* ISWI Newsletter - Vol. 3 No. 98 02 November 2011 * * * I S W I = International Space Weather Initiative * * * (www.iswi-secretariat.org) * * * * Publisher: Professor K. Yumoto, SERC, Kyushu University, Japan * * Editor-in-Chief: Mr. George Maeda, SERC (maeda[at]serc.kyushu-u.ac.jp)* Archive location: www.iswi-secretariat.org (maintained by Bulgaria) * * [click on "Publication" tab, then on "Newsletter Archive"] * * Caveat: Under the Ground Rules of ISWI, if you use any material from * * the ISWI Newsletter or Website, however minor it may seem * to you, you must give proper credit to the original source. * *

Attachment(s):

(1) "Haubold_UNBSSI_1991_2012_short", 2 MB pdf, 19 pages.

Re: A very brief summary of UNBSSI (1991-2012)

Dear ISWI Participant:

I attach it.

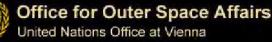
It came to me courtesy of Prof. Hans Haubold of UNOOSA, who asks if others could also comment on this long-term initiative. If you have contributed to UNBSSI during the past 20 years, please let us know what you think. As editor, I will be happy to circulate your comments using this newsletter.

In particular, it would be helpful if we could hear from the UN-affiliated centers. What was done? What is being done? and, What needs to be done? Put into words what is on your mind.

Sincerely and respectfully yours,

- : George Maeda
- : The Editor
- : ISWI Newsletter







UN BASIC SPACE SCIENCE INITIATIVE

Basic Space Science International Heliophysical Year 2007 International Space Weather Initiative

United Nations Office for Outer Space Affairs Vienna International Centre, Vienna, Austria

Information Dissemination: 193 UNDP Offices, Permanent Missions BSS Workshops 1991-2004

Telescopes, Planetariums IHY Workshops 2005-2009

Instrument arrays ISWI Workshops 2010-2012

Array of arrays UN-affiliated Regional Centres for Space Science and Technology Education (CMS India, CBSS Nigeria)



This pdf circulated in Volume 3, Number 98, on 2 November 2011.





UN INFORMATION DISSEMINATION NETWORK

UN Development Programme (UNDP) Offices Permanent Missions of 193 UN Member States



UNDP regional groupings ESCAP, ECLAC, ESCWA, ECA, ECE





WORKSHOPS BASIC SPACE SCIENCE (BSS)

UN/ESA Workshops on Basic Space Science





Regional:

India, Costa Rica, Colombia, Nigeria, Egypt

Inauguration of optical telescopes: Sri Lanka, Honduras, Jordan

International: Germany, France, Mauritius, Argentina

Review of all workshops: P.R. China







BSS TRIPOD: Telescope, Observing, Teaching

Government of Japan (NAOJ):

Japanese Cultural Grant Aid 45cm reflecting telescope CCD & computer equipment Building/ dome/ maintenance provided by local institution Singapore 1987, Indonesia 1988, Thailand 1989, Sri Lanka 1995, Paraguay 1999, The Philippines 2000, Chile 2001, Mongolia 2008, India?



Sri Lanka 1996

American Association of Variable Star Observers (AAVSO):

Hands-on Astrophysics Setting Up a Variable Star Observing Programme Astronomy, mathematics, computer science







BSS TRIPOD: Telescope, Observing, Teaching

International Astronomical Union (IAU):

Astrophysics for University Physics Courses

Study/ comparison of university education curricula in developing countries Elementary calculus Classical mechanics Statistical mechanics Thermodynamics applied to astronomy Advanced teaching material recommended: K.R. LANG / J. BENNET et al.







