An update of SCOSTEP's recent activities

Nat Gopalswamy
(SCOSTEP Past President)

SCOSTEP
Scientific Committee on Solar-Terrestrial Physics

SCOSTEP
Scientific Committee on Solar-Terrestrial Physics

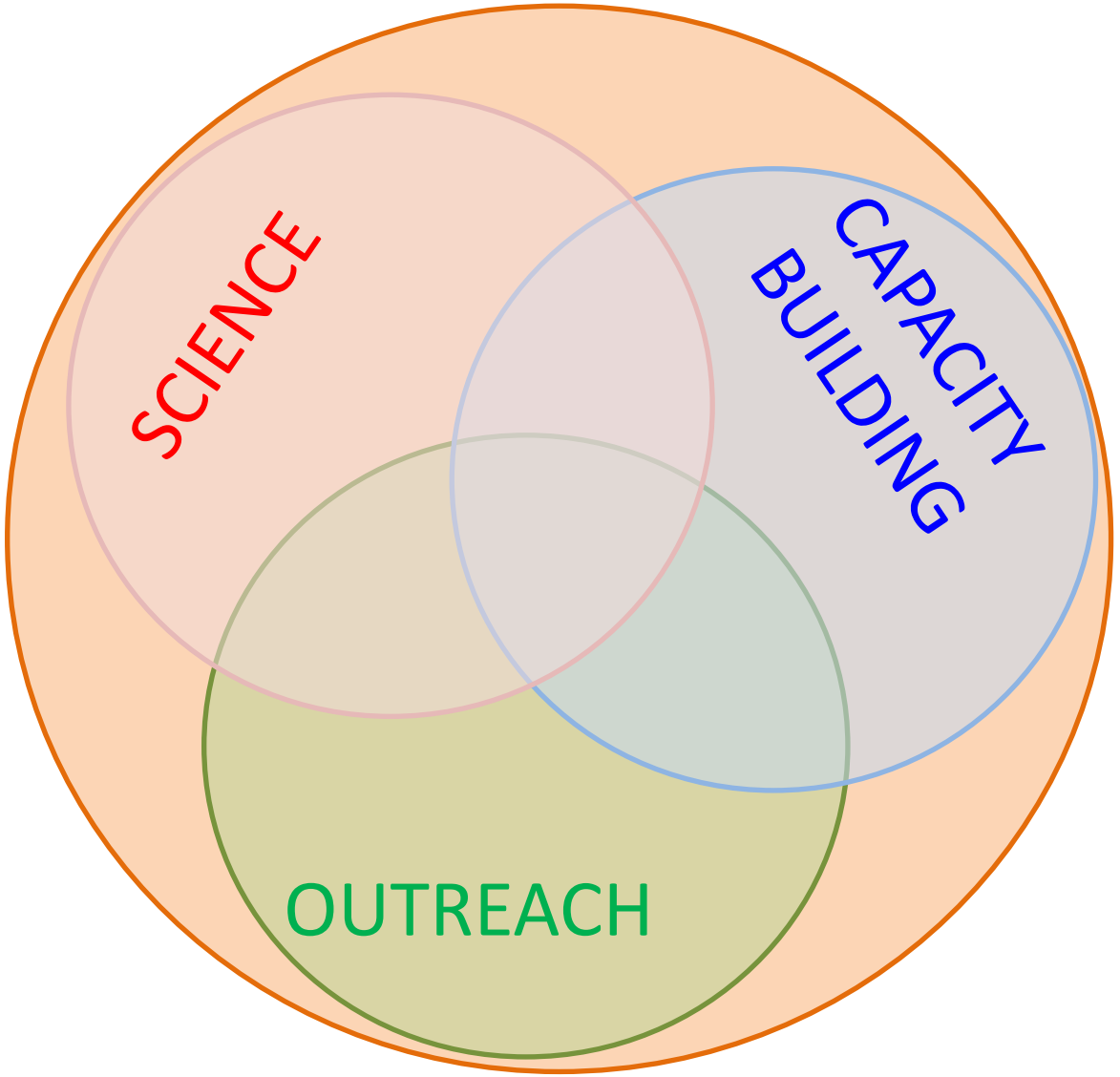
A thematic organization of the International Science Council (ISC).

