COMMITTEE ON SPACE RESEARCH - COSPAR





Science Council (ISC), the Committee on Space Research (COSPAR) aims to advance scientific research in space on a global scale

Pascale EHRENFREUND COSPAR President





COSPAR SCIENTIFIC COMMISSIONS



		SPACE
Α	Space Studies of the Earth's Surface, Meteorology and Climate	
В	Space Studies of the Earth-Moon System, Planets, and Small Bodies of the Solar System	
С	Space Studies of the Upper Atmospheres of the Earth and Planets Including Reference Atmosphere	
D	Space Plasmas in the Solar System, including Planetary Magnetospheres	
E	Research in Astrophysics from Space	
F	Life Sciences as Related to Space	
G	Material and Fluid Sciences in Space Conditions	
Н	Fundamental Physics in Space	1

















COSPAR MEMBERS AND ASSOCIATES





13 International Scientific Unions

48 National Scientific Institutions

14,000 Associates

COSPAR AND THE UNITED NATIONS - 1962



COSPAR was the <u>first organization</u> to be granted an observer status in the United Nations Committee on the Peaceful Uses of Outer Space (UN COPUOS)

Today COSPAR cooperates with UN COPUOS on:

Planetary Protection, Satellite Dynamics, Space Debris, Space Weather, Mission Planning, Planetary Defense, Space Resources, Space Sustainability, UN-COSPAR Symposia







COSPAR CENTER OF EXCELLENCECapacity Building in CubeSat Technologies



Partner: Laboratory for Atmospheric and Space Physics (LASP) University of Colorado, Boulder, USA



LASP has been at the forefront of pioneering CubeSat missions and has a leadership role in the International Satellite Program in Research and Education (INSPIRE)

The establishment of COSPAR's inaugural Center of Excellence in May 2024 will help make space exploration more accessible and empower the next generation of space scientists and engineers



COSPAR CENTER OF EXCELLENCE **International Space Innovation Centre Cyprus**



COSPAR is proud to announce the creation of the COSPAR International Space Innovation Centre, in partnership with the Cyprus Space Exploration Organization.

It was inaugurated during the C-SpaRC (Cyprus Space Research and Innovation Centre) Summit in Nicosia, Cyprus, 21-26 June 2024

C-SpaRC is co-funded by the European Union and Cyprus' Research and **Innovation Foundation**

Partners:

NASA's MSFC **Translational Research Institute for Space Health (TRISH)** Sodankylä Geophysical Observatory (SGO) **Lockheed Martin**













COSPAR's PANEL on PLANETARY PROTECTION

Chair: Athena Coustenis



For more than 60 years COSPAR's Panel on Planetary Protection has set forth policies with detailed standards aimed at safeguarding celestial bodies from the adverse effects of biological contamination



https://cosparhq.cnes.fr/scientific-structure/panels/panel-on-planetary-protection-ppp/

Space Agencies, Experts, Industry, UN COPOUS

Newly restructured and edited COSPAR Policy on Planetary Protection 2024



COSPAR'S PANEL on SPACE WEATHER

Chair: Mario Bisi



 COSPAR Panel on Space Weather (PSW) hosts a global hub, the International Space Weather Action Teams (ISWAT), for community coordinated collaborations addressing challenges across the field of space weather





- Community 700+ people, 50+ countries, 400+ affiliations
- 80+ Action Teams registered by the community (17 Clusters)
- WMO-ISES-COSPAR Coimbra Declaration issued in 2023

ASR: COSPAR Space Weather Roadmap 2022–2024: "Scientific research and applications", June 2025



Development

ISES Operations & Services

WMO Facilitating Integration

COSPAR's Panel on EDUCATION



 COSPAR's Panel on Education has organized professional development opportunities for teachers since 2012, benefiting over 300 educators



- EXpeditionary Program for Learning OppoRtunities in analog space Exploration(EXPLORE) https://explore-project.eu
- Students As Planetary Defenders (StAnD) https://projectstand.eu







Immersive Experiences













Space Cuisine Tasting:

- Martian diets (e.g., hydroponical ly grown vegetables, algae-base d protein).
- **Nutritional Challenges**
- Prepare your meal using space-f riendly ingredients.

EXPL®RE



- Explore a "Martian terrain".
- Experience the thrill of traversing craters, canyons, and alien rock formations.
- Collect geological samples and contribute to citizen science initiatives.

Feel the "Martian dust" beneath your boots!













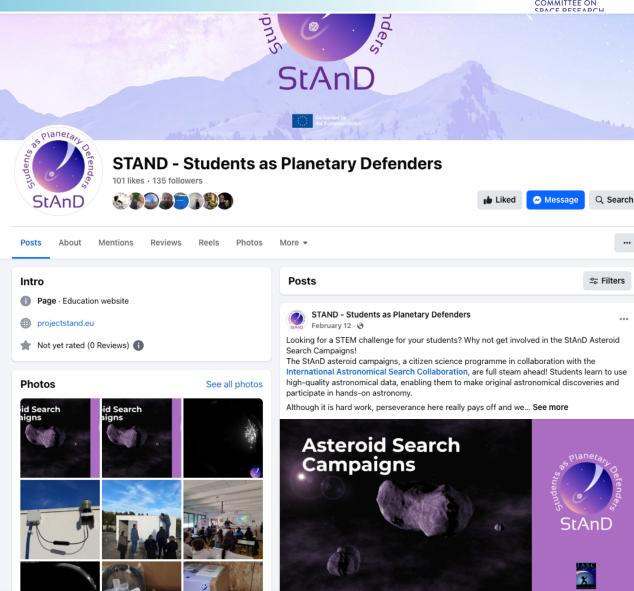


Pan-STARRS

70 countries Hundreds of schools and thousands of students









2001-2023: Two Decades of COSPAR Capacity Building Workshops

has been encouraging scientists in developing countries to use scientific data from space missions.

