



The ISWI Website and the ISWI Newsletter:

*Statements for the periods 2009-2012
and one year later*

Dimitar Danov¹, George Maeda²

¹ *Space Research and Technology Institute – Bulgarian Academy of Sciences,*

² *International Center for Space Weather Science and Education*

–Kyushu University, Japan



The ISWI Website and the ISWI Newsletter:

Statements for the periods 2009-2012 and one year later

Why are they needed ?



ISWI was established under UN auspices in 2009.

Nearly 100 countries from all continents were involved at the beginning.

Only three meetings of the whole community were planned.

ISWI site and ISWI-newsletter are needed in order to assist all of the participants to be in the course of current activities.



ISWI site appears on the Internet
in late December 2009

Inaugural issue of the

ISWI

(International Space Weather Initiative)

Newsletter

The first issue
was released on
November 19, 2009



The establishment of ISWI Newsletter

There are the first two pages of the Newsletter

Prof. Dr. Kiyohumi Yumoto
Director
Space Environment Research Center
Kyushu University
Hakozaki 6-10-1
Higashi-ku Fukuoka 812-8581
Japan



UNITED NATIONS
Office for Outer Space Affairs

23 October 2009

Dear Professor Yumoto,

International Space Weather Initiative Newsletter

The United Nations Committee on the Peaceful Uses of Outer Space (UNCOPUOS), in its fifty-second session in Vienna from 3 to 12 June 2009, noted the importance of continuing to build upon the successes of the International Heliophysical Year 2007 (IHY 2007), in particular by deepening the understanding of the function of the Sun and its effects on the Earth's magnetosphere, environment and climate, and noted with satisfaction the agreement reached by the Scientific and Technical Subcommittee at its forty-sixth session to consider beginning at its forty-seventh session in 2010, a new agenda item entitled "International Space Weather Initiative (ISWI)" under a three-year workplan (2010, 2011, 2012) with specific focus on the effects of space weather on the Earth.

ISWI will utilize the ground-based world-wide IHY instrument arrays under deployment since 2005. In this respect I am taking the opportunity to thank you, on behalf of the United Nations Office for Outer Space Affairs (UNOOSA), for the outstanding success of MAGDAS implemented in your capacity as Principal Investigator of the MAGDAS/CPMN Project and Organizer of IHY for Japan.

International ISWI workshops have been tentatively scheduled to be hosted by Egypt (2010) for Western Asia, Nigeria (2011) for Africa, and Ecuador (2012) for Latin America and the Caribbean. The 2009 UN/ESA/NASA/JAXA Workshop on Basic Space Science and the International Heliophysical Year 2007, held in the Republic of Korea in 2009, started implementing the ISWI as put forth by UNCOUOS.

One of the major elements of ISWI will be the publication of an ISWI Newsletter on a continuing basis in the period of time 2010-2012 to assure worldwide delivery of the results of ISWI and its instrument arrays. This will cover all 192 Member States of the United Nations. Following deliberations of UNCOUOS and UN/ESA/NASA/JAXA workshops, I would like to request SERC of Kyushu University to publish the ISWI Newsletter under your distinguished guidance. Distribution of the Newsletter will be accomplished by email and mail as might be appropriate. UNOOSA, through its mailing system, will support the distribution of the ISWI newsletter to UN Member States.

Thank you for your cooperation.

Sincerely,

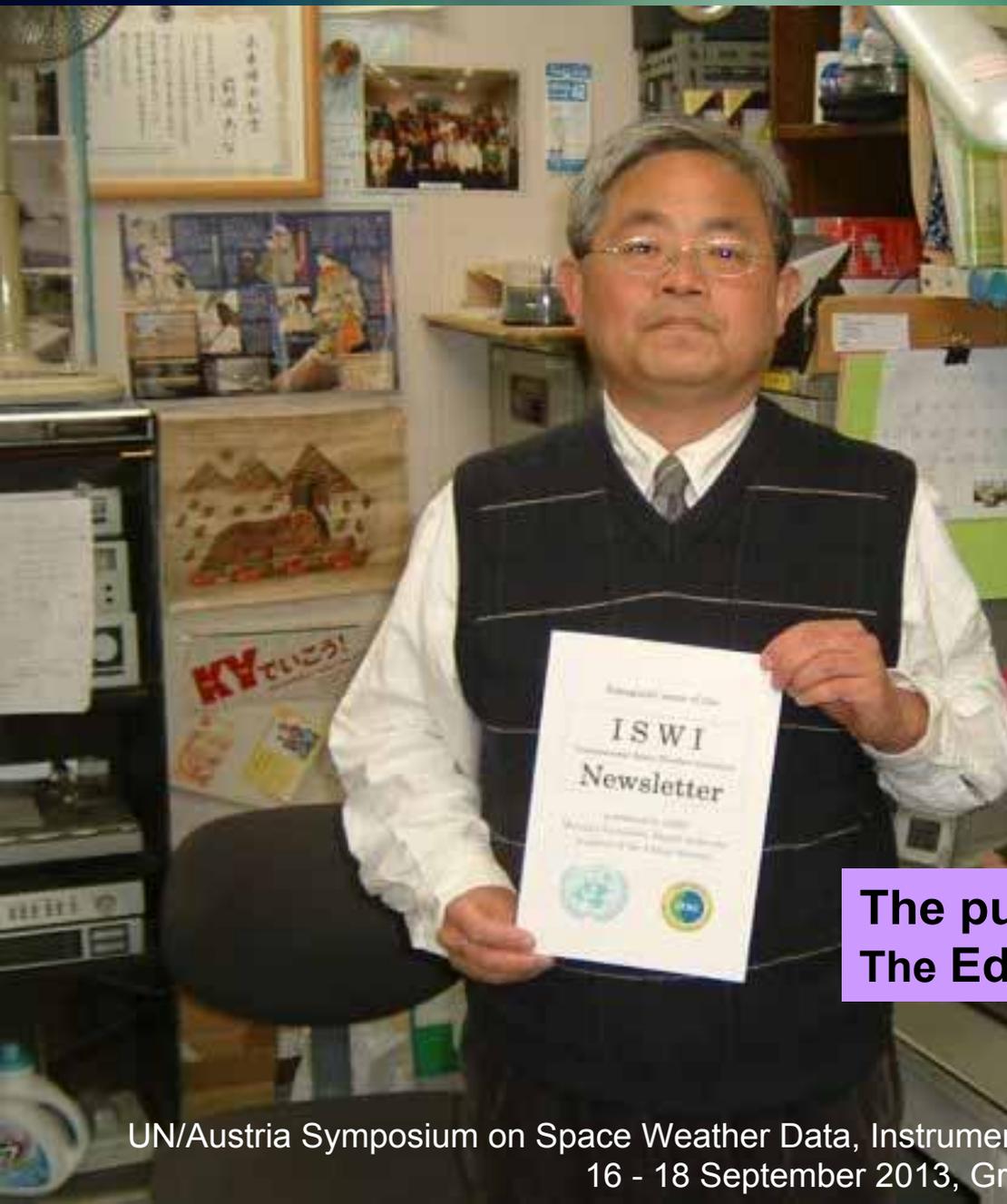
Hans J. Haubold
United Nations Programme on Space Applications

Office is located on
campus of
University.
(Fukuoka, Japan)



The letter (23 Oct 2009) written from Prof. Haubold to Prof. Yumoto.
This is the official decision for issuing of the Newsletter.

The establishment of ISWI Newsletter



The publisher is: Prof. K. Yumoto
The Editor is: George Maeda

Responsible for the newsletter content is Mr. Maeda

Dear ISWI Participant:

New newsletter can be sent at the discretion of the editor.

Each of the following persons may offer content:

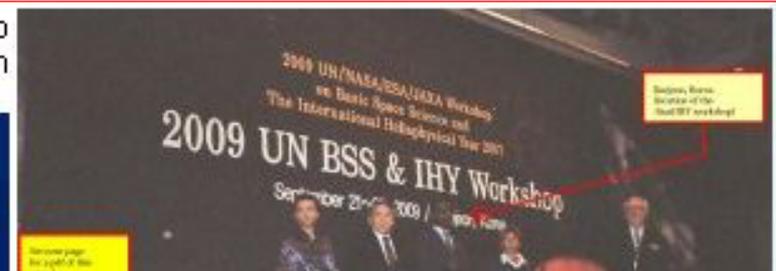
- ✓ **Members of ISWI Steering Committee**
- ✓ **ISWI National Coordinators**
- ✓ **All Instrument Leaders**

The editor has the right to publish content from other sources only if it is related to the activity of ISWI.

ISWI News

The first is a photo of one IHY Korea workshop award ceremony taken by the Editor using his 35-mm film camera (hence the coarseness).