Runs long-term (4-5 years) international interdisciplinary scientific programs of solar terrestrial physics since 1966

Interacts with national and international programs involving solar terrestrial physics elements

Engages in Capacity Building activities such as the Space Science Schools with UNOOSA/ISWI.

Disseminates new knowledge on the Sun-Earth System and the Sun's impact on life and society



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International interdisciplinary programs in solar-terrestrial physics operated by SCOSTEP

1976-1979: IMS (International Magnetosphere Study)
1979-1981: SMY (Solar Maximum Year)
1982-1985: MAP (Middle Atmosphere Program)
1990-1997: STEP (Solar-Terrestrial Energy Program)
1998-2002: Post-STEP （S-RAMP, PSMOS, EPIC, and ISCS)
2004-2008: CAWSES (Climate and Weather of the Sun-Earth System）
2009-2013: CAWSES-II (Climate and Weather of the Sun-Earth System-II）
2014-2018: VarSITI (Variability of the Sun and Its Terrestrial Impact)
2020-2024: PRESTO (Predictability of the variable Solar-Terrestrial Coupling)

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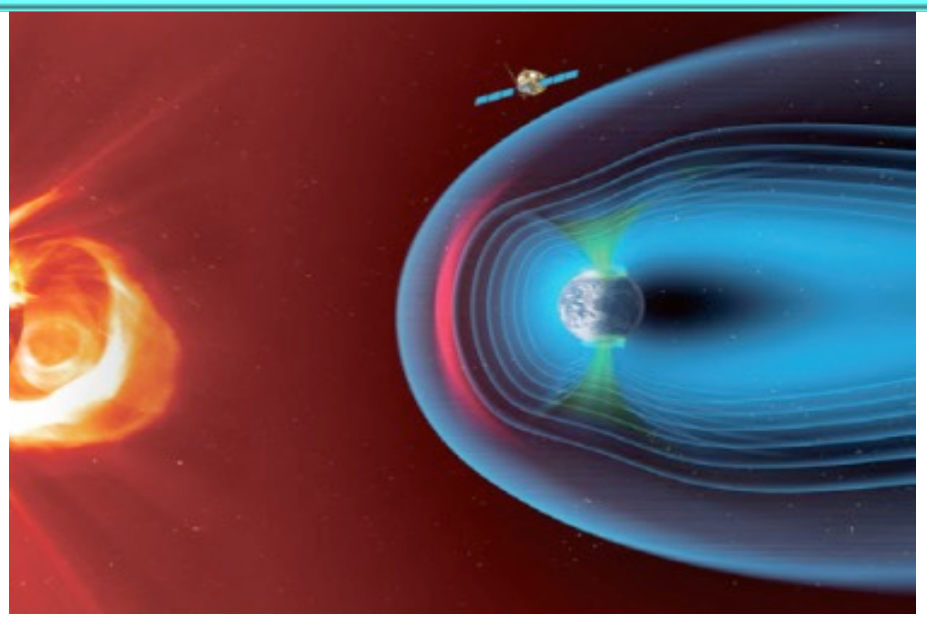
SCOSTEP's international program in 2020-2024

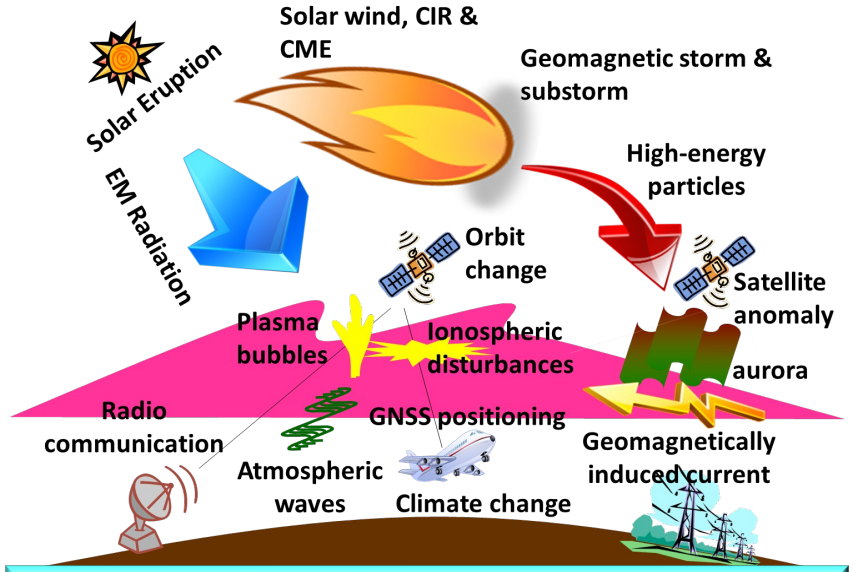
PRESTO: Predictability of the variable Solar-Terrestrial Coupling

