

Minutes WG-DAT Business Meeting

Thursday, 25 June 2015, 12:00 – 13:30, Room Terrace II, PCC - Floor 2, Prague, Czech Republic, 26th IUGG General Assembly

~30 attendees

Agenda

1. Introduction: Acceptance of the agenda
2. The WG deliverables and update
3. Status of the IAGA indices
4. Progress in referencing geomagnetic data products by Digital Object Identifier (DOI) for getting better recognition for data production
5. Elections: WG Chair and co-Chairs for 2015-2019
6. Sessions for IAGA-2017
7. Miscellaneous

Agenda is accepted

Update since 2013

IAGA-2013 Resolution No.3 “Polar Cap (PC) index”:

...IAGA recommends use of the PC index and urges that all possible efforts be made to maintain continuous operation of all geomagnetic observatories contributing to the index.

Endorsement has been made according to the document “*Criteria for endorsement of new geomagnetic indices by IAGA*” elaborated by the WG-DAT

The document has been included to “**IAGA Products and Services**”. Now the adoption of new indices endorsed by IAGA is done according to the Criteria

Modifications of IAGA 2002 format

- 1) INTERMAGNET proposed **Quasi Definitive (Q) data type** and **valid geomagnetic element G**. The IAGA2002 Data Exchange Format was modified accordingly.
- 2) Recent INTERMAGNET meeting: adding a header line containing the publication date.

The inclusion of additional line (#13) is optional but desirable for the modern data. The old data files can be not modified.

Document “**Modifications of IAGA 2002 format**” has been announced, formally approved by the WG BM and posted at the WG web.

Status of IAGA indices

Kp - Report by J. Matska (GFZ)

aa - Report by A. Chambodut (EOST)

Dst, AE - Report by M. Nose (Kyoto)

PC - Report by O. Troshichev (AARI)

Summary: All indices are in a good health. Comment by P.Stauning on the errors in the PC index procedure (see his presentation at A37)

Task Force “DOI-Data” Report

In 2013 the Task Force “DOI-Data” was established. Prompt response from the community and lively post-IAGA2013 discussion via e-mails showed that the problem is important for the community. Geomagnetic data need of measurable output indicators like number of publications and in particular citations.

Possible solution: **referencing geomagnetic data products by DOI** (Digital Object Identifiers)

Activity in Japan: Report by Dr. M. Nose (Kyoto)

Activity in Russia: Report by M. Nisilevich (GC RAS) – first obs. (KLI) obtained the DOI for its 1-min and 1-h data

New TF Chairperson: M. Nose (Kyoto); 14 TF members

Noted that the problem becomes more and more important. Also other scientific bodies (CODATA, ISCU, etc.) are interested in this issue. Decided to continue working and to propose a joint session for the 2017 IAGA meeting.

WG_DAT officers for 2015-2019

Chair: Masahito Nose

Co-Chairs: Aude Chambodut and Ellen Clarke

Sessions for IAGA-2017

Option #1: Session only for Div. V; proposed together with WG-OBS

Div. V

1) Geomagnetic products for commercial users, space weather, and space climate

Conveners: A. Chambodut (France), E. Clarke (UK), A. Soloviev (Rus), A. Chuliat (US)

Option #2: Two sessions, one is more “scientific” and for Div. V only; another one is more practically oriented, interdivisional and includes the ionospheric applications, e.g. GNSS.

Div. V

1a) Geomagnetic data and indices for space weather and space climate

Conveners: T. Asikainen (Finland)

+

Inter-division V + II

2) Implementation of the geomagnetic and *ionospheric* research for industry and society

Conveners: the same as for (1)

Inter-association

3) Referencing of data products for getting better recognition for data production

Conveners: M. Nose (Japan)

This session is new and a bit untypical. But perhaps it is worth to try to figure out either the topic is actual for a wider community.

Criticizm from Gautier Hulot, supporting comment from Mioara.

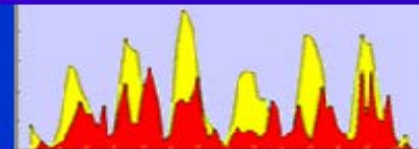
Other business

Moving of the WG website from NOAA to Kyoto or France/UK for easier posting and modification.

