

THIRD CIRCULAR



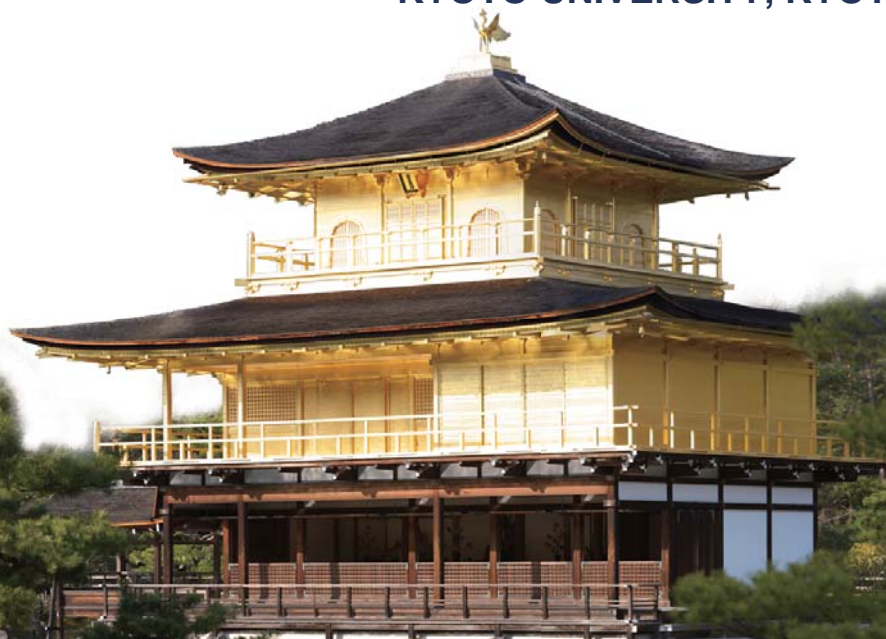
ICSU
WORLD DATA SYSTEM

The First **ICSU** **World Data System** Conference

– Global Data for Global Science –

September 3-6, 2011

KYOTO UNIVERSITY, KYOTO, JAPAN



PROGRAM

Introduction

The WDS Scientific Committee is pleased to invite WDS Members and interested parties to *The First ICSU World Data System Conference: Global Data for Global Science* on 3-6 September 2011 to be held in Kyoto. This will be the first international gathering of the WDS community and the perfect occasion to launch this ambitious programme. It will be also a unique opportunity to share common experiences and achievements and promote the importance of data management and long term data stewardship.

The ICSU World Data System (WDS) came officially to existence through a decision of the 29th General Assembly of the International Council for Science (ICSU) in October 2008 guided by the following strategic vision:

"...WDS will support ICSU's mission and objectives, ensuring the long-term stewardship and provision of quality-assessed data and data services to the international science community and other stakeholders."

The WDS has committed to advance the universal and equitable access to scientific data and information and to encourage multidisciplinary science. As you will discover in the programme of this conference, two dedicated sessions-one on: *Data Publication (S7)* and another on *Data Intensive Multidisciplinary Sciences (S5)*-will strive to address these challenges with a focus on multidisciplinary data in the field of disasters and their impacts on society.

Another pressing challenge facing science is the integration of scientific data from all disciplines-including the social sciences- in order to create an integrated framework for scientists to produce openly accessible scientific knowledge useful to society. This vision guides the transition from isolated data centres and services to a common globally interoperable distributed data system, incorporating emerging technologies and new scientific data activities. The *Application of information technologies to Data Systems (S6)* session will provide an opportunity to highlight scientific and technological advances that could facilitate the achievement of the World Data System.

This conference will inaugurate a series of biennial WDS Conferences which will evolve to provide WDS Members with a forum for discussions and a unique platform to participate in the development of the System.

We look forward to your participation.

1. Conference Schedule

Date	Morning 09:10–12:00	Lunch 12:00–13:30	Afternoon 13:30–17:40	Evening
Friday 2 Sept			Registration (15:00 –)	
Saturday 3 Sept	<ul style="list-style-type: none"> • Opening Talks (S1) • What is ICSU WDS (S2) 		<ul style="list-style-type: none"> • Partnership and coordination (S3) • Activity Reports from WDS Members (S4.1) 	<ul style="list-style-type: none"> • Poster Viewing • Icebreaker
Sunday 4 Sept	<ul style="list-style-type: none"> • Activity Reports of WDS Members (S4.2) 	Poster Viewing	<ul style="list-style-type: none"> • Data Intensive Multi-Disciplinary Sciences - Disasters Data Management - (S5.A) • Data Intensive Multi-Disciplinary Sciences - Multi-Disciplinary Data Systems for Earth Science - (S5.B) 	
Monday 5 Sept	<ul style="list-style-type: none"> • Application of information technologies to Data Systems (S6) 	Poster Viewing	<ul style="list-style-type: none"> • Data Publication (S7) 	<ul style="list-style-type: none"> • Poster Viewing • Meetings • Banquet
Tuesday 6 Sept	<ul style="list-style-type: none"> • Open Session • ICSU WDS Members' and Partners' Open Forum (S8) • Summary Session 			
Wednesday 7 Sept	WDS-SC #5		WDS-SC #5	
Thursday 8 Sept	WDS-SC #5		WDS-SC #5	

2. Detailed Program

Oral

(Room: ICH 2+3)

Saturday 3 September

10:00 – 11:10

Session 1 (S1): Opening Talks

Chairs: J.B. Minster and T. Watanabe

10:00-10:10 Greetings from NICT/WDS-IPO (Invited)

H. Miyahara

10:10-10:20 Greetings from ICSU (Invited)

