

# POLAR 2018 Open Science Conference

June 15 - 26, 2018  
Davos, Switzerland

## Scientific Programme

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### Wednesday, 20 June 2018

Session Block  
16:00 - 17:30

A Studio

#### AC-4b The Polar Atmosphere and Geospace

Chair: Bergeot, Nicolas, Belgium

This session is addressed to the scientific communities who investigate the Antarctic and Arctic atmosphere and geospace by means of ground-based/space-borne observations including radio probes, theories and modeling. Participation is foreseen of scientists studying the neutral and/or the ionized part of the atmosphere, from the lower to further upper regions such as the magnetosphere. In the Arctic region, it becomes known that human lives and social structures are sensitively affected by the change of geospace disturbed by solar activities. Recent studies have indicated that the geospace in the Arctic and the Antarctic regions are not only linked by magnetic field lines but also by atmospheric dynamical processes including circulation and waves, which further affect the global atmosphere. Contributions from researchers and managers of Arctic-Antarctic operations that need to remove, or mitigate, the atmospheric contribution from their measurements (including search and rescue operators) are also encouraged. Possible topics include, but are not limited to, the study of Space, the Sun-Earth relations, and the impact of Space Weather on critical operations. Contributions from international collaborative researches/facilities are highly encouraged. The research based on the observations of the Earth from the space that exploits the radio spectrums (such as SAR imaging, satellite altimetry, weather satellites, etc.) are also welcome.

755	<b>ULF Geomagnetic Activity and Atmosphere Dynamics in the Southern Polar Cap</b> Presenter: Francia, Patrizia, Italy	16:00 - 16:15
1003	<b>Ground Based Water Vapor Retrieval over Antarctica</b> Presenter: Negusini, Monia, Italy	16:15 - 16:30
1693	<b>Latitudinal Ionospheric Scintillation Study in the American Sector</b> Presenter: Correia, Emilia, Brazil	16:30 - 16:45
2184	<b>Small and Medium Scale Gravity Waves Climatology over Ferraz Station</b> Presenter: Bageston, Jose Valentin, Brazil	16:45 - 17:00
1786	<b>On the Impact of High-latitude Ionosphere on Synthetic Aperture RADAR</b> Presenter: Musicò, Elvira, Italy	17:00 - 17:15
1944	<b>Comparison between FPI and Meteor Radar Observations for MLT at KSS, Antarctica</b> Presenter: Lee, Changsup, Korea, Republic of	17:15 - 17:30