



# **GBT Remote Observing Workshop**

**Virtual Workshop**

**February 8-10, 2023**

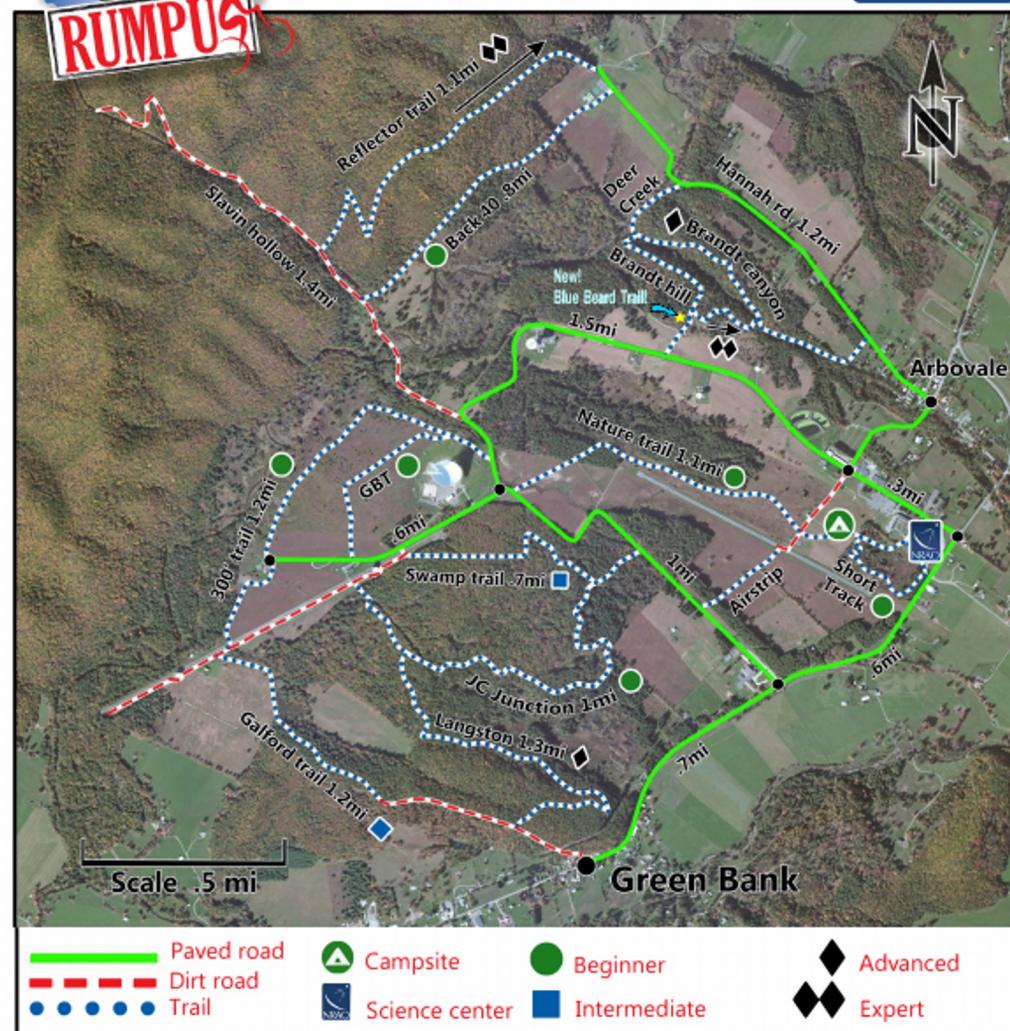




- Welcome to the Green Bank Observatory! *(kind of)*
- Located in the “National Radio Quiet Zone”, protected from radio interference.
- Come visit and explore the grounds
  - Trail maps available upon request
  - No electronic devices near the telescopes (past the gate)
  - Be aware of wildlife
- Gift shop/science center open online
  - 10% off coupon in Informational email



## 2016 Space Race Rumpus Site trail map



NRQZ reminder: Please turn off your electronic devices while on site. This includes cell phones (which don't work here anyway!), wireless odometers, heart rate monitors, 2-way radios, or wireless network cards on your laptops. We also ask that you refrain from digital photography or video recording while on site. Simple film cameras are welcome and sold in the science center.

The National Radio Astronomy Observatory is a facility of the National Science Foundation operated under cooperative agreement by Associated Universities, Inc.

# Goals for the Workshop

- Become familiar with GBT observing modes and user interfaces
- Practice standard data reduction techniques
- Learn how to observe remotely
  - ...*But come visit in person some day!*

# Schedule

- 10 am – 4:30 pm EDT on Wed & Thurs
  - Lectures and Observation Prep
  - We're on the same Zoom for everything
- 4:00 pm – 8:30 pm on Wed & Thurs
  - GBT Observations (1.5 hour blocks)

## Friday Activities:

10 – 11:30 am : Data Reduction Session

11:30 am – 12 pm : End of Workshop / Survey

	Wednesday Feb 8		Thursday Feb 9	Friday Feb 10
10:00	Welcome <i>(Jim Jackson &amp; Will Armentrout)</i>		Archival Data Reduction (10-11:30 am)	Archival Data Reduction (10-11:30 am)
10:30	The Green Bank Telescope <i>(Karen O'Neil)</i>			
11:00				
11:30	Account Info Distributed		GBT Public Relations <i>(Jill Malusky)</i>	Frequently Asked Questions <i>(Will Armentrout)</i>
	DSS Accounts + FastX Sessions			
12:00	Lunch Break (12-1 pm)		Lunch Break (12-1 pm)	<a href="#">End of Workshop Survey</a>
12:30				
13:00	Introduction to Astrid and Cleo (Brenne Gregory & Evan Smith)		Review of High Freq. GBT Corrections <i>(Emily Moravec)</i>	Recap (GBT Staff Only)
13:30				
14:00	Green Bank Computing Environment - Linux, IDL, etc. <i>(Larry Morgan)</i>		GBT Dynamic Scheduling System <i>(Toney Minter)</i>	
14:30	Break (2:30-3 pm)		Break (2:30-3 pm)	
15:00	Spectral Line & Continuum Reduction (Pedro)	Pulsar Data Reduction (Ryan)	How to Prepare & Submit a GBT Proposal <i>(Jesse Bublitz)</i>	
15:30			Q&A with Staff	

# Observing Accounts

- If we have a new account for you, I'll send you a message over Zoom with your account information.
- Two Options to Log In
  - (1) Login using “ssh [username]@ssh.gb.nrao.edu”
  - (2) Use “FastX” -- Link included in welcome email.
- Change password with “passwd” command (**on your first login**)



# GREEN BANK OBSERVATORY

**[greenbankobservatory.org](http://greenbankobservatory.org)**

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