The second is a photo of one of the awards presented; this award was given to four scientists



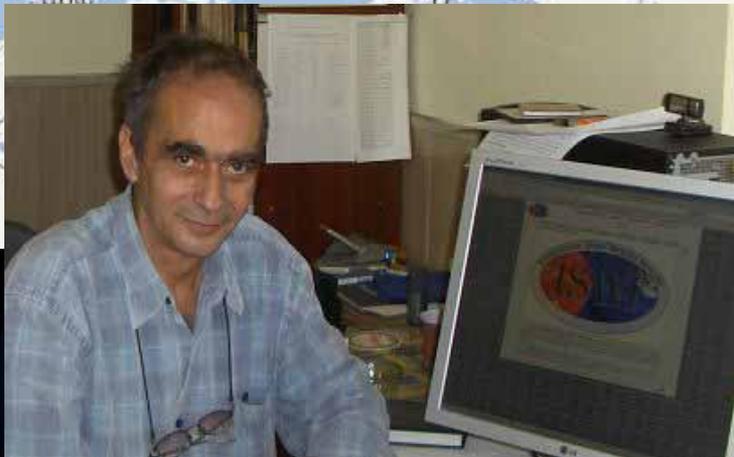
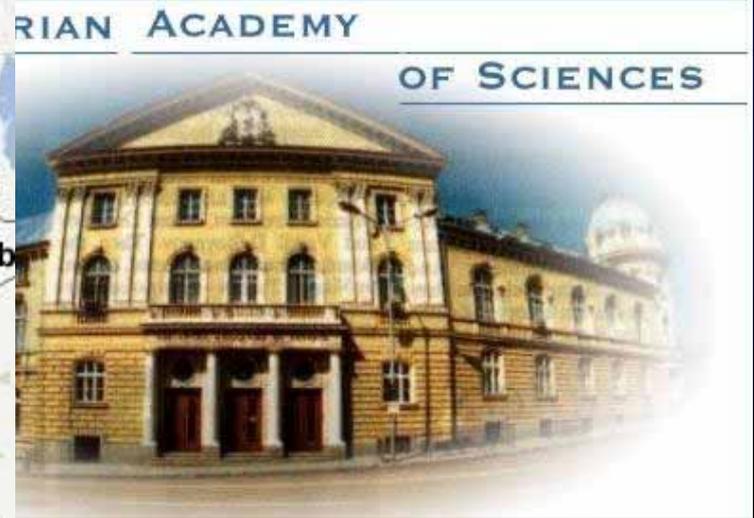


International Space Weather Initiative

ISWI



ISWI server is located on the campus of Bulgarian Academy of Sciences. (Sofia, Bulgaria)



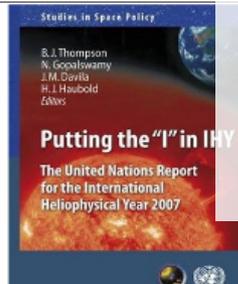
Webmaster is: Dimitar Danov

Please Note: IHY has officially closed as of March 2009, and this site is no longer being updated.

Many aspects of IHY are being continued through the [International Space Weather Initiative \(ISWI\)](#)

Additionally, analysis of IHY science campaigns is continuing through the [Whole Heliosphere Interval activities](#)

A book summarizing IHY's activities is available for



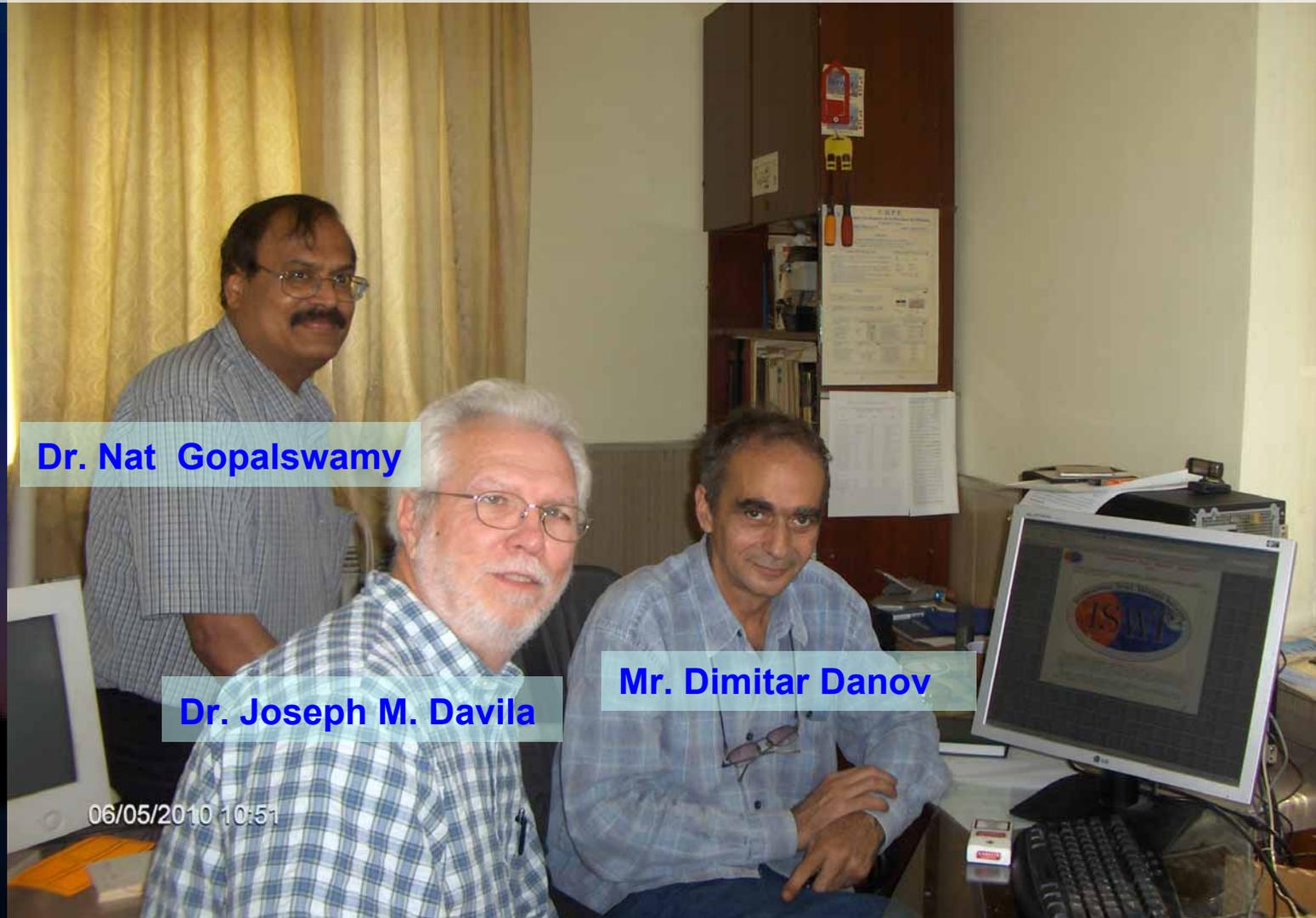
As ISWI is a continuation of IHY, the ISWI website must also be a continuation of the site <http://www.ihy2007.org/>.

The site is orientated primarily to ISWI participants.

Its goals are:

- ✓ to provide fast access to all **key documents and decisions**
- ✓ to provide background information for each **Instrumental Area**
- ✓ to facilitate **contacts within** the community
- ✓ to provide comprehensive information about upcoming **events and schools**
- ✓ to inform about **publications** realized under the ISWI

The site was launched in Sofia from the following persons:



Dr. Nat Gopalswamy

Dr. Joseph M. Davila

Mr. Dimitar Danov

Rules for the management of the website

Responsible for the site content is Mr. Danov

New content can be added only after permission from one of the following persons:

- ✓ **Prof. Hans J. Haubold** - UN Office for Outer Space Affairs
- ✓ **Dr. Joseph M. Davila** - Director of ISWI
- ✓ **Dr. Natchimuthuk Gopalswamy** - Director of ISWI

Any changes related to the Instrument Arays are made after coordination with the respective Lead Scientist.

National Coordinators may propose Site Content.

News will be spread through the ISWI Newsletter.

The complete archive of the ISWI Newsletter must be stored on the website.



International Space Weather Initiative

ISWI



About

Organization

Projects

Meetings

Publications

News&Blogs

HOME

Good Afternoon. Welcome to:



ISWI is a program of international cooperation to advance the space weather science by a combination of instrument deployment, analysis and interpretation of space weather data from the deployed instruments in conjunction with space data, and communicate the results to the public and students. ISWI is a follow-up activity to the successful IHY 2007, but focusing exclusively on space weather.

International Space Weather Initiative

MAP of

WWW.ISWI-SECRETARIAT.ORG

About

- [Objectives](#)
- [History](#)
- [Sponsors](#)
- [About this site](#)

Organization

- [Secretariat](#)
- [Organization](#)
- [Steering Committee](#)
- [National Coordinators](#)

Projects

- [Instrument Projects](#)
- [Instrument Leaders](#)
- [Participating Countries](#)
- [ISWI Space Science Training](#)
- [Gift Workshops](#)

Meetings

- [ISWI-UN Workshops](#)
- [Calendar of Events](#)
- [ISWI Events](#)

Publications

- [Books](#)
- [Proceedings](#)
- [Presentations](#)
- [Newsletter Archive](#)
- [Documents](#)

News&Blogs

- [Latest ISWI Newsletter](#)
- [Just Published](#)
- [Message board](#)
- [Write message](#)
- [Joe's blog](#)

Web site content was structured into 6 sections and 26 sub-sections

The content of several sub-sections is clear from their title.
They usually contain only one Web page.

Subsections that are essential follow.