PRESTO identifies predictability of the variable solar-terrestrial coupling performance metrics through modeling, measurements, and data analysis and to strengthen the communication between scientists and users

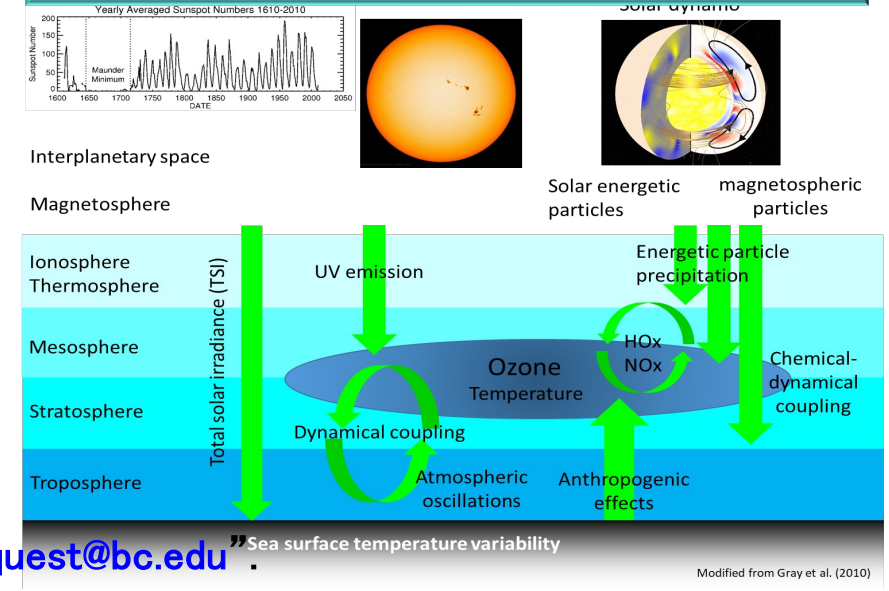
Pillar 1: Sun, interplanetary space and geospace



Pillar 2: Space weather and the Earth's atmosphere



Pillar 3: Solar activity and its influence on the climate of the Earth System



For subscription on the SCOSTEP-all mailing list, send e-mail to "scostepequest@bc.edu".

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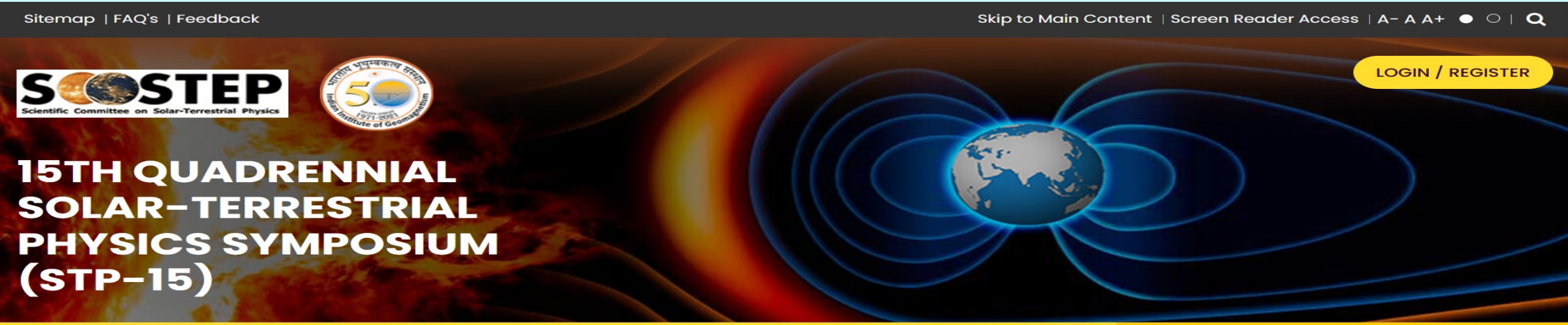
Funding & Learning Opportunities

- SCOSTEP/PRESTO provides financial support for organizing international campaigns and meetings every year.

