

This request is being made to allow for higher power output from multiple transmit locations for a high frequency (HF) radar sensor network to monitor the ionosphere and atmosphere during the 2024 Solar eclipse. MIT Haystack Observatory, a research laboratory with the Massachusetts Institute of Technology is performing this observation as part of its National Science Foundation contract NSF-AGS-1952737.

This new HF radar network will require higher transmitter power to experiment with new measurement methods of the ionosphere and atmosphere. The eclipse will also be a very scientifically rich data set for studying numerous processes in the atmosphere and ionosphere.