCRA (TIFR) Kapteyn Astronomical Institute	A. Minter F. D. Ghigo	Constraining the variation of fundamental constants using 18cm OH lines [J. Chengalur]	8	S	19 20	11.75
GBT03C-031	Jacoby, B. Anderson, S. Kulkarni, S. R. Kaplan, D.L. Backer, D. C.	Caltech Astronomy Caltech Physics Caltech Caltech University of California, Berkeley	G. I. Langston A. Minter	Timing the pulsars in M62, NGC 6544, and NGC 6624 and Search for Ultra-fast pulsars [B. Jacoby]	L8	BS	[17 18]	[14.00]
GBT04A-003	Curran, S. Whiting, M. Webb, J. Murphy, M. Pihlstrom, Y Wiklind, T. Francis, P.	University of New South Wales University of New South Wales University of New South Wales University of New South Wales NRAO New Mexico Facilities Space Telescope Science Institute Australian National University	A. Minter R. Maddalena	Highly Redshifted HI and OH Absorption in Red Quasars [S. Curran]	6	SP	10 [6 7 8 9]	2.75 [11.00]
GBT04A-022	Moore, T. Porter, J. Jones, H.	Liverpool John Moores University Liverpool John Moores University Liverpool John Moores University	A. Minter	Variations in star-formation efficiency in the W3 GMC [T. Moore]	K	S	(27 28 29 30)	(36.00)
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	1 2	14.00
GBT04A-041	Margot, J.L. Peale, S. Slade, M.	Caltech (Geo. and Planetary) Dept. of Physics, U. of Calif., Santa Barbara JPL	F. D. Ghigo	The interiors of Mercury and Venus from their spin dynamics [J.L. Margot]	X	O	1 2	4.25
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	Timing of Three Binary Pulsars Discovered in a Survey of Mid-Latitude EGRET Error Boxes [M. Roberts]	L8	BG	[21 23]	[3.50]
Calibratio	Ghigo			System calib	LCSXKUQ	DSP	[17 18]	[16.00]
Maint	NRAO staff			Maintenance			2 [6 7 8 9 13 14 15 16 20 21 22 23 27 28 29 30]	7.75 [140.75]

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Not Sched	NRAO staff				B	DSP	(10 18 25 26 27 28 29 30)	(22.00)
Setup	NRAO staff			Observation setup	KQ6XU348AL SC	VSPBDOG	1 2 4 10 11 19 20 26 28 30 [3 4 6 7 8 9 10 11 12 13 15 17 18 21 23 24 25 27 29] (2 3 5 7 9 11 12 13 14 15 16 17 18 19 21 23 24 25 26 27 28 29 30)	14.00 [27.00] (36.00)
Tests	NRAO staff			General tests	LCXKUQS	DSP	10 (20 21 22 23)	8.25 (48.00)
Tests	Balser			PCO 2A17	X	DSP	1 2	6.50
Tests	Balser			PCO 2A21	LCS	DSP	(7 9)	(10.00)
Tests	Minter			PCO 2A44	U	DSP	(7 8 9 10)	(12.00)
Tests	O'Neil			PCO 4A29	L	SG	[3 4]	[14.50]
Tests	NRAO staff			PCO*6 600 MHz	6	DSP	[3]	[2.00]
Tests	Prestage			PTCS tests	LCSXKUQ	DSP	[14 15 16 17 27 28 29 30] (6 7 8 9 26)	[33.00] (52.00)
Tests	NRAO staff			RCO 800 MHz	8	DSP	[13 15]	[3.00]
Tests	Mason			RCO Ka band	B	DSP	(18 19 21 23 24 25)	(43.50)
Tests	Fisher			RFI Tests	L	DSP	[6 8]	[8.00]
Tests	O'Neil			Spigot tests	L	SG	[5 20 22]	[22.50]
Total Hrs	Astronomy	460.00		179.25				
	Setup	50.00		27.00				
	Calibration			16.00				
	Maintenance	7.75		140.75				
	Un-assigned	22.00						
	Tests	180.25						

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