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ALTEC - Aerospace Logistics Technology Engineering Company is a public - private company owned by Thales Alenia Space in Italy and the Italian Space Agency - ASI.



ALTEC is the Italian center of excellence for engineering and logistics services to support the operations and utilization of the International Space Station and the development and implementation of planetary exploration missions.

## Current main activities: a strong heritage, looking to the future



#### **HUMAN SPACEFLIGHT & SPACEGATE**





ISS/PMM Sustainina Engineering (ASI)



ISS/Columbus Training, Logistics and Ops Support (ESA)



Col-CC **ISS** Experiment Flight Control Development and Operations Team (ESA) Support

(ASI)



ExoMars **Rover Operations** Control Center (ESA) and Lunar Simulation and Operations Center (ASI)



Space Rider **HERMES** Pathfinder P/L GCC and Constellation Landing Control MOC Center (ASI) (ESA)



GAIA DPCT Data Processina Center Torino (ASI)

Space

Weather

Tools

(ESA)

#### **ADVANCED DATA PROCESSING**





EUCLID I-SDC Italian Science Data Center (ASI)

**METIS** Operations Facility (ASI)



**ERFNET European Radiation Facility** Data Hub (ESA)



Moon Studies & new Initiatives (ASI)

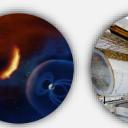


Space Rider Sub-aggregator (R&D)



SINAV Innovative Solution Modernization for High speed Navigation (ASI)

IN-Orbit Service Ground Segment (ASI)





AI/ML for SYS & S/S Models From AIT/AIV to OPS (ESA)

**GNSS** Machine Learning Demonstrator (ESA)

### ISS, ARTEMIS, P/L Development & Support

#### **Robotic Exploration, Moon & Advanced Mission Operations**

ROCC

(ESA)

### Future Science Missions, Big Data & **AI/ML** Solution for Operations

# MultiMission Science Data Center

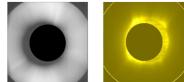




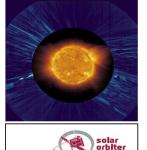
Monitoring & Control

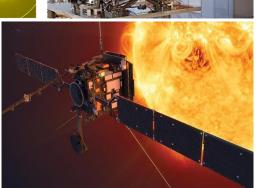
**Data Persistence** 

**Quick Data Access** 



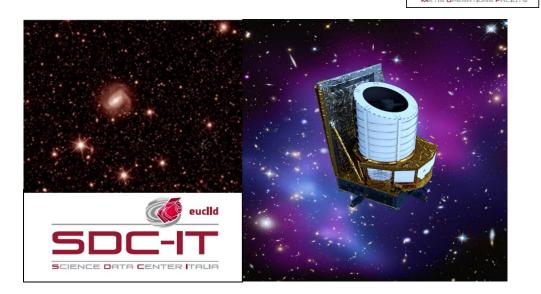








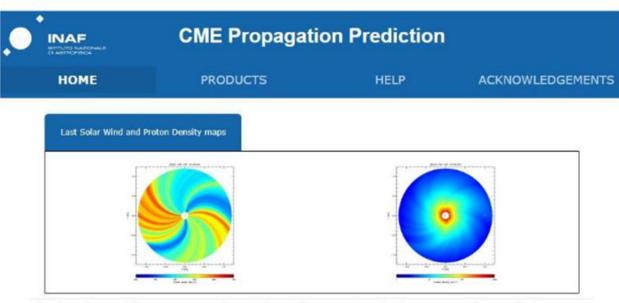
Security & Reliability



# The Heliospheric Space Weather Center



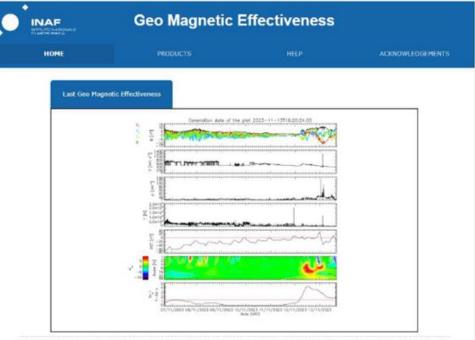
## Space Weather Service Network (SWESNET) Heliospheric Weather Expert Service Centre (H-ESC)



This web page forms part of the European Space Agency's network of space weather services and service development activities, and is supported under ESA contract number 4000134036/21/D/MRP. For further product related information or enguines contact helpdesk. E-mail: helpdesk.swe@esa.int All publications and presentations using data obtained from this site should acknowledge INAF, ALTEC and The ESA Space Safety Programme. For further information about space weather in the ESA Space Safety Programme see www.esa.int/spaceweather Access the EEA SWE Portal here: https://swe.ssa.esa.int.



### https://swe.ssa.esa.int/inaf-mageff-federated



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### POSTER SESSION 2 - TOPICS 5 Contribution ID: 311 *MOF: the Ground Support to Metis Data and Operations* Author: Vincenzo Chiaramida

POSTER SESSION 2 - TOPICS 6 Contribution ID: 309

Heliospheric Space Weather Centre tools for space weather monitoring Author: Federico Pinna