

題名 ISWI Newsletter – Vol. 4 No. 10
差出人 George Maeda

* ISWI Newsletter – Vol. 4 No. 10 05 February 2012 *
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* I S W I = International Space Weather Initiative *
* (www.iswi-secretariat.org) *
* * * * *
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Attachment(s):

- (1) "tiems 2012 oslo conference call for papers", 2 MB pdf, 11 pages.
- (2) "rapletISWIenglishupdateFebruary2012", 1.2 MB pdf, 10 pages.

: Re:
: (1) Tiems 2012 Oslo Call for Papers.
: (2) Update on Morocco School Report
:
:

Dear ISWI Participant:

This October, there will be an international conference on "Space Weather and Challenges for Modern Society" in Oslo. Check out the first attached pdf for details.

The second pdf is an update on the Morocco School Report that was sent out as ISWI Newsletter Volume 4, Number 7, on 22 January 2012.

Please continue to send space-weather-related news & reports my way --- here at the ISWI Newsletter Office on the beautiful campus of Kyushu University at the southern end of Japan. Although it is freezing here, soon the pink sakura will be out in full bloom

Cordially yours,
: George Maeda
: The Editor
: ISWI Newsletter

This pdf circulated in
Volume 4, Number 10,
on 5 February 2012.

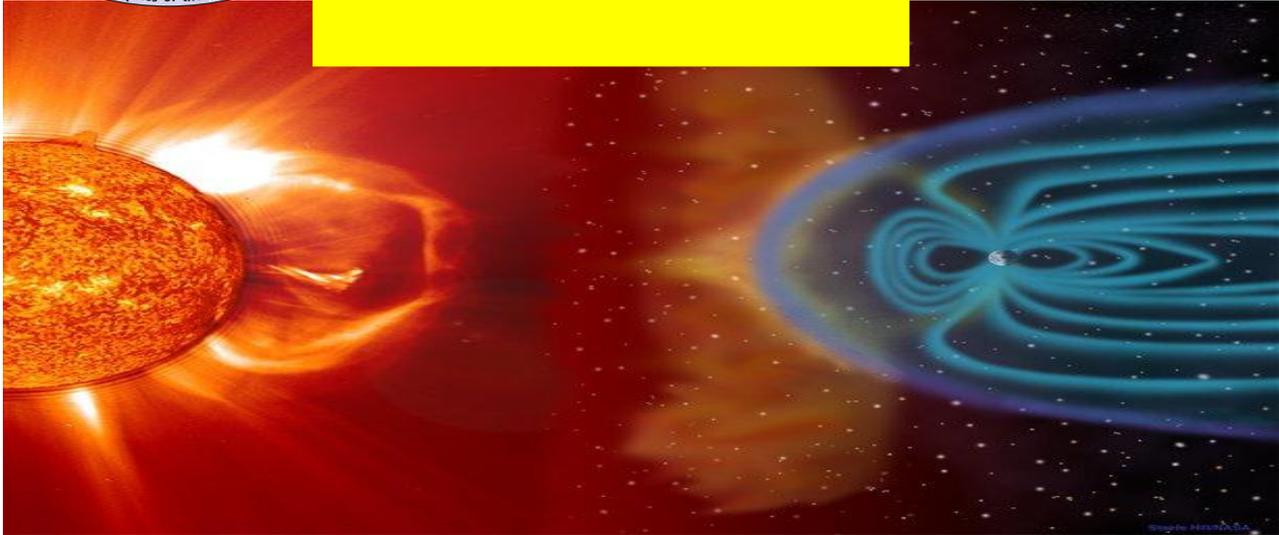
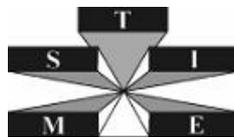


Photo: NASA



www.tiems.org

THE INTERNATIONAL EMERGENCY MANAGEMENT SOCIETY - TIEMS

Call for Papers

International Conference on Space Weather and Challenges for Modern Society

Potential Damaging Consequences and Practical Protection for Industrial Operations and Critical Infrastructure like Electric Power Supply, Communication Systems, Positioning Systems, etc.

