
* ISWI Newsletter - Vol. 16 No. 004

10 April 2024 *

- * Editor: George Maeda, georgemaeda3[at]gmail.com
- * Archive of back issues: ISWI Website https://iswi-secretariat.org/
- * Archive of all ISWI webinars:
- * https://www.youtube.com/playlist?list=PLaOqa4cng0GF3cKuj6Yz5kqG1BQ-Akkhr
- * Send subscription request to: iswisupport@bc.edu

Dear ISWI Newsletter Subscriber:

There are now two versions of this newsletter:

- [1] Full version, with all attachments
- [2] Text-only version, without the attachments.
- [1] is uploaded to the ISWI website (newsletter archives)

[2] is distributed via email.

The dead line for material submission is: 10th of each month The newsletter is distributed via email a few days later.

As a humanitarian matter, I ask that you read Item [06] below. Dr. Magdi received his Phd from Kyushu University in 2013. He was forced to flee his native Sudan due to the ongoing civil strife in this homeland. He seeks the help and support of the ISWI community. No need to contact ISWI. His contact info is on his CV, which is provided below.

I believe many of you have met Magdi at various events, such as AGU.

Cordially, George Maeda Editor of the ISWI Newsletter

CONTENTS OF THIS ISSUE:

[01] MAGDAS Maintenance in Malaysia

- . By: KIROLOSSE M. GIRGIS; I-SPES, KYUSHU UNIVERSITY; FUKUOKA, JAPAN
- [02] The Geomagnetic Storm of 13th March 1989;
- YouTube video by The History Guy.
- [03] SPACE WEATHER SUMMER SCHOOL: Physics and use of tools . 14-25 October 2024; Conakry, Guinea
- [04] Sixteenth webinar on the International Space Weather Initiative,
- . Dr. Jaroslav Chum Observation of waves in the ionosphere and
- . thermosphere, which took place on Wednesday, 27 March 2024

[05] The CV of Magdi

- [06] A Sudanese member of the ISWI community is now a
- . refugee in Saudi Arabia, and desperately seeks
- . your guidance, advice, support, and information.
- . He has sent a message and has provided his CV.

[07] "International Colloquium on Equatorial and

- . Low-Latitude Ionosphere"; 29 July 2 August 2024;
- . United Nations African Regional Centre for Space Science
- . and Technology Education (UN-ARCSSTEE), Ile-Ife, Nigeria

[01]-----

This is a photo report of recent MAGDAS work in Malaysia:

See: MAGDAS work in Malaysia.pdf 001

[02]-----

13-March-1989; Geomagnetic Storm

https://www.youtube.com/watch?v=BExqqO4l3w0

The History Guy: History Deserves to Be Remembered

1.32M subscribers Mar 13, 2024

Thirty five years ago, on March 13, 1989, Canadian Broadcasting Corporation National News reported "Early this morning six million people across Quebec woke up to darkness and disbelief…the entire province had been hit by a power failure." The people of Quebec were victims of what Dr David Boeteler, head of the Space Weather Group at Natural Resources Canada, called "the biggest geomagnetic storm of the Space Age."

[03]-----

SPACE WEATHER SUMMER SCHOOL: Physics and use of tools

VENUE: 14-25 October 2024; Conakry, Guinea

See: GUINEA_2024-last before-project english_April-2024.pdf 002

[04]-----

.....Received on 3rd April 2024

Dear participants,

The United Nations Office for Outer Space Affairs is pleased to inform you that the recording of the sixteenth webinar on the International Space Weather Initiative, **Dr. Jaroslav Chum – Observation of waves in the ionosphere and thermosphere,** which took place on Wednesday, 27 March 2024, is now available on the YouTube channel of the Office:

https://youtu.be/ujE9Zvc9x24

The current, as well as all previous ISWI webinar sessions can be accessed through the website of the Office at:

https://www.unoosa.org/oosa/en/ourwork/psa/bssi/iswi_webinars.html

Best regards, Patrick Gindler Executive Secretariat of the International Committee on Global Navigation Satellite Systems (ICG) United Nations Office for Outer Space Affairs (UNOOSA)

[05]-----

The CV of Magdi:

See: MAGDI CV_24.pdf 003

[06]-----

Dr Magdi has sent these two files to the ISWI Newsletter:

[1] his CV

[2] a personal message.

