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ISWI Newsletter - Vol. 2 No. 96 \* 20 November 2010 \* \* \* \* 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"] \* 

Attachment(s):

:

"MAGDAS Session Summary Report", 1.0 MB pdf, 16 pages.
 "original MAGDAS Session 48 photos", 570 KB pdf, 1 page.

: Re: : MAGDAS Session Summary Report

Dear ISWI Participant:

This issue is "2010 ISWI Workshop #8."

(Tomorrow, in #9, I will send out the workshop Final Proceedings, which can be found on the workshop CD-ROM distributed at the end of the closing ceremony to workshop participants.)

The last day of the 1st ISWI Workshop was divided into two parts (AM and PM) :

- AM: Each of the major instrument array providers summarized
- : the sessions of their respective instrument arrays.
- PM: Closing ceremony (in which the President of Helwan Universityparticipated).

I attach the summary report for the MAGDAS Project, which was presented by the Project PI (Prof. K. Yumoto, SERC, Kyushu Univ.).

I invite all instrument array providers to send to me a summary report (in pdf) so that I can distribute it to all concerned parties via this newsletter.

Cordially yours,

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

ISWI UN/NASA/JAXA Workshop, Cairo, Egypt, Nov.6-10, 2010 BNATIONAL SPACE WEATH



Circulated in ISWI Newsletter Volume 2, Number 96, on 20 November 2010.

# **MAGDAS Report ISWI UN/NASA/JAXA Workshop**

#### K. Yumoto<sup>1)</sup>(; PI of MAGDAS Project) 1) Space Environment Research Center, Kyushu Univ.

### Content

- **1. Objectives of MAGDAS Session**
- 2. Breakdown of MAGDAS Session
- **3. Proposed Capacity Building 3.1 Instrument Capacity 3.2 Data analysis Capacity** 
  - **3.3 Science Capacity**
- 4. Summary



# **1. Objectives of MAGDAS Session**

To realize "Equal Partnership" of "instrument provider" and "instrument hosts", this is the guiding principles of IHY/ISWI, and to make the collaborations long-term and self-sustaining of MAGDAS Project, we need three phases of Development of Capacity Building in the process:

- (1) Instrument capacity, e.g. maintenance of MAGDAS
- (2) Data analysis capacity, e.g. data processing of MAGDAS
- (3) Science capacity, e.g. supervising students of MAGDAS host.

The objectives of the first MAGDAS Session were to frankly exchange information and opinions of MAGDAS members, and to start discussion on how we can accelerate Capacity Building.

# **2. Breakdown of MAGDAS Session**

 Instrument related; 16 talks (SERC, Nigeria, Zambia, Mozambique, Tanzania, Ethiopia, Kenya, Sudan, India, Peru, Australia, Philippines, Brazil),

2. Data related; 3 talks (SERC, Indonesia, Malaysia, Australia),

 Science related; 11 talks (SERC, Nigeria, Ethiopia, Italy, Australia, Philippines, Nigeria, Cote d'Ivorie, Brazil, Egypt), EEJ, Sq, DP2, Pc 3-4, Pi 2, EQ-related, Space Weather, etc.

Note: 2 talks were not given, because of frontier formalities.  $\frac{3}{14}$ 

# **3. Proposed Capacity Building**

### **3.1 Instrument Capacity**

- Noise testing, Calibration, Installation, and Maintenance of MAGDAS system
  - MAGDAS/ISWI School and Workshop
     Short-term exchange of young scientists
     Supervising and co-supervising students
- Additional stations are also proposed; Kenya, Nigeria, Peru. Ethiopia, DR of Congo, Indonesia, Russia

# **3. Proposed Capacity Building**

### **3.2 Data Analysis Capacity**

- Data correction, Making database, and Learning research tools.
  - ➡ MAGDAS/ISWI School and Workshop
  - Short-term exchange of young scientists
  - Supervising and co-supervising students
- ➡ Unification of MAGDAS data format (MAG-I, MAG-II, MAG-9)
- → Development of New data transfer system
- Construction of MAGDAS/SERC Sub-centre