R. Kuroda

10:20-10:30 Greetings from CODATA (Invited)

H. Guo

10:30-10:40 Greetings from Science Council of Japan (Invited)

H. Karaki

10:40-10:50 Greetings from Kyoto University (Invited)

K. Yoshikawa

10:50-11:05 Introductory Talk of the 1st WDS Conference (Invited)

J.B. Minster

11:05-11:10 From LOC (Practical information)

T. Iyemori

11:10 – 11:25 Coffee Break

11:25 – 12:30

Session 2 (S2): What is ICSU WDS

Chairs: T. Watanabe

11:25-11:55 What is ICSU WDS? (Invited)

J.B. Minster

11:55-12:15 Data Publication (Invited)

M. Diepenbroek

12:15-12:30 WDS-IPO and NICT (Invited)

Y. Murayama

12:30 – 13:30 Lunch

13:30 – 14:30

Session 3 (S3): Partnership and coordination

Chairs: M. Mokrane

13:30-13:50 Strategic Coordination of ICSU Data Archives (Invited)

P. A. Fox

13:50-14:10 WDS CODATA Partnership on Data Management (Invited)

R. S. Chen

14:10-14:30 Data Needs for Earth System Science for Global Sustainability: a perspective from IGBP (Invited)

M. Uematsu

14:30 – 14:50 Coffee Break

14:50 – 16:10

Session 4 (Part 1) (S4.1): Activity Reports from WDS members

Chairs: D. Clark and A. Kadokura

14:50-15:10 WDS Membership Status (Invited)

L. Rickards

15:10-15:30 The Global Observing Systems Information Center (GOSIC): Comprehensive Portal for Global Climate Data and Information. (Invited)

H. J. Diamond

15:30-15:50 WDS related activity of former ICSU/WDCs in Japan (Invited)

T. Iyemori

15:50-16:10 The Australian Antarctic Data Centre (Invited)

K. T. Finney, M. Jordan

16:10 – 16:30 Coffee Break

16:30 – 17:25

Chairs: D. Clark and A. Kadokura

16:30-16:50 Providing quality-assessed oceanographic data and services to the international science community (Invited)

G. Reed, L. Rickards, A. Troisi

16:50-17:10 Development of WDS Russian-Ukrainian segment (Invited)

M. Shaimardanov, A. Gvishiani, M. Zgurovsky, A. Sterin, A. Kuznetsov, N. Sergeyeva, E. Kharin, K. Yefremov

17:10-17:25 Measurements of Total Radio Flux from the Sun for Sixty years

K. Shibasaki

17:25 – 19:45 Poster Viewing & Icebreaker

Sunday 4 September

09:10 – 11:00

Session 4 (Part 2) (S4.2): Activity Reports of WDS Members

Chairs: L. Rickards and A. Kadokura

9:10- 9:25 The contribution of a Geophysical Data Service: the International Service of Geomagnetic Indices

M. Menvielle

9:25- 9:40 Operations of the World Data Centre for Geomagnetism (Edinburgh)

S. J. Reay, E. B. Dawson, S. Macmillan, S. M. Flower, T. J. G. Shanahan, T. S. Humphries

9:40- 9:55 Activities and Plan of Center of Geophysics (Beijing) from WDC to WDS

F. Peng, J. Zhang, M. Ma, G. Chen, Y. Li, D. Wang, M. Zhang, L. Peng, X. Yuan, Y. Zhang

9:55-10:10 The International Center of Earth Tides as a WDS Service: goals and challenges

J.-P. Barriot, Y. Verschelle, A. Gabillon

10:10-10:25 Strasbourg Astronomical Data Centre (CDS)

F. Genova

10:25-10:40 Overview of the World Data Center for Space Science Beijing and Recent Activities

Z. Zou, J. Tong

10:40 – 11:00 Coffee Break

11:00 – 12:00

Chairs: L. Rickards and A. Kadokura

11:00-11:15 Strategy and Current Status of Biodiversity Data Integration in Taiwan

K.-T. Shao, K.-C. Lai, Y.-C. Lin, C.-J. Ko, C.-H. Hsu, H. Lee, Y.-C. Chen, H.-W. Hsu, H.-Y. Li, L.-S. Chen

11:15-11:30 Development of World Soil Information Web Services (WoSIS)

N.H. Batjes, H.I. Reuter, P. Tempel, J.G.B. Leenaars, P.S. Bindraban

11:30-11:45 Global Argo Data Management and Service in NMDIS

F. Ji, S. Lin, M. Dong

11:45-12:00 The British Geological Survey's new geomagnetic data web service

C. E.B. Dawson, J. Lowndes, P. Reddy, S. Reay

12:00 – 13:30 Lunch (+ Poster Viewing)

13:30 – 15:45

Session 5-A (S5.A): Data Intensive Multi-Disciplinary Science

- Disasters Data Management -

Co-convened with ICSU Integrated Risk Disaster Research (IRDR) programme

Chairs: A. Wirtz and K. Takara

13:30-13:55 Integrated Disaster Risk: From Research to Practice (Invited)

J. E. Rovins

13:55-14:20 The need for data – Natural disasters and the challenges of loss data collection and management (Invited)

A. Wirtz

14:20-14:40 Various database management systems available for analysis and prediction of extreme hazards and disaster reduction (Invited)

K. Takara

14:40-15:00 Data Science for Reengineering of Engineerings beyond FUKUSHIMA (Invited)

S. Iwata

15:00-15:15 Data Integration and Visualization for Multi-Disciplinary Disaster-related Data after Tohoku Earthquake 2011

A. Kitamoto

15:15-15:30 Full-text Database of Historical Earthquake Documents in the Ancient and Medieval Ages in Japan

