

Update on MAGDAS Activities since the last ISWI Workshop

G. Maeda, K. Yumoto

International Center for Space Weather Science and Education

Presented at
UN/Ecuador Workshop on ISWI
during 8-12 October 2012,
In Quito, Ecuador.



During Presentation Session 2

Since the last ISWI Workshop, we at ICSWSE (*Iku Sei* for short) were hit with a major tragedy.

On 3 January 2012, Prof. K. Yumoto, the PI of the MAGDAS Project, suffered a severe stroke.

Luckily, he is making a slow but steady recovery!

ICSWSE Main Office



On the 3rd
of
October
he visited
his
ICSWSE
for the
first time.

3 October 2012 Photo: Prof. Yumoto with his Staff.



9 October 2012

G. Maeda – UN/Ecuador Workshop on ISWI **Slide 4/26**

Prof. Yumoto sends his warm regards to all the participants of this workshop, and expresses his regrets that he cannot attend this one.

Recent MAGDAS Activities

- 1. Installation of three MAGDAS 9 magnetometers in Sumatra.**
- 2. Execution of *2012 ISWI and MAGDAS School* in Indonesia.**

Background of MAGDAS in Sumatra

1. Sumatra is one of the most seismically active places in the world.
2. Investigate possible links between seismic activity and magnetic field disturbances. “Earth Weather” instead of “Space Weather”.
3. The weather bureau of Indonesia (BMKG) seeks this investigation.

MAGDAS In Sumatra.

All units are located on fault lines.

All are at BMKG stations.



Sicincin, Sumatra

The sensor is 2m
In the ground.