Planetariums

Planetarium AChallenge forEducators



Myanmar

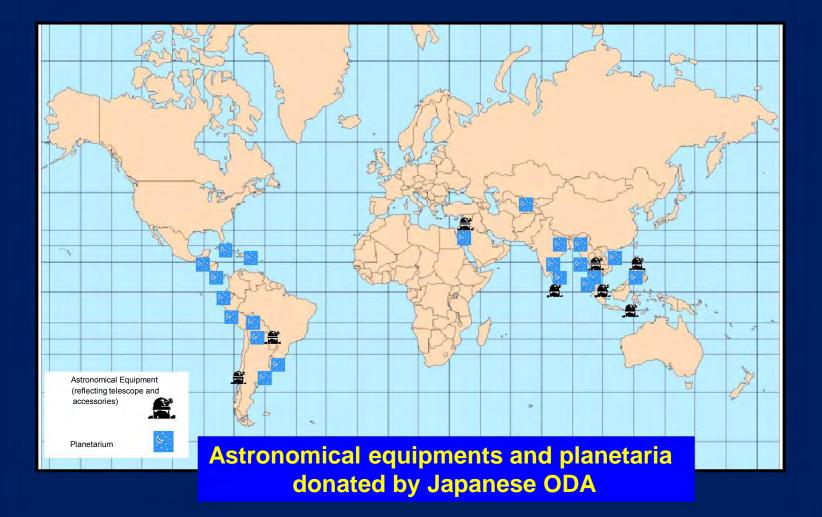
Peru

Government of Japan (NAOJ)

Host country UNOOSA

Myanmar, Jordan, Malaysia, The Philippines, India, Argentina, Uruguay, Vietnam, Thailand, Sri Lanka, India, Uzbekistan, Paraguay, Ecuador, Honduras, Costa Rica, Peru, Bolivia, Cuba, El Salvador Viet Nam

Over 25 years of commitments by Japanese Government









Final Report BSS

-\$-

Developing Basic Space Science World-Wide

Developing Basic Space Science World-Wide

A Decade of UN/ESA Workshops

er xp: 11-11-2003 13:15 Paginal

Willem Wamsteker, Rudolf Albrecht and Hans J. Haubold (Eds.)

When the first United Network-Duropsen Speek Agency Workshop for Dasi: Dpace Speek Series was planned to be held in Bangaione, India (1991) on the invitation of ISRO, we of those involved cool expect that a unique forum was going to be contated for soleritific dislogue between coefficient from developing and industributed nations. As the femat of the first workshop was and purpose left here with time for presentations, working sessions, and pleased workshop, this sock bridge beginner the histories advolves. He plans which have base developed from few parts decade in the different nations, and the results which have materialized during this line in different developing nations. Italians to active for development agencies to be assisted in ways to find more different loads for the application of newlightered at The last section of the nonk contains aguide for teachers in native.

Excepting described in this took is the "exit of a may collective effort from all involved in all UNESA workshops. The includa support from the participants has helped significantly to indimentations of the accomplishment Second all the book. Rather than organizing his book in a subset of view way, it is essentially organized according to the common economic regions of the work, as defined by the thirds hollow (Arkow, Alas and the Parkin, Curyen, Lank America and the Carboan, Weisem Asia). This silows better recognition of the importance of a regional (and at times; global approach to bisic space science for the developing safetions world wide. It highlight very spacific admitter linesdigations which have been completed associativity in the valous developing nations. The book supplements the published ten volumes of workshop proposedings containing scientific parest presented in the voltshop.

Information on the vorkshops is also available at http://www.seas.columbia.edu~ah207/un-esa/index.htm http://www.cosa.unvienns.org/SAP/basiindex.html http://www.cosa.unvienns.org/SAP/bentres/centres.html

WWW.WKAP.NL KLUWER ACADEMIC PUBLISHERS Developing Basic Space Science World-Wide A Decade of UN/ESA Workshops

> Edited by Willem Wamsteker, Rudolf Albrecht Hans J. Haubold Kluwer Academic Publishers





WORKSHOPS INTERNATIONAL HELIOPHYSICAL YEAR 2007 (IHY)

1st 2005 UAE

Instrument providers: Japan, USA, France, Armenia, Brazil, Switzerland and hosts: > 100 countries Coordinated investigation programmes Education and outreach 2nd 2006 India

