



# The Green Bank Observatory

K. O'Neil, GBO Director



# The Green Bank Observatory



- World class facility for science and engineering research and education
- Primary instrument: Green Bank Telescope (GBT)
  - 100-m diameter aperture
  - Frequency range: 0.1 – 116 GHz
  - Fully steerable (85% sky coverage)
  - Flexible, easy to use, with rapid response time
  - Dynamic scheduling system matches observing goals and weather

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- **Located with two radio quiet zones**
  - NRQZ: 13,000 sq miles, FCC/NTIA protection
  - WVRAZ: 10 mile radius protection around site
- **Site: 2,600 acres, 48 buildings, 8 telescopes**
  - 32 dwellings, dormitory, small hotel
  - Café/cafeteria
  - 3 classrooms, 2 auditoriums
- **Fully staffed machine shop on site**
- **Electronics lab for maintenance & development**

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# Basic Info/Site Safety

- 1) Please turn off all wireless devices while on site**
- 2) No digital equipment or personal vehicles past parking lot**

- a) Non-digital (disposable) cameras are available for sale in the gift shop
- b) You are welcome to walk the site as you please

- 3) We are a remote, natural area, and home to many types of wildlife**

- a) You will commonly see deer, bear, snakes, etc.
- b) Wildlife are most active at dusk and dawn
- c) Mother bear(s) and cubs live downsite
- d) Do not approach wildlife. (Do not panic). Just walk away





**You are in the Radio Quiet Zone.**

**Please turn off all wireless devices!**

**THANKS!**



Welcome

