



IGRGEA LETTER

International Geophysical Research Group /Europe-Africa
International Geophysical Research Group /Europe-Asia

IGRGEA

At the end of the IEEY, in 1995, IGRGEA (International Geophysical Research Group Europe Africa) has been organized to follow the research work initiated during IEEY (International Equatorial Electrojet Year), in 1992. Since January 2003 IGRGEA is developing at the Institute of Geophysics in Hanoi.

ALGERIA

Rachid BESSAOUDI and Naima ZAOURAR of USTHB / Algiers, are visiting the Laboratory of Plasma Physics for the period from October 1 to 15. They work with Christine AMORY-MAZAUDIER on the study of transient magnetic field variations associated with coronal mass ejections (CME) and fast solar wind flowing from solar coronal holes. They study the asymmetries between the hemispheres.

Soraya MAKHLOUF of USTHB / Algiers will be at LATMOS during the month of November to work with Jean-Jacques BERTHELIER on the electric field measurements of the DEMETER satellite.

BURKINA FASO

Dr Jean-Louis ZERBO, arrived in the United States on August 18, 2014 for nine months, funded by a Fulbright Scholarship. It makes a post doc at MIT-Kavli Institute

for Astrophysics and Space Research. His research subject is: "*Study of shock condition, all which lead to particle acceleration and how solar wind parameters impact weather*"

The school of "Space Weather, GPS / GNSS, GIS, database and Internet," will take place in Koudougou from November 10 to 21 2014. This school is organized by the GIRGEA. The local manager is Frederick OUATTARA.

This school is sponsored by:

des universités du Burkina Faso



PNST/CNRS



ICG



SCOSTEP/Varsitti



GIRGEA



GUINEA

Rene Tato LOUA was admitted for master 2 on remote sensing and natural hazards as part of the EU funded project PAFROID. The training will take place in Madagascar (September-October), in La Réunion (November-December) and will end in South Africa (1 week). This training will be followed by a research stay of 6 months in an European institution.



FRANCE

Rolland FLEURY, from National school of Telecommunications Brest, organized GNSS formations for African students:

June 9-13, 2014

JOUAN Taoufiq from Morocco, EBIKA Mboko Stoule and OBA PEA Okolandzaud from Republic of Congo.

July 21-25, 2014

ABED Youcef from Algeria

MOROCCO

Ilyasse AZZOUZI is in France for a year to work on his thesis. The theme of his thesis is: *"Impacts of solar events on the ionization of the ionosphere of middle and lower latitudes in the sector Europe-Africa"*. He will visit the National School of Telecommunications Brest, from October 16 to December 25, to work with Rolland FLEURY, and then will work in the Laboratory of Plasma Physics, where he will be followed by Christine AMORY-MAZAUDIER.

As part of this thesis, ENST Brest will install a scintillator in southern Morocco. On the site: <http://www.iswi-secretariat.org> you will find the report on the school on Space Weather, held in Marrakesh from 5 to 10 May 2014. The local organizer of the school was Azziza BOUNHIR.

Group photo



DRC: Democratic Republic of Congo

The project in the DRC regularly advances: *physics:*

Two masters 2 in physics were defended by Jean KIGOSTI 2013 (*currently at the University of Toulouse, for his PhD on atmospheric electricity, working with Serge SOULA*) and Emmanuel KANDOLO 2014 (*Solitons and duality T closed bosonic string compactified on the torus*). Two other Masters must be defended by the end of October 2014 by Ralph MUKANDILA (*geodesy-GPS*) and Alphonse Claude MUKALA (*variations in Earth's magnetic field*). Two other students KAHINDO Bruno (*ionosphere-GPS*) and Joseph MAKUNTWALA (*sunlight and high-energy particles*) should defend their master before the end of the year. Another student from the DRC Kenny KALE is pursuing a Master 2 in *Astrophysics* at the University of Strasbourg.

A Graduate School in Physics was established at the University of Kinshasa in February 2014, the director is Albert KAZADI.

Computer:

There is no graduate for masters in computer science in the DRC. Two students Patient NTUMBA and Vianney LOTOY are learning in Master 1 at the University of Besançon, France.

A computer master should be created in DRC under the direction of Saint-Jaen DJUNGU

VIETNAM

TRAN THI Lan will defend her thesis in November 2014, in Hanoi, on the theme: *"Study of the total electron content (TEC) and*



characteristics of ionospheric gradients and their influence on the spread of the Global Positioning System in Vietnam "satellite signals."

Supervisor: Dr. LE HUY Minh, Institute of Geophysics, Academy of Science and Technology of Vietnam.

Co Supervisor: Patrick Lassudrie-Duchesne, School of Telecommunications Bretagne, France.

SCHOOL on GNSS in RWANDA
June 30-July 11 2014

The school organized by ICTP, Boston University and the University of Kigali "*African School on Space Science: related applications and awareness for sustainable development of the area*" has been a success.

You can find the report at:

<http://www.iswi-secretariat.org>

In Rwanda, the school was coordinated by Jean UWAMAHORO.

Group photo



SCHOOL ON SPACE SCIENCE in PERU
SCOSTEP/ 15-24 September 2014

The School of Science and Space, organized by SCOSTEP, Peru has been a success. You can find the readings on the following website:

<https://www.dropbox.com/sh/fvgwne6bqs9cmfj/AAD5UHKpvwcdAGlBykp6Viara?dl=0>

In Peru, the school was coordinated by Marco MILLA.

Group Photo



NEXT SCHOOL-SPACE WEATHER

The second edition on Space Weather /GNSS school of Maghreb is expected in Rabat during February 2015, the flyer will be sent shortly.

WORKSHOP

An upcoming workshop entitled "*United Nations / Japan Workshop on Space Weather" Science and Data Products from ISWI Instruments*" will be held in Fukuoka, Japan from March 2 to 6, 2015. You can fill online application at the following website:

<http://www.oosa.unvienna.org/oosa/en/SA/P/act2015/japan/index.html>

The deadline is November 30, 2014.

SPECIAL ISSUES

Advances in Space Research

"Advances in Equatorial, Low-and Mid-Latitude Mesosphere, Thermosphere and Ionosphere Studies"

submission before January 31, 2015

Journal of Geophysical Research



*Long-term Changes and Trends in the
Stratosphere, Mesosphere, Thermosphere, and
Ionosphere (LTCTSMI2),*
submission before January 30, 2015