

Green Bank Observatory Communications

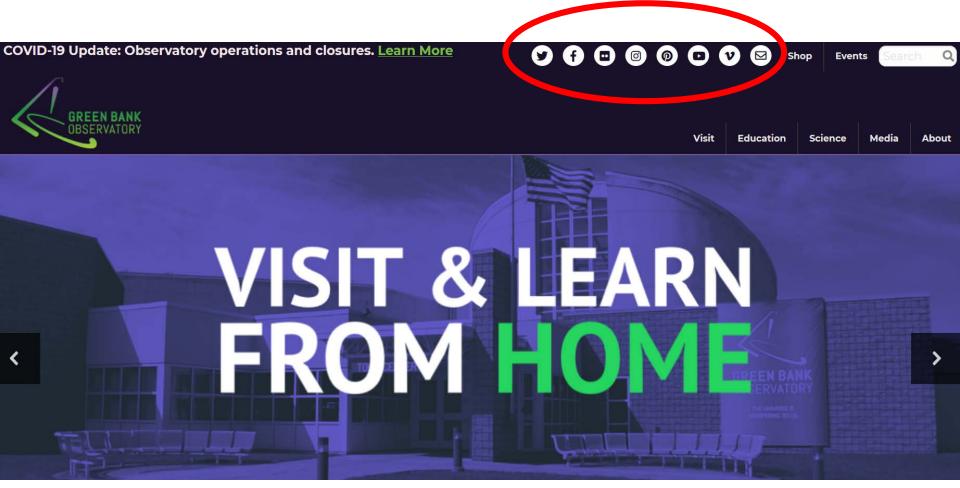
Jill Malusky, Public Relations Specialist







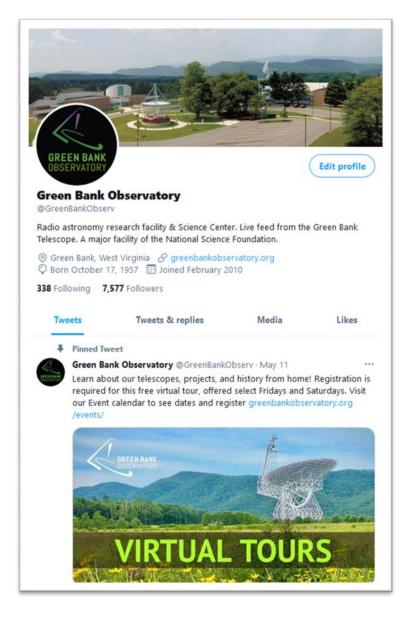
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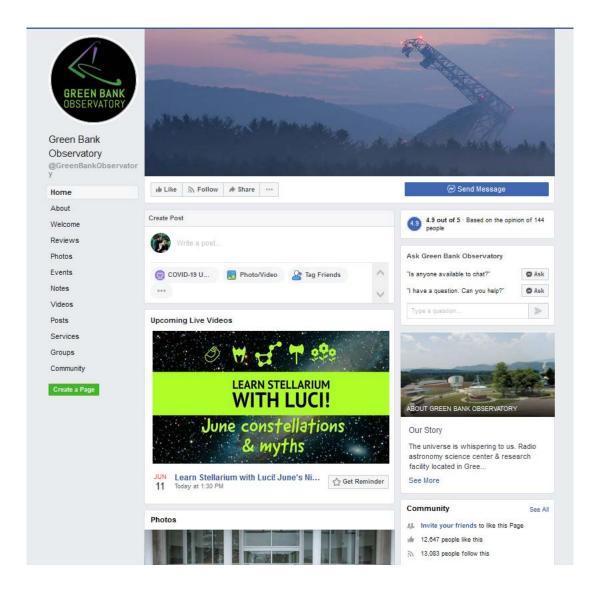






















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Green Bank Observatory

Science, Technology & Engineering

The universe is whispering to us. Radio astronomy research facility & science center. Home of the #GBT. Green Bank, West Virginia, USA linkin.bio/greenbankobservatory

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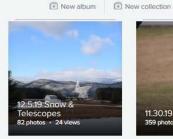
Timeline Images

