



# GNSS Research and Application for Polar Environment

## GRAPE



Contact: Giordiana De Franceschi (e-mail: [giordiana.defranceschi@ingv.it](mailto:giordiana.defranceschi@ingv.it)).

**GRAPE is a joint GeoSciences and Physical Sciences Expert Group since 2012**

### Main Objectives

- Create and maintain distributed networks of specialized GPS/GNSS Ionospheric Scintillation and TEC Monitors at high latitudes.
- Identify and quantify mechanisms that cause scintillation and control interhemispheric differences, asymmetries and commonalities in scintillation occurrence and intensity as a result of the geospace environment conditions.
- Develop ionospheric scintillation climatology, tracking and mitigation models to improve prediction capabilities of space weather.
- Retrieve tropospheric PWV for input to weather forecast models and to develop regional PWV climatology for atmospheric sensing in remote areas.



**JOIN THE GRAPE TEAM!**  
Visit <http://grape.scar.org/>



**GRAPE session @ XXXIV SCAR Biennial Meetings and SCAR Open Science Conference 2016**

**Session S16:** Global Navigation Satellite System Research and Application for the Polar Environment

**Date:** Sunday, 21 August

**Time:** 14:00-16:00

**Location:** University of Malaya, IPS Building, Room: Cube 2