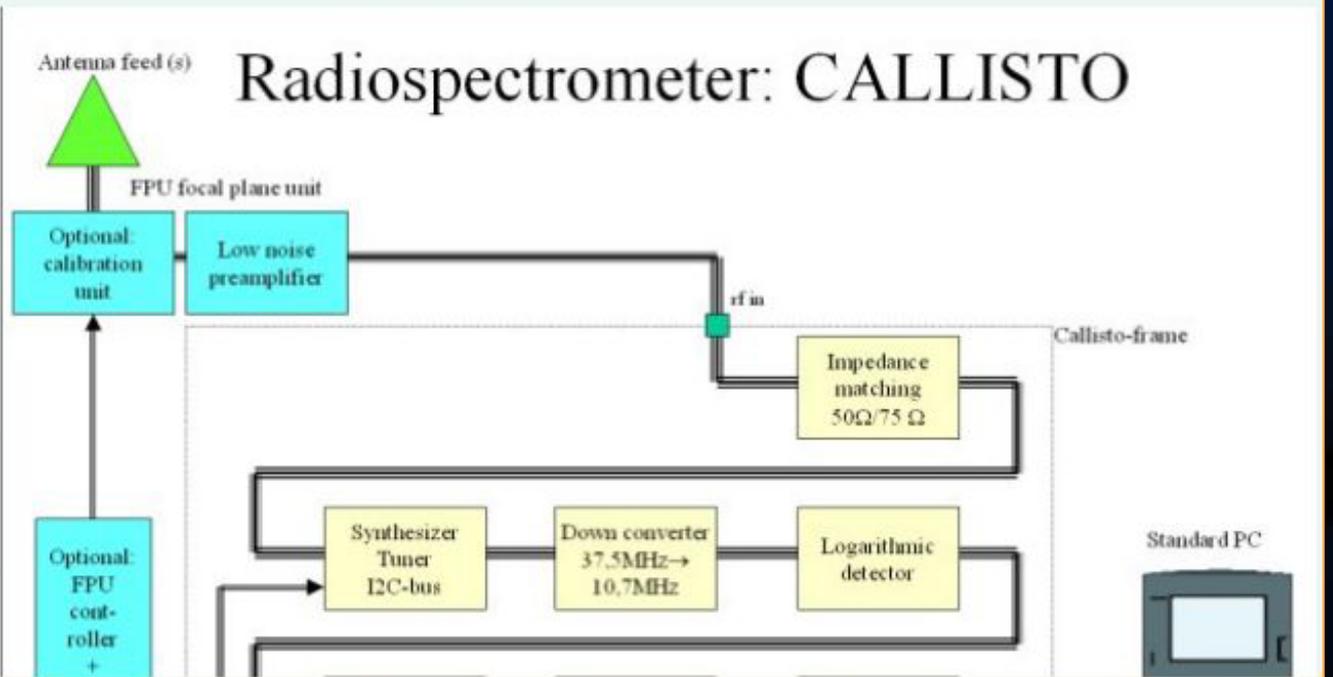
Instrument Projects

List of the all Instrumental Areas

There is an indication for each Instrument Area of the:

- Objective:
- Lead Scientist(s)
- A short description

Several of the CALLISTO instruments have already been deployed, including 2 spectrometers in India (Ooty and Gauridbianur), in Badary near Irkutsk, Russian Federation, South Korea, Australia, Hawaii, Mexico, Costa Rica, Brazil, Mauritius, Ireland, Czech Republic, Mongolia, Germany and Belgium. Through the IHY/UNBSSI instrument deployment program, CALLISTO is able to continuously cover the solar radio spectrum from 45 to 870 MHz.



3. **African Meridian B-field Education**
Lead Scientist: Lead Scientist: *Dr. Endaw*
 (University of Michigan) **United States**
Objective: Understand low latitude elect
 electron population in inner radiation bel
 (read [more](#))
4. **Atmospheric Weather Education**
Effects (AWESOME) and SID (Sun
Lead Scientist: *Dr. Umran S. Inan, Dr. Mo*
States
Objective: Lightning, sprites, Elves, relat
 electron precipitation, conjugate studies
 (read [more](#))
5. **Compound Astronomical Low-co**
Spectroscopy and Transportable
Lead Scientist: *Dr. Arnold Otto Benz and*
Objective: Study the magnetic activity of
 on the Sun and cool stars
 (read [more](#))
6. **Continuous H-alpha Imaging Net**
Lead Scientist: *Dr. Kazunari Shibata and*
Objective: Solar activity, flares, filaments
 (read [more](#))
7. **Coherent Ionospheric Doppler R**
Lead Scientist: *Prof. Ayman Mahrous (Hel*
United States
Objective: To tomographically reconstruc
 Assimilation models

ISWI Space Science Training

A list of all schools organized by ISWI (or with the assistance of ISWI)

There is an indication for each school of the:

- ✓ BACKGROUND INFORMATION
- ✓ MAJOR TOPICS of the SCHOOL
- ✓ Link to Web site of the school (if any)

December 08, THE 2010 ISWI-AFRICA

Soon you

THE 2010 ISWI-AFRICA SUMMER SCHOOL IN SPACE SCIENCE, BAHIR DAR, ETHIOPIA

October 28-November 4, 2010

Washera Geospace and Radar Science Laboratory, Bahir Dar University, P.O.Box 7

Report on "The 2010 International Space Weather Initiative (ISWI) Summer School, Bahir Dar, Ethiopia, can be found here [↗](#)

MAJOR TOPICS OF THE SCHOOL

- Fundamental and Space Physics
- Computational Space Physics
- Modern Data Analysis and Interpretation Methods
- Scientific Instrumentation for Space Exploration
- Programming using Open Source

BACKGROUND INFORMATION

The IHY has successfully conducted many programs that have not only popularized space science all over the world and but also created favorable conditions for joint research and training in some sort of global framework. African scientists have successfully participated in the IHY and many research level scientific instruments have been installed in many parts of Africa in the framework of the IHY. In order to make maximum use of these and other similar initiatives and establish strong space research groups in Africa, a high level training of young students and researchers is very crucial. The present summer school is a continuation of the African Regional IHY School, which was conducted in November 10-22, 2008 in Nigeria and its major objectives include teaching the fundamental knowledge and skills in

- Space Physics
- Modern data analysis and interpretation methods

After the end of the school:

- ❖ The Final Report
 - ❖ The presented lectures
- if we have the permission for publication

In December 2009 in this list was only one school.

Towards August 2013 the list contained eleven schools.

ISWI Events

a list of meetings on the subject of ISWI

There is an indication for each meeting of the:

- ✓ BACKGROUND INFORMATION
- ✓ MAJOR TOPICS of THE EVENT
- ✓ Link to Web site of the event

United Nations
Workshop on the Application of Space Technology for Sustainable Development
17-19 October 2009
Hc
Agency for Land Resources

[Read more...](#)

SCOSTEP Symposium STP 12 12-16 July 2010 in Berlin, Germany

WEB page: <http://www.iap-kborn.de/SCOSTEP2010/>

Dear colleagues and friends,

On behalf of the SCOSTEP Bureau it is the great pleasure to announce the STP12 symposium, which will take place in Berlin from 12-16 July 2010. The meeting will be held again in Germany. We are proud to host this event and to create ideal conditions.

After the end of the event:

- ❖ The Final Report
- ❖ Sometimes you may find presentations if organizers provide this option

Chair of the Local Organizing Committee

STP-12 will be held in the week prior to the SCOSTEP meeting.

Scientific Program

This is the twelfth in the series of SCOSTEP Symposia (SCOSTEP Committee on Solar-Terrestrial Physics). They are held on an approximately quadrennial basis. The main goal of SCOSTEP is to organize scientific programs in the solar-terrestrial environment. The current program is Climate and Weather in the Sun-Earth System (CAWSES), which has the overall goals of fostering a scientific approach to understanding the short-term (Days-Weather) and long-term (Days-Climates) variability of the integrated solar

In December 2009 in this list were only five events

Towards August 2013 the list contained sixteen events

MAP of

WWW.ISWI-SECRETARIAT.ORG

About

Objectives

History

Sponsors

About this site

Workshop's sites **N**

National ISWI Sites **N**

Logos **N**

Meetings

ISWI-UN Workshops

Calendar of Events

ISWI Events

HOME

Reload

This Site Map

First Page

Organization

Secretariat

Organization

Steering Committee

National Coordinators

ICSWSE **N**

Publications

Books

Proceedings

Presentations on this site **N**

Presentations on other sites **N**

Video lectures **N**

Newsletter Archive

Documents

Projects

Instrument Projects

Instrument Leaders

ISWI instrument distribution **N**

ISWI instrument Web-sites **N**

Participating Countries

ISWI Space Science Training

Societal Impacts Workshop **N**

CSSTE Training **N**

News&Blogs

Latest ISWI Newsletter

Just Published

changes to this site **N**

The number of sub-sections increased by 12.
New ones are marked with **N**

The screenshot shows the ISWI website interface. At the top, there is a navigation menu with buttons for 'About', 'Organization', 'Projects', 'Meetings', 'Publications', 'News&Blogs', and 'HOME'. Below the menu is a sidebar with a list of links: 'Objectives', 'Sponsors', 'Space weather?', 'About this site', 'Workshop's sites', 'National ISWI Sites' (highlighted in yellow), 'Space Weather Sites', 'Space Weather forecast', 'Space Weather in media', and 'Logos'. The main content area is titled 'National WEB SITES' and features a preview of the 'International Space Weather Initiative (ISWI) - Belgian node' website. This preview includes the ISWI logo, the text 'International Space Weather Initiative (ISWI) Belgian node', and a yellow box containing the text: 'SWIFF EC- FP7 Project: SWIFF - Space Weather Integrated Forecasting Framework: This EC-funded FP7 aims at producing the next generation models and codes for serious real-time forecasting'. Below this, there is a section for 'International Space Weather Initiative (ISWI) - Germany (click [German flag])', followed by a preview of the German website. The German website preview shows the header 'AEF-EV.', a search bar, and a main heading 'International Space Weather Initiative (ISWI) - Germany' with the ISWI logo and introductory text.