No proposals for IAGA resolution this time. The DOI issue may be future candidate for IAGA (or even IUGG) resolution. But more work and achievements are needed before.



**Working Group V-DAT:
Geomagnetic Data and Indices**



WG Business Meeting Agenda

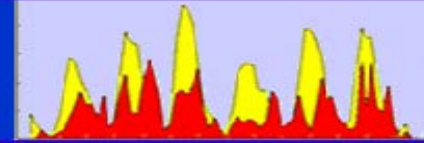
**Thursday, 25 June 2015, 12:00 – 13:30, Room Terrace II, PCC - Floor 2,
Prague, Czech Republic, 26th IUGG General Assembly**

~30 attendees

Agenda

- 1. Introduction: Acceptance of the agenda**
- 2. The WG deliverables and update**
- 3. Status of the IAGA indices**
- 4. Progress in referencing geomagnetic data products by Digital Object Identifier (DOI) for getting better recognition for data production**
- 5. Elections: WG Chair and co-Chairs for 2015-2019**
- 6. Sessions for IAGA-2017**
- 7. Miscellaneous**

Working Group V-DAT: Geomagnetic Data and Indices



Update

IAGA-2013 Resolution No.3 “Polar Cap (PC) index”:

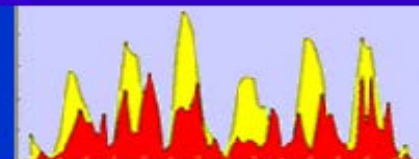
...IAGA recommends use of the PC index and urges that all possible efforts be made to maintain continuous operation of all geomagnetic observatories contributing to the index.

Endorsement has been made according to the document “*Criteria for endorsement of new geomagnetic indices by IAGA*” elaborated by the WG-DAT

The document has been included to “**IAGA Products and Services**”. Now the adoption of new indices endorsed by IAGA is done according to the Criteria



Working Group V-DAT: Geomagnetic Data and Indices



Modifications of IAGA 2002 format

- 1) INTERMAGNET proposed **Quasi Definitive (Q) data type** and **valid geomagnetic element G**

The IAGA2002 Data Exchange Format was modified accordingly.

- 2) Recent INTERMAGNET meeting: adding a header line containing the publication date.

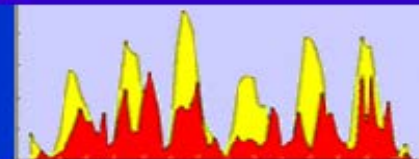
Ex: **Publication date** **2014-10-20**

The inclusion of additional line (#13) is optional but desirable for the modern data.
The old data files can be not modified.

Document “***Modifications of IAGA 2002 format***” has been announced, formally approved by the WG BM and posted at the WG web.



Working Group V-DAT: Geomagnetic Data and Indices



Status of IAGA indices

*Report by
J. Matska
(GFZ)*

Kp,

aa,

Dst, AE,

PC

*Report by
O. Troshichev
(AARI)*

Are they in a good health?

Any changes, improvements, problems?

Availability? etc.

*Report by
A. Chambodut
(EOST)*

*Report by
M. Nose
(Kyoto)*



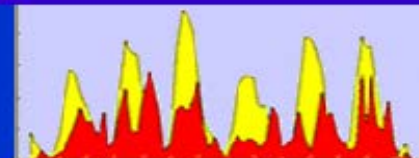
International Association
of Geomagnetism &
Aeronomy

International Union
of Geodesy &
Geophysics



Working Group V-DAT: Geomagnetic Data and Indices

or World Magnetic
Earth's Magnetic Field



Kp index is in a good health

The GFZ, Observatory Niemegk, supplies historical and current Kp per anonymous FTP:

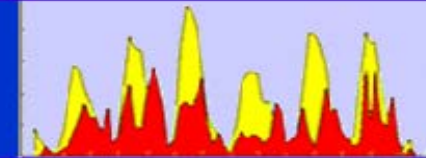
<ftp://ftp.gfz-potsdam.de/pub/home/obs/kp-ap/>

Quicklook (last six days) is available

<http://www.gfz-potsdam.de/en/section/earths-magnetic-field/services/kp-index/definitive/>