CAPACITY BUILDING WORKSHOPS 2025

https://cosparhq.cnes.fr/events/cospar-capacity-building-workshops/



Panel on Capacity Building (Chair: Carlos Gabriel)

International Reference Ionosphere & NeQuick Improving the Representation of the Real-time Ionosphere 29 September – 10 October 2025, Trieste, Italy



16th Pan Ocean Remote Sensing Workshop, PORSEC 2025, 22-26 April in Keelung, Taiwan, China Academy of Sciences located in Taipei

Hands-on Workshop with JWST and UVIT: "Galaxies on a Resolved Scale", Bangalore, India, in October 2025

COSPAR Panel on establishing a Constellation of Small Satellites (PCSS)





Chair: Dan Baker, Vice-Chair: Amal Chandran

 PCSS addresses the objective of studying the near-Earth space environment using instruments onboard small orbiting satellites



Initial focus: Space weather, radiation belt research and Earth observation

 Sub-Group on Radiation Belt (SGRB) will focus on the implementation of a constellation of small/cube satellites taking a high time resolution survey of the Earth's radiation radiation belt

COSPAR SMALL SATELLITE PROGRAM



COSPAR Smallsat Roadmap (2019)

- COSPAR as "honest broker", coordinating implementation with all partners, and distributing the data
- Currently active in 4 domains: ionosphere, radiation belt, Earth atmosphere, lunar science

Three satellite projects under consideration/development:

- COSPAR-1 (Launch in 2025)
- COSPAR-2
- COSPAR-3 CORBES



COMMITTEE on INDUSTRY RELATIONS (CIR)



- COSPAR recognizes that there is important mutual interest for the benefit of both industry and COSPAR – space ecosystem
- CIR is dedicated to exploring effective ways of integrating industry capabilities with international space research efforts
- 17 significant space company members

Industry Corner https://cosparhq.cnes.fr/scientific-structure/industry-corner/

COSPAR PUBLICATIONS







- Life Sciences in Space Research



JNCOPUOS Scientific and Technical Sub-Committee (STSC) session on Apophis, a link to the Call for Abstracts for our next Symposium in Nicosia, Cyprus, and recent Memoranda o

please share information about these propers share information about these Erasmus+ projects with any teachers or trainers you know who might be interested, the resources that are on offer are too good to keep to curpolication.

you'd like to see or read here, and if you enjoy this newsletter, please share it!

Leigh Fergus and Richard Harrison

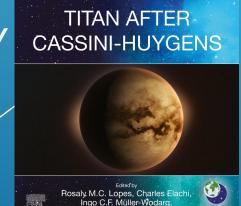
News
 COSPAR Supporte

News from Space



- Space Research Today
- COSPAR News





and Anezina Solomonidou

COSPAR Series



ADVANCES IN

SPACE RESEARCH

 Advances in Space Research (Impact Factor: 2.8)

(Impact Factor: 2.9)





HIGHLIGHTS COSPAR 2024



- 3000 talks and posters about latest discoveries
- Amazing interdisciplinary lectures and panels
- Topical lunches and industry panels
- Exhibitions from space agencies/industries/organizations



- First international conference:
 Korea Aerospace Administration (KASA) (inaugurated 27 May 2024)
- For the first time, COSPAR brought together space leaders from KASA, NASA, CNSA, ISRO, JAXA, ASI, and the UAE
- COSPAR's new community-driven Space-Weather Roadmap and New Policy on Planetary Protection 2024 were presented



3-7 November 2025, Nicosia, Cyprus

"A Symposium on Humanity's Challenges and Celestial Solutions"



HOSTED BY



THE 6th

COSPAR SYMPOSIUM

November 3rd – 7th, 2025 Nicosia, Cyprus



The Context Humanity's Challenges & the Potential of Space

- Space Tech for Earth & Beyond
 Innovation, AI, & Sustainable Solutions
- Space as a Unifying Force
 Fostering International Collaboration
- Responsible Exploration
 Responsible Space Endeavours
- Capacity Building
 CubeSats & Outreach Event







See you in Florence....







COSPAR 2026



46th COSPAR Scientific Assembly and Associated Events Florence, Italy, 1 - 9 August 2026

150 core scientific program and numerous special events

In cooperation with Instituto Nazionale di Astrofisica (INAF)

Scientific program and abstract submission: Nov 2025 https://www.cospar-assembly.org



QUESTIONS/COMMENTS?





https://cosparhq.world



Committee on Space Research - COSPAR



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Committee on Space Research



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