National ISWI Sites: Links to national Web sites devoted to ISWI are in this sub-section

ICSWSE: sub-section devoted to "International Center for Space Weather Science and Education" created from Japan in 2012.

Navigation: About | Organization | Projects | Meetings | Publications | News&Blogs | HOME

PREFACE

The history of UNBSSI: United Nations Basic Space Science Initiative


九州大学
KYUSHU UNIVERSITY

Organization

- Secretariat
- Organization
- Steering Committee
- National Coordinators
- ICSWSE**

ICSWSE is based at Kyushu University, Fukuoka, Japan. In Japanese shall pronounce "Iku Sei"



Background

The history of this new center starts at a point about 20 years ago with the start of UNBSSI: **United Nations Basic Space Science Initiative (1991-2012)**.

It was initiated by the United Nations as a long-term effort for the development of astronomy and space science through regional and international cooperation. It covers an active transfer of technology and knowledge, and UNBSSI emphasizes the role of education on a worldwide basis, particularly in developing nations. To address the status of astronomy in Asia and the Pacific, Latin America and the Caribbean, Africa, and Western Asia, a series of workshops on Basic Space Science (BSS) was carried out between 1991 and 2004 in the following countries: India (1991), Costa Rica and Colombia (1992), Nigeria (1993), Egypt (1994), Sri Lanka (1995), Germany (1996), Honduras (1997), Jordan (1999), France (2000), Mauritius (2001), Argentina (2002), and China (2004). Detailed information on these workshops is available at: (<http://neutrino.aquaphoenix.com/un-esa/>).

[About](#)
[Organization](#)
[Projects](#)
[Meetings](#)
[Publications](#)
[News&Blogs](#)
[HOME](#)

[Instrument Projects](#)

CSSTE Training: Centers for Space Science and Technology Education:
 Six centers are created under the auspices of the UN. *Links to their Web sites, and Google Maps to their location are in this sub-section*

[ISWI Space Science Training](#)
[Societal Impacts Workshop](#)
 [CSSTE Training](#)

ASIA

Centre for Space Science and Technology Education in the Asia and Pacific region in India in English Language (CSSTEAP)	Centre for Space Science and Technology Education for Western Asia in Amman, Jordan opened on May 30, 2012 press release
WEB page http://www.cssteap.org/ Search with Google Maps	WEB page Search with Google Maps

Africa

Centre for Space Science and Technology Education in Nigeria in English Language (ARCSSTE-E)	African Centre for Space Science and Technology in Morocco in French Language (CRASTE-LF)
WEB page http://www.arcsstee.org/ Search with Google Maps	WEB page http://www.enssup.gov.ma/craste/ Search with Google Maps

About	Organization	Projects	Meetings	Publications	News&Blogs	HOME
		Instrument Projects				
CONVENER'S NOTE		Instrument Leaders				read more
at that Workshop were presented		ISWI instrument distribution				See list of reports
		ISWI instrument Web-sites				
Participants		Participating Countries				Look at
Report on Discussion and Action		ISWI Space Science Training				
		Societal Impacts Workshop				
		CSSTE Training			UOS	

THREE VARIETIES OF SPACE WEATHER

III. "SPACE WEATHER" SOLAR WIND: thermal plasma, energetic electrons

We have limited forecasting ability that is dependent on the nature of the particular event.

Space Weather Effects Summary

- Flares (warning time is zero; 10 min to 2 days)
 - EUV swells the atmosphere – increased drag, space situational awareness
 - Ionospheric effects can hamper or deny communications and navigation signals
 - Radiation can damage or destroy satellite electronics and solar cells
- CMEs (warning time is 1.5 to 4 days)
 - Induced currents can cause blackouts, enhance pipeline corrosion

“Space Weather **Societal Impacts Workshop** and Seminar”: *Agenda and presentations shown at this Seminar* at the COPUOS are in this sub-section are

About **Organization** **Projects** **Meetings** **Publications** **News&Blogs** **HOME**

October 17-21, 2011, ADUJ...

Jouseph M. Davila **The Solar Corona** ([part1](#), [part2](#))

Nat Gopalswamy **Solar Radio Observations & Space** ([part1](#), [part2](#))

Phillip Chamberlin **The Solar Dynamics Observatory, its Contributions to Space Weather** ([part1](#), [part2](#))

Yihua Zheng **NASA/GSFC Space Weather Services enabled by CCMC** ([part1](#), [part2](#))

Publications menu items:
Books
E-Books
Presentations on this site
Proceedings
Documents
UNOOSA documents
Video lectures (checked)
ISWI related Videos
ISWI list of references
Newsletter Archive

Video thumbnails:
1. The Solar Dynamics Observatory and its Contributions to Space Weather - Phillip C. Chamberlin@NASA.gov
2. NASA GSFC Space Weather Services Enabled by CCMC

Video lectures: regarding Space Weather, each lasting around 35 min,

The screenshot shows a website interface with a navigation menu at the top containing 'About', 'Organization', 'Projects', 'Meetings', 'Publications', 'News&Blogs', and 'HOME'. The 'News&Blogs' menu is open, showing 'Latest ISWI Newsletter', 'Just Published', and 'changes to this site' (highlighted in yellow). The main content area features a large red cursive title 'What's New on our' and a sub-header 'Local time of the site is: Sun Sep 15 10:31:15 2013'. Below this, it lists 'Pages that were updated in the last week' with three items: 1. 'Calendar of ISWI Events in 2013' updated on Wed Sep 11 15:31:44 2013; 2. 'Newsletter No095/2013 International Space Weather Initiative' updated on Thu Sep 12 12:13:58 2013; 3. 'Newsletter No096/2013 International Space Weather Initiative' updated on Fri Sep 13 14:08:42 2013. A yellow box highlights the text: 'Changes to this site: Everyone can see what has been changed on the site in the last day, week or month'. Below this, item 6. 'Latest News Page' is listed as updated on Thu Sep 12 13:37:42 2013. A summary states '6 pages were updated on this site in the last week (Sun Sep 8 03:00:00 2013 till now)'. At the bottom, there is a button labeled 'Another Search'.

The screenshot shows the ISWI website with a navigation menu at the top containing: About, Organization, Projects, Meetings, Publications, News&Blogs, and HOME. Below the menu, the page title is "Presentations located on external websites". There are three main content blocks highlighted in yellow:

- Heliophysics Summer School**
Special Opportunity for Physics Students & Physics Teachers
University Corporation for Atmospheric Research
2007 - 2012 Presentations [Sorted by Speaker](#)
2007 - 2012 Presentations [Sorted by Year](#)
- Frontiers of Modern Physics**
Seminar for young scientists, postgraduate students and undergraduates
Yerevan Physics Institute (YerPhi)
Levon Pogosian, Simon Fraser **Our universe: facts & speculations**
Christian Spiering, Neutrino Astronomy: a new window to the Universe
61 893KB PowerPoint 2007 file, 96 slides
- Scientific and Technical Subcommittee: 2013 Fiftieth session Vienna, Austria, 11-22 February 2013** (click here to get access to 64 presentations)

At the bottom of the page, there is a copyright notice: © ISWI 2013 all rights reserved, Last modified 08/27/2013 14:34:26. Below that, a footer line reads: "UN/ESA/NASA/JAXA Workshops Basic Space Science International Heliophysical Year 2007 International Space Weather Initiative THE WHOLE SHEFRANG 1989-1999-2009" Hans