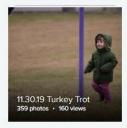












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Green Bank Observatory

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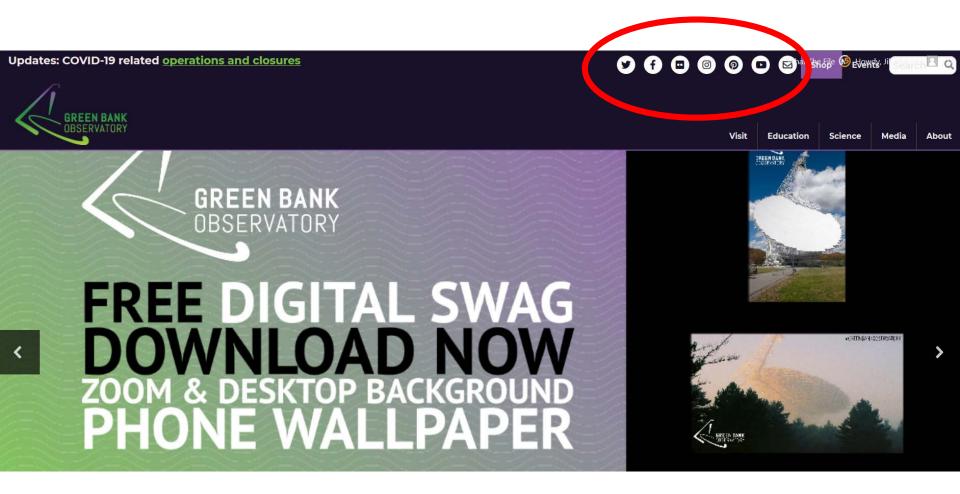
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Education



Science





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Mission Statement

Green Bank Observatory enables leading edge research at radio wavelengths by offering telescope, facility and advanced instrumentation access to the astronomy community as well as to other basic and applied research communities. With radio astronomy as its foundation, the Green Bank Observatory is a world leader in advancing research, innovation, and education.

Our Facility

The first trailblazers of American radio astronomy called Green Bank Observatory home over 60 years ago. Today, their legacy is alive and well. Nestled in the mountain ranges and farmland of West Virginia, within the National Quiet Zone, radio astronomers are listening to the remote whispers of the universe, in order to discover answers to our most astronomical questions.

Download a PDF of our 2021 Green Bank Observatory booklet.



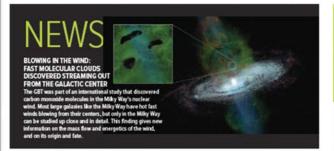




Green Bank Observatory booklet

Annual publication

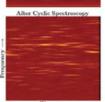
Distributed to scientific community, education, business, etc.



Before Cyclic Spectroscopy

GBT USES CYCLIC SPECTROSCOPY TO CREATE WORLD'S FIRST REAL-TIME ULTRA-WIDEBAND PULSAR OBSERVATIONS

The GBT is a premier tool for studying pulsars, thanks to its sensitivity. A new \$1.3 million award from the National Science Foundation will develop a powerful new system for capturing these observations in real-time, combining pulsar observations and cyclic spectroscopy in the utra-wideband. The Green Bank Observatory is the first in the world to combine all of these aspects at once, in one robust observation processing system, in real-time





GBT DATA A PART OF BREAKTHROUGH LISTEN'S MOST COMPREHENSIVE SEARCH TO DATE Independent team combines existing radio telescope data with new catalogs to search over 200 times more stars than before.

SEE MORE NEWS greenbankobservatory.org/news









the collision-induced shock - a rise from 40-million*C in the overall body of the duster, to a whopping 400-million*C.

NEW TELESCOPE WILL IMPROVE LOCALIZAT FAST RADIO BURSTS West Virginia University recently announced that a \$1.7 mills

Science Foundation grant will be used to construct a new te the Observatory. This new instrument will be used in associal Canadian Hydrogen Intensity Mapping Experiment, or CHME which is located half a continent away in British Columbia. CHI studying Fast Radio Bursts, or FRBs. The new instrument at Gre work with the existing CHIME telescope to triangulate the locat







Observatory will begin construction of a new data archive in 2021. This new project will allow archival data collected from GBT observations to be more easily accessed by the greater astronomy community. Multi-Messenger Astrophysics will be able to conduct historical and time-constrained searches for variable and transient phenomenon, while large pulsar surveys can be re-processed to yield newly discovered millisecond pulsars that are critical for the study of gravitational waves.



PUBLICATIONS See our extensive list of recent and past papers greenbankobservatory.org/science/publications

































Media

About

Visit

In response to the health concerns posed by COVID-19, the Green Bank Observatory Science Center is closed and several public programs and events are postponed.

Programs and events affected have been remove from our Events calendar and notifications have been added to specific program and event web pages.

Take a self guided walking tour of the sit. Download a map here.









SELF-GUIDED WALKING TOUR & SITE MAP

The Self-guided walking tour may be taken anytime before dark. Visitors are welcome to walk their dogs or ride bicycles around the grounds. We request that once you pass the gate, shown in red with a star (③), be certain that all electronics not vital to your health are completely turned off.

Telescopes - both active and inactive - are marked in purple letters. Points of interest are marked in green numbers. The best location to take pictures of the Green Bank Telescope is our Observation Deck, indicated by a triangle (▲), near the parking lot behind the Jansky Lab (⑤).