BTW, his ORICID ID is: https://orcid.org/0000-0002-7531-7294

See two pdfs:

MAGDI CV_24.pdf 003

My Message.pdf 004 [07]-----

International Colloquium on Equatorial and Low-Latitude Ionosphere:29 July \sim 2 August 2024

Venue

United Nations African Regional Centre for Space Science and Technology Education (UN-ARCSSTEE), Obafemi Awolowo University Campus, Ile-Ife, Nigeria

Information:

https://arcsstee.org.ng/international-colloquium/

See: ICELLI Bulletin Announcement 2024.pdf 005

*********[End of this issue of the ISWI Newsletter]*********

001

This magnetometer installation report was received by the ISWI Newsletter on 18 March 2024

Author: KIROLOSSE M. GIRGIS I-SPES, KYUSHU UNIVERSITY FUKUOKA, JAPAN

MAGDAS Malaysia Trip February 2024

Three destinations:

1. Penang

2. Johor Bahru

3. Kuala Lumpur

Kyushu University team members:

Dr. Shuji Abe Akihiro Kato (M2) Taisei Imaizumi (M2) Kirolosse Girgis



九州大学 国際宇宙惑星環境研究センター

International Research Center for Space and Planetary Environmental Science(I-SPES), Kyushu University

@Penang – PEN MAGDAS Station



Sensor

Amplifier, AD Converter, Logger



From left to right: Two students of Dr. Siti Harwani (3rd person) in charge of **PEN** station @Universiti Sains Malaysia

@Johor Bahru – JOH MAGDAS Station



Data logger, solar power unit, internet router



From left to right: Dr. Zatul Iffa, Dr. Muhammad Asraf, in charge of JOH station @ MARA Technological University

@Kuala Lumpur – Relocation of **PER** (Perak) MAGDAS Station





From left to right: Students with staff members, and Dr. Nurul Shazana (6th person), in charge of the **relocated (PER)** station @National University of Malaysia

Culture and Sightseeing

- 1. Traditional Food
- 2. Landmarks and Nature



Nasi lemak: rice cooked with coconut milk with Roti canai: flatbread with dense curry chili sauce and eggs rolled in banana tree leaves

Char kway teow: Stir-fried noodles









1+2: Next to the Palace of Johor Bahru state's King3+4: Inside and outside the Great Putra Mosque5: @Kuala Lumpur Airport





 Singaporean coast viewed from Johor Bahru city
Inside the campus of Mara Technological University (Mega Solar Energy Project) @Johor Bahru
Landscape views @Kuala Lumpur
Landscape view @Penang





SPACE WEATHER SUMMER SCHOOL Physics and use of tools October 14-25 2024 Conakry, Guinea

<u>2024</u>

Organized by

National Meteorological Agency Directorate General for Innovation

With the support International Space Weather Initiative (ISWI)

and

ICG (International Commission of GNSS)

Under the High Patronage of

The Minister of transport and government spokesperson of the Republic of Guinea Mr. Ousmane Gaoual DIALLO

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	Committees Introduction : The Objectives Motivations Courses Budget and financing

I. <u>THE COMMITTEES</u>

HONORARY COMMITTEE

Mr. Alpha Bacar BARRY, Minister of Higher Education, Scientific Research and Innovation of the Republic of Guinea, President Mr. Ismael NABE, Minister of planning and International cooperation, Vice-President

ORGANIZING COMMITTEE

KOUROUMA Jean Moussa (ANM/Guinea), President DIOUBATE Kaba Higher Education Department, Vice-President SYLLA Mabinty Bagui (ANM/Guinea) DIALLO Ibrahima Sorry (ANM/Guinea) BANGOURA Alhassane Denis (ANM/Guinea) KOIBA Goikwia (ANM/Guinea) KOMAH Mohamed (Ministry of transport/Guinea) WOROKIATOU Kaba (ANM/Guinea) BAH Ibrahima Mbemba (ANM/Guinea) DIALLO Fatoumata Binta (ANM/Guinea) CONTE Oumou (ANM/Guinea) DIAWARA Finou (ANM/Guinea) GUILAVOGUI David (ANM/Guinea) DORE Souwala (ANM/Guinea)