Oslo, Norway

22 – 24 October 2012

Supported by

Norwegian Water Resources and Energy Directorate; <http://www.nve.no/en/>

The Norwegian Space Centre; <http://www.spacecentre.no/english/>

The Swedish Institute of Space Physics; <http://www.irf.se/>

Finnish Meteorological Institute; <http://en.ilmatieteenlaitos.fi/>



Further Supporters, Exhibitors and Sponsors are Welcome!

BACKGROUND

2012 – 2013 is expected to be years with high solar activity. This can trigger larger solar storms which can generate geomagnetic induced currents (GIC) on the earth. GIC can affect the normal operation of specific industrial operations and critical infrastructure (e.g power grids, telecom, navigation systems, etc).

During space weather events, like solar storms, electric currents in the magnetosphere and ionosphere experience large variations, which manifest also in the earth's magnetic field. These variations induce currents (GIC) in conductors operated on the surface of the earth. Electric transmission grids and buried pipelines are common examples of such conductor systems. GIC can cause problems, such as increased corrosion of pipeline steel and may disturb and possibly damage high-voltage power transformers and it can also have damaging effects on communication systems, navigation systems and oil and gas operations.

Vulnerable industries are the oil and gas industry, railways, telecommunication industry, navigation industry and not at least the society, which is very vulnerable concerning short or long term interruption of critical infrastructure.

The conference will focus on increasing the general knowledge of solar storms, space weather and GIC and the possible consequences for different industries and critical infrastructure, and look into reasonable means of protection, and consider possible early warning solutions.

Conference Focus

The conference will focus on increasing the general knowledge of solar storms, space weather and GIC and the possible consequences for different industries and critical infrastructure, and look into reasonable means of protection, and consider possible early warning solutions.

The main topics which will be addressed at the conference are:

- ***Solar Storms and Space Weather - History and Experiences***
- ***Stormy Sun - our Current Knowledge***
- ***Effects on Space Infrastructure and Aviation***
- ***Expectations and Effects on Electric Power Supply, Satellites, Telecommunication, Navigation and Oil and Gas Exploration Activity***
- ***Industries Preparedness and Protection Measures***
- ***Predictions of Solar Storms, Warnings, Preparedness Measures and Response***
- ***A Super Storm - What can happen and how to prepare for and handle it?***
- ***Industries and Authorities Handling Strategies and Contentious Level***
- ***Future Expectations***
- ***Other relevant topics related to Risk and Preparedness Measures***

Who Should Attend

The topic is important for political and administrative decision makers, researchers in the field, risk management specialists, relevant vulnerable industry representatives, authorities, insurance industry and others who want to increase their general and specific knowledge on the subject.

