

New Space Weather Measurements from MACAWS: Monitors for Alaskan and Canadian Auroral Weather in Space (MACAWS)

Anthea J. Coster
MIT Haystack Observatory, USA

The MRI Collaborative: Development of Monitors for Alaskan and Canadian Auroral Weather in Space (MACAWS) is a sensor web network that provides both real-time and historical GNSS TEC and scintillation data products. These data are needed for geospace science and space weather monitoring in the auroral regions of northern Alaska and northwestern Canada that are currently not sampled or under-sampled. These regions are significant as they are the locations of origin for the majority of space weather events that affect the United States. At the end of the project, it is planned that 35 PolaRx5S Septentrio GNSS receivers in Canada and northern Alaska will be installed. Currently, 15 receivers have been shipped and a subset including have been installed. [(t)-6(o)6