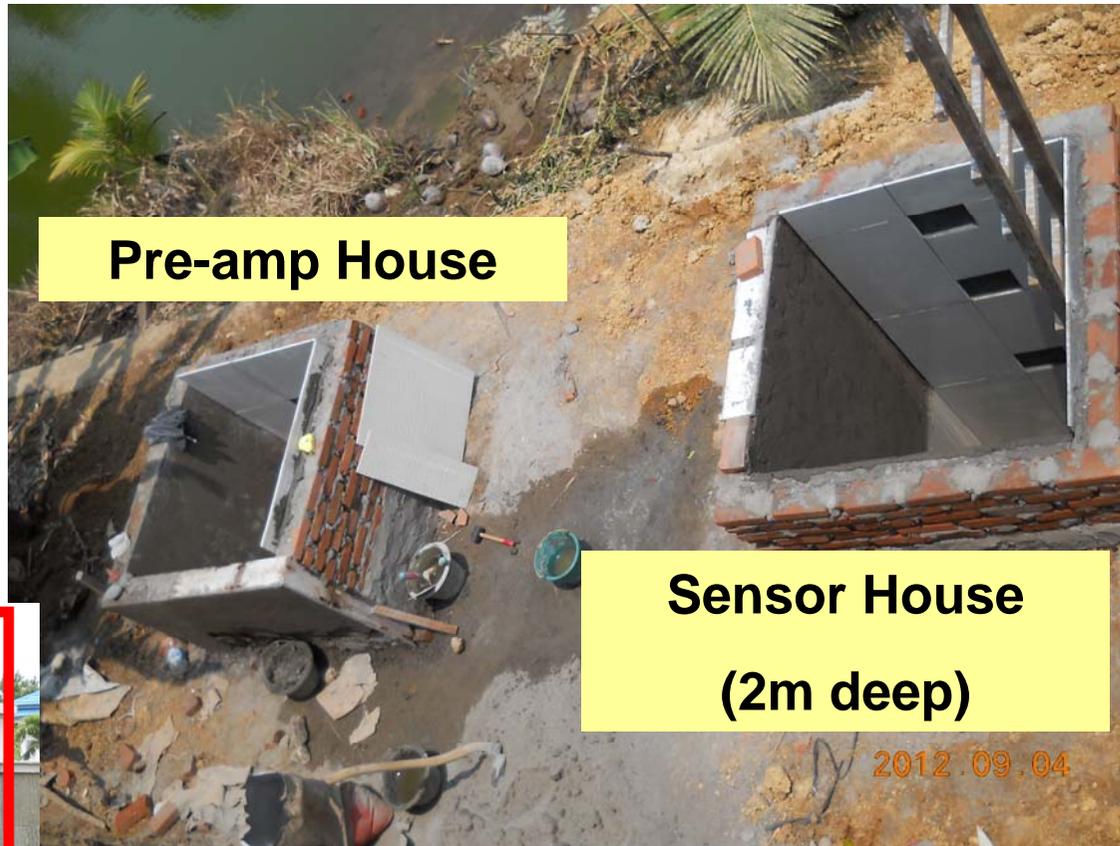
Capacity Building

Installation and maintenance of instrumentation



Data Processing

Bengkulu, Sumatra



Capacity Building



**A great deal
of curiosity!**



九州大学
KYUSHU UNIVERSITY

Liwa, Sumatra



2m deep

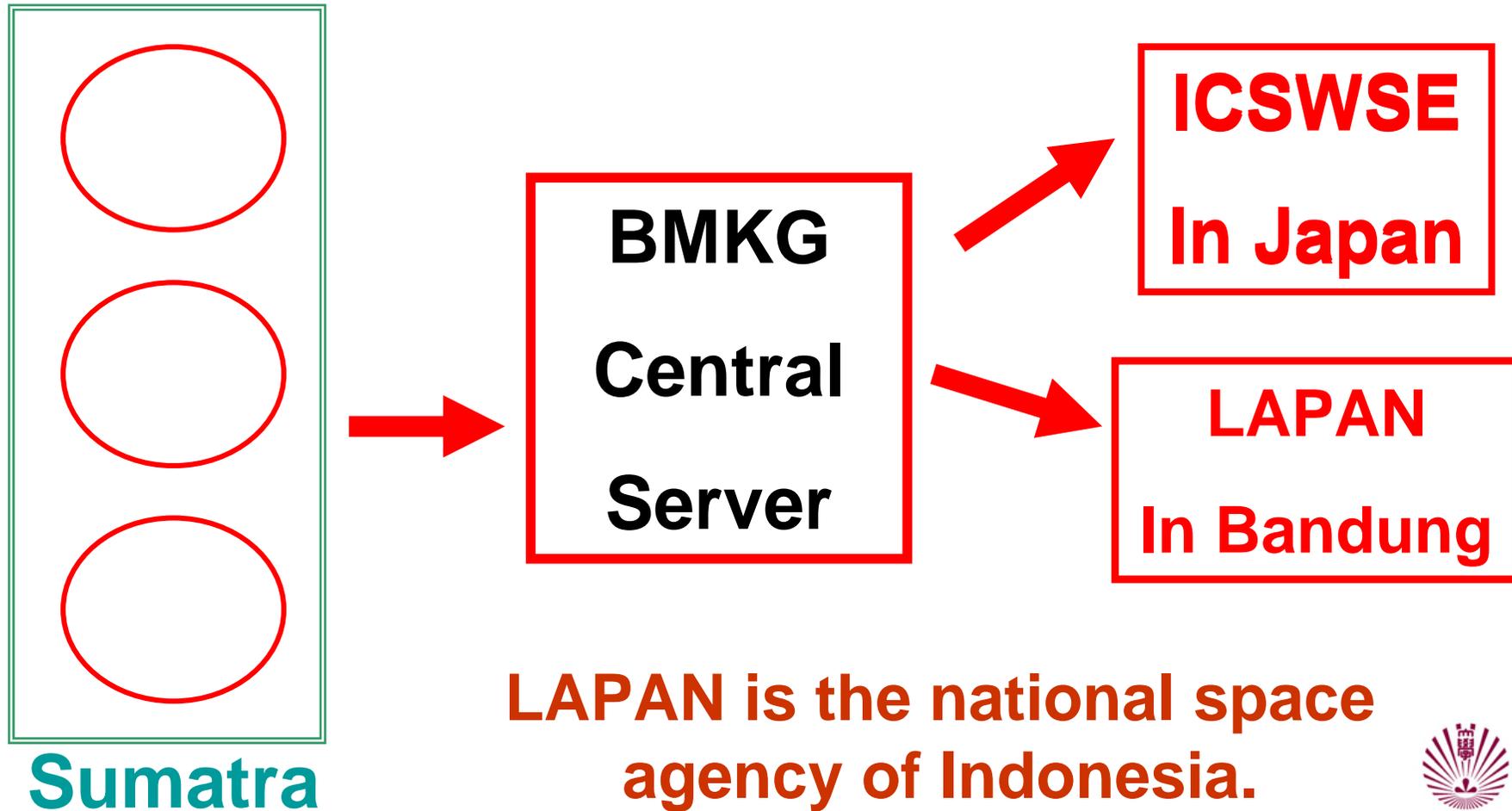


Installation is hard labor.