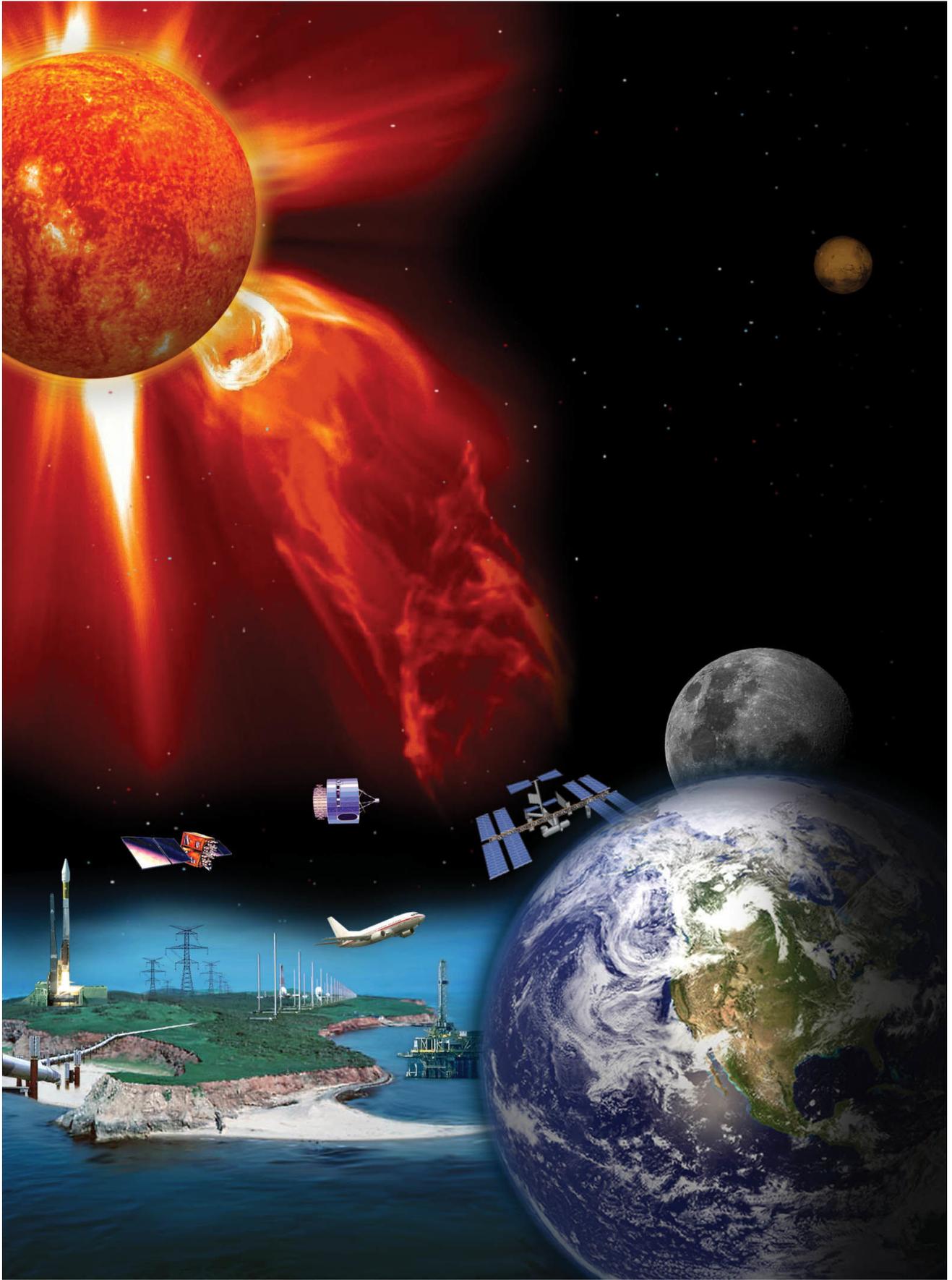


Photo: NASA

Space Weather Perspectives

Call for Papers and Posters

We invite for submission of papers and posters to be presented at the three day conference on the above topics, which will contribute to increasing the general knowledge and risk of solar storms, space weather and GIC and the possible consequences for different industries and critical infrastructure, and presenting reasonable means of protection, and considering possible early warning solutions.

The Conference International Program Committee will select 25 – 30 papers to be presented in the plenary sessions during the three day conference, and those papers not selected for the plenary sessions, will be welcomed to be presented as posters.

Title and Abstract (less than 300 words) to be submitted to TIEMS conference organizer, K. Harald Drager at khdrager@online.no before **1st April 2012**. Both Power Point presentations only and Full Papers and Posters will be accepted, and presentation type needs to be specified in the submission.

The Conference Program Committee will approve papers and posters for presentation at the conference latest **15th April 2012**.

Full Papers and Posters must be submitted latest **15th August 2012**. Papers and Posters shall be no longer than 10 A4 pages. Instruction to Authors will be provided to the authors of approved papers and posters. Power Point Presentations only, need to be submitted latest **1st of October 2012**. Only papers and posters of authors registering for the conference before **15th June 2012** will be included in the Program and the Conference Proceedings.