- SCOSTEP also provides financial support for capacity building activities.
- Monthly online seminars on solar terrestrial science. The recorded talks are available on SCOSTEP Website

15th Quadrennial Solar-Terrestrial Physics Symposium



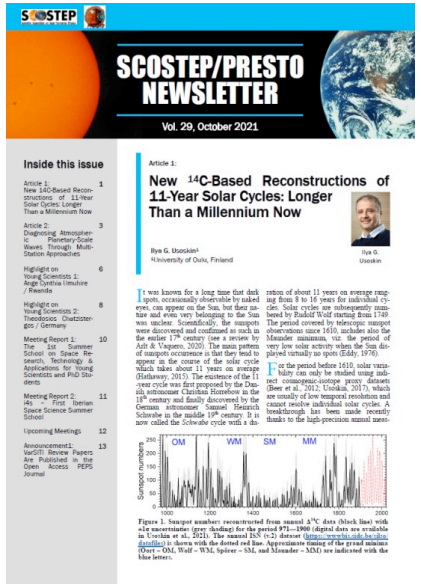
S1 - Overarching Topics in the Sun-Earth Connection
S2 - PRESTO Pillar 1: Sun, Planetary Space, and Geospace
S3 - PRESTO Pillar 2: Space Weather and Earth's Atmosphere
S4 - PRESTO Pillar 3: Solar Activity and its Influence On Climate
S5 - Space Weather Prediction and Implementation
S6 - Modelling, Database and Data Analysis Tools for Solar-Terrestrial Physics
S7 - New ground- and space-based initiatives for Solar-Terrestrial Physics
S8 - Special Session on "Geomagnetism-The Connecting Link between Sun and Earth"

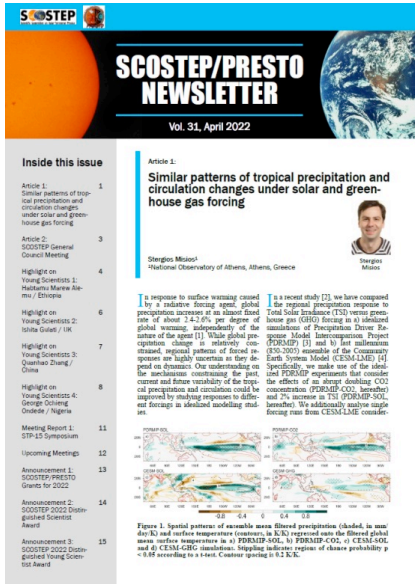
~400 participants from 40 countries
https://stp15.in

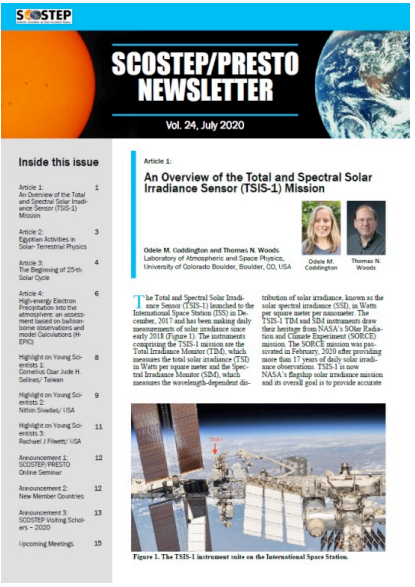
35 papers were submitted to the special issue in JASTP so far.

