



COSPAR News

October 2021 Issue 10

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Message from the Editors

The 44th COSPAR Scientific Assembly is now less than a year away (see the summary and links below) and many of our readers will be looking forward to a ‘principally in person’ meeting, heralding something of a return to normality with the meeting again providing a long-awaited melting pot of ideas and collaborations. Definitely something to look ahead to.

This issue of *COSPAR News* stresses the many ways in which COSPAR is both relevant and active on the international space science scene, with reports on COSPAR business, including an update to the Planetary Protection Policy for lunar surface missions, details of a new COSPAR task group and a wide range of *Advances in Space Research* Special Issues. And to put it all in perspective, have a glance at the superb quote from Fred Hoyle!

In the previous issue, COSPAR President Len Fisk addressed the climate emergency in his essay '[The Climate Crisis. A Time of Peril. A Time to Act.](#)' Discussion and comments on this topic are still welcome, to be sent to cosparcom@cosparhq.cnes.fr by
15 October 2021.

Meanwhile, please do continue taking all of the necessary measures to stay well.

Richard Harrison and Leigh Fergus

Space Science Snapshot:

Perseverance has successfully collected two core samples of basaltic rock from Mars' surface. The volcanic origin of the rock could help scientists accurately date when it formed.



(Image credits: NASA/JPL-Caltech)



COSPAR Meetings

**44th COSPAR Scientific Assembly
Athens, Greece: 16-24 July 2022**

The Call for Papers for 44th COSPAR Scientific Assembly is now available [here](#)! Check the [COSPAR Assembly website](#) and www.cosparathens2022.org/ for details as well as the August issue of *Space Research Today*. The Assembly will be principally in-person.

[Click here to download the Athens Assembly poster!](#)



COSPAR Meetings

5th COSPAR Symposium
New Dates: 17-21 April 2023

The theme of the 5th COSPAR Symposium, to be held in Singapore, is 'Space science and small satellites'. More information [here](#).

COSPAR Business

PPP Policy Update

The latest [update to the COSPAR Planetary Protection Policy](#) for lunar surface missions is now available on the



COSPAR website and in the August issue of *Space Research Today*.

COSPAR Business

PSW Update

The COSPAR Panel on Space Weather met on 29 September as a plenary session of the second COSPAR ISWAT Working Meeting "Towards Community-Driven Living COSPAR Space Weather Roadmap." Subsequent contributions for the roadmap are welcome and can be short and include references to publicly-available regional/national/ international documents (*e.g.* national strategies and action plans, surveys, roadmaps, etc). Details on the PSW page of COSPAR website.



COSPAR Business

TGCSS Update

The COSPAR Task Group on establishing a Constellation of Small Satellites has been moving forward this year. Read about the latest developments in this recently released article.



COSPAR Business

New COSPAR Task Group

A COSPAR Task Group on establishing an International Geospace Systems Program (TGIGSP) has been formed. More information can be found on the [TGIGSP](#) page of the COSPAR website.



COSPAR Publications

ASR Special Issues

Calls for papers for *Advances in Space Research (ASR)* special issues:

COSPAR Space Weather Roadmap 2022 Achievements and Goals Announcement: deadline 30 June 2022

Recent Advances in Space Research in Monitoring Sustainable Development Goals: deadline 1 June 2022

Space and Geophysical Observations and Recent Results related to the African Continent: deadline 1 March 2022

COSPAR Space Weather Roadmap 2022 Research and Applications Announcement: deadline 31 January 2022

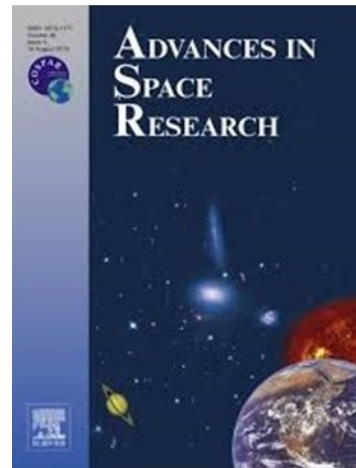
New Results from DORIS for Science and Society: deadline 31 January 2022

Parameter Retrieval and Applications with Imaging Spectroscopy Data from AVIRIS-NG: deadline 31 December 2021

Space Environment Management and Space Sustainability: deadline 31 December 2021

Application of Artificial Intelligence in Tracking Control and Synchronization of Spacecraft: deadline 31 December 2021