SCIENTIFIC COMMITTEE

LOUA René Tato President (ANM/Guinea) GNABAHOU Allain Vice-President (MESRSI/Burkina Faso) GAYE Idrissa Vice-President (University of Thiès/ Senegal,) LAMAH Daniel (University of Kindia /Guinea) AMORY-MAZAUDIER Christine (LPP/Polytechnic/UPMC/France) LECONTEL Olivier (LPP/France) PITOUT Frédéric (IRAP/ France) HABA Siba (UGANC/Guinea) ZAOURAR Naima (University Hari Boumediene/Algeria),

FACULTY TEAM

AMMAR Ahmed ((LSAMA, Tunisia) COISSON Pierdavide (IPGP, France) EMRAN Anas (University Mohammed V/Morocco) FLEURY Rolland (IMT Atlantique, Brest /France) KANTE Ibrahima Kalil (AGAC, Guinea) KEITA Ibrahima (CERESCOR/Guinea) OULARE Faya SIDIBE Amadou(UJNK/Guinea) GRODJI Franck (University Houphouët Boigny/Côte d'Ivoire) IBIASSY Geoffroy (University Marien Ngouabi/ Congo) KAFANDO Pétronille (University Joseph Ki-ZERBO /Burkina Faso) LECONTEL Olivier (LPP/France) LE HUY Minh (Institut de géophysique de Hanoï /Vietnam) PITOUT Frédéric (IRAP/ France) Dr GUILAVOGUI Kolly Prospère (UZ/Guinea) SOULA Serge (University Paul Sabatier/France) YAHIAT Yasmina (University Hari Boumediene/Algeria) ZAOURAR Naima (Université Hari Boumediene/Algeria) ZAKA Komenan (University Houphouët Boigny/ Côte d'Ivoire) ZERBO Jean Louis (Université Nazi BONI/ Burkina Faso)

II. INTRODUCTION

As part of the international ISWI (International Space Weather Initiative) project, in collaboration with GIRGEA, the 6th IMA (ISWI Maghreb Africa) school will be held in Conakry in October 2024.

The main aim of this school is to raise the level of expertise of students and professionals from the sub-region, enabling them to participate in and contribute to international projects. The two key points are :

- 1) Competence in the use of existing datasets and tools for terrestrial environmental studies; a large amount of environmental and geophysical data is available. The use of existing data is estimated at less than 10%. These data, using new technologies, knowledge of physical phenomena and various models, are the source of original scientific work.
- 2) The development and use, by Maghreb and West African scientists, of the results of studies combining environmental sciences and sustainable development by combining ground data with satellite data e.g. for geophysical studies, telecommunications, positioning etc...

To achieve these objectives the courses will include:

1) A scientific part for understanding the measurements, information that can be extracted from the data and examples of applications in different fields.

2) A computer part on the algorithms used, their performance, and their installation.

3) Practical computer work for the use of algorithms and ground and satellite databases.

4) The use of models like TIEGCM, CTPIM, IRI, NeQuick, IGRF.

5) Presentations of information on new technologies used in this field such as Grid computing, Web services, databases

Therefore, we offer a school to use and discover :

1) All the possibilities of measurements from the ground network of GNSS stations, radar and other instruments located in Africa and around the world, as well as measurements available via Internet: a. Studies of the ionosphere and the Sun's impact on the Earth's ionized environment (International Heliosphere Year and ISWI project);

b. Exploiting other instruments for development.

2) Geographic information systems to manage and visualize spatial data in all fields

3) The development of local databases and the use of existing databases via the Internet and an introduction to new technologies.

The aim of this school is to develop data analysis in Africa, and thus make the most of numerous existing projects (IHY: International Heliophysical Year, ISWI: International Space Weather Initiative, etc.).

It will also provide an opportunity for researchers and scientists from the Maghreb and West Africa who wish to learn or acquire the skills to use existing datasets and tools related to Space Weather studies, to participate in and contribute to international projects.

The IMA schools also bring together young researchers from different Africa countries to forge lasting and fruitful collaborative relationships.

III. MOTIVATIONS

1. Instrument networks in Africa and worldwide

Following on from the International Heliophysical Year 2007-2009 project, the International Space Weather Initiative ISWI program (2010-2012) has continued to develop instrument networks on the African continent and worldwide, including networks of GNSS stations, magnetometers, radars, etc.... (See figure below from http://www.iswi-secretariat.org).



GIRGEA (Groupe International de Recherche en Géophysique Europe Afrique www.girgea.org) has been present in Africa for over 30 years, and has developed research teams in various countries in Africa (Algeria, Burkina Faso, Côte d'Ivoire, Egypt, Guinée, Morocco, DRC, Senegal, etc.) and Asia (Vietnam, Nepal, Pakistan, etc).