九州大学
KYUSHU UNIVERSITY

Final Real Time Data Transfer Arrangement



**LAPAN is the national space
agency of Indonesia.**



G. Maeda

S. Ohta

Zana



The *ICSWSE Sumatra Installation Team* deeply thanks BMKG for their kind assistance for all three Sumatra installations.

2012 ISWI & MAGDAS School on Space Science

17-26 September 2012, LAPAN, Indonesia



Primary purpose: Capacity Building

Captured :
17 September 2012 09:15 LT
Ciloto, West Java, INDONESIA



Organizers

- ISWI (NASA funding)
- **LAPAN** (Indonesia gov't funding)
- ICSWSE (JSPS funding)

Well Attended

68 students came in from all over the world, but mainly the Asia Pacific Region.

36 lecturers from all over – mainly experts in the field of space science.

The Venue



九州大学
KYUSHU UNIVERSITY



The certificate given to each participant who completed the entire school.

The 3 School Directors



Next Year

**ISWI School will go to
Hermanus, South Africa.**

**MAGDAS School will go to
Abidjan, Ivory Coast.**

Year after next

MAGDAS School will be held at

ICSWSE

Kyushu University

Fukuoka, Japan.

**During the past 12 months
we also installed at
Pontianak, Jayapura and
Biak – all in Indonesia.**



Pontianak

Biak

Jayapura



九州大学
KYUSHU UNIVERSITY

The 68 MAGDAS Stations

ABJ	Abidjan, Ivory Coast	HER	Hermanus, South Africa	PRP	Pare Pare, Indonesia
ABU	Abuja, Nigeria	HLN	Hualien, Taiwan	PTK	Paratunka, Russia
AMA	Amami Oshima, Japan	HOB	Hobart, Australia	PTN	Pontianak, Indonesia
ANC	Ancon, Peru	HVD	Khovd, Mongolia	ROC	Rockhampton, Australia
ASB	Ashibetsu, Japan	ICA	Ica, Peru	SCN	Sicincin, Indonesia.
ASW	Aswan, Egypt	ILR	Ilorin, Nigeria	SMA	Santa Maria, Brazil
BCL	Bac Lieu, Vietnam	KPG	Kupang, Indonesia	TGG	Tuguegarao, Philippines
BKL	Bengkulu, Indonesia	KRT	Khartoum, Sudan	TIR	Tirunelveli, India
CAN	Canberra, Australia	KTN	Kotel' nyy, Russia.	TIX	Tixie, Russia
CDO	Cagayan De Oro, Philippines	KUJ	Kuju, Japan	TNO	Tono, Tohoku, Japan
CEB	Cebu, Philippines	LAG	Lagos, Nigeria	TWV	Townsville, Australia
CGR	Culgoora, Australia	LAQ	L'Aquila, Italy	WAD	Wadena, Canada
CHD	Chokurdakh, Russia.	LGZ	Legazpi, Philippines	YAK	Yakutsk, Russia.
CKT	Cooktown, Australia	LKW	Langkawi, Malaysia	YAP	Yap Island, Micronesia
CMD	Camden, Australia	LSK	Lusaka, Zambia	ZGN	Zhignsk, Russia
CST	Cape Schmidt, Russia	LWA	Liwa, Indonesia	ZYK	Zyryanka, Russia
DAV	Davao, Philippines	MCQ	MacQuarie Island, Australia		
DAW	Darwin, Australia	MGD	Magadan, Russia		
DES	Dar Es Salaam, Tanzania	MLB	Melbourne, Australia		
DRB	Durban, South Africa	MND	Manado, Indonesia		
DVS	Davis, Australia	MPT	Maputo, Mozambique		
EUS	Eusebio, Brazil	MUT	Muntinlupa, Philippines		
EWA	Ewa Beach, Hawaii, USA	NAB	Nairobi, Kenya		
FYM	Fayum, Egypt	OIS	Oiso, Japan.		

JYP – Jayapura
was added this year.



**Thank you !
from all of us at ICSWSE.**



Participants and lecturers of the MAGDAS Session of the 2012 ISWI and MAGDAS School at Cianjur, West Java, Indonesia.