S. Hara

15:30-15:45 Multi-disciplinary approaches to intelligently sharing large-volumes of real-time sensor data during natural disasters

S. E. Middleton, Z. Sabeur, P. Löwe, F. Chaves, S. Tavakoli

15:45 – 16:00 Coffee Break

16:00 – 17:30

Session 5-B (S5.B): Data Intensive Multi-Disciplinary Science

- Multi-Disciplinary Data Systems for Earth Science -

Chairs: T. Watanabe and F. Genova

16:00-16:20 Managing Very Diverse Data for Complex, Interdisciplinary Science

-- Lessons fro the International Polar Year (Invited)

M. A. Parsons, Ø. Godøy, E. Le Drew, T. F. de Bruin, B. Danis, S. Tomlinson, D. Carlson

16:20-16:40 Data Integration and Analysis System (DIAS), a legacy for Japan's contributions to the Global Earth Observation System of Systems (Invited)

T. Koike (GEOSS)

16:40-16:55 Multi-Disciplinary Data Services for the Ocean, Earth, and Polar Sciences

: The Integrated Earth Data Applications (IEDA) Facility

K. A. Lehnert, S. M. Carbotte, W. F. Ryan, V. Ferrini, R. Arko, C. Chan, L. Hsu

16:55-17:10 Mathematical Tools for Geomagnetic Data Monitoring and INTERMAGNET Russian Segment

A. Soloviev, S. Agayan, S. Bogoutdinov, A. Gvishiani, R. Kulchinskiy, A. Chulliat, J. Zlotnicki

17:10-17:25 Long-term variability of winds and tides in the equatorial and low-latitude mesosphere and lower thermosphere

V.R. Narukull, T. Tsuda, D. M. Riggan, S. Gurubaran

17:25-17:40 Study on multi-disciplinary scientific expedition data integration and transect grade change analysis in North East Asia area

J. Wang, Y. Yang, Y. Yang, L. Zhu

09:10 – 10:35

Session 6 (S6): Application of information technologies to Data Systems

Chairs: B.-J. Minster, B. Yan and T. Ogino

9:10- 9:30 A Science Cloud for Space Weather Operations and Other Researches (Invited)

K. T. Murata, S. Watari, T. Nagatsuma, M. Kunitake, H. Watanabe, K. Yamamoto, Y. Kubota,
Y. Murayama, H. Kato, T. Tsugawa

9:30- 9:50 SPASE: The Connection Among Solar and Space Physics Data Centers (Invited)

J. R. Thieman, D. A. Roberts, T. A. King

9:50-10:05 Proposed framework for the curation of data in the WDS

P.A. Laughton, T Du Plessis

10:05-10:20 Cellular automata approach for disaster propagation prediction and required data system
in GIS representations

K. Arai

10:20-10:35 Digital Geomuseum ? An Open Knowledge and Data Environment for Innovative Research,
Education and Society

C. Liu

10:35 – 10:55 **Coffee Break**

10:55 – 11:55

Chairs: B.-J. Minster, B. Yan and T. Ogino

10:55-11:10 Managing and Linking Scientific Data on the Web via VisualDB

Z. H. Shen, J. H. Li, C. Z Li, X. He, X. M. Su

11:10-11:25 Research on Spatial Distribution Patterns of Migrant Bird based on Satellite Telemetry Data and
Remote Sensing Data: A Data Mining Approach

Z. Luo, Y. Zhou, M. Tang, J. Shao, B. Yan

11:25-11:40 Metadata Modeling of IPv6 Wireless Sensor Network in Heihe River Watershed

W. Luo, B. Yan

11:40-11:55 Implementation of an Integrated Management System for Global Multipoint Observation

H. Watanabe, K. Yamamoto, T. Tsugawa, S. Ishii, T. Nagatsuma, S. Watari, Y. Murayama, K. T. Murata

11:55 – 13:30 **Lunch (+ Poster Viewing)**

13:30 – 14:15

Chairs: B.-J. Minster, B. Yan and T. Ogino

13:30-13:45 Marine Biodiversity data: a presentation of state of the art systems for data storage, standardization,
quality control, data access and visualization.

K. Deneudt, B. Vanhoorne, L. Vandepitte, W. Appeltans, S. Claus, W. Decock, N. Dehauwere,
R. T' Jampens, F. Hernandez

13:45-14:00 Space Plasma Simulation and Geospace Science Clouds

T. Ogino, A. Iwadachi, T. Umeda

14:00-14:15 Inter-university Upper atmosphere Global Observation NETwork (IUGONET)

H. Hayashi, Y. Koyama, T. Hori, Y. Tanaka, M. Kagitani, A. Shinbori, S. Abe, T. Kouno, D. Yoshida, S. Ueno

14:15 – 14:35 **Coffee Break**

14:35 – 15:35

Session 7 (S7): Data Publication

Chairs: M. Diepenbroek and M. Parsons

14:35-14:55 World Ocean Database (Invited)

S. Levitus

14:55-15:15 Data Infrastructures at WDCC / DKRZ (Invited)

M. Lautenschlager

15:15-15:35 Is Data "Publication" the Right Metaphor? (Invited)

M. A. Parsons

15:35 – 15:45 **Coffee Break**

15:45 – 16:45

Chairs: M. Diepenbroek and M. Parsons

15:45-16:05 Connecting scientific articles with research data (Invited)

I.J. Aalbersberg

16:05-16:25 Opportunities and Challenges in Data Exchange: Who Cares if Data and Publications are Linked? (Invited)

F.L. Murphy

16:25-16:45 Persistent identifiers & catalogues : DataCite ? International consortium for data citation (Invited)

