

## Technical Page

Proposal Type: Regular  
 General Category: Astronomy  
 Sub-Category: Spectroscopy  
 Observation Category: Solar System  
 Total Time Requested: 20 Hours

**Proposal Title:** OH Observations of Comet 2P/Encke

*ABSTRACT:*

We propose to observe comet 2P/Encke during a very favorable apparition in November 2003. This predicted apparition of a well-known periodic comet affords an opportunity to plan and carry out simultaneous multi-wavelength observations. Arecibo observations of OH at high spatial and velocity resolution will be compared with shorter-wavelength images of water, OH, and other molecules, in order to assemble a three-dimensional picture of the outgassing from this comet.

Name	Institution	E-mail	Phone	Student
Amy J. Lovell	Agnes Scott College	alovell@agnesscott.edu	404-471-6265	no

**Service Observing Request**

**Remote Observing Request**

- |                                                                                                                                                                                                   |                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> None<br><input type="checkbox"/> All of the observing run.<br><input type="checkbox"/> Part of the observing run.<br><input type="checkbox"/> Queue Observing | <input type="checkbox"/> No<br><input checked="" type="checkbox"/> Maybe<br><input type="checkbox"/> Yes |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|

**Instrument Setup**

L-wide

**Atmospheric Observation Instruments:**

**Special Equipment or setup:** We need to track comet at non-sidereal rates.

**RFI Considerations**

**Frequency Ranges Planned**

1665-1667