In tropical and equatorial zones, it is necessary to know the contributions of the ionosphere (ionized layer surrounding the earth and located between 90 and 1000 km) and the atmosphere to the GNSS signal for numerous and diverse applications, as the crossing of these two media disturbs the signals received.

This school will focus on

- GPS applications to study the impact of the sun on the ionized layers of the atmosphere;
- Ocean-atmosphere interface and climate variability;
- Meteorological applications for sustainable development;
- GIS and remote sensing;
- EGNOS.

The adoption of information and communication technologies (ICT) and access to the Internet are booming in Africa, but because of their rapid growth worldwide, the digital divide between Africa and the rest of the world persists. So it's important to inform and train scientists and students about new database management techniques (creating and using existing ones): Data warehousing, data mining, mass data analysis, etc. We need a better understanding Internet network monitoring methods, to check its evolution, and accessing computers and the computing grid to enable them to exploit their data, run their simulations, and collaborate with teams from all over the world.

2. Formation : ECOLE de METEOROLOGIE DE l'ESPACE

GIRGEA has already organized schools in Côte d'Ivoire (1995, 2017, 2022), Republic of Congo (2009), Egypt (2010), DRC (2011), Algeria (2013), Morocco (2011, 2014, 2015), Senegal (2019). All previous school reports can be found at www.girgea.org.

The schools aim to:

1) to introduce students to Sun-Earth relations and Space Meteorology with specialists from different disciplines (Sun physics, solar wind, magnetosphere, ionosphere, troposphere and internal and external magnetic field), to Ocean-atmosphere interaction.

2) analyze existing data from these different disciplines, using digital tools such as computing grids, data servers, the Internet and intensive computing resources,

3) develop student scientific mini-projects on a given event,

4) learn how to manage a project, write a thesis and publish scientific papers, and take part in national and international calls for tenders,

5) promote exchange and cooperation between students of different nationalities,

6) to publish in refereed journals, despite the sometimes difficult-to-find costs.

3. The project

The school is open to 40 participants from universities in west, central and east Africa and North Africa. Participants must already have a basic knowledge of computers and databases.

The aim of the school is to enable participants to :

- Master GPS handling and information gathering in the field;

- Master the use of GPS data according to their field of expertise and possible applications;

- Introduction to cartography and mastery of basic and advanced GIS functionalities using various standard software packages;

- Enhance knowledge of climate variability and ocean-atmosphere interaction;

- Promote synergy between GIS and GPS in different fields of application.

At the end of the course, participants should be able to:

For Space Weather

- Analyze solar activity and its impact on the Earth's environment and related systems.

For GNSS

- Know how to use a GPS (different instrument functions, installation);

- Quantify the various errors in positioning accuracy and analyze correction systems such as local differential GNSS or geostationary satellites,

- Exploit measurements on the ground or on board satellites/sondes for morphological studies of the atmosphere, ionosphere and geodesy,

- Analyze existing satellite navigation systems and their evolution;

- Know the different fields of application.

For SIG

- Build a geographic database (opening and creating layers, scanning, digitizing, structuring and organizing geographic data, modifying or deleting graphic objects, changing coordinates and manipulating projection systems, geo-referencing, integrating GPS points into an existing base map);

- Carry out thematic and spatial analyses (cartographic rendering);

- Know the equivalences between software (principles and terminology).

For GPS and GIS

- Know how to handle: recording, identifying, storing, searching for coordinates of points in the field, transferring points, etc. ... ;

- Know the databases of interest in the various fields covered;
- Know how to collect field data from a GPS and transfer it to a GIS.

For new technologies

- Know the calculation resources available and the underlying techniques,
- Know how to create databases and portals to access them,
- Technical support for network monitoring,
- Participate and collaborate in the global effort for new technologies.

Practical applications should be based on a variety of thematic data and concern areas of national interest.

An analysis of the targeted needs of the participants and their level will be made as soon as registration opens.

We recommend that registered students bring their own laptops.

Course content is generally provided at the end of each session.

Participants will include master's students, thesis students and staff from universities and other organizations requiring training upgrades.

