



Contribution ID: 19

Type: **not specified**

The Antarctic Geospace and ATmosphere reseArch (AGATA SCAR Scientific Research Programme) and their links with the Astronomy community

Wednesday, 17 September 2025 14:40 (20 minutes)

The AGATA programme is a newly endorsed SCAR initiative aimed at advancing the understanding of Sun–Earth interactions and polar atmosphere dynamics through coordinated international research. After more than a decade without a dedicated SCAR programme in this area, AGATA addresses key questions in space and atmospheric physics, including atmospheric coupling, ionospheric response to geomagnetic activity, and the use of GNSS and radar observations.

AGATA brings together experts from over 40 institutions, leveraging infrastructure in both Antarctica and the Arctic. It promotes a bipolar approach to studying interhemispheric asymmetries and fosters collaboration across disciplines.

Crucially, AGATA is building connections with the astronomy and astrophysics community, seeking synergies in radio propagation studies, satellite data usage, and site-based observations in polar environments. This abstract highlights AGATA's scientific goals and its commitment to engaging new researchers and fostering cross-disciplinary cooperation.

Primary author: GULISANO, Adriana Maria (IAA/DNA, IAFE(CONICET-UBA), UBA FCEyN DF)

Co-authors: Dr ALFONSI, Lucilla (INGV); Dr WOJCIECH, Miloch (University of Oslo); Dr BERGEOT, Nicolas (ROB)

Presenter: GULISANO, Adriana Maria (IAA/DNA, IAFE(CONICET-UBA), UBA FCEyN DF)

Session Classification: Miscellaneous Topics