3rd 2007 Japan

4th 2008 Bulgaria

5th 2009 Republic of Korea







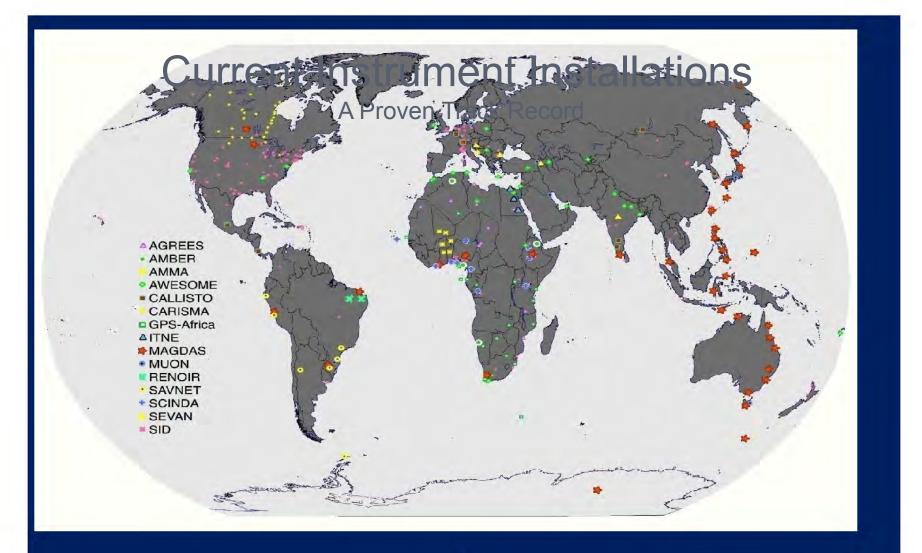
IHY TRIPOD: Instrument Array, Data, Teaching

Since 2005, deploying small inexpensive instruments such as magnetometers, radio antennas, GPS receivers, particle detectors around the world to make global measurements of ionospheric, magnetospheric, and heliospheric phenomena

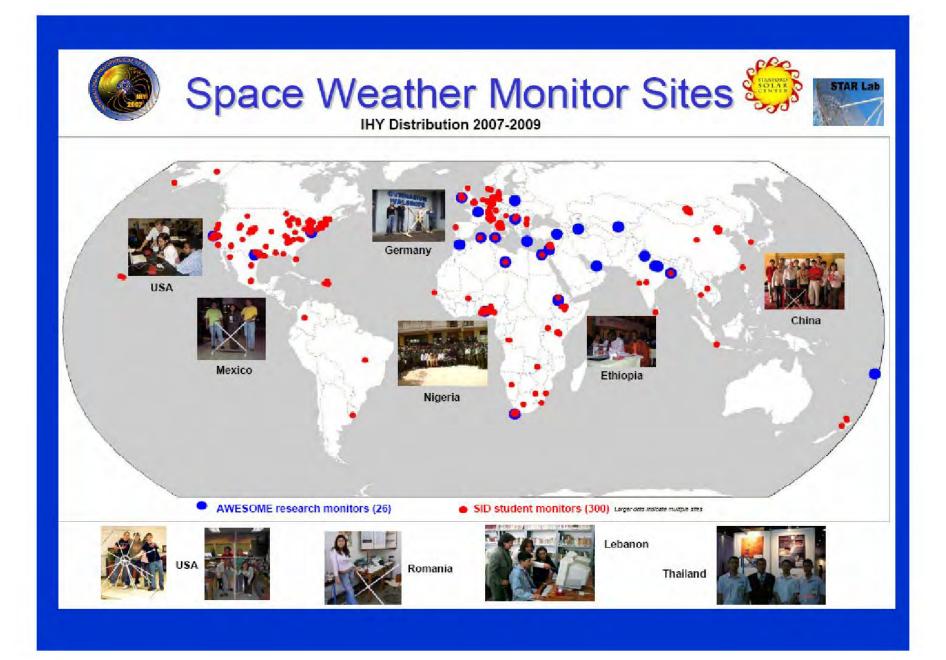
Partnership between instrument providers and instrument host nations. Provision of instrumentation by PI Host institution makes available manpower, facilities, and operational support

Data taking, sharing, analysis, publication

Teaching space science at university level utilizing data



This model for developing instrument networks was proven during the IHY









Studies in Space Policy

Final Report IHY

Studies in Space Policy

B. J. Thompson - N. Gopalswamy J. M. Davila - H. J. Haubold Editors Putting the "I" in IHY The United Nations Report for the International **Heliophysical Year 2007** Studies in Space Policy, Vol. 3

This book about the international aspects and achievements of the "International Heliophysical Year (IHY) 2007" can be reparded as a compendium of the fertile impacts of conducting research in this field. The main focus; as the title impli cates, is the international cooperation, which has emerged from this grasscoots nitiative. North and South, industrialized and developing countries have been coordinating their efforts and have been learning from each other in a mutual partnership under a joint understanding of sharing the scientific benefits. Through s-border networks have been created and scientific as well as cultura exchange took place.