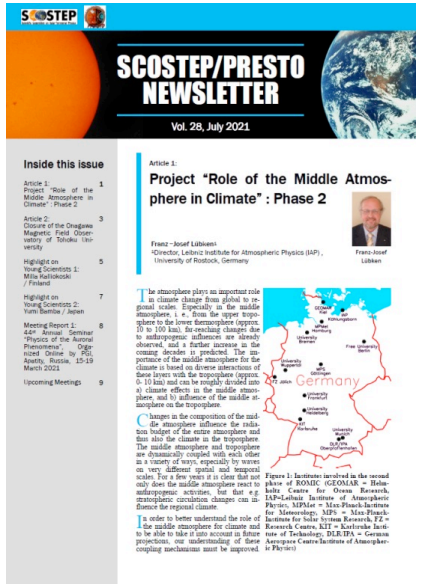
SCOSTEP/PRESTO Newsletter vol.23–34

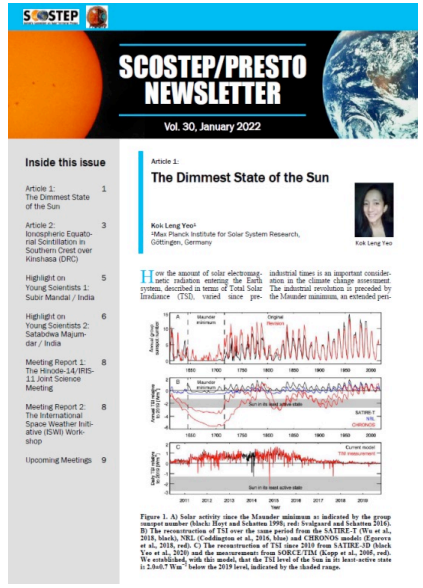
Every 3 months: Articles, Highlight of young scientists, Meeting reports, and Short news











Capacity Building Schools

Schools in 2022

- Iberian Space Weather School, June 6-10, 2022, University of Alcala, Spain
- The 2nd summer school on Space research, technology and application, 3-10 July 2022, National Astronomical Observatory (NAO) – Rozhen, Bulgaria
- 5th edition of the ISWI Maghreb Afrique de l'Ouest (IMAO) school, Houphouët Boigny University, Abidjan, 17-28 October, 2022, Côte d'Ivoire
- "The International Workshop on Machine Learning for Space Weather: Fundamentals, Tools and Future Prospects", 7-11 November 2022 in Argentina (http://indico.ictp.it/event/9840/)

Iberian Space Weather School

5th edition of the ISWI Maghreb Afrique de l'Ouest (IMAO) school

Workshop on Machine Learning for Space Weather group photo.

SCOSTEP 2022 Distinguished Scientist Award

David J. McComas

For original research, technical leadership and wide-ranging discoveries on the solar wind and interstellar medium.

Theodosios Chatzistergos

For his outstanding contribution to reconstructions of past solar variability, a crucial input to climate models.

SCOSTEP Visiting Scholar (SVS) Program

In 2022, 20 proposals were approved.

	Name	Home Institute	Host Institute
1	**Aderonke Adekemi Obafaye-Nee Akerele**	Bowen University, Iwo, Osun State, Nigeria (and NASRDA)	South African National Space Agency Space Science at Hermanus
2	**Adithya H.N.**	Young innovators, Educational Services Pvt. Ltd.	ISEE, Nagoya Univ.
3	**Oscar Batalla**	National and Autonomous University of Mexico (UNAM)	University of Oulu, Finland
4	**Nilam Yashwant Bhosale**	IIG, India	NASA Goddard Space Flight Center (GSFC)
5	**Nilesh Chauhan**	IIG, India	ISEE, Nagoya Univ.
6	**Anoruo Chukwuma Moses**	Univ. of Nigeria	ISEE, Nagoya Univ.
7	**Gourav Mitra**	Physical Research Laboratory, Ahmedabad, India	Leibniz Inst. For Atmospheric Physics
8	**Hagar Mohamed Salah Hussein**	Helwan University, Egypt	NASRDA, Nigeria
9	**Maheswaran Veera Kumar**	Sastra University, Thanjavur, India	ISEE, Nagoya Univ.
10	**Onyinye Gift Nwankwo**	University of Michigan, MI, USA	ISEE, Nagoya Univ.
11	**Stephan Owino Omondi**	Egypt Japan Univ. of Science and Technology	Kyushu University
12	**Taiwo Olusayo Osanyin**	INPE, Brazil	SANSA
13	**Pankaj K Soni**	Indian Institute of Geomagnetism, Navi Mumbai, India	ISEE, Nagoya Univ.
14	**Pooja Devi**	Kumaun University, Nainital, India	NASA/GSFC
15	**Rahul Rathi**	Indian Institute of Technology. Uttarakhand, India	ISEE, Nagoya Univ.
16	**Srikar Paavan Tadepalli**	IIG, India, Indian Institute of Technology	NASA Goddard Space Flight Center (GSFC)
17	**Sunil Kumar**	PRL, India	Leibniz Inst. For Atmospheric Physics
18	**Theogene Ndacyayisenga**	University of Rwanda	NASRDA, Nigeria
19	**Rukundo Wellen**	Egypt Japan University of Science and Technology (E-JUST).	ISEE, Nagoya Univ.
20	**Mr Yogesh**	Physical Research Laboratory, Ahmedabad, India	NASA Goddard Space Flight Center (GSFC)