J. Brase

16:45 – 16:55 **Coffee Break**

16:55 – 17:50

Chairs: M. Diepenbroek and M. Parsons

16:55-17:15 Quality Assurance for Data ? the Journals' Way? (Invited)

H. Pfeiffenberger

17:15-17:35 The Legal Interoperability of Data (Invited)

P. F. Uhler

17:35-17:50 Who is doing a good job in digital preservation? Audit and certification of repositories

D. L. Giaretta

17:50 – 19:00 **Poster Viewing, Meetings, etc**

19:00 – 21:00 **Banquet (Room: ICH 2+3)**

Tuesday 6 September

9:10 – 10:45

Open Session:

Chairs: L. Horta and T. Ahino

9:10- 9:30 The WDC ? HHB, The African perspective crossroad! (Invited)

D. Selematsela

9:30- 9:45 Innovations for the curation and sharing of African social science data

H.L. Woolfrey

9:45-10:00 A Maturity Model for Digital Data Centres (MM-DDC)

W. Hugo, L. Lotter

10:00-10:15 Geophysical Data Stewardship in the 21st Century

C. G. Fox, E. A. Kihn

10:15-10:30 Towards a World Data System for cold and arid regions

X. Li, Z. Nan, L. Wang, L. Wu, Y. Ding, G. Cheng

10:30-10:45 Internationally Coordinated Glacier Monitoring

M. Zemp, S. U. Nussbaumer, R. Armstrong, F. Fetterer, I. Gaertner-Roer, W. Haeberli, M. Hoelzle, A. Kaeab, J. Kargel, F. Paul

10:45 – 11:05 Coffee Break

11:05 – 12:20

Session 8 (S8): ICSU WDS Members' and Partners' Open Forum

Chairs: R. Chen and R. Neilan

11:05-12:20 **ICSU WDS Members' and Partners' Open Forum**

12:20 – 12:40

Summary Session:

12:20-12:40 Summary of the Conference

J. B. Minster

Posters

(Room: ICH 1)

Saturday 3 --> Monday 5 September

Session 4: Activity Reports of WDS members

PS4-01 World Data Center for Geomagnetism, Copenhagen: recent developments

J. Matzka

PS4-02 Activities of the International VLBI Service

D. Behrend

PS4-03 Present status and future perspective of AE/Dst index derivation

M. Nose, T. Iyemori, M. Takeda, H. Toh

PS4-04 The Permanent Service for Mean Sea Level in the 21st Century

L. J. Rickards, A. P. Matthews, K. M. Gordon, S. J. Holgate, S. Jevrejeva, P. L. Woodworth, M. E. Tamisiea, E. A. Bradshaw

PS4-05 Activity of the WDC for Cosmic Rays in the Study of Sun - Earth Connections

T. Watanabe, T. Ogino, F. Abe

PS4-06 The Activities at WDC for Geomagnetism, Mumbai, INDIA

M. G. Doiphode, R. N. Nimje, S. Alex

PS4-07 Present status of the seafloor electromagnetic stations operating in the northwest Pacific

H. Toh, Y. Hamano, T. Iyemori, M. Takeda, M. Nose

PS4-08 WDS for Ionosphere and Space Weather - Historical Background and Current Status -

T. Nagatsuma, K. T. Murata, S. Watari

PS4-09 Expectation to WDS for global network of worldwide auroral data

A. Kadokura

PS4-10 Japanese Contribution to the World Data Center for Oceanography

A. Seta, S. Wakamatsu, T. Miyake, Y. Iwabuchi

PS4-11 Data and information activities of SERC, Kyushu University, Japan

S. Abe, K. Yumoto, A. Ikeda, T. Uozumi, George Maeda

PS4-12 Information about the World Data Centers for Solid Earth Physics and Solar-Terrestrial Physics.

Regional multidisciplinary initiatives of Russian-Ukrainian World Data Centers Segment for occurrence in the World Data System.

N. Sergeyeva, E. Kharin, L. Zabarinskaya, A. Rodnikov, I. Shestopalov, T. Krylova, M. Nisilevich

Session 5: Data Intensive Multi-Disciplinary Science

PS5-01 The state of polar data management; the Japanese IPY experience

M. Kanao, A. Kadokura, M. Okada, T. Yamanouchi, Natsuo Sato

PS5-02 Beyond data regulation: finding solution to a persistent problem of marine debris and sea surface temperature measurement along coastline of Lagos, Nigeria.

O.A. Ediang, A.A. Ediang, T. Adelugba, R. Akpofure

PS5-03 Web-based visualization system for observational data obtained by JAMSTEC research vessels

Y. Yamagishi, S. Tsuboi, H. Gonda, S. Kinoshita, H. Saito

PS5-04 Visualization of fluxrope generation process using large quantities of MHD simulation data

Y. Kubota, K. Yamamoto, K. Fukazawa, K. T. Murata

PS5-05 Post-event Survey Data of the 2011 Tohoku Earthquake Tsunami

N. Mori (The 2011 Tohoku Earthquake Tsunami Joint Survey Group)

Session 6: Application of information technologies to Data Systems

PS6-01 Application and meta data format of Cryosphere Data Archive Partnership (CRDAP)

H. Yabuki

PS6-02 Quality Evaluation of Remote Sensing Mapping for Land Cover Based on Cartographic Specifications

S. Liao

PS6-03 SPIDR ReST Services

E. Kihn, M. Zhizhin, P. Elespuru, R. Redmon

PS6-04 The International Center for Earth Tides XML schema for the Global Geodynamics Project data archives

J.-P. Barriot, Y. Verschelle, A. Gabillon

PS6-05 Standardized Materials Data Representation for Data Exchange and Electronic Reporting