Another focus of the book shows, how much astronomy contributes to the basis of knowledge society as today's concept for mastering the future. Heliophysics has been and will be attracting large numbers of young people to enter an education and career in science and engineering. Such attractions we desperately need in all countries around the world, and we have to be glad about initiatives like IHY, which are successful in raising awareness, interest and fascination.

ISSN 1868-5307 ISBN 978-3-211-99179-4



Thompson et al. Eds

 \square

Putting the "I" in IHY

EBP

B. J. Thompson N. Gopalswamy Editors

J.M. Davila H.J. Haubold

Putting the "I" in IHY

The United Nations Report for the International Heliophysical Year 2007



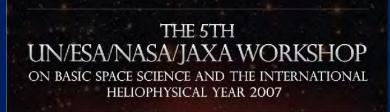


D SpringerWienNewYork









22~25 September 2009 HYATT REGENCY JEJU IN KOREA

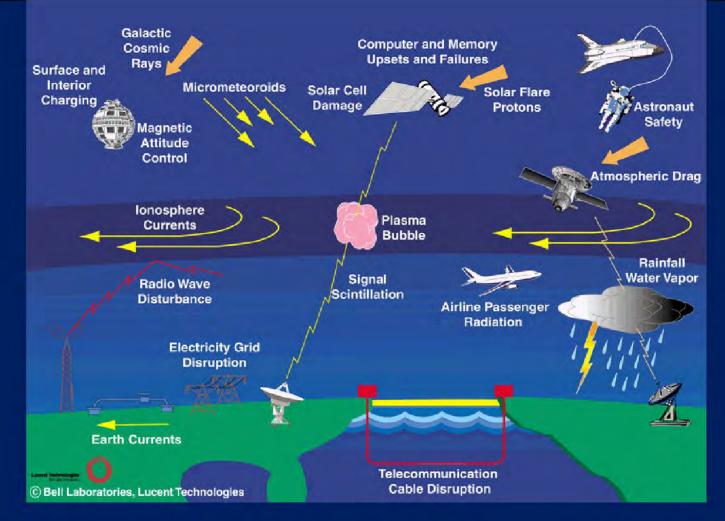
opics

Fundamental Physics
Astronomy and Astrophysics
Solar-terrestrial Interaction and its Influence on Terrestrial Climate
Planetary and Atmospheric Studies
Origin of Life and Exo-biology

Hosted by Korea Astronomy and Space Science Institute (KASI) on behalf of Korean Ministry of Education, Science and Technology (MEST)



Space Weather



Information Dissemination

- ISWI Newsletter
 - Space Environment Research Centre
 - Kyushu University, Japan
 - To register send empty email to ISWInewsletter-on@mail-list.com



ISWI Website

- Solar Terrestrial Influences Laboratory
- Bulgarian Academy of Sciences, Bulgaria
- www.iswi-secretariat.org

Instrument Programme

Sudden Ionospheric Disturbance Monitor (SID) operated by UNOOSA



January 2010

International Space Weather Initiative





Regional Centres for Space Science and Technology Education (affiliated to the UN)

Regional Centres for Space Science and Technology Education (affiliated to the United Nations) The Regional Centres for Space Science and Technology Education were created under the auspices of the United Nations

Goal: to develop, through in-depth education, an indigenous capability for research and applications in the core disciplines of:

> Remote Sensing & GIS Satellite Communications Satellite Meteorology and Global Climate Space and Atmospheric Sciences (GNSS)

Regional Centres located in: Western Asia: Jordan 2011 Africa: CRASTE-LF (Morocco), ARCSSTE-E (Nigeria) Asia and the Pacific: CSSTEAP (India) Latin America and the Caribbean: CRECTEALC (Brazil/Mexico)



Regional Centres for Space Science and Technology Education (affiliated to the UN)



$$\mathrm{d}s^{*}=-igg(1+rac{2\Phi}{c^{*}}igg)igg(c^{-}\mathrm{d}t^{*}igg)^{*}+igg(1-rac{2\Phi}{c^{*}}igg)igg(\mathrm{d}x^{*}+\mathrm{d}y^{*}+\mathrm{d}z^{*}igg)$$