Approved papers and posters, both full papers and power point presentations only, will be presented in the Conference Proceedings, and some of the papers and posters will be selected for publication in cooperating international journals.

Conference International Program Committee

The Conference International Program Committee members are:

- Pål Brekke, The Norwegian Space Centre, Norway, Chairman; paal.brekke@spacecentre.no
- Roger Steen, Norwegian Water Resources and Energy Directorate, Norway
- Risto Pirjola, Finnish Meteorological Institute, Finland
- Peter Wintoft, Swedish Institute of Space Physics, Sweden
- Peter Stauning, Danish Meteorological Institute, Denmark
- Alf Olausen, Statnett, Norway
- K. Harald Drager, TIEMS President, Program Organizer and Committee Secretary; khdrager@online.no

The International Program Committee will be supplemented with additional international members. Please, contact Committee Chairman or Secretary for interest to be a member of the International Program Committee. The International Program Committee will review papers and posters and approve which ones will be presented at the conference, and included in the Final Conference Program.

Conference Venue



Photo: VisitOslo

The conference will take place in Oslo, Norway at Grand Hotel, www.grand.no, located in the centre of Oslo, with direct access to the main street, Carl Johan and opposite the Parliament building (Stortinget). Grand Hotel is amongst others famous for housing the Nobel Peace Prize Laureates during their stay in Oslo for the Peace Price Ceremony.



Photo: Grand Hotel

Conference Tentative Program Concept

Monday October 22, 2012

- 08:00 – 10:00 *Registration and Coffee*
- 10:00 - 10:45 *Opening and Welcome*
- 10:45 - 1130 *Introductory Keynote – Issues at Stake*
- 11:30 - 12:00 *Solar Storms and Space Weather - History and Experiences*
- 12:00 - 13:30 *Lunch*
- 13:30 - 15:00 *Stormy Sun - our Current Knowledge*
- 15:00 - 15:30 *Coffee and Poster Viewing*
- 15:30 – 17:00 *Effects on Space Infrastructure and Aviation*
- 17:00 - 20:00 *Reception with a popular Lecture on Northern Light Science*

Tuesday October 23, 2012

- 09:00 - 10:30 *Expectations and Effects on Electric Power Supply, Satellites, Telecommunication, Navigation and Oil and Gas Exploration Activity*
- 10:30 - 11:00 *Coffee and Poster Viewing*
- 11:00 - 1300 *Industries Preparedness and Protection Measures*
- 13:00 - 14:30 *Lunch*
- 14:30 - 16:00 *Predictions of Solar Storms, Warnings, Preparedness Measures and Response*
- 16:00 - 16:30 *Coffee and Poster Viewing*
- 16:30 - 18:00 *A Super Storm - What can happen and how to prepare for and handle it?*
- 19:00 - 21:00 *Reception*

Wednesday October 24, 2012

- 09:00 - 10:30 *Society's ability to withstand short and long term shut down of Critical Infrastructure*
- 10:30 - 11:00 *Coffee and Poster Viewing*
- 11:00 - 1300 *Industries and Authorities Handling Strategies and Contentious Level*
- 13:00 - 14:30 *Lunch*
- 14:30 - 15:30 *Future Expectations*
- 14:30 - 15:30 *Summing Up and Conclusions*
- 16:00 *End of Conference*

Exhibitors

One of TIEMS goals with the conference is to establish a good dialogue between researchers, industry and authorities and “close the gap between theory and practice”. We therefore welcome industry and others who like to expose their products, systems and solution within this field, to exhibit their solutions during the conference, and establish the necessary contacts to achieve practical results.

Conference Fee

The conference fee has to be paid prior to arrival at the conference. TIEMS web-site will open up for registration and payment, either by credit cards or bank transfer. The conference fee will include one year membership in TIEMS, and there will be a special “early bird” rate, regular rate and a late rate, as shown below. The conference fee includes 1 copy of the proceedings and all social events.

