



Space Weather Activities 2021

ITALY

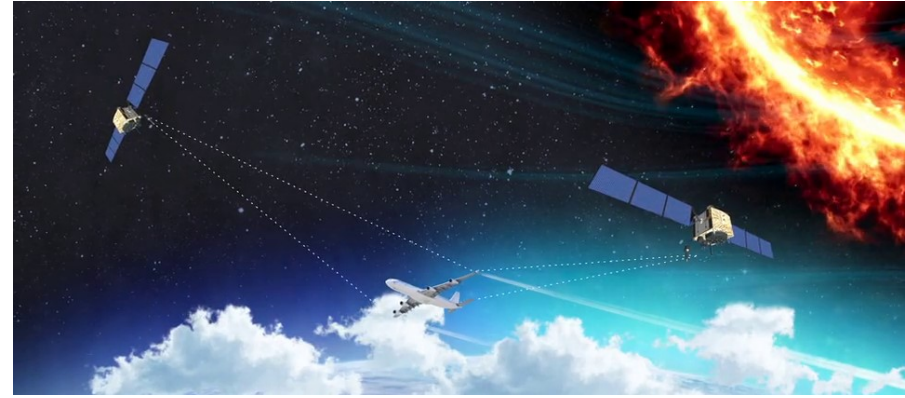
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Vincenzo Romano (INGV)



ISWI Steering Committee Annual Meeting - 2022 February 11

COLLABORATION AGREEMENT SIGNED AMONG INAF, INGV AND AM

Development of an autonomous monitoring and forecasting capacity for the Space Weather, through the sharing of experiences and the launch of joint initiatives.



CAESAR (Comprehensive spAce wEather Studies for the ASPIS prototype Realization)

Project funded by the Italian Space Agency (ASI) to aimed at carrying out "Study activities for the scientific community of Space Weather for population of a scientific data center (called ASPIS, ASI Space Weather infrastructure).



Italy

New Instruments/Projects

- Scintillation receiver has been installed in Thule (Greenland)
- Two Scintillation receivers have been installed in Argentina (Tucumán and Ushuaia)
- An Ionosonde will be installed in Lampedusa (Sicily) within 2022.
- An Ionospheric Observatory will be installed in Kenya within the “NORISK” Project, a postdoc position is open.
- LOFAR for Space Weather project is discussing to include the telescopes of Medicina (Bo) in the network.
- An All sky camera will be installed in Gibilmanna (Sicily) with 2022.
- PITHIA-NRF project is ongoing.



SW Capacity Building and Outreach



2021 Activities

- **International School of Space Science (L'Aquila):** Dynamical Systems and Machine Learning Approaches to Sun-Earth Relations (1-5 February 2021).
- **Eastern Africa Space Weather and GNSS capacity building workshop** (21-25 June 2021) INGV, ICTP, UNOOSA, BC and Pwani University.

Next Activities (2022)

- **ISSS: The different spatio-temporal scales of the solar magnetism and Radiation Belt Dynamics and Remote Sensing of the Earth's Plasmasphere.**
- **West African Workshop on GNSS and Space Weather**, UNOOSA, BC, ICTP, CRASTE-LF. Rabat, Morocco.
- **African capacity building workshop on Space Weather effects on GNSS**, ICTP, INGV, BC, UNOOSA, PU.
- **International Workshop on Machine Learning for Space Weather: Fundamentals, Tools and Future Prospects**, UNT, ICTP, UNOOSA, BC.