

題名 ISWI Newsletter – Vol. 1 No. 4
差出人 George Maeda

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* ISWI Newsletter – Vol. 1 No. 4                               30 December 2009 *
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*           I S W I = International Space Weather Initiative    *
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* This newsletter is published by Professor K. Yumoto          *
* - Director of SERC (www.serc.kyushu-u.ac.jp) at Kyushu University *
* - PI of the MAGDAS Project                                  *
* - Chair of ULTIMA (link near bottom of www.serc.kyushu-u.ac.jp) *
* under a mandate from the ISWI. The ISWI, in turn, is carried out *
* under a mandate from the United Nations and all its member states. *
* The governing body of ISWI and its newsletter is the        *
* "ISWI Steering Committee."                                  *
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* For more information on the ISWI, please visit the ISWI website: *
*           www.iswi-secretariat.org                            *
* (The ISWI website is maintained independently of the ISWI Newsletter.) *
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* The Editor-in-Chief of the ISWI Newsletter is Mr. George Maeda *
* (maeda@serc.kyushu-u.ac.jp). If you wish to contribute a piece to *
* the newsletter, you should write to him.                    *
*                                                                 *
* Views expressed in this newsletter do not necessarily reflect official *
* positions of the ISWI ---- unless expressly stated. This newsletter *
* does not have any fixed release schedule -- it is issued when the need *
* arises. Eventually, it will be archived at some website so that *
* back issues can be accessed.                                  *
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* Attachments will always be kept below 3 MB.                 *
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Attachment:
341 KB pdf --- SID Monitor exhibit at UNOOSA

Dear ISWI Participant:

The attached text and photos were received by myself via Dr Hans Haubold from the following person:

- Ms. Sharafat Gadimova
- Office for Outer Space Affairs
- United Nations
- Vienna International Centre
- A-1400 Vienna, Austria
- Email.: Sharafat.Gadimova@unvienna.org

It appears there is an exhibit area at the Office for Outer Space Affairs in Vienna. The attachment describes one instrument on display. If you have any questions, please contact the above person directly.

Kind regards,
George Maeda
Editor-in-Chief, ISWI Newsletter
Fukuoka, Japan.

Real-time solar activity data are now on display at the UNOOSA exhibit

28 December 2009 - Since 1990, the UN Programme on Space Applications leads the United Nations Basic Space Science Initiative (UNBSSI) by contributing to the international and regional development of astronomy and space science through annual UN/ESA/NASA/JAXA workshops on basic space science, International Heliophysical Year 2007 (IHY 2007), and the International Space Weather Initiative (ISWI). The programme also coordinates the development of IHY/ISWI low-cost, ground-based, world-wide instrument arrays.

One of such instruments - Sudden Ionospheric Disturbance Monitor (SID) - has been recently installed at UNOOSA exhibit to demonstrate how data on solar activity are received and processed in real time.

When energy from a solar flare reaches the Earth, the ionosphere suddenly changes its physical characteristics, most notably in the way it reflects radio waves from terrestrial sources. Travelling with speed of light, the radiation reaches Earth in eight minutes and can disrupt radio communication and navigation system. The SID monitor measures the effect of these sudden disturbances on very low frequency radio wave transmissions and stores the data on an attached PC for uploading to the [Solar Center at Stanford University](#) where analysis and comparison to other sites in the SID worldwide network takes place.

The photos show (i) the panorama view of the permanent space exhibit at the United Nations Office Vienna, (ii) the SID, (iii) the Posters and Monitor demonstrating solar-terrestrial interaction and the operation of the network of SIDs, and (iv) the world-map of distribution of ISWI instruments.

For more information please contact

Ms. Sharafat Gadimova

Office for Outer Space Affairs

United Nations

Vienna International Centre

A-1400 Vienna, Austria

Email.: Sharafat.Gadimova@unvienna.org







Photo of instrumentation

SID

(Sudden Ionospheric Disturbance)

VLF Monitor

This photo received by ISWI Newsletter Office in December of 2009 for worldwide distribution.