### Near Real Time MAGDAS Data Processing System in Indonesia

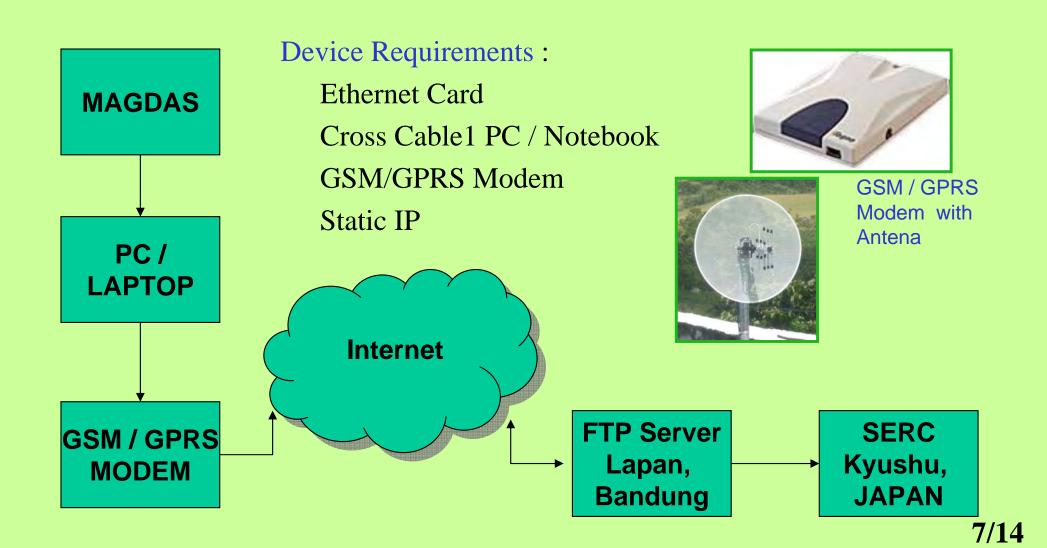
<u>Setyanto C. P., L. M. Musafar K., M. Ruhimat., H. Bangkit</u> (National Institute of Aeronautics and Space (LAPAN), INDONESIA)

#### **Kiyohumi Yumoto and MAGDAS Group**

(Space Environment Research Center, Kyushu University, JAPAN)



### Scheme Of MAGDAS Transfer System in Indonesia using GPRS (General Packet Radio Service) Network



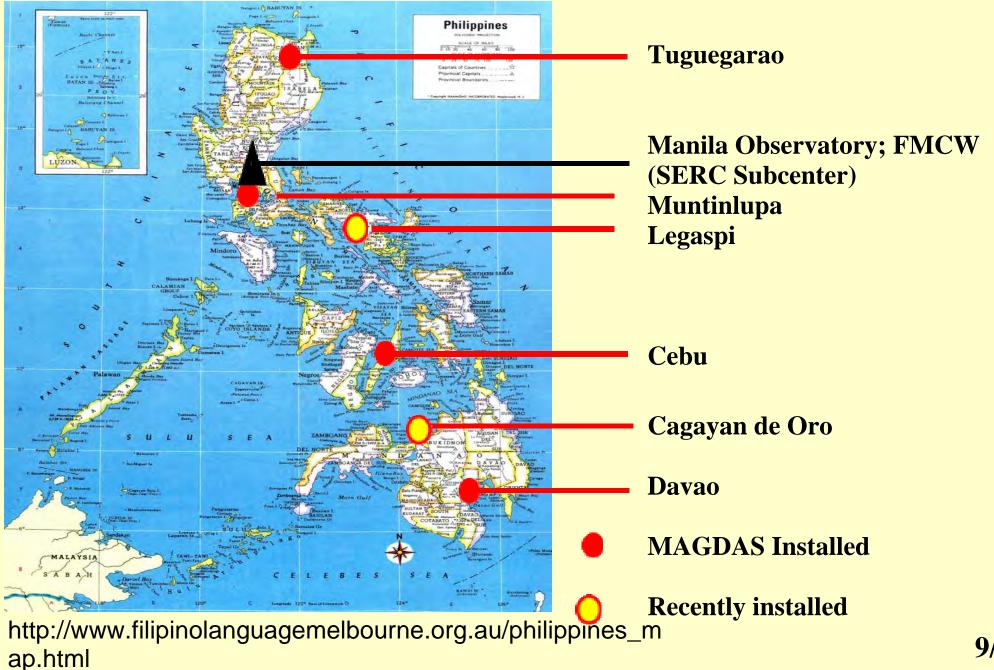
### **SERC Subcenter at Manila Observatory**

by <u>Quirino M. Sugon Jr.[1]</u>, Akihiro Ikeda[2], Daniel J. McNamara[1] Manabu Shinohara[2], and Kiyohumi Yumoto[2]