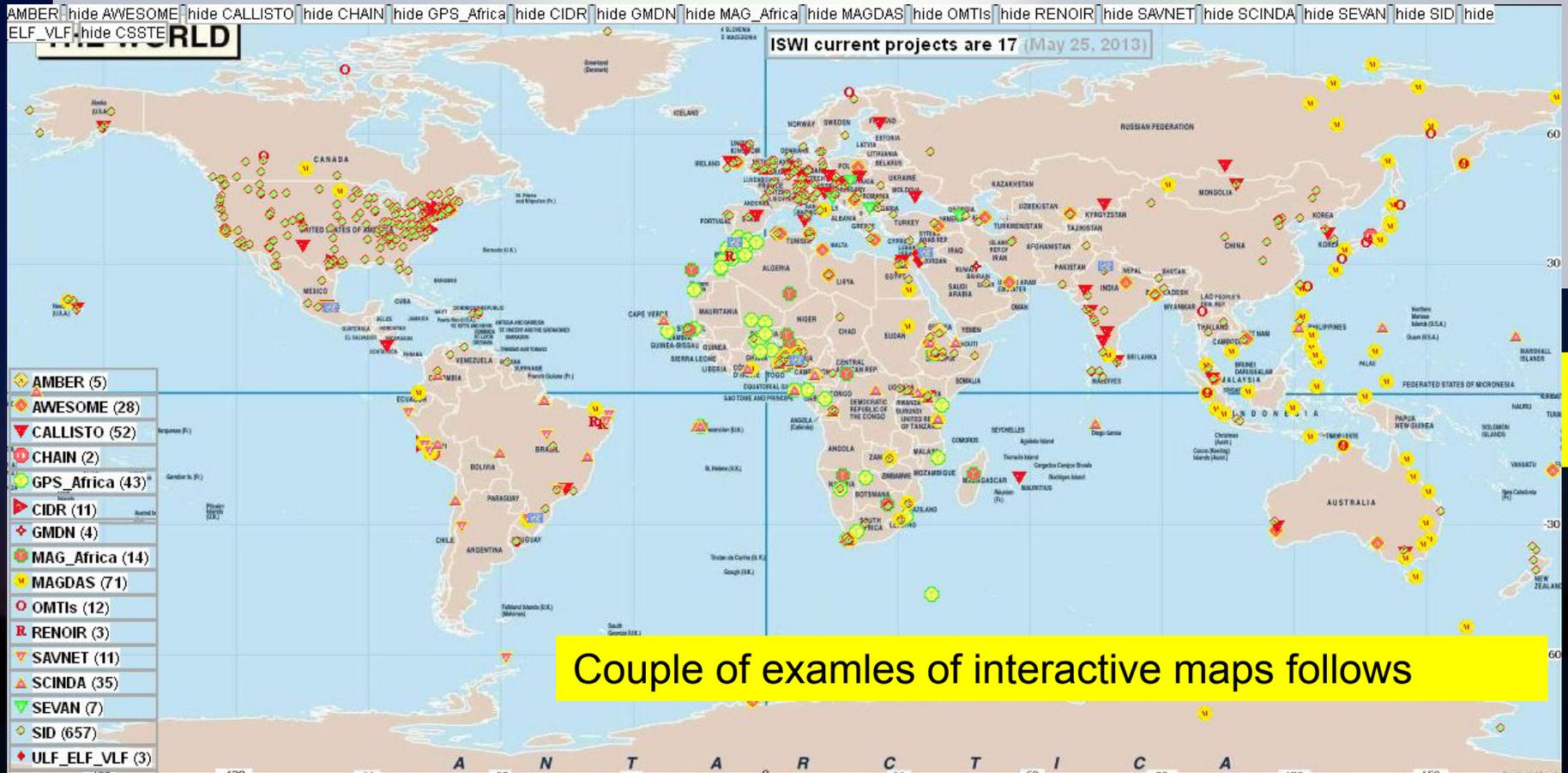
We split up **Presentations** into two parts:

- Located on external websites (125 presentations)
- Located on ISWI site (over 170 presentations)

Description of the upgrades made to the end of 2012

Summary of one of the frequently visited sub-sections

ISWI instrument distribution is the sub-section which *best shows the global character of ISWI*



Description of the upgrades made to the end of 2012

First example CALLISTO area – 53 instruments



Description of the upgrades made to the end of 2012

Second example MAGDAS area – 71 instruments



Description of the upgrades made in 2013

About

Organization

Projects

Meetings

Publications

News&Blogs

HOME

By the end of 2012 the site "www.iswi-secretariat.org" was oriented to persons related to measurements from ground (so-called Instrumental Areas).

Studies of "Space Weather" include: ground based and satellite measurements, theoretical studies and computer modeling.

We know that the topic "Space Weather" will remain on the agenda of UNOOSA

This encouraged us to add several new sub-sections. Our goals are:

1 / to show the scientific achievements of ISWI-community in terms of generally accepted scientific indicators (number of publications)

2/ to inform our ISWI-community for surveys **not within** existing Instrumental Areas

3/ to inform about the social impact of SW: newspaper articles, movies, etc.

The **Latest News** window is at the bottom with scrolling text.

Latest News: to stop scrolling text, move the mouse over it

vandenberg Air Force Base, Calif (click [here](#))

20 June 2013 Has been increased a number of tools installed in Kenya (click [here](#)). We thank Dr. Paul Baki, National Coordinator for Kenya

08 June 2013 **JOB OPENING: JAXA International Top Young Fellowship in FY2013** application deadline is 31 August 2013, (more [ISWI Newsletter - Vol.5 No.68](#)), for further details (click [here](#) and [here](#)), (online Application: [here](#))

Description of the upgrades made in 2013

The number of sub-sections increased by 7.
New ones are marked in yellow

MAP of

WWW.ISWI-SECRETARIAT.ORG

About

Objectives

History

Sponsors

Space weather ? **N**

About this site

Workshop's sites

National ISWI Sites

Space Weather Sites **N**

Space Weather in media **N**

Logos

Organization

Secretariat

Organization

Steering Committee

National Coordinators

ICSWSE

Meetings

ISWI-UN Workshops

Calendar of Events

ISWI Events

Projects

Instrument Projects

Instrument Leaders

ISWI instrument distribution

ISWI instrument Web-sites

Participating Countries

ISWI Space Science Training

Societal Impacts Workshop

CSSTE Training

News&Blogs

Latest ISWI Newsletter

Just Published

changes to this site

Publications

Books

E-Books **N**

Presentations on this site

Presentations on other sites

Proceedings

Documents

UNOOSA documents **N**

Video lectures

ISWI related Videos **N**

ISWI list of references **N**

Newsletter Archive

HOME

Reload

This Site Map

First Page

Description of the upgrades made in 2013

ISWI list of references: The list contains only the titles that are indexed by SCOPUS or ADS

- heliospheric structure during solar-minimum conditions using a 3D time-dependent reconstruction solar-wind model and STELab IPS observations** (2010) AIP Conference Proceedings, 1216, pp. 355-358. Conference Paper
218. *Bisi, Mario M., Jackson, B.V., Clover, J.M., Hick, P.P., Buffington, A., Tokumaru, M.* **A Summary of 3-D Reconstructions of the Whole Heliosphere Interval and Comparison with in-Ecliptic Solar Wind Measurements from ST** Volume 15, p. 480-483 (
219. *Bertoni, F.C.P., Raulin, J.-* **solar activity effects in** Proceedings, 1286, pp.
220. *Bertoni, Fernando C.P., Ra...* **SAVNET: A ground-based facility for studying ionospheric, atmospheric and natural phenomena** (2010) Radio Science Bulletin, 334, 43-48, 2010 (ADS)
221. *Babayev, E.S.* **Space weather awesome VLF monitoring in Azerbaijani site and international cooperation** (2010) 61st International Astronautical Congress 2010, IAC 2010, 5, pp. 3853-3858. Conference Paper
222. *Braga, Carlos Roberto, Dal Lago, Alisson, Schuch, Nelson Jorge, da Silva, Marlos, Echer, Ezequiel, Demitrio Gonzalez Alarcon, Walter, Munakata, Kazuoki, Kuwabara, Takao, Kato, Chihiro, Bieber, John W.* **Cosmic ray modulation by interplanetary disturbances** (2010) 38th COSPAR Scientific Assembly. Held 18-15 July 2010, in Bremen, Germany, p.11 (ADS)
223. *Basu, S., Basu, S., MacKenzie, E., Bridgwood, C., Valladares, C.E., Groves, K.M., Carrano, C.* **Specification of the occurrence of equatorial ionospheric scintillations during the main phase of large magnetic storms within solar cycle 23** (2010) Radio Science, 45 (5), art. no. RS5009, Cited 4 times. Article
224. *A.Fushishita, T.Narumi, C.Kato, S.Yasue, K.Munakata, Y.Okazaki, T.Kuwabara, J.W.Bieber, P.Evenson, M.R.Da Silva, A.Dal Lago, N.J.Schuch, M.Tokumaru, M.L.Duldig, J.E.Humble, I.Sabbah, J.Kota* **Drift effects and the average features of cosmic ray density gradient in CIRs during successive two solar minimum periods** (2010) Advances in Geosciences, 21, 199-210 (ADS) doi: [10.1142/9789812838209_0016](https://doi.org/10.1142/9789812838209_0016)
225. *Adewale, A.O., Oyeyemi, E.O., Ofuase, U.D.* **Comparison between observed ionospheric foF2 and IRI-2001 predictions over periods of severe geomagnetic activities at Grahamstown, South Africa** (2010) Advances in Space Research, 45 (3), pp. 368-373. Cited 2 times. Article

It shows the scientific achievements of ISWI-community in terms of generally accepted scientific indicators (number of publications is more than 220)

2009

Description of the upgrades made in 2013

From the **Documents** you can access all *official UN documents concerning the ISWI.*