T. Ashino

PS6-06 Research environment and information service of Space Weather Cloud

S. Watari, H. Kato, K. T. Murata, K. Yamamoto, H. Watanabe, Y. Kubota, M. Kunitake

PS6-07 Digital Database of Long Term Solar Chromospheric Variation

R. Kitai, S. Ueno, H. Maehara, S. Shirakawa, M. Katoda, Y. Hada, Y. Tomita, H. Hayashi, A. Asai, H. Isobe

PS6-08 State Space Approach to Signal Extraction Problems in Seismology

T. Takanami, G. Kitagawa

PS6-09 Metadata Publication and Search System in JAMSTEC

Y. Hanafusa, H. Saito, Y. Abe

PS6-10 Solar-Terrestrial data Analysis and Reference Systems (STARS) - a powerful analysis tool for a variety of data and its high potentiality for cooperating research

M. Kunitake, K. Yamamoto, S. Watari, K. Ukawa, H. Kato, Y. Murayama, K. T. Murata

PS6-11 Development of a data browsing system for geoscience data using geobrowsers

A. Saito, T. Tsugawa, Y. Akiya, T. Shimizu, M. Yoshikawa

PS6-12 A Database Project at the Center for Global Environmental Research in National Institute for Environmental Studies

H. Nakajima, T. Shirai, J. Zeng, E. Maita

PS6-13 Geospace Science Clouds

T. Ogino, A. Iwadachi, T. Hori, T. Umeda, F. Abe

PS6-14 Multi-level approximation: a tool to integrate spatially heterogeneous and different-type geomagnetic data at local to regional scales.

S. A. Tikhotsky, D. Yu. Shur

Session 7: Data Publication

PS7-01 The No-man Geomagnetic Observatory at Abu-Simbel and Its Contribution in Industry and Environment in Egypt

H. A. Deebes, E. M. Abd_EL Al, T. A. Hamed, A. M. Lethy

PS7-02 Publication of Atmospheric Radar Observation Database at RISH, Kyoto University

H. Hashiguchi, T. Tsuda, M. Shiotani, M. Yamamoto, T. Nakamura, H. Hayashi, J. Furumoto, M. K. Yamamoto, A. Shinbori, N. O. Hashiguchi

PS7-03 An inspection of geomagnetic field observations at Syowa station, Antarctica

K. Takahashi, Y. Minamoto, S. Arita, Tomofumi I, A. Kadokura

PS7-04 Solar data archive on web at Kwasan and Hida Observatories, Kyoto-U.

T.T. Ishij, K. Ichimoto, R. Kitai, S. Ueno, S. Nagata, G. Kimura, Y. Nakatani, S. Morita, K. Nishida, K. Shibata

PS7-05 A challenge to development of long-term archive for space science data at ISAS/JAXA

I. Shinohara, K. Matsuzaki, Y. Yamamoto, K. Ebisawa

PS7-06 Application of LAS on physical oceanographic data services of the South China Sea

C. Xu, S. Li, P.C Mi

PS7-07 An Iterative Algorithm for Selecting Optimal Domain Partitioning Models Using Graphical Data Visualization and Space Transformed Plots

K. S. Mwitondi, A. S. Hadi, R. E. Moustafa

PS7-08 A method of digitization to extract geomagnetic one-minute data from bromide paper

N. Mashiko, T. Yamamoto, M. Akutagawa, Y. Minamoto

PS7-09 SCOR/IODE/MBLWHOI Library Collaboration on Data Publication

L. Raymond, L. Pikula, R. Lowry, E. Urban, G. Moncoiffe, P. Pissierssens, C. Norton

Exhibitions

(Room: MR 3)

Saturday 3 --> Tuesday 6 September

- Dagik (4-D visualization of the geoscience data)
- Solar-Terrestrial Environment Laboratory, Nagoya University
- National Institute of Polar Research
- IUGONET
- Disaster Prevention Research Institute, Kyoto University

3. Oral Presentation (Instruction)

For oral presentations, a PC projector can be used. The use of any other visual equipment is not allowed. For smooth progress of the conference, we strongly recommend you to upload your PPT file to our PC for presentation by the end of the day before. Moreover, you may give a presentation by using your own PC.

4. Poster Presentation (Instruction)

Format of the posters and dimensions are 90cm(W)x120cm(H). Posters can be displayed in International Conference Hall 1 between Saturday morning and Monday evening. From Tuesday morning onward, they will be removed.

Posters viewing sessions are indicated in the program:

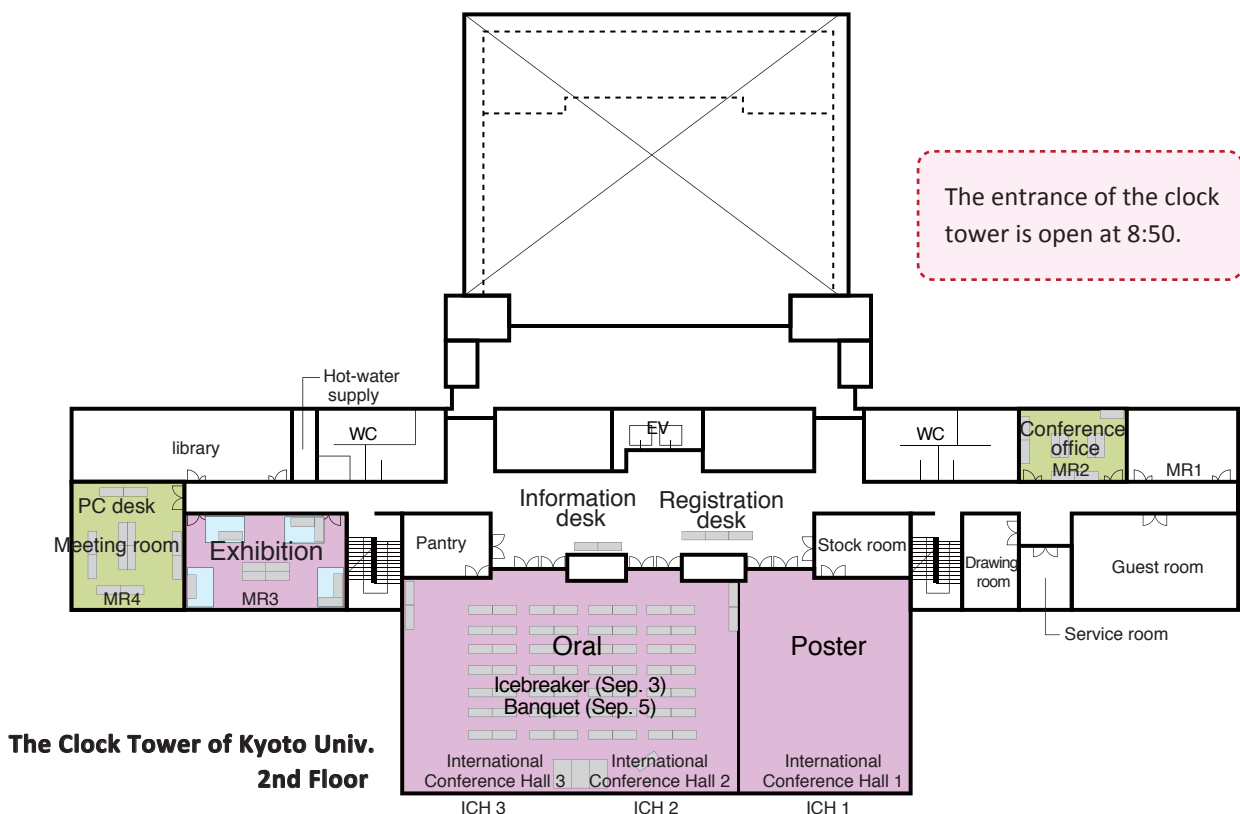
- Saturday 3 Sep. 17:25 – 19:45
- Sunday 4 Sep. 12:00 – 13:30
- Monday 5 Sep. 11:55 – 13:30, 17:50 – 19:00



5. Internet

You can use WiFi network in the International Hall of the clock tower.

In addition, small number of common desk-top PC which can use Internet is prepared.



6. Publication

A special issue of Data Science Journal is planned for the presented papers. Instructions for preparation of manuscripts will be announced on the conference website.

7. Conference organizers

Conveners of the Conference

MINSTER, Jean-Bernard, Scripps Institution of Oceanography, UCSD

WATANABE, Takashi, Solar-Terrestrial Environment Laboratory, Nagoya University

IYEMORI, Toshihiko, WDC for Geomagnetism, Kyoto, Kyoto University

Scientific Organizing Committee (SOC)

MINSTER, Jean-Bernard, Chair - Scripps Institution of Oceanography, UCSD

CHEN, Robert - Centre for International Earth Science Information Network (CIESIN)

CLARK, David - National Geophysical Data Centre, NOAA

DIEPENBROEK, Michael - World Data Centre for Marine Environmental Sciences

GENOVA, Françoise - Strasbourg Astronomical Data Centre

HARRIS, Ray - ICSU ad-hoc Strategic Coordinating Committee for Information and Data

HORTA, Luiz - Large Scale Biosphere-Atmosphere Experiment in Amazonia, INPE

MOKRANE, Mustapha - International Council of Science

NEILAN, Ruth - Central Bureau of the International GNSS Service, JPL

RICKARDS, Lesley - Permanent Service for Mean Sea Level, BODC

WATANABE, Takashi - Solar-Terrestrial Environment Laboratory, Nagoya University

YAN, Baoping - Computer Network Information Centre, CAS

ZGUROVSKY, Michael - National Technical University, Kiev Polytechnic Institute, Ukraine

Local Organizing Committee (LOC)

IYEMORI, Toshihiko, Chair - WDC for Geomagnetism, Kyoto, Kyoto University

WATANABE, Takashi, Vice Chair - Solar Terrestrial Environment Laboratory, Nagoya University

ASHINO, Toshihiro - Toyo University

ISHII, Mamoru - National Institute for Information and Communications Technology

KADOKURA, Akira - National Institute of Polar Research

KANAO, Masaki - National Institute of Polar Research

KITAMOTO, Asanobu - National Institute of Informatics

KUNISAWA, Takashi - Tokyo University of Science

MURATA, Takeshi - National Institute for Information and Communications Technology

MURAYAMA, Yasuhiro - National Institute for Information and Communications Technology

NOSÉ, Masahito - WDC for Geomagnetism, Kyoto, Kyoto University

OGINO, Tatsuki - Solar Terrestrial Environment Laboratory, Nagoya University

OHISHI, Masatoshi - National Astronomical Observatory

SHINOHARA, Iku - Japan Aerospace Exploration Agency

TOH, Hiroaki - WDC for Geomagnetism, Kyoto, Kyoto University
TSUBOI, Seiji - Japan Agency for Marine-Earth Science and Technology
TSUDA, Toshitaka - Research Institute for Sustainable Humanosphere, Kyoto University
YAMAGIWA, Juichi - Graduate School of Science, Kyoto University

Regional Organizing Committee (ROC) at Kyoto University

IYEMORI Toshihiko; HAYASHI Hiroo; KOYAMA Nobuyuki; MATSUMURA Mitsuru;
NOSE Masahito; ODAGI Yoko; OSHIMAN Naoto; SAITO Akinori; SHIBATA Kazunari;
SUGIYAMA Junji; SUZUKI Shingo; TAKEDA Masahiko; TAKEUCHI Noriko; TOH Hiroaki;
TSUDA Toshitaka; UENO Satoru

8. Registration

Registration fee covers the banquet, the icebreaker, soft drinks at coffee breaks and the abstract book.