Conference fee depending on time of payment:

Time of Payment	Conference Fee
<i>Early Bird Rate – until 1st May 2012</i>	<i>Euro 400</i>
<i>Regular Rate – from 2nd May – 1st September 2012</i>	<i>Euro 450</i>
<i>Late Rate – After 2nd September 2012</i>	<i>Euro 500</i>
<i>Exhibition space (incl. table, chair and electricity)</i>	<i>Contact khdrager@online.no</i>

The International Emergency Management Society - TIEMS

TIEMS was founded in 1993 in Washington, USA, and is today registered as an international, independent, non-profit NGO in Belgium. TIEMS is an International Network of Users, Planners, Researchers, Industry, Managers, Response Personnel, Practitioners, Social Scientists, and other Interested Parties and individuals concerned with Emergency and Disaster Management.

TIEMS stimulates the exchange of information regarding the use of innovative methods and technologies within emergency and disaster management to improve society’s ability to avoid, mitigate, respond to, and speedily recover from natural and technological disasters. TIEMS is building a network of experts through local TIEMS Chapters all over the world, with the aim of “think globally and act locally”.

TIEMS believes in a global dialogue to learn from exchange of expert information and experience. This year TIEMS plans to arrange 13 conferences and workshops around the world. The planned locations are: Norway, Japan, Nepal, Russia, Tunisia, Philippines, Romania, Finland, Korea, China, France, BeNeLux and India. TIEMS also initiates and takes part in research & development projects which aim at developing and/or improving methods and technologies within emergency and disaster management.

TIEMS also is developing an International Education Training and Certification Program in Emergency and Disaster Management. The International Education Program comprises TIEMS Chapter Training and TIEMS QIEDM Certification. More details are found on TIEMS web-site: www.tiems.org.

The Beauty of Northern Lights



Photo: Pål Brekke

Picture Comments by the Photographer

The picture shows the Northern lights over Tromsø, Norway on 23 January 2012. The aurora is a visual manifestation on space weather and has amazed people for thousands of years.

Hotel Registration

The conference hotel will be Grand Hotel, where 100 rooms are booked for conference delegates and accompanying persons. In addition it is booked 50 rooms at Rica Hotel adjacent to Grand Hotel. The reserved hotel rooms will be available for booking at special conference rates up to the given dates below for each hotel. Beyond those dates, the conference organizer cannot guarantee availability and the special rates. The conference delegates are responsible for their own booking and payment of hotel, see registration forms in the following for both hotels.

Grand Hotel



(Availability and Special Rates available until 21st July 2012)

Room reservations made through Grand Hotel's homepage: www.grand.no

In order to get the special rate for this event: **TIEMS Conference**, log on to www.grand.no and choose from the following:

- Room reservation** (– select dates)
- choose : **“Select accounts”**

Under **“Select Accounts”**:

- Account Code : **wwoslgr3**
- Promotional Code: ***g3k** (star + g3k)

The agreed rates for this event will then appear, please continue your reservation as normal.



Rica Victoria Hotel

RICA VICTORIA HOTEL REGISTRATION

Tiems

22. – 24. October 2012

Reference #11262780

Please return this form by 10. September, 2012, to RICA VICTORIA HOTEL

Fax: 47 24 14 70 01/booking.victoria@rica.no

Name: _____

Address: _____

Tel: _____ Fax: _____ e-mail: _____

I wish to reserve for: Arrival date: _____ Departure date: _____

Please select room category;

Standard room 1 pax NOK 1285,-

Standard room 1 pax NOK 1535,-

It is also possible to make reservation for higher room categories, please contact the hotel for the best available rates.

Above rates are per room per night, including buffet breakfast, taxes and access to our wireless internet system. Reservation and rooms allocation will be default on a first-com first-served basis. Rooms are available for check-in from 3 pm on date of arrival, and departure time is noon.