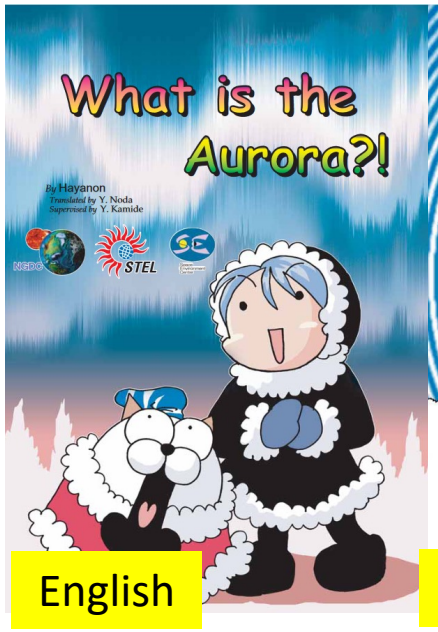






SCOSTEP - Science Comic Books

https://scostep.org/



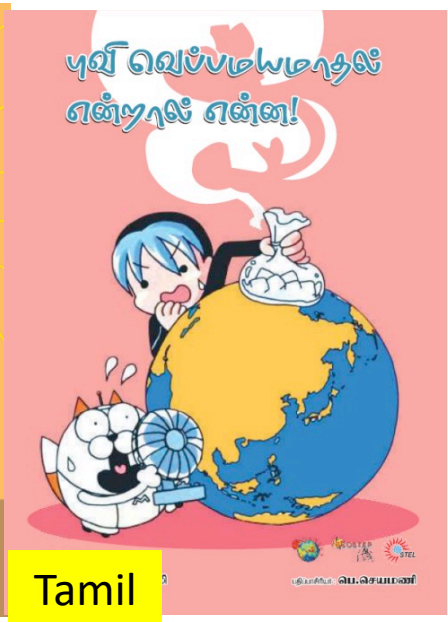
English

French

Czech

German

Korean



Tamil

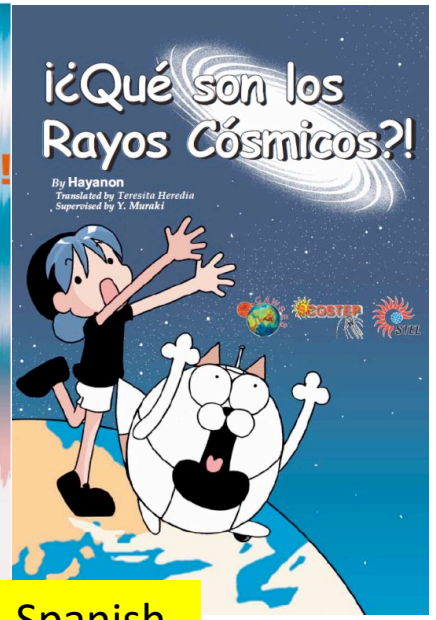
Hindi

Italian

Japanese

Urdu

Russian



Spanish

Summary

- **PRESTO is the current SCOSTEP scientific program for 2020-2024 with the goal of understand Predictability of the variable Solar-Terrestrial Coupling**
- **Scientists from all over the world participate in the PRESTO program focusing on the predictability of space weather and solar effect on climate.**
- **SCOSTEP's capacity building and outreach activities are taking Solar terrestrial science to as many developing countries as possible**

PRESTO: Predictability of the variable Solar-Terrestrial Coupling
SCOSTEP: Scientific Committee on Solar-Terrestrial Physics