IV. COURSES

-2 weeks of 40 hours spread over 10 days => ~ 80 hours

A detailed timetable will be proposed in November 2023

V. ESTIMATED BUDGET

As far as school funding is concerned, GIRGEA is a network with no permanent infrastructure, and only runs training schools as part of major projects with the help of various laboratories and international structures. The institutions of the professors taking part in the training contribute by covering the mobility of the teachers. The GIRGEA rules of procedure suggest that the country organizing the school should pay for the catering and accommodation of teachers and students. In keeping with the GIRGEA spirit of helping and sharing knowledge, teachers do not receive per diems. Half of the students attending the school are from the host country, and the other half come from Maghreb and West African countries.

Student tickets are paid for by various organizations (AUF, French embassies, PNST, CNRS, SCOSTEP, ICTP, ICG, EGNOS, Nagoya University etc.).

	Quantity	Description	P.U. (fr guinean)	Cost (fr guinean)	Cost (euros)
Supplies	100	Ballpoint pen with badge	50000	5 000 000	571
	100	Folder with flap	5000	500 000	82
	5	Carton of reams of paper	50000	250 000	55
T-shirts	100		150000	15 000 000	1 658
Restauration	1320 (60 pers.x11jx2)	Coffee break	15000	19 800 000	2 179
	660 (60 pers.x11j)	Lunch (startee/resistance/ mineral water/dessert/water in room)	250000	165 000 000	17 957
Transport / logistic	12j	Mini Bus vehicle rental	1000000	12 000 000	1 332
	11j	Conference room	1500000	16 500 000	1 821
Accommodation	240	(20 rooms with 2 beds for 12 nights)	900000	216 000 000	23 499
	240	(20 rooms with 1 bed for 12 nights)	1000000	240 000 000	26 106
Fees	20	Teachers (Dinner)	250000	5 000 000	571
	40	Auditors (Dinner)	250000	10 000 000	1 115
Excursions	2	Excursions	5000000	10 000 000	1 115
Media coverage	5	TV, Radio, online Press	3000000	15 000 000	1 658
Unforessen events	1		5000000	5 000 000	571
				735 050 000	80291

Local budget covered by Guinea

Air tickets for certain teachers paid for by their institution when the institution is able to pay for them.

Countries	Cost per unit (euros)	Number	Total cost (euros)
Algeria	900	2	1800
Burkina Faso	800	3	2400
Côte d'Ivoire	700	2	1400
France	750	7	5250
Morocco	1200	1	1200
Senegal	500	1	500
Republic du Congo	1200	1	1200
Tunisia	600	1	600
Vietnam	1800	1	1800
Total		19	16150

Student air tickets (2 per participating country)

Country	Cost per unit (euros)	Number	Total cost (euros)
Algeria	900	2	1800
Benin	1000	2	2000
Burkina Faso	800	2	1600
Cameroon	1200	2	2400
Morocco	1200	2	2400
Republic of Congo	1200	2	2400
Democratic Republic of Congo	1300	2	2600
Tchad	1400	2	2800
Côte d'Ivoire	700	2	1400
Senegal	500	2	1000
Tunisia	600	2	1200
Total		20	21 600

MAGDI ELFADIL Y SULIMAN

C. V.

February 23, 2024



MAGDI ELFADIL YOUSIF SULIMAN



Mahasin district, Al-Ahsa, Eastern Province, Kingdom of Saudi Arabia Tel: +966506280743 Email: magdielfadil@gmail.com;

magdinipon@gmail.com

003

PERSONAL PROFILE

- Committed to administration of ground geomagnetic data observatory
- Qualified teacher and led research activities within Faculty
- Continuing and increasing interest in the pedagogy of Physics and Space Science

EDUCATION

2010 – 2013 Kyushu University, Faculty of Science, Division of Graduate School of Science, Department of Earth and Planetary Sciences, Fukuoka, Japan

Doctor of Science (Funded by Japanese Government, G30 Scholarship)

Thesis Title: On the remote sensing of space weather parameters using ground based observations of low- latitude Pc 5 pulsations

Supervisor: Prof Dr. Yoshikawa and his predecessor Late Prof Dr. Kiyohumi Yumoto.

Brief Synopsis: motivated by work of a former researcher towards establishing a low latitude ground based Pc 5 pulsation index, an investigation was carried out on correlations of ground observed low latitude Pc5 amplitudes classified as global mode with wide longitudinal spread with space weather parameters, i.e., solar wind speed, pressure, and geo-synchronous high energetic electron fluxes.