Request for accommodation received 10. September 2012, will be subject to the availability at the hotel.

I guarantee my arrival with the following credit card:

Card Holder name: _____

Card type: _____ Card No: _____ Exp: _____

Signature: _____ Date: _____

Please be advised that your reservation can only be processed if the credit card details are provided. You can cancel your reservation in writing without charge 24 hours before arrival at the latest. After this date, the hotel will charge you for the first night of the reservation.

In the case of no-show the hotel will charge you for the entire stay and release the remainder of your reservation. Thank you for choosing Rica Victoria Hotel for your stay in Oslo.



EMI

MENESFCRS of
Morocco

SCHOOL ON SPACE WEATHER
 Rabat/Morocco [5-16 December, 2011]
 Brief report

- I. Committees
- II. Objectives
- III. Professors
- IV. Training
- V. Participants
- VI. Sponsors
- VII. Photos

Christine Amory-Mazaudier
 Scientific secretary

Abderrahmane Touzani
 Director of the CRASTE-LF

Nicole Vilmer
 President of the French
 National ISWI Committee

I. ORGANIZING COMMITTEES

Local Committee

CRASTE –LF

Centre Régional Africain des Sciences et Technologies de l'Espace– Langue française

EMI

Ecole Mohammadia d'Ingénieurs



MENESFCRS

**Ministère de l'Éducation Nationale, de l'Enseignement Supérieur, de la Formation des Cadres
de la Recherche Scientifique**

International Scientific Committee

C. Amory-Mazaudier -> scientific secretary

Jean-Luc Attié

Mohammed Bendouida

Karine Bocchialini

Dominique Fontaine

Jean-François Georgis

Samir Kadir

F. Pitout

Serge Soula

Art Richmond

Hamid Touma

Nicole Vilmer

II. OBJECTIVES

In the framework of the international ISWI (International Space Weather Initiative <http://www.iswi-secretariat.org>), a school on Space Weather was held at Rabat from December 5 to 16, 2011 at the CRASTE-LF.

The main objective of this school was to perform research in the African countries (French Language) in order to permit the participation of many African scientists to International project as ISWI.

The two key points were:

- 1) To learn how to use the existing data sets and the scientific tools related to space weather.
- 2) To use the data recorded in Africa since several years by the instruments deployed in the framework of international project as International Heliophysical Year (IHY 2005-2009) and still deploy in the framework of ISWI. **At that time less than 10% of the data sets recorded in data bases are used**
- 3) To combine data from satellites to ground data to develop a sustainable research on Space weather in the African countries (*for example to use the GPS data for Geophysics studies, navigation ...*)

To reach these objectives the training included:

- 1) A scientific part to understand the data and all the informations extracted from the data useful for space weather applications
- 2) Practical work on computers to use the data from existing data base SOHO, SPIDR, IGSI; IGRF etc...

The scientific part concerned:

- 1) The knowledge on the impacts of solar activity and solar events on the Earth's environment : magnetosphere ionosphere atmosphere,
 - a. Knowledge on the recent discoveries concerning the sun,
 - b. Study of the impact of the sun on the Ionized layers around the earth,
 - c. Understanding of the sun impacts on the terrestrial atmosphere,
 - d. Understanding of the use of tools as GPS for applications other than scientific applications as for example navigation.
- 2) The use of existing data in the different data bases (old data) and the new data recorded with the instruments deployed in the framework of International projects.

This school had for main object to develop the data analysis in Africa and therefore to have benefit of all the scientific projects base of the deployment of scientific instruments in Africa as IHY (International Heliophysical Year) or ISWI (International Space Weather Initiative) etc...