Working Group V-DAT: Geomagnetic Data and Indices



aa, am indices are in a good health

The ISGI-Collaborating-Institute, in charge of the calculation of *aa* and *am*, is now EOST, Strasbourg, France (previously LATMOS, Guyancourt, France)

Quicklook data: ~30 min after the 3-hour interval

Preliminary data: ~30 min after the first 3-hour interval of the day+1

Definitive data: yearly

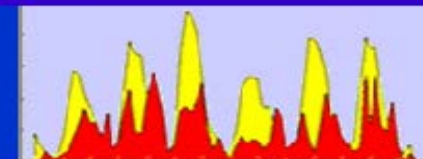
2013-2015 activities

- Rejuvenation of the Website completed:
<http://isgi.unistra.fr>
- Monthly Bulletin: development of a new edition procedure, please send an email to : isgi@unistra.fr (if not previously in the ISGI mailing list)



Working Group V-DAT: Geomagnetic Data and Indices

Dr. Masahito Nosé
Earth's Magnetic Field



AE, Dst are a good health

Real-time (Quicklook) Dst index

Note! These data are only for non-commercial monitoring purpose.

The real-time Dst index is only for monitoring, diagnostics, and forecasting purposes. Since the values are derived from unverified raw data, they may contain inaccuracies. The observatories as well as we have no responsibility for inaccurate values caused by noises and baseline shifts. Hourly values given here will be replaced by provisional and final values at later dates. Users are advised to use the provisional Dst index or the final Dst index for scientific analysis.

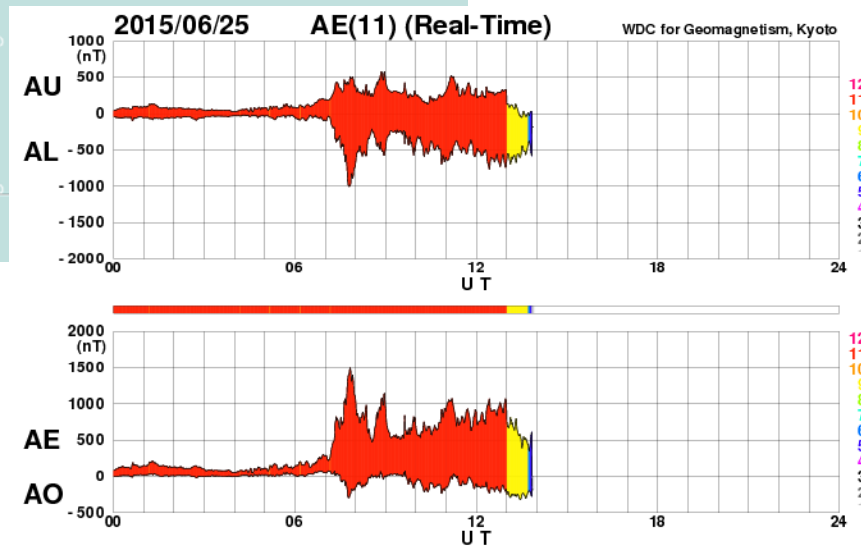
Acknowledgments: We thank the geomagnetic observatories (Kakioka [JMA], Honolulu and San Juan [USGS], Hermanus [RSA], Alibag [IIG]), NICT, INTERMAGNET, and many others for their cooperation to make the real-time (quicklook) Dst index available.

Year: 2014: [01](#) [02](#) [03](#) [04](#) [05](#) [06](#) [07](#) [08](#) [09](#) [10](#) [11](#) [12](#)
2015: [01](#) [02](#) [04](#) [05](#) [06](#)

[Present Month](#) (This page is automatically reloaded.)
[Last Month](#)

Link to [Data Center Top Page](#) | [Dst index Home Page](#) | [Provisional Dst index Page](#) | [Final Dst index Page](#)

Contact on this page: Dr. Masahito Nosé (nose@kugi.kyoto-u.ac.jp)





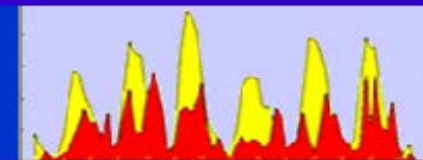
International Association
of Geomagnetism &
Aeronomy

International Union
of Geodesy &
Geophysics



Working Group V-DAT: Geomagnetic Data and Indices

or Arden Matika
Earth's Magnetic Field