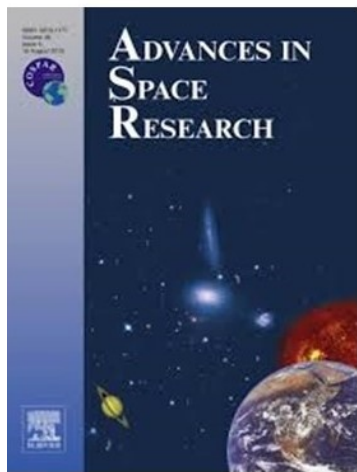
Astrophysical Spectroscopy and Data in Investigation of the Laboratory and Space Plasmas: deadline 30 November 2021



Spaceborne SAR Remote Sensing for Characterization of Natural and Manmade Features: deadline 31 October 2021

Astrophysics of Cosmic Rays: deadline extended to 31 October 2021

Magnetic Flux Ropes in Solar and Stellar Environments: deadline extended to 27 November 2021



COSPAR Publications

ASR Most Cited Articles Free to Read

The top five most cited articles in *ASR* are free to read in 2021:

1. [A review of the disc instability model for dwarf novae, soft X-ray transients and related objects](#)
2. [Flood susceptibility mapping by ensemble evidential belief function and binomial logistic regression model on river basin of eastern India](#)
3. [Small satellites for space science: A COSPAR scientific roadmap](#)
4. [GipsyX/RTGx, a new tool set for space geodetic operations and research](#)
5. [Simulating the impact of climate change on soil erosion in sub-tropical monsoon dominated watershed based on RUSLE, SCS runoff and MIROC5 climatic model](#)

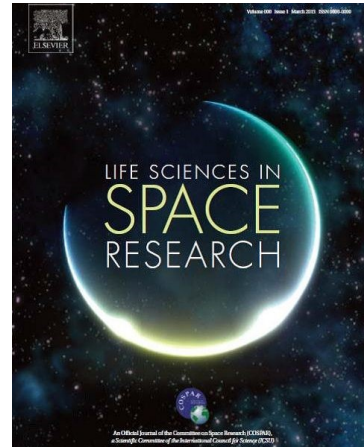
COSPAR Publications

LSSR Free Access Articles

Courtesy of Elsevier, the following review articles which appear in *Life Sciences in Space Research*, Volume 30, are free to read until 1 August 2022:

- [Nonhuman primate models in the study of spaceflight stressors: Past contributions and future directions](#)
- [What can space radiation protection learn from radiation oncology?](#)

This Open Access article is also free to read:
- [A proposed change to astronaut exposures limits is a giant leap backwards for radiation protection](#)



COSPAR Outreach

Fly me to the Moon

Read an outreach article [here](#) about the latest COSPAR Planetary Protection Policy updates in issue 32 of *Open Access Government*.

COSPAR Associated Supporter News:

ISSI

Former COSPAR President, Roger-Maurice Bonnet, has been appointed Honorary Director of the International Space Science Institute in recognition of his longstanding support of and essential role in the Institute.



News from Space Agencies

CNES Activates Satellites for Haiti Relief Efforts

Activated after Haiti was hit by the recent earthquake and Tropical Storm Grace, the International Charter Space and Major Disasters supplied imagery from 40 satellites in its constellation, notably Pleiades imagery. In particular, SERTIT, the French rapid-mapping department, generated a series of maps at CNES's request identifying disaster-hit areas for Haiti's civil protection teams. Read more [here](#).



News from Space Agencies

ESA Opens Up Space

ESA wants to open up space to start-ups, new companies, new actors. Read more [here](#).

News from Space Agencies

Venus Fly-by

The European-Japanese BepiColombo mission has arrived in the vicinity of Mercury after making a close approach of Venus on 10 August 2021. Read more [here](#).



On the Radar

Space-based Solar Energy

Both China and the US are now ramping up plans to set up space-based solar energy stations. The Beyond Earth institute in the US has submitted recommendations for a new Space Policy Directive for economically viable orbital solar power generation and transmission to Earth. And according to the *South China Morning Post* the Chinese government is aiming to set up a 1 megawatt solar energy station in space.

COSPAR Co-Sponsored Events

International Forum on Post Pandemic International Cooperation on Space Science, organized jointly by CSSR and NSSC, 23 November 2021, Beijing, China.

Employment / Internship Opportunities

See the [Employment / Internship Opportunities](#) on the COSPAR website under the **Latest News** menu for details. Associates are kindly invited to forward similar announcements to cosparcom@cosparhq.cnes.fr

Space Science Quote

"Space isn't remote at all. It's only an hour's drive away if your car could go straight upwards."

Fred Hoyle



Space Science Highlights from the Past

65 years ago, on 26 September 1956, Jupiter-C became the first rocket to pass the Thermopause and enter the Exosphere.

Contribute to COSPAR NEWS!

If you have an announcement or item of news for the COSPAR--and wider space--community, please send it to leigh.fergus@cosparhq.cnes.fr