January- 2010 – October- 2010 African Regional Center for Space Science and Technology Education- in English (ARCSSTE-E), hosted by Obafemi Awolowo University campus, lle Ife, Osun state, Nigeria

Post Graduate Diploma

GPA 4.5 (On 5 Point Scale)

2005 – 2007 Sudan University of Science and Technology (SUST), Khartoum, Sudan

MSc. in Solid State Physics

Dissertation Title: Optimization of a solar System

1997 – 2001 Sudan University of Science and Technology, Khartoum, Sudan

BSc. in Physics Science – First Class Honors

2013 – Present: Sudan University of Science and Technology, College of Science, Physics Department, Khartoum, Sudan

February 23, 2024

Assistant Professor (Full time)

- Full responsibility of the High Diploma course program, the program coordinator and a contributor in teaching program courses
- Obligated in teaching of programs' courses, both basic and advanced, as examples, but not limited to: Fundamental Physics, Mechanics, Space and Plasma Physics, Plasma Physics, Astronomy, Statistical Mechanics, Classical and Basic Quantum Mechanics, and Electrodynamics
- Managed Departmental issue, as head of the Department
- Engaged with a job in the College administration, performed responsibilities of the Registrar of the College of Science

2007 – 2013: Sudan University of Science and Technology, College of Science, Physics Department, Khartoum, Sudan

Lecturer (Full time)

- Obligated in teaching of the B. Sc. program courses, as examples, but not limited to: Vibration and Waves, Physical and Geometrical optics, and General Physics
- Managed laboratories, acted as academic supervisor in basic Physics laboratories

2002 – 2007: Sudan University of Science and Technology, College of Science, Physics Department, Khartoum, Sudan

Teaching Assistant (Full time)

- Assisted the academic staff in pursuing Physics courses within the College academic programs
- Obligated to demonstrating in Physics laboratory experiments to students

SKILLS

Teaching

- Contributed in teaching Physics courses in the B. Sc., within the University (SUST) programs
- Mentored post-graduate students
- Supervised research dissertations, and co-supervised research theses

Computing

- Experienced user of MATLAB in analysis of geomagnetic data and interpreting research results
- Confident in using of Microsoft packages
- Frequent user of operating systems Windows and sometimes of LUNIX systems

Administration

- Administrated the Geomagnetic Ground Station (observatory) at Khartoum, the station belongs to the Magnetic Data Acquisition System (MAGDAS) project of the former International Center for Space Weather Science and Education (ICSWSE) of Kyushu University, Japan
- Supervised student theses and set and marked examinations
- Committed to organization and planning of seminars and workshops, example a workshop: Introduction to Space Science and Solar Cells; Khartoum, Sudan; Report Published online at: ISWI Newsletter- Vol.6 No.036, 01 June, 2014. Home Page: http://www.iswi-secretariat.org/

PUBLICATIONS

- [1] Magdi Elfadil Yousif Suliman. (2021, April) Center for International Collaborative Research: SCOSTEP/PRESTO Newsletters; Vol.27; pp. 3-4, 29 April 2021. [Online]. <u>https://cicr.isee.nagoya-u.ac.jp/site1/info_e/scostep_newsletter.html</u>
- [2] MAGDI ELFADIL YOUSIF SULIMAN "マグディエルフアデイル ヨセフ スリマン". (2013, Sep.) Kyushu University Library: Institutional Repository, Doctoral Thesis, <u>doi.org/10.15017/1398314</u>. [Online]. <u>https://hdl.handle.net/2324/1398314</u>
- [3] Magdi E Yousif Suliman, et. al., "The relation between amplitudes of a global-mode Pc 5 pulsations and geosynchronous electron fluxes," 2013 IEEE International Conference on Space Science and Communication (IconSpace), Melaka, 2013, pp. 150-155, <u>doi: 10.1109/IconSpace.2013.6599453</u>.
- [4] M, E. Yousif Suliman, et al., (2012, December) The SAO/NASA Astrophysics Data System, AGU Fall Meeting Abstracts. [Online]. <u>https://ui.adsabs.harvard.edu/abs/2012AGUFMNH51A1798Y</u>
- [5] M. Jusoh, M. E. Yousif Suliman, H. Liu, and K. Uozumi, T. Takla, E., M. Kawano, H. Yoshikawa, A. Asillam, M. Hashim, M. Yumoto. (2012, December) The SAO/NASA Astrophysics Data System, AGU Fall Meeting Abstracts. [Online]. <u>https://ui.adsabs.harvard.edu/abs/2012AGUFMGP21A1154J</u>
- [5] Magdi Elfadil Yousif Suliman. (2013, May) Japan Geoscience Union Meeting 2013, Abstract PEM05-P11. [Online]. <u>https://www2.jpgu.org/meeting/2013/session/PDF/P-EM05/PEM05-P11_E.pdf</u>