Online registration system is available until August 26, 2011 from;

<http://lhweb.jp/knt/wds2011/index.html>

Registration fee for participants:

- | | |
|--|------------|
| • Online Registration (until August 26, 2011) | 10,000 JPY |
| • On-site Registration | 15,000 JPY |
| • Students/PD/Accompanying Person Registration | 3,000 JPY |

Method of payment:

- Credit cards and bank transfer are accepted for online registration.
- For on-site registration, both cash and credit card will be accepted.

Please contact to LOC for further requests.

9. Accommodations

A list of URLs is available from the conference web site, where you can find and make reservation of your hotel room by yourself.

10. Venue

The conference will take place at the Kyoto University Clock Tower Centennial Hall on the main campus of Kyoto University, which is located at the north-east part of the city. Kyoto is often called the "Japanese heartland", and it is said that it is impossible to know the real Japan without knowing Kyoto. For over 1,000 years, Kyoto was the capital of Japan, the heart of culture and politics. Furthermore, Kyoto is unique within Japan in that it was virtually untouched during World War II, leaving a myriad of temples, shrines and a castle intact. This legacy has been recognized by UNESCO, which has designated seventeen separate sites within Kyoto's borders as World Cultural Heritage sites.

Natural scenery, temples, shrines, towns and houses intermingle with a poignant historical beauty in Kyoto. Tea ceremony, Japanese flower arrangement, Nishijin-brocade, and many other unique Japanese traditional cultures and industries continue to thrive in Kyoto.



Weather:

Average temperatures in early September in Kyoto range from a high of 30 degrees to a low of 20 degrees – still in summer and good for drinking beer at the restaurant on a river in downtown area.

11. Practical Information

Currency and Money Exchange

The unit of Japanese currency is "yen". There are four kinds of bills (10,000 yen, 5,000 yen, 2,000 yen, 1,000 yen) and six kinds of coins (500 yen, 100 yen, 50 yen, 10 yen, 5 yen, 1 yen). Only Japanese yen (JPY) is acceptable at ordinary stores and restaurants. The exchange rate of Japanese yen is about 76-78 yen to one US dollar as of August 2011. You can buy Japanese yen at international airport exchange centres or at authorized city banks in Japan.

VAT

VAT (value added tax) of 5% is included in all goods purchased in Japan.

Traveller's Checks and Credit Cards

Traveller's checks are accepted only by airport, leading banks, and major hotels; and the use of traveller's checks is not popular in Japan. VISA, MasterCard, Diners Club, and American Express are widely accepted at shops and restaurants in urban areas. Many ATMs in Japan do not accept foreign credit cards for cash advances. We recommend you to exchange your currency into yen when you arrive at the Kansai (KIX) or Itami (ITM) airport or obtain yen in your own country.

Visa

A visa is required for citizens of countries that do not have visa-exempt agreements with Japan. Please contact the nearest Japanese Embassy or Consulate for visa requirements. Detailed information is available through the Web site of the Ministry of Foreign Affairs of Japan http://www.mofa.go.jp/j_info/visit/visa/index.html. For those who need invitation letters for visa arrangements, please contact the LOC.

Electricity

Electricity is supplied at 100 volts, 60 Hz AC in western Japan including Kyoto and Osaka.

Useful URL

http://www.jal.com/world/en/guidetojapan/tourist_information.html

The 1st ICSU WDS Conference website URL

<http://wds-kyoto-2011.org>

12. More information contact

For details of accommodation, or transportation, please contact the ROC:

roc@wds-kyoto-2011.org

For science sessions, paper submission, or abstract, please contact LOC:

loc@wds-kyoto-2011.org

13. Travel Information

Access to Kyoto:

From Kansai International Airport (KIX) to Kyoto Station

- a) Take Kansai Airport Express train "Haruka" operated by West Japan Railway Company. The station is in the airport. It runs every 30 - 60 minutes and takes about 75 minutes to Kyoto station. The reserved seat ticket costs 3,290 or 3,690 yen (variable by season), and the non-reserved seat ticket 2,980 yen.
- b) Airport Limousine bus service to "Hachijo" Exit of Kyoto station is available. It runs about every 30-50 minutes and takes about 90 min.. The cost is 2,500 yen.



c) You can access directly to the registration desk by ShuttleOminibus service. The cost is 3,500 yen.
Please refer to the links below for more detailed information and reservation.