[1] Kyushu University's SERC Subcenter, Manila Observatory, Philippines [2] Space Environment Research Center (SERC), Kyushu University, Japan



# **Philippine MAGDAS Stations**



### **SERC Subcenter at Manila Observatory**

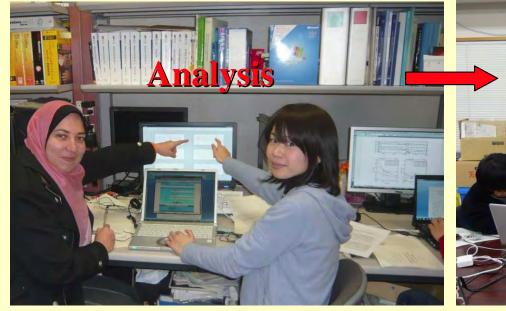
- Maintain FMCW (Frequency modulated continuous wave) radar
- Server for 6 MAGDAS stations (to be installed)
- Server for 3 SCINDA stations (to be installed)
- Server for 3 earthquake stations (in another building)

# **3. Proposed Capacity Building**

### **3.3 Science Capacity**

- Ability of Data analysis, Presentation in Meetings, and Publications
  - MAGDAS/ISWI School and Workshop
     Short-term exchange of young scientists
     Supervising and co-supervising students

### **<u>3.3 Supervising Students to Carry out Data</u>** <u>Analysis, Presentation & Publications</u>





OBSS &





Estiort N. Gopalowany Suid A. Bhattacharyya

#### **Publications**

SpringerWienNewYork

Putting the "I" in IHY The United Nations Report for the International Heliophysical Year 2007

**(**) ()

I.M. Davila H. I. Haubok



2009 UN / NASA / ESA / JAXA Werkslapp on Bail: Space Science and the International Hundiphysical Year: 2007 2009 UN BSS & IHY Workshop

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September 21~25, 2009 Deeleon, Korea

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12/14

### Presentation

## **4. Summary of MAGDAS Session**

The final goal of MAGDAS project is to make our collaborations long-term and self-sustaining on a truly global scale

To achieve this, we must follow this roadmap:
(1) Exchange frankly information and opinions on how we can accelerate the Capacity Building.
(2) Conduct MAGDAS/ISWI Schools to train young people on how to maintain instruments and how to use its data,

- (3) Conduct short-term and long-term exchanges of students and young staff,
- (4) Supervise or co-supervise Ms and Phd students.



#### **MAGDAS/ISWI School**

on



#### Litho-Space Weather with MAGDAS Data Venue: Redeemer's University, Mowe, Lagos, Nigeria. Date: Summer (August), 2011

Space Environment Research Centre (SERC) of Kyushu University is holding a training titled "MAGDAS/ISWI School on Litho-Space Weather with MAGDAS Data" in Nigeria, Africa during summer of 2011. The Workshop is aimed at training personnel on handling of MAGDAS data and systems. It is envisioned to be a one-week intensive training school. Participants shall be drawn from Japan, Indonesia, Philippines, several African and other countries. Participants shall be mainly persons hosting or working with MAGDAS facilities/data.

#### <u>Features</u>

Personnel training and development

MAGDAS operation and maintenance

Data coordination

Special topics: Principles of geomagnetism, Space weather, Equatorial ionosphere, lithospheric dynamics

#### **Sponsorships**

Travel grant is expected from SERC, Kyushu Univ., and NASA/UN. Nigeria shall endeavor to take care of local support, including accommodation and feeding. 14/14

# **ISWI Newsletter**



Space Environment Research Center (SERC), Kyushu Univ. was requested to publish the ISWI newsletter.

#### ISWI Newsletter Editor; George Maeda

To subscribe, please visit the official ISWI website: www.iswi-secretariat.org

Thank you for your attention !!



#### Thank you very much for

# Very nice arrangement of LOC at Helwan Univ. Support by UN/NASA/JAXA and All attendee