Conferences and Workshops Presentations

[1] Yousif Suliman. Magdi E, et al. (2015, April) United Nations office for Outer Space Affairs: hosted on the ISWI-Secretariat Website. [Online]. <u>http://newserver.stil.bas.bg/ISWI/Outreach/2015mar5/Ses63Suliman.pdf</u>

My ORICID ID: https://orcid.org/0000-0002-7531-7294

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Theses and dissertation supervising

- [1] Nusaiba Omer Ali Mohager and Supervisor: Magdi Elfadil Yousif Suliman. (2019, Nov.) Sudan University of Science and Technology (SUST) Repository. [Online]. <u>http://repository.sustech.edu/handle/123456789/24453</u>
- [2] Banona Osman Mohammed Ali Fedail and Supervisor: Magdi Elfadil Yousif Suliman. (2019, Aug.) Sudan University of Science and Technology (SUST) Repository. [Online]. <u>http://repository.sustech.edu/handle/123456789/23984</u>
- [3] Sabah Ahmed Alshreef Abass and Supervisor: Magdi Elfadil Yousif Suliman. (2019, June) Sudan University of Science and Technology (SUST) Repository. [Online]. <u>http://repository.sustech.edu/handle/123456789/23927</u>
- [4] Wasel Hayder Abdalraheem Taha and Supervisor: Magdi Elfadil Yousif Suliman. (2018, Feb.) Sudan University of Science and Technology (SUST) Repository. [Online]. <u>http://repository.sustech.edu/handle/123456789/22710</u>
- [5] Eshraga Adel Altyp Abdel Salam and Supervisor: Magdi Elfadil Yousif. (2018, Feb.) Sudan University of Science and Technology (SUST) Repository. [Online]. <u>http://repository.sustech.edu/handle/123456789/20801</u>
- [6] Magzoob Hassan Naser Abobakr and Supervisor: Magdi Elfadil Yousif Suliman. (2017, Mar.) Sudan University of Science and Technology (SUST) Repository. [Online]. <u>http://repository.sustech.edu/handle/123456789/15926</u>
- [7] Nafisa Mamoun AbdAlmaged Ahmed and Supervisor: Magdi Elfadil Yousif Suliman. (2017, Mar.) Sudan University of Science and Technology (SUST) Repository. [Online]. <u>http://repository.sustech.edu/handle/123456789/18453</u>
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AWARDS AND FUNDING

[1] The G-30 Scholarship from the Japanese Government, the ministry of culture and high education (MEXT) scholarship: A scholarship to study for doctor of science degree from Kyushu University, 2010.

[2] A full scholarship from the National Space Research and Development Agency (NASRDA) of Nigerian government and the UN office for Outer Space Affairs (UNOOSA), A scholarship to study for post graduate diploma degree in Basic space science from the African Regional Center for Space Science and Technology Education, 2009.

[3] Winner of the Prize of the Minister of Higher Education from the Sudan Institute for Natural Sciences, University of Khartoum, Sudan, 2002.

February 23, 2024

REFERENCES

1. Professor (Full time): **Dr. Yoshikawa Akimasa**, Department of Earth and Planetary Sciences, School of Sciences, Kyushu University, Fukuoka, Japan; Phone: +81-92-802- 6240 email address: <u>yoshikawa.akimasa.254@m.kyushu-u.ac.jp</u>.

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project.com/newsletter.html; email address: georgemaeda3@gmail.com.

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A request for support, help and promote to sustain advancing space weather data provision and research within region even though the conflict in my country Sudan

By: MAGDI ELFADIL YOUSIF SULIMAN (Sudan University of Science and technology, Khartoum, Sudan.)

Usually in the part of the world where I come from we'd accustomed to many things to occur that else parts of the world never expect, such as breakout of mass suffering causes, but this time around what happened in my country Sudan the much worst thing to happen, that is war, as it break on April 15, 2023. We were at Khartoum and I was living in Tuti Island, very close to the republicans palace in Khartoum, that's why the risk was so high for me and my family, but that was never the only suffering part, we were forced to stay at the island for about five months tolerating many things, including the high risk losing our lives. However, as academician our suffering extended even to include the stop of our study and research job, which too worst to us.