United Nations A/AC.105/1030



General Assembly

Distr.: General
16 November 2012
Original: English

Committee on the Peaceful
Uses of Outer Space

**Report on the United Nations/Ecuador
Workshop on the International Space Weather In
(Quito, 8-12 October 2012)**

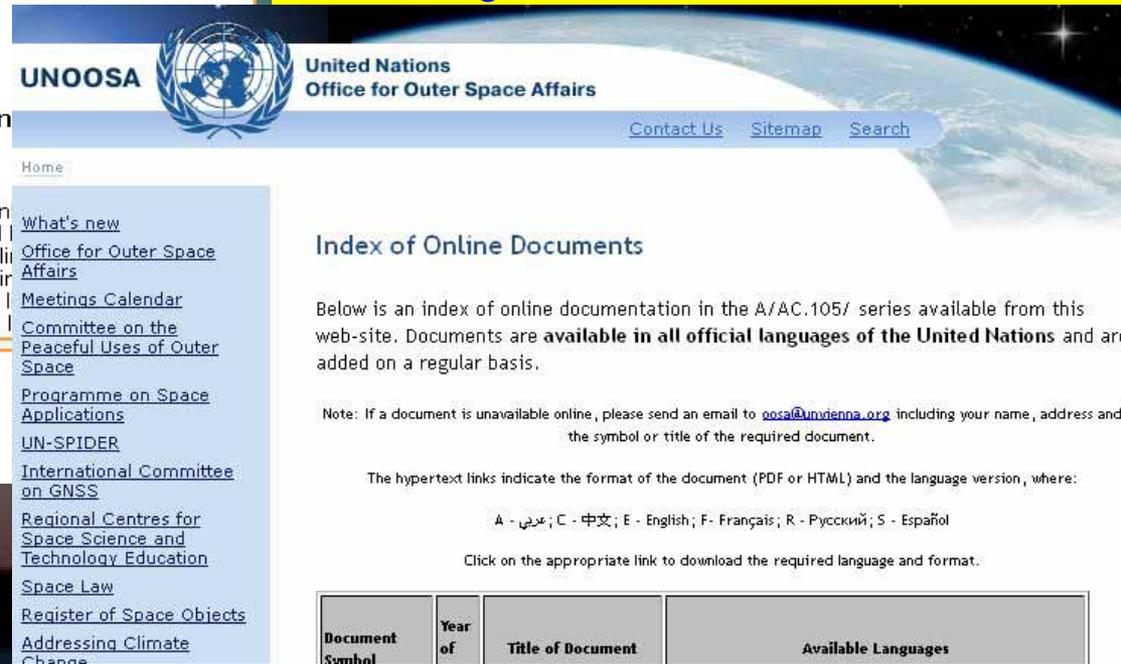
download the Original in English:(click )

- ✓ [Arabic](#) (external link)
- ✓ [Chinese](#) (external link)
- ✓ [English](#) (external link)
- ✓ [French](#) (external link)
- ✓ [Russian](#) (external link)
- ✓ [Spanish](#) (external link)

QUITO ISWI RESOLUTION

Third UN/Ecuador Workshop on ISWI,
October 8-12, 2012, Quito, Republic of Ecuador

From the **UNOOSA Documents** section you can access *all official UNOOSA documents*, including those concerning the ISWI.



UNOOSA United Nations Office for Outer Space Affairs

[Contact Us](#) [Sitemap](#) [Search](#)

Home

- What's new
- [Office for Outer Space Affairs](#)
- [Meetings Calendar](#)
- [Committee on the Peaceful Uses of Outer Space](#)
- [Programme on Space Applications](#)
- [UN-SPIDER](#)
- [International Committee on GNSS](#)
- [Regional Centres for Space Science and Technology Education](#)
- [Space Law](#)
- [Register of Space Objects](#)
- [Addressing Climate Change](#)

Index of Online Documents

Below is an index of online documentation in the A/AC.105/ series available from this web-site. Documents are **available in all official languages of the United Nations** and are added on a regular basis.

Note: If a document is unavailable online, please send an email to ososa@unvienna.org including your name, address and the symbol or title of the required document.

The hypertext links indicate the format of the document (PDF or HTML) and the language version, where:

A - عربي; C - 中文; E - English; F - Français; R - Русский; S - Español

Click on the appropriate link to download the required language and format.

Document Symbol	Year of	Title of Document	Available Languages
-----------------	---------	-------------------	---------------------

Description of the upgrades made in 2013

4 sub-sections are oriented to the general public:

The first two of them are:

1. **Space weather ?** *The definition of "Space Weather"*, borrowed from [Wikipedia](#)

2. **Space Weather in media** *Full text of several articles* published by CNN, *Washington Post*, *NASA Science*, *IAU*, etc.

Space Weather in media

13 July 2013 *Brad Plumer* **When space weather attacks!** in *The Washington Post* [here](#) or view from our site (click ) 768 KB pdf, 10 pages,

09 March 2013 **Studying Earth's protective radiation belts** Posted on March 9, 2013 by CNN. [here](#)

01 March 2013 *Dr. Tony Phillips* "**Solar Cycle Update: Twin Peaks?**" published in **NASA Science, Science News** [here](#)

14 February 2013 *Dr. Tony Phillips* **The UN Braces for Stormy Space Weather** published in **NASA Science, Science News** [here](#)

29 August 2012 *Dr Nat Gopalswamy*, **A Tell-Tale Sign of a Wimpy Solar Cycle:** published by IAU in 2012. (click )

24 April 2012 *Karen C. Fox*, **ISWI: Global Space Weather Science** published by NASA. (click [here](#))

Description of the upgrades made in 2013

4 sub-sections oriented to general public:

The third in the list is:

3. ISWI related Videos

several from 2 to 20 min. videos, borrowed from a variety of sources

- **Attack of the Sun** (look)
- **World Space Observatory-Ultraviolet - WSO-UV** (look a trailer)
- **NASA | SDO: Three Years of Sun in Three Minutes** (look)
- **SDO Solar Dynamics Observatory Year 2 (2011-2012)** (look)
- Solar Cycle Update: **"Twin Peaks?"** ScienceCasts: Solar Max Double Peaked (look)
- Video of **Plasma Rain** on Sun Captured by NASA (look)

World Space Observatory-Ultraviolet - WSO-UV is scheduled to be launched in 2016



Description: UNBSSI pursued in the period of time from 1997 to 2005 a satellite project "**World Space Observatory/ultraviolet**" to be implemented by the Russian Space Agency and European partners. This happened long time ago. However, since than, WSO/UV has been developed by Russia: <http://wso.inasan.ru/> By its potential, the **WSO-UV mission** is similar to the **Hubble Space Telescope (HST)**, though it exceeds HST in spectroscopic capabilities.

Description of the upgrades made in 2013

The fourth is:

4 sub-sections oriented to general public:

4. E-Books

This is the sub-section where one can find **free books** on the **subject Space Weather**.



The screenshot shows the ISWI website interface. At the top, the ISWI logo is on the left, and the text "International Space Weather Initiative" and "ISWI" are centered. Below this is a navigation menu with buttons for "About", "Organization", "Projects", "Meetings", "Publications", "News&Blogs", and "HOME". The main content area features a sub-header "E-Books from this site" with the ISWI logo to its left. Below the sub-header is a list of four e-books:

1. **Global Navigation Satellite Systems**  UNITED NATIONS OFFICE FOR OUTER SPACE AFFAIRS, Education Curriculum
2. **Extreme space weather: impacts on engineered systems and infrastructure**  ROYAL ACADEMY of ENGINEERING
3. **Extreme space weather: impacts on engineered systems and infrastructure**  Summary Report. ROYAL ACADEMY of ENGINEERING
4. **Astrophysics for University Physics Courses**  Don Wentzel Professor Emeritus, University of Maryland
Written for UNITED NATIONS OFFICE FOR OUTER SPACE AFFAIRS

At the bottom of the page, there are "Back" and "Print" buttons.

Books on the same subject can be found also from sub-section **Books**.
However the books are paid there.

Some web resources related to Space Weather

NOAA / Space Weather Prediction Center

WEB address: <http://www.swpc.noaa.gov/alerts/index.html> 

Description:

- Space Weather Alerts
 - Graphical Timelines
 - Rotated Displays and Data
 - Indices and Event Reports
 - Solar Images and Maps

It is our selection of websites related to Space Weather. We do not claim it is comprehensive. Most resources below were reported to the **United Nations/ Austria Symposium on Space Weather 18 - 21 September, 2012, Graz, Austria**

ESA Space Weather Web Server

WEB address: <http://esa-spaceweather.net/> 

Description: Includes:

Definition of Space Weather: "conditions on the Sun and in the solar wind, magnetosphere, ionosphere and thermosphere that can influence the performance and reliability of space-borne and ground-based technological systems and can endanger human life or health."

Who is affected by Space Weather

Current Space Weather

COSPAR Panel on Space Weather

Links to **Other Sources of Current Data and Forecast Information**

ESA - Space Situational Awareness Space Weather - SWE

WEB address: <http://swe.ssa.esa.int/> 

Description: **This is a Web-portal developed by ESA.** Aims: "SWE services will centre around the SWE Data Centre at ESA's Redu station and a new SWE Service Coordination Centre (SSCC), located in Belgium at a location to be defined during the SSA Preparatory Programme. ESCs will act as focal points within the SWE architecture

Current content on the site

File type	Amount of disk storage [MB]	Number of files
HTML pages	3.44	196
HTML pages in NL archive	2.25	427
Adobe PDF	788.	267
Adobe PDF NL archive	1 076.	903
Images	75.20	563
PowerPoint PPS	482.	44
Sound or movie	193.	10
Whole	2 619.89	2 420

What is kept on the site ?

Current content on the site

What is kept in the Newsletter Archive

File type	Amount of disk storage [MB]	Number of files
HTML page	2.25	427
Adobe PDF	1 076.	903
Whole	1 078.25	1 330

Newsletter Archive currently holds **41%** of the disk space on the site.

The number of files in the Newsletter Archive is **55%** of the total number of files.