IV. PROFESSORS

1^{ère} week 5-10 December		
	NAME	LABORATORY
1	BOCCHIALINI Karine Karine.bocchialini@ias.u-psud.fr	Institut d'Astrophysique Spatiale Bât 121 Université Paris 11, 91405 Orsay cedex, France
2	FONTAINE Dominique Dominique.fontaine@lpp.polytechnique.fr	Laboratoire de Physique des Plasmas (LPP) Ecole Polytechnique, Route de Saclay 91128 Palaiseau cedex, France
3	HILGERS Alain Alain.Hilgers@esa.int	ESTEC Keplerlaan, 1, PO Box 299, 2201 AZ, Noordwijk, Pays Bas
4	KLEIN Karl-Ludwig Ludwig.klein@obspm.fr	Observatoire de Paris 5 Place J. Jansen 92195 Meudon, France
5	PITOUT Frédéric frederic.pitout@cesr.fr	Institut de Recherche en Astrophysique et Planétologie (IRAP) 9 avenue du Colonel Roche BP44346 Toulouse cedex 4, France
6	VILMER Nicole Nicole.vilmer@obspm.fr	LESIA Observatoire de Paris 5 Place J. Jansen 92195 Meudon, France
2nd week 12-16 December		
1	AMORY-MAZAUDIER Christine Christine.amory@lpp.polytechnique.fr	Laboratoire de Physique des Plasmas (LPP) Polytechnique UPMC, 4 Avenue de Neptune 94107 Saint-Maur-des-Fossés, France
2	BLANC Elisabeth Elisabeth.blanc@cea.fr	CEA/ Département d'analyse et de suivi de l'environnement, Bruyères le Chatel, 91297 Arpajon cedex, France
3	GEORGIS Jean-François geojf@aero.obs-mip.fr	Université Paul Sabatier Observatoire Midi Pyrénées Laboratoire d'Aérodologie, 14 avenue Belin 31400 Toulouse, France
4	RICHMOND Art richmond@ucar.edu	National Center for Atmospheric Research, High Altitude Observatory, Boulder, CO 80301, USA
5.	OUATTARA Frédéric fojals@yahoo.fr	Université de Koudougou/Burkina Faso he will work at NCAR/HAO in 2012
6.	SOULA Serge sous@aero.obs-mip.fr	Observatoire Midi Pyrénées Laboratoire d'Aérodologie, 14 avenue Belin 31400 Toulouse, France

V.TRAINING

PROGRAMME		
1 st week 5-10 December		
1	BOCCHIALINI Karine Karine.bocchialini@ias.u-psud.fr	Sun : General presentation
2	FONTAINE Dominique Dominique.fontaine@lpp.polytechnique.fr	The magnetosphere
3	HILGERS Alain Alain.Hilgers@esa.int	Space Weather : the effects
4	KLEIN Karl-Ludwig Ludwig.klein@obspm.fr	Sun : Radio observations
5	PITOUT Frédéric frederic.pitout@cesr.fr	Ionosphere : magnetic storms
6	VILMER Nicole Nicole.vilmer@obspm.fr	Sun : solar activity
2 nd week 12 -16 December		
1	AMORY-MAZAUDIER Christine Christine.amory@lpp.polytechnique.fr	The transient variations of the terrestrial magnetic field
2	BLANC Elisabeth Elisabeth.blanc@cea.fr	Atmosphere : dynamics and perturbations
3	GEORGIS Jean-François geojf@aero.obs-mip.fr	Radiometry of the atmosphere
4	OUATTARA fojals@yahoo.fr	GNSS: Use of GPS to study the equatorial ionosphere
5	RICHMOND Art richmond@ucar.edu	Ionosphere : Electrodynamics
6	SOULA Serge sous@aero.obs-mip.fr	Atmospheric electricity

V. PARTICIPANTS

There were 28 participants from 11 African countries supervised by 12 professors (see list above): see below the list of the participants and on the next page the map with the countries of all the participants.