A scale model of the solar system begins with the Sun in front of the Jansky Lab (§) and ends 1.5 miles away at Pluto, next to the Green Bank Telescope (I). This Scale model is 1 foot to 3 billion feet. The kiosk at the Sun flag provides more information.

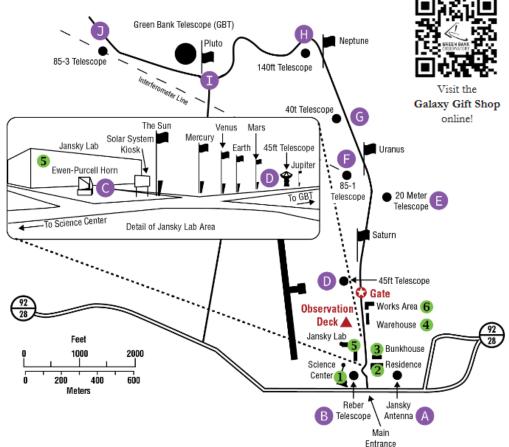
The Green Bank Science Center (♠) is open year-round and serves over 45,000 visitors a year. The 25,000 square foot facility contains the Catching the Wave Exhibit Hall, a 150-seat auditorium, classrooms, a gift shop, and a full menu at the Starlight Café.



Green Bank has two short-term housing buildings. The Residence Hall (②) is used for visiting scientists, while the Bunk House (③) is often used for students participating in educational programs. Part of the Warehouse (④) was our original tour center, but now hosts Observatory and community events.



Sensitive receivers and state-ofthe-art data collection systems are invented and designed in the Jansky Lab (⑤). The parts are fabricated and assembled in the Works Area (⑥) before being transported to the telescopes for use











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#GBT



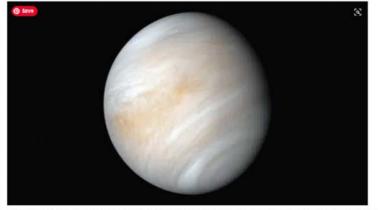


Press Releases

- Published papers using GBT data
- Project announcements
- AAS presentations

How long is a day on Venus? Scientists crack mysteries of our closest neighbor

Posted on 2021-04-30 at 8:22 am. Written by Jill Malusky



Fundamentals such as how many hours are in a Venusian day provide critical data for understanding the divergent histories of Venus and Earth, UCLA researchers say, Credit: NASA/JPL-Caltech

Venus is an enigma. It's the planet next door and yet reveals little about itself. An opaque blanket of clouds smothers a harsh landscape pelted by acid rain and baked at temperatures that can liquify lead.

Now, new observations from the safety of Earth are lifting the veil on some of Venus' most basic properties. By repeatedly bouncing radar off the planet's surface over the last 15 years, a UCLA-led team has pinned down the precise length of a day on Venus, the tilt of its axis and the size of its core. The findings are published today in the journal Nature Astronomy.

SHILLED

Recent Posts

- How long is a day on Venus? Scientists crack mysteries of our closest neighbor
- New astronomical survey utilizes the Green Bank Telescope to give clearest view of ionized gas in the Milky Way
- West Virginia Students Contact International Space Station LIVE
- Observatory staff lead new sustainability intiatives
- Spring & Summer Outdoor Programs are Now Open
- Can Green Bank Telescope Defend Against Asteroid Apophis?
- NASA's Mars Perseverance rover landing observed by the Green Bank Telescope
- NASA Mars Rover Touches Down, Green Bank Telescope Receives Signal
- Mars Rover Phones Home, Green Bank Telescope Answers
- · Staff volunteer in county wide road clean-up

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- New & Media Requests
- Regional, national, international

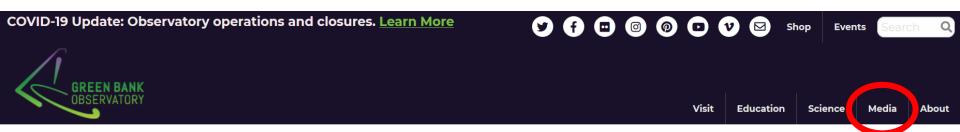








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Media

Home » Media

Information for requests by the press for interviews, photography, film, and other resources

Guidelines for the use of Green Bank Observatory media and communications follow:

Public Photography Press Requests Media Use Social Media Policy

The scientific work performed at Green Bank Observatory limits the use of electronic devices onsite, including digital cameras and smartphones. Film and photography created by the general public is encouraged and welcome in public areas including the Science Center, outdoor area surrounding the Science Center, and the telescope observation deck. Please be aware of warnings and signs directing you to turn off (or leave electronic devices in your vehicle) in all other areas on site. If you are participating in an educational program during your visit, Green Bank Observatory staff will direct you where photography is safe and permitted.











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