Therefore, we fled our home and finally found a way to stay within our region in this part of the world, that is, in the kingdom of Saudi Arabia, and fortunately, its universities contain a some space weather related programs, including observation and data analysis, so my current efforts are to find an opportunity to join one of these universities, or even another opportunity worldwide so as to continue my hard work to sustain advancing space weather data provision and research. I trust ISWI community that they can do something to me, a support, help, promote, and recommendation.

NB. Recent research work I'm doing include assessment of space weather impact in low latitude region, in Sudan as a case study, my country.

9 March 2024

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International Colloquium on Equatorial and Low-Latitude Ionosphere

29 July - 2 August 2024

Venue

United Nations African Regional Centre for Space Science and Technology Education (UN-ARCSSTEE), Obafemi Awolowo University Campus, Ile-Ife, Nigeria

https://arcsstee.org.ng/international-colloquium/

Co-organised by UN-African Regional Centre for Space Science and Technology Education in English (UN-ARCSSTE-E) Scientific Committee on Solar Terrestrial Physics PRESTO/SCOSTEP UN-International Space Weather Initiative Institute for Space-Earth Environmental Research (ISEE), Nagoya University, Japan Boston College, USA, Network of Space-Earth Environmentalist (NSEE) University of Oslo, Norway JSPS Program African Geophysical Society

About the Colloquium

International Colloquium on Equatorial and Low Latitude Ionosphere (ICELLI) is an annual capacity building workshop geared towards understanding of the Sun and its impact on space weather; the dynamics of the equatorial ionosphere, its complexities and high level of dynamics which results in phenomena such as spread F, ionospheric anomaly, equatorial electrojet, equatorial plasma fountain, etc; and how space weather impact on telecommunications, Navigation, satellite operations, and other space-based technologies. In 2019, the Colloquium metamorphosed from a summer school-like programme tagged International School on Equatorial and Low Latitude Ionosphere (ISELLI) which held in Abuja and Ota, Nigeria in 2015 and 2017 respectively. This year's colloquium, tagged 'ICELLI 2024,' would be the 8th edition of this capacity building gathering in Nigeria.

The equatorial region, also known as the low latitude region, refers to the region within $\pm 20^{\circ}$ on either side of the geomagnetic equator. The great effect of the equatorial ionosphere on space-based technologies, due to its associated complexities dynamics, has made the region a point of international collaborative focus in scientific research.

The activity is planned to run for a period of 5 days. The program of the Colloquium includes discussions of the rather wide range of phenomena, such as: equatorial ionosphere, equatorial electrojet, equatorial ionospheric anomaly, geomagnetic disturbances, geomagnetically induced currents, solar-terrestrial relations, stratospheric warming, space weather, theory and modeling of ionospheric scintillation and irregularities, utilization of equatorial orbital plane for satellite technology, presentation of results from different and novel techniques for probing the equatorial ionosphere etc.

This edition shall like the past editions feature a composition of tutorials, seminars, conference and hands on training on every aspect of research and techniques bordering on the dynamics of equatorial and low latitude ionosphere as well as space weather.

This year's edition shall have 2 days dedicated to emerging topics of interest such as applications of Artificial Intelligence AI, Machine Learning, open-source programming languages and non-linear tools towards understanding and predictability of complex space weather processes for effective operational systems.

This Colloquium shall offer opportunities for presentation of standard contributions (oral and poster), delivery of invited papers by distinguished scientists with the intention of educating young scientists, as well as exhibition of space-dependent technologies and measurement systems relevant to ionospheric studies. The forum shall serve as an effective meeting point for scientists, policy makers, students and designers of space-dependent technologies. This year's edition shall also have a hybrid component.

Working language

The working language of the Colloquium is English.

Application: Online

https://arcsstee.org.ng/international-colloquium/

Support

Travel and logistic support shall be made available to participants who will have to apply. Such support shall be communicated well in advance to the successful applicants.

Timelines

Registration and abstract submission for those seeking financial support will close on May 31, 2024

Registration and abstract submission will close on June 5, 2024

THIS ANNOUNCEMENT WAS RECEIVED BY THE ISWI NEWSLETTER ON 9 APRIL 2024 FROM PROF. B. RABIU.