

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.

Ivory Coast

Despite adverse conditions in the country, the Ivory Coast IGRGEA continues to work. At Korhogo, after a few week's interruption in September 2002, observations started again from October 17. 2002 on.

Dr O. Obrou from Abidjan University has been awarded a 9-month Fulbright grant to collaborate at NASA with Dr D. Bilitza on the IRI model.

Dr J.-P. Adohi from Abidjan University obtained a grant from Abidjan University for a two month's study on ESF with Dr P.Vila and Dr M. Petitdidier.

Dr Kouamé Kouadio, has been awarded a French Cooperation 'exchange' grant for training on equatorial ionosphere dynamics and irregularities at CNAM Paris, in view of programming, signal processing and maintenance of the HF STUDIO radar. This instrument is waiting to be set up at Khorogo when normal condition will be restored in Ivory Coast.

Senegal

After Professor Ephrem Sambou's death, Dr B. Barry has been in contact with the CETP team. He is assuming the coordination between the Senegalese and the Department of Physics. The first objective is *to re-start* the SCIPION HF radar-sonde on the (UCAD) Dakar University premises.

Burkina Faso

Dr Pétronille Kafando, from the Ouagadougou University, is now following an 8-month research course at CETP with Dr

M. Petitdidier. She is studying various measurements of tropical rain precipitations.

Dr Frédéric Ouattara from the Ecole Normale Supérieure at Kedougou is preparing a study of magnetospheric convection during the last three Solar Cycles.

Sapporo IUGG

An IGRGEA working Group on the ionospheric disturbed dynamo models will meet next Summer at Sapporo. This group comprises Dr V. Doumouya (Africa), Dr Le Huy Minh (Asia), Dr J.-J. Curto and Dr C. Amory-Mazaudier (Europe).

Scientific Research

Recent IGRGEA results presented at EGS Nice and to be presented at IUGG Sapporo include :

- 1) Discussion of equatorial electrojet models through comparison of results from the CHAMP satellite and from the three magnetometer network in West Africa.
- 2) F region intertropical results from the total solar eclipse in West Africa, June 21 2001. They illustrate an intense ionization transport from the non-eclipsed North tropic towards the Southern tropic under the eclipse and two modes of gravity waves produced by the totality shock.
- 3) Presentation of the day-to-day variability in the equatorial electrojet in Viet Nam during a 60-day interval without magnetic storm.
- 4) Presentation of the planetary signature of the disturbed ionospheric dynamo from a selection of storms.
- 5) Presentation of three studies on lightning in Viet Nam

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6) Project on integrated geophysics of the Sun-Earth system.