- MK Skygateshuttle
- Yasaka Kansai Airport Shuttle

Kansai Airport website: <http://www.kansai-airport.or.jp/en/index.asp>

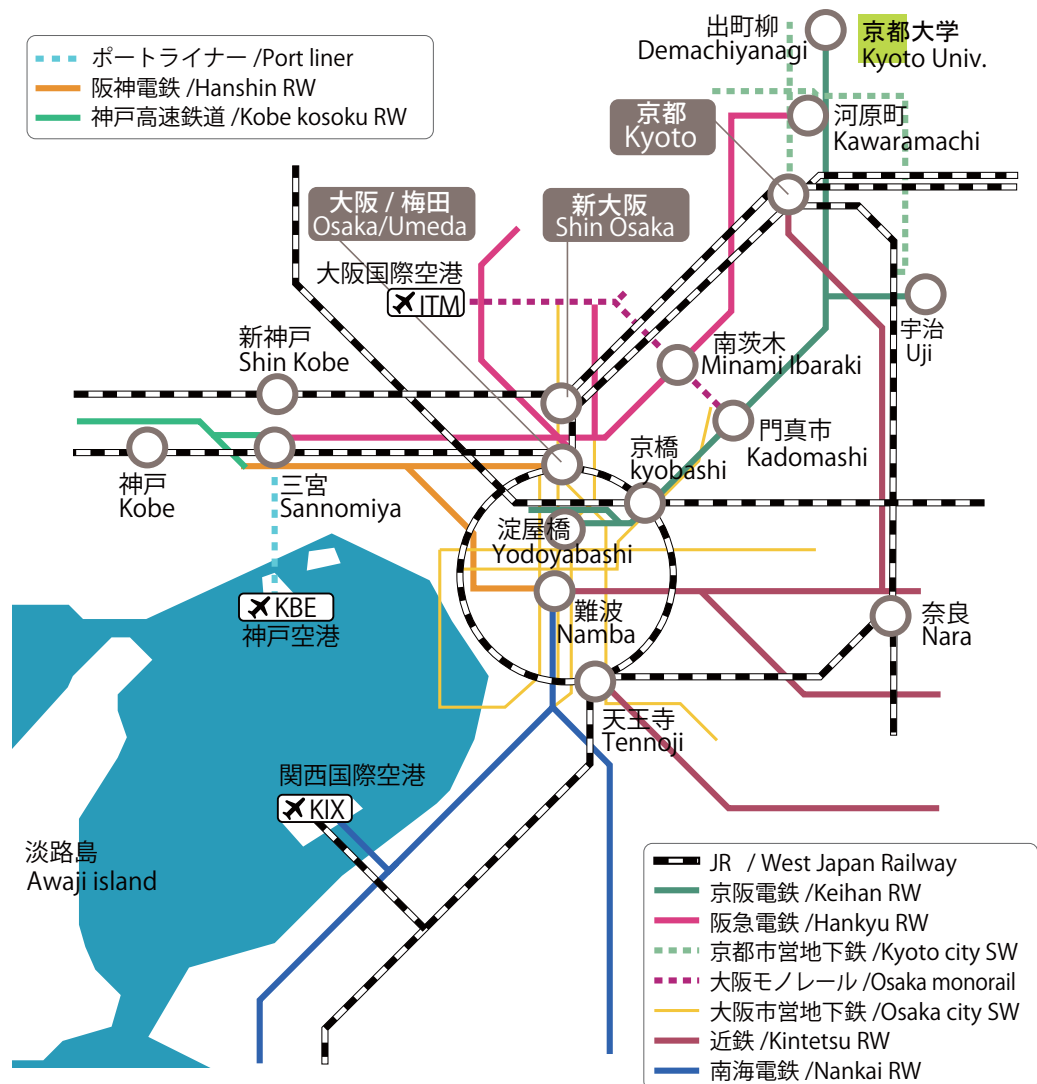
From Osaka International (Itami) Airport (ITM) to Kyoto Station

a) There exists Airport Limousine bus service to "Hachijo" exit of Kyoto station at every 20 minutes. The bus stop is in front of the airport exit. It takes about 50 min., and the cost is 1,280 yen.

b) You can access directly to the registration desk by ShuttleOminibus service. The cost is 2,300 yen.
Please refer to the link below for more detailed information and reservation.

- MK Skygateshuttle

Osaka Airport website: <http://osaka-airport.co.jp/en/>





From Kyoto station to Kyoto University

a) There exist two routes to the tower. The bus terminal is just outside of the north exit of the station. The cost is 220yen.

1. From bus stop No."D2" of the terminal, you get on the city bus of Route No.206 for "Kitaoji Bus Terminal via Higashiyama St.". You get off at "Kyodai Seimon-mae" bus stop. It takes about 40 min.
2. From bus stop No."A2" of the terminal, you get on the city bus of Route No.17 for "Ginkakuji and Kinrin Shako". You get off at "Hyakumanben" bus stop. It takes about 35 min.

b) You can most easily come to the clock tower by taking taxi. Taxies are always waiting for passengers just outside of the both "Main" (called "Karasuma") and "Hachijo" Exits of the station. Please show the back cover "Kyoto Univ. Area Map" below to the taxi driver. It takes about 20 min and the cost is about 2,000 yen. No tipping is necessary in Japan.



Kyoto Station Bus Terminal Map

From Shijo Kawaramachi to the clock tower of Kyoto University :

There exist two routes to the tower.

1. You get on the city bus of Route No.201 for "Hyakumanben via Gion" or Route No.31 for "Iwakura". You get off at "Kyodai Seimon-mae" bus stop. It takes about 20 min.
2. You get on the city bus of Route No.17 for "Ginkakuji and Kinrin Shako" or route No.3 for "Kitashirakawa Shibuse-Cho" or "Kamihate-Cho, Kyoto-Zoke-Geijutu-Dai-Mae". You get off at "Hyakumanben" bus stop. It takes about 15 min.



The cost is 220 yen which you pay on your getting off. For more informations please refer the link below:

<http://www.city.kyoto.jp/koho/eng/access/transport.html>

14. Sponsor, Co-sponsors

Sponsored by:

ICSU WDS International Programme Office
ICSU-WDS Scientific Committee
Science Council of Japan
Graduate School of Science, Kyoto University

Co-sponsored by:

Disaster Prevention Research Institute, Kyoto University
National Institute of Information and Communications Technology
National Institute of Polar Research
Research Institute for Sustainable Humanosphere, Kyoto University
Solar-Terrestrial Environment Laboratory, Nagoya University

Supported by:

Commemorative organization for the Japan World Exposition 1970

Kyoto Univ. Area Map



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