Participants		
	NOM	Pays
1	ACKAH Jean Baptiste jeanbaptisteackah@yahoo.fr	Côte d'Ivoire
2	ADECHINAN Adebisi Joseph adechinanoseph@yahoo.fr	Benin
3	ANAD Fatma f_anad@yahoo.fr	Algeria
4	AZZOUZI Ilyasse ilyasse.azzouzi@gmail.com	Morocco
5	BARRO Fabé Idrissa Fabe.barro@ucad.edu.sn	Senegal
6	BENGHANEM Karima kbenghanem@yahoo.fr	Algeria
7	DAASSOU Ahmed Daassoul@yahoo.fr	Morocco
8	ENOW Richard Agbor enow_r@yahoo.fr	Cameroon
9	GAYE Idrissa idrissagaye3@hotmail.com	Senegal
10	GRODJI Franck franckgrodj@yahoo.fr	Côte d'Ivoire
11	GUEMENE DOUNTIO Emmanuel eguemene@yahoo.com	Cameroon
12	HOUNGNINOU Bodoun Etienne houngb@yahoo.fr	Benin
13	KAFANDO Pétronille kafandopetronille@yahoo.fr	Burkina Faso
14	KAHINDO Bruno bkahindo@gmail.com	RDC
15	KASMI Atika kasmiatika@gmail.com	Morocco
16	KOUASSI Komenan Benjamin benjamin.kouassi@gmail.com	Côte d'Ivoire
17	MADOUGOU Saïdou nassara01@yahoo.fr	Niger
18	MBANE César cesar.mbane@yahoo.fr	Cameroon
19	MALKI Khalifa mkprocedure111@gmail.com	Morocco
20	NDOMBI TSHISUNGU Christian chris_ndombi@yahoo.fr	RDC
21	OUATTARA Frédéric fojals@yahoo.fr	Burkina Faso
22	RANDRIANARINOSY Fanomezana fano.rn@gmail.com	Madagascar
23	SIDI CHEIKH Mohamed Ahmed ouldsidicheikh@yahoo.fr	Mauritania
24	TANOÛ Serge Serge.koua@yahoo.fr	Côte d'Ivoire
25	TIERMONDO LONGANDJO Georges georgesnoeltiers@yahoo.fr	RDC
26	ZAOURAR Naima naimazaourar@gmail.com	Algeria
27	ZERBO Jean-Louis Jeanlouis.zerbo@gmail.com	Burkina Faso
28	ZOUNDI Christian zounchr@yahoo.fr	Burkina Faso

Ecole de Météorologie de l'Espace au Maroc, Décembre 2011



Map No. 4045 (F) Rev. 4 UNITED NATIONS
January 2004

Department of Peacekeeping Operations
Cartographic Section



VI. SPONSORS

This school was financially supported by

French Institutions

CNES: Centre National d'Etudes Spatiales

French Embassy in Algeria,

French Embassy in Côte d'Ivoire,

French Embassy in Morocco,

CEA: Commissariat à l'Energie Atomique,

NASA: Spatial US Agency,

ICG/UN-OOSA: International Committee of GNSS - Office for Outer Space Affairs of United Nations,

CRASTE-LF: African Regional Centre of Space Sciences and Technology Education in French Language,

EMI: Ecole Mohammadia d'Ingénieurs,

ISESCO: Islamic Education Sciences and Culture Organization,

RDC : Republic Democratic Congo

Cost : 47405,49€

	French Institutions	NASA	ICG/UN-OOSA	CRASTE-LF	ISESCO +RDC
Transport	10479,67€	2464€	7375,44€	0€	1244€
Accommodation + meals	8182,93€	11618€	0€	458€	0€
Rooms	0€	0€	0€	6041,45€	0€
Total	18662,93€	14082€	7375,44€	5970,51€	1244€
Percentage	39,36%	29,7%	15,55%	12,74%	2,62%

1 € -> 1,33\$

1 € -> 11,06 DH

VII.PHOTOS

Photo: 1st week



Photos : 2nd week

Dr Christine
Amory-Mazaudier
(France)

Dr Art
Richmond
(NCAR in USA)



Photo notes by G. Maeda
(Editor of ISWI Newsletter)

Lecture room



Computer room

