

# Goldstone Apple Valley Radio Telescope (GAVRT)

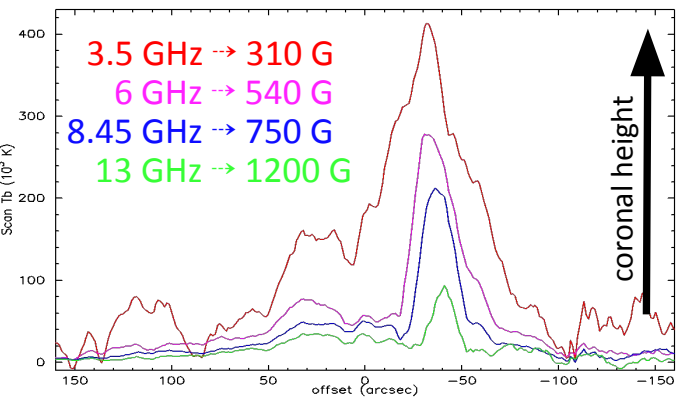


**34-m GAVRT antenna, DSS-28, at the DSN complex in Goldstone, California.**

## Education and Outreach

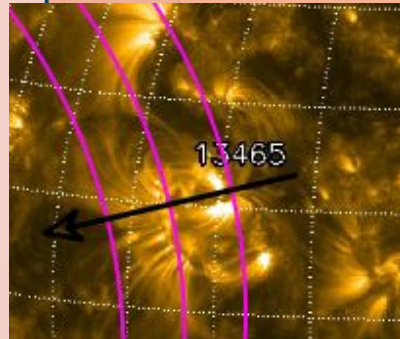
GAVRT Solar Patrol uses a 34-meter decommissioned Deep Space Network antenna to produce daily radio maps of the Sun. These maps are used by K-12 students, educators, and citizen scientists to measure and track temporal changes in coronal emission, a key part of multiwavelength monitoring of solar active regions.

## Coronal Magnetic Field Extrapolation



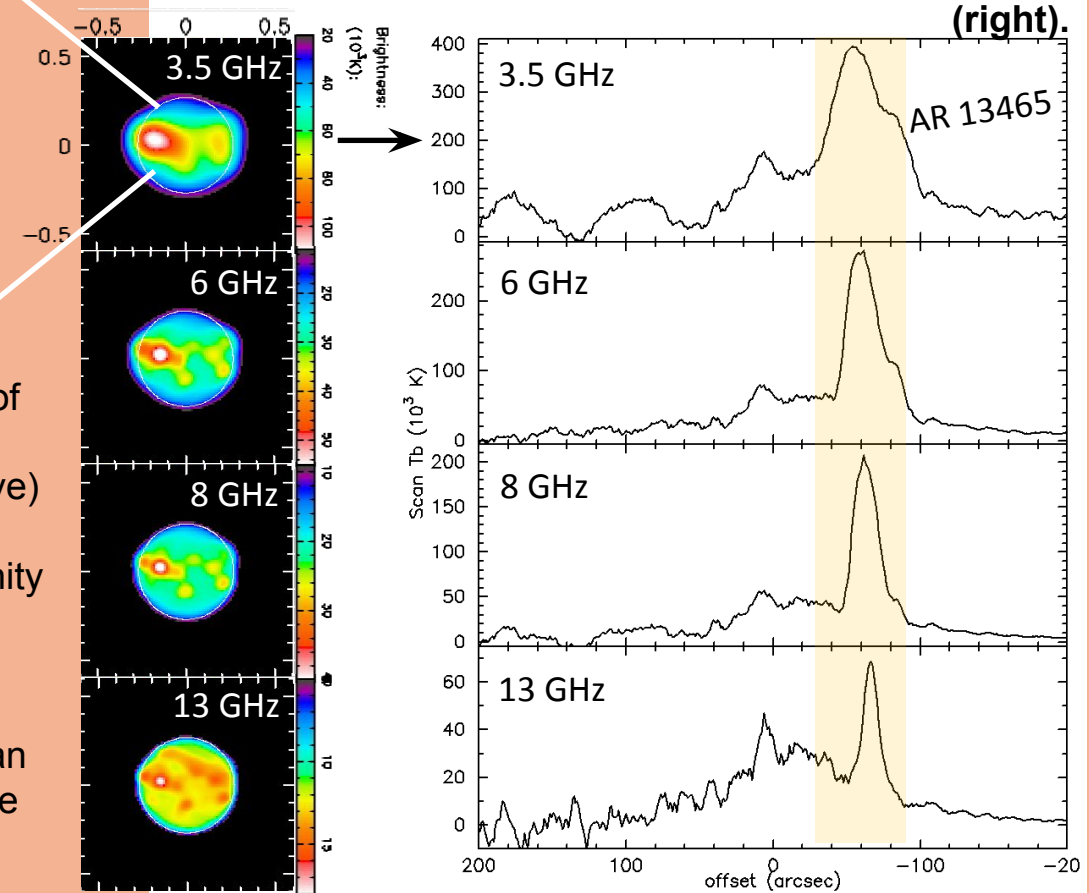
gyro-resonance radio emission measured by GAVRT is an ideal tool for tracing coronal magnetic fields above active regions.

## Science During the Eclipse



The passage of the Moon's limb in front of active regions on the Sun (like 13465 above) during the eclipse provides an opportunity to observe coronal radio emission with arcsec angular resolution – more than 2 orders of magnitude better than regular observations!

GAVRT solar radio maps (left) and derived brightness scans of active region 13465 (right).



Contact us at [mc@lcer.org](mailto:mc@lcer.org) or go to [gavrt.org](http://gavrt.org) to sign up for the GAVRT April eclipse

