



2016



**2017** Annual Report

**Introduction to ISSI** 

ISSI presentation ExoOceans Study Core Group November 13-14, 2017 Observatoire de Paris.

www.issibern.ch





The International Space Science Institute (ISSI), located in Bern, Switzerland, is an Institute of Advanced Studies in space sciences where scientists from all over the world meet in a multi- and interdisciplinary setting to reach out for new scientific horizons.

ISSI is a catalyst and an international scientific joint venture.

ISSI is a non-profit organization set up in Bern in 1995 founded under Swiss law with an initial endowment by the leading Swiss space company Contraves Space AG (now, RUAG Space Group).

ESA, the Swiss Confederation, the University of Bern, the Russian Academy of Sciences and the Institute of Space and Astronautical Science (Japan) provide the financial resources for ISSI's operation.



Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizza



Swiss Academy of Sciences Akademie der Naturwissenschaften Accademia di scienze naturali Académie des sciences naturelles



SWISS NATIONAL SCIENCE FOUNDATION

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The main function is to contribute to the achievement of a deeper understanding of the results from different space missions, ground based observations and laboratory experiments, and adding value of those results through multi- and Interdisciplinary research in the framework of International Teams, Workshops, Working Groups, Forums or as individual Visiting Scientists.

Each tool is particularly shaped and fits with some of the dissected pieces of a specific puzzle in Space Science.

Near 1,000 scientists visit ISSI each year: space, ground based, and laboratory researchers, theorists, and modellers.

ISSI covers a widespread spectrum of disciplines from the physics of the solar system and planetary sciences to astrophysics and cosmology, and from Earth sciences to astrobiology.



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# What ISSI is not!

- ISSI is not responsible for developing experiments or/and space hardware.
- ISSI is not operating instruments or facilities.
- ISSI is not fulfilling the role of a space agency.



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## **ISSI TOOLS**







- Workshops are selected by the ISSI Directors in consultation with the Science Committee.
- The program and speakers are defined by a group of highly qualified experts serving as conveners.
- The Workshops of a week duration can be attended by 40-45 invited scientists and experts.
- The results of the Workshops are published as refereed papers in issues of Topical Collection in Space Science Reviews and in parallel as a book of the Space Science Series of ISSI (SSSI).
- ISSI support: Cost of publication of the Book. Per diem and accommodation in Bern.
- Travel support: Only to WS Conveners, if needed.



# **Books & Papers**



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#### **SPACE SCIENCES SERIES OF ISSI**

- Topical volumes resulting from ISSI workshops.
- Published by Springer, and as issues of Space Science Reviews and Surveys in Geophysics.
- 59 volumes available (several in press and/or in preparation). ISSI SCIENTIFIC REPORT SERIES
- Volumes of technical nature, published by Springer.
- 15 volumes available (several in preparation).

#### **SPATIUM SERIES**



- Popular articles, published by the Association Pro ISSI.
- 39 issues available (several in preparation).

### **Individual Papers**



- Peer-reviewed international journals.
- ISSI affiliation or with acknowledgement to ISSI.
- Some 200 publications per year in last years of activity.





# Space Sciences Series of ISSI Impact factor

- The two-year impact factor of Space Science Reviews (from which the ISSI volumes are reprinted) has developed very satisfactorily:
  - 2011: 3.6 - 2012: 5.5 Space Science Reviews continues to - 2013: 5.9 boast a very strong Impact Factor, and 6.3 - 2014: is found in the top ten (6/63) of all Astronomy and Astrophysics journals - 2015: 7.2 ranked by Thomson Scientific. 7.5 - 2016:
- Space Science Reviews will switch to **CAP** (Continuous Article Publishing) with **NO** paper copies starting in January 2018.
- ISSI volumes will continue to appear as before.





## Space Sciences Series of ISSI Total Cites







- First Circular of the Workshop
- Letter of invitation: fixed dates and preliminary list of invited scientists.
- List of conveners.
  - Participation of the leading experts in the field. The workshop will make it possible to revisit all aspects related to the subject, and will investigate the question of possible long-term improvements in the relevant technologies.





- Participation in this Workshop is by invitation only. The conveners have the endeavor to create a list of participants who are currently very active in the field and who will cover the relevant topics without making the workshop unwieldy.
- ISSI will cover the subsistence costs (hotel and meals) while in Bern. ISSI is not in a position to cover the travel costs. There is no registration charge for participating in the Workshop.





- An important outcome of the workshop will be a book published in the Space Sciences Series of ISSI (SSSI) by Springer Verlag.
- The volume is not intended to be the proceedings of the Workshop, but a collection of in-depth papers informed by the contributions and discussions at the Workshop.
- It is expected that a total of up to 10-15 review style and quality papers, submitted to the usual refereeing process, will be published in the book.
- Papers will be based talks presented at the Workshop and will be moderated by the discussions in splinter groups.





- It should provide a coherent picture of the current state of the subject.
- All papers will be peer reviewed. The papers will be published both in the hardcover book in this series and also individually in Space Science Reviews as they are received.
- We expect the papers will be submitted within 5-6 months of the workshop so they can reflect the discussions during it. The journal issue and the SSSI volume are expected to appear about 12-18 months after the workshop. By accepting ISSI invitation, attendants also accept to contribute to the ISSI volume.



#### Guidelines for Space Science Reviews, and the Space Science Series of ISSI books:

Word count: about 680/page Character count: about 3500/page, 4100/page with spaces Number of lines on the page: 49 Words per line: about 14 (average)

Book size target: 350 to 500 pages (ca. 25-30 per paper) Publication charges and colour figures: Paid for by ISSI



#### Templates for LaTeX and for Word are available at the SSRv web page http://www.springer.com/astronomy/extraterrestrial+physics%2C+space+sciences/journal/11214

under Author Tools

Papers will be typeset professionally after acceptance





# **Space Science Reviews**: Please submit the paper through the Space Science Reviews editor manager system:

http://spac.edmgr.com/

It is very IMPORTANT to choose in the upper menu as the type of submission special issue article type

"Vol xxx: Title to be confirmed".

You should login there as an author (register if you had no login before),

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# Thank you