Statistical data on the Newsletter

The first newsletter was emailed to **288 persons**

The number of subscribers in August 2013 is: **394 persons**.

The number of subscribers has increased with 106 persons, which is **36%**

20	Japan
19	United Kingdom
17	France
15	Brazil
10	India
9	Turkey
9	Australia
9	Russian Federation
8	Malaysia
8	Germany
7	Spain
6	Italy
5	Slovak Republic
5	Argentina

Sub Domain	Number	Domain Description
yahoo.com	50	Yahoo! Inc. Sunnyvale CA
gmail.com	50	Google Inc. Mountain View CA
hotmail.com	6	Microsoft Corporation Redmond
stanford.edu	5	Stanford University Stanford CA
colorado.edu	4	University of Colorado Boulder
mail-list.com	3	Internet Tools, Inc. Houston TX
ymail.com	2	Yahoo! Inc. Sunnyvale CA
sbcglobal.net	2	Internet Services, Inc. Plano TX
cices.org	2	Chartered Institution of Civil Engineering Surveyors

Statistical data on the Newsletter

The number of issues published is as follows:

❖ 2009 - 4

❖ 2010 - 109

❖ 2011 - 110

❖ 2012 - 131

❖ Until the end of August, 2013 they are 90



20 cm

ISWI Newsletter
Hardcopy Archive
(desk drawer of G. Maeda)
Date of this photo 11 Feb. 2012.

2012.02.11

Monitoring on the WEB site



We have two kinds of monitoring:

- 1 / visible to all (ClustrMaps), and
- 2 / visible only to administrator (StatCounter).

Both statistics are made by independent (external) organizations. Respectively they count visitors differently.

Some specifics are shown on the following slides.

ClustrMaps - map of visitors location. This is a publicly available monitor.

ClustrMaps provide an attractive map (and table) of the visits by country. Unfortunately, it updates rarely (on 2-3 months).



- It counts only the number of visitors on the first (front) page of the site.
- A new visit is detected only if more than 12 hours passed after the previous visit (by the same visitor), i.e. within these twelve hours, all visits from one organization shall be counted as one.

Therefore, the number of visitors is underestimated.

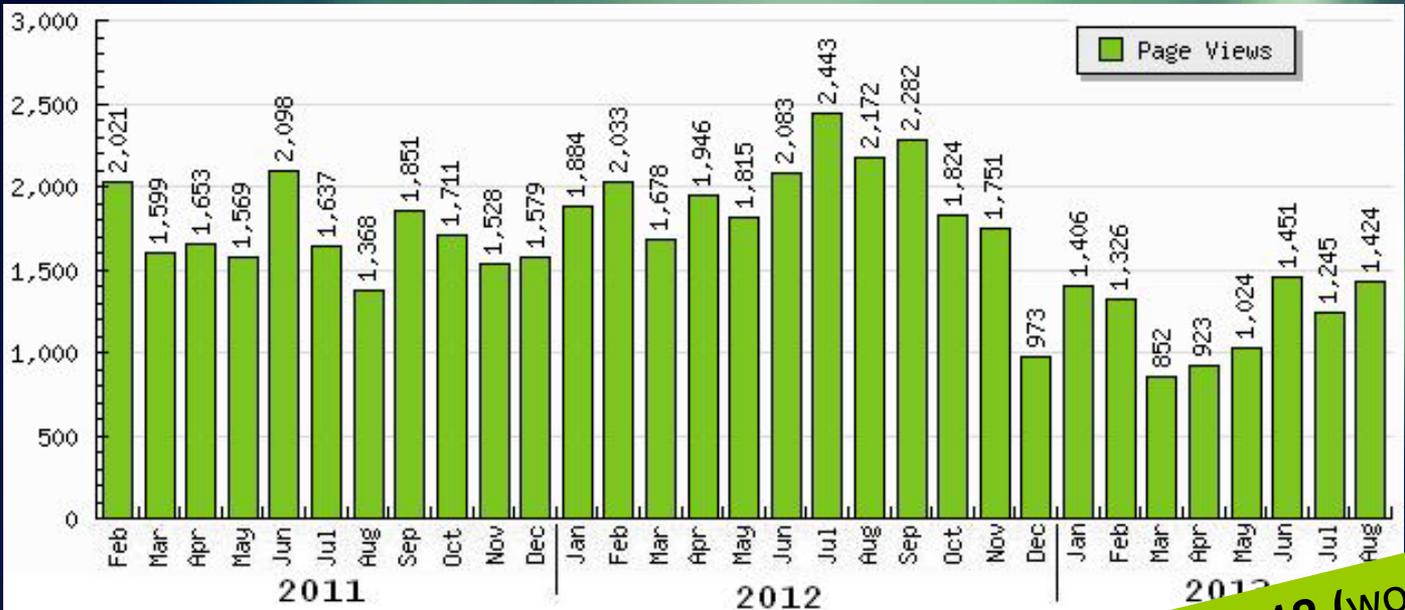
StatCounter – the invisible monitor

- 
- The visitors counted for all pages (few exceptions, e.g. Archived Newsletter)
 - A new visit is detected only if more than 2 hours passed after the previous visit (by the same visitor)
 - Every page counts for itself (page load number)

An example of missed visits:

- ❖ StatCounter counts 25-40 visits per a day
- ❖ ClustrMaps counts approximately from 6 to 10 visits per a day

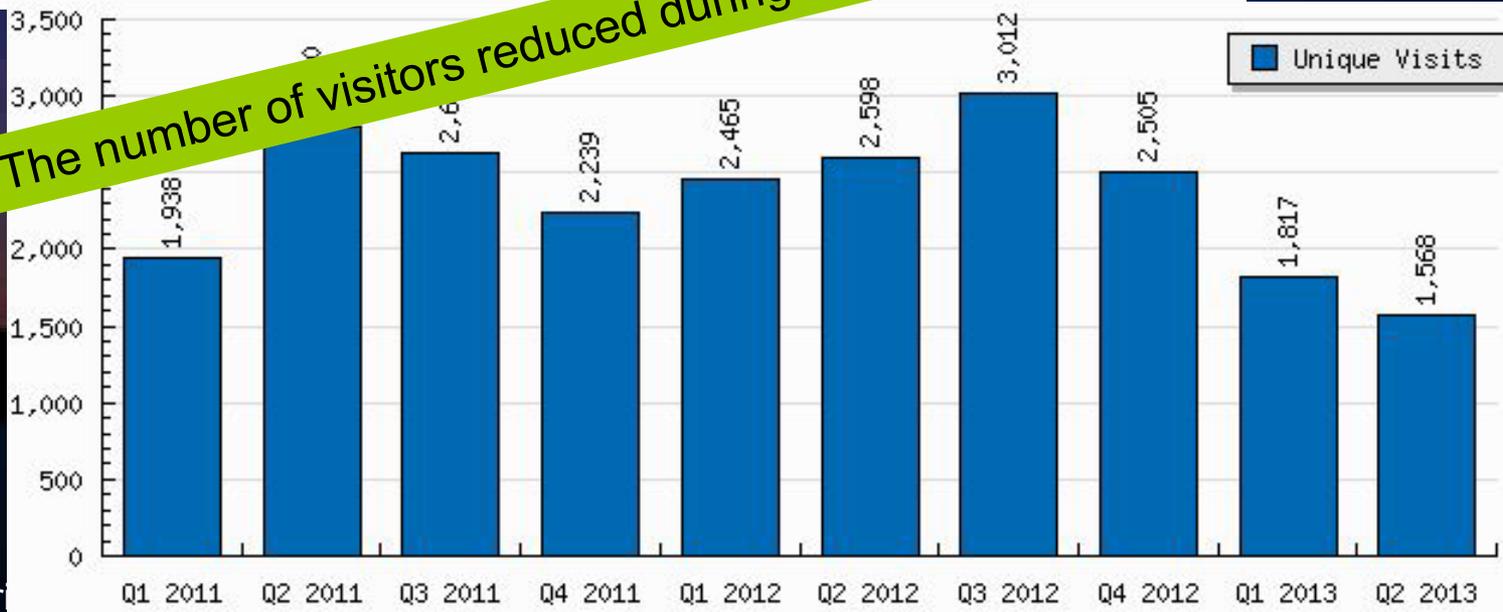
Information StatCounter provides is abundant.
Examples are given in the next slides



The number of visitors decreased after November 2012 (workshop in Ecuador)



The number of visitors reduced during the current year



24 hits	Disposition of ISWI Instruments MAP (May 2013)
21 hits	ISWI Workshops
12 hits	Which pages are updated on web site
9 hits	Calendar of ISWI Events in 2013
8 hits	Objectives of ISWI
7 hits	Disposition of ISWI Instruments (table)
The number of pages, that have been visited more than 2 times, is 20.	
The number of pages, that have been visited less than 3 times, is 30.	
5 hits	ISWI -Secretariat
5 hits	ISWI National Coordinators
5 hits	ISWI Training
5 hits	Newsletter Archive ISWI
5 hits	Real-time S...
4 hits	...at site
4 hits	...ader Addresses
4 hits	ISWI Just Published
4 hits	UN Workshops on IHY and ISWI (links)
3 hits	ISWI -Steering Committee
3 hits	Presentations from 3rd UN/Ecuador Workshop

This list changes every day. Unfortunately the free service does not allow statements for a period exceeding one week

Hits	Download	Section
27	Extreme space weather: impacts on engineered systems and infrastructure	E-Books
22	Extreme space weather: impacts on engineered systems and infrastructure - Summary	E-Books
21	Education Curriculum Global Navigation Satellite Systems	E-Books
16	UN/Ecuador Workshop on ISWI... ABSTRACTS Book	Presentations
11	Report on the UN/Austria Symposium (Graz, Austria, September 2012)	ISWI Events
11	SID developments in Malaysia News Letter Vol. 5 N071	NL Archive
10	Report on ISWI & MAGDAS School on Space Science, 2012, Indonesia	ISWI Training
10	Ivan Dorotovic Solar radio spectrometer CALLISTO in Hurbanovo	Presentations
9	A. M. Mathai, H. J. Haubold A pathway idea for model building	Presentations
8	Nat Gopalswamy, Solar Radio Bursts and Space Weather	Presentations
8	Nat Gopalswamy Universal Heliophysical Processes	Books
7	Resolution of the UN-Ecuador Workshop on the International Space Weather Initiative 2012 October 12, Quito, Ecuador	Documents
6	D. Cabezas et al. CHAIN-Project: Investigation of Solar Active Phenomena Obtained with Flare Monitoring Telescope (FMT)	Presentations
6	Jose Ishitsuka et al. International Collaboration of the CHAIN Project in Peru and Summary of Events Observed with the Flare Monitoring Telescope (FMT) in Peru	Presentations
6	D. Danov, G. Maeda The ISWI Website and the ISWI Newsletter	Presentations

15 documents were downloaded more than 6 times.

More than a hundred documents gather between 2 and 5 downloads

Section "E-Books", established in 2013, gathers 70 downloads

Section "Presentations" is the leader, but it have many more documents.

Summary

Separation of functions between the “ISWI site” and “ISWI Newsletter” turned out to be productive

Site structure, elected in 2009, proved to be successful because:

- It allows easy increasing of the number of sub-sections (19 new sub-sections)

At the beginning **Website** and **Newsletter** were oriented primarily to ISWI participants.

To date we have expanded our target group having:

- **Decision makers** from governments and UN
- **All interested** in the study of **Space Weather**

What will we do in future ?

The screenshot shows the ISWI website homepage. At the top left is the ISWI logo. The main header reads "International Space Weather Initiative" and "ISWI". A navigation menu includes "About", "Organization", "Projects", "Meetings", "Publications", "News&Blogs", and "HOME". A visitor counter shows "10,998 Visitors" from "18 Oct 2009 - 21 Feb 2013". The main content area features a "Good Afternoon. Welcome to: International Space Weather Initiative (ISWI)" message. Below this is a paragraph: "ISWI is a program of international cooperation to advance the space weather science by a combination of instrument deployment, analysis and interpretation of space weather data from the deployed instruments in conjunction with space data, and communicate the results to the public and students." A map of the world is visible in the background. Below the map is another paragraph: "ISWI is a follow-up activity to the successful IHY 2007, but focusing exclusively on space weather." The goal of the ISWI is described as: "The goal of the ISWI is to develop the scientific insight necessary to understand the science to reconstruct and forecast near-Earth space weather. This includes instrumentation, data analysis, modeling, education, training, and public outreach." A sidebar on the left lists various projects and instruments. At the bottom, there is a "Latest News" section with two entries: "28 June 2013 NASA's Interface Region Imaging Spectrograph (IRIS) spacecraft launched at 10:27 p.m. EDT Vandenberg Air Force Base, Calif (click here)" and "08 June 2013 JOB OPENING: JAXA International Top Young Fellowship in FY2013 application deadline is (more ISWI Newsletter - Vol.5, No.68) for further details (click here) and here) (online Application: here)".

ISWI (International Space Weather Initiative) Newsletter

published by *SERC*
(Kyushu University, Japan) under the
auspices of the *United Nations*



The **Newsletter will continue** to be released in the coming years **even after the end of the International Space Weather Initiative.**

- ✓ **Reports for all ISWI instruments** will be published
- ✓ **Reports of ISWI National Coordinators** will be published .
- ✓ **The events** of **Centers for Space Science and Technology Education** and the **International Center for Space Weather Science and Education** **will be followed**

Newsletter

General Guidelines for Material in this newsletter:

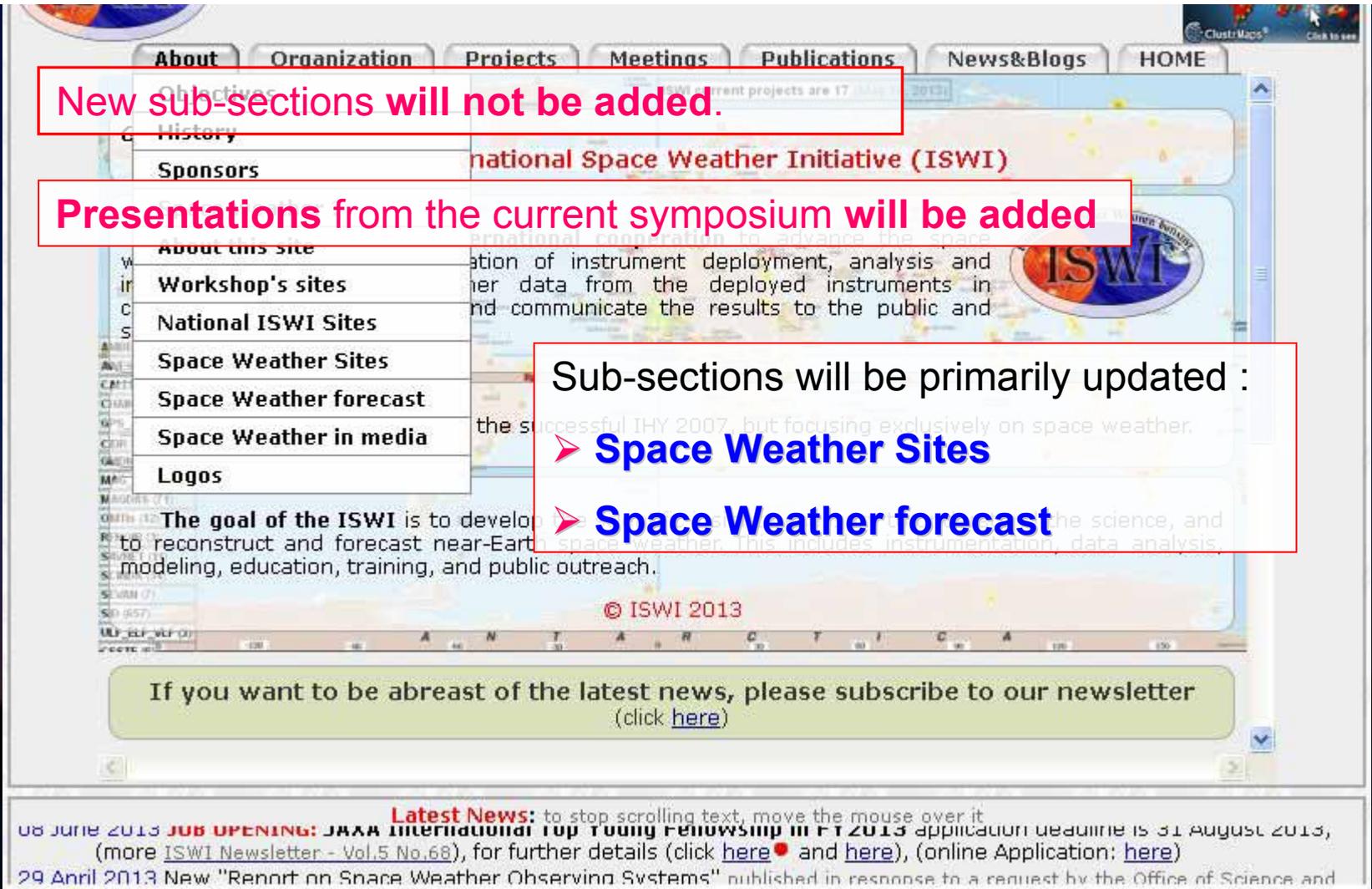
- To be a thoughtful mix of text and photos.
- To be packed into one ADOBE-PDF under 3 MB.
- Each page to be a letter-size or A4.
- Contributors to the work to be listed.
- The creator of the report along with its date to be clearly written on the front page.

published by *SERC*
(Kyushu University, Japan) under the
auspices of the *United Nations*



What will we do in future ?

The site "ISWI-secretariat" (<http://www.iswi-secretariat.org/>) will be updated by the end of next 2014. .





International Space Weather Initiative

ISWI



About Organization Projects Meetings Publications News&Blogs HOM

Good Afternoon. Welcome to:



Thank you for your attention

ISWI is a program of international cooperation to advance the space weather science by combination of instrument deployment, analysis and interpretation of space weather data from the deployed instruments in conjunction with space data, and communicate the results to the public and students. ISWI is a follow-up activity to the successful IHW 2007, but focusing exclusively on space weather.

The goal of the ISWI is to develop the scientific insight necessary to understand the science and to reconstruct and forecast near-Earth space weather. This includes instrumentation, data analysis, modeling, education, training, and public outreach.

ISWI

(International Space Weather Initiative)

Newsletter

published by *SERC*

(Kyushu University, Japan) under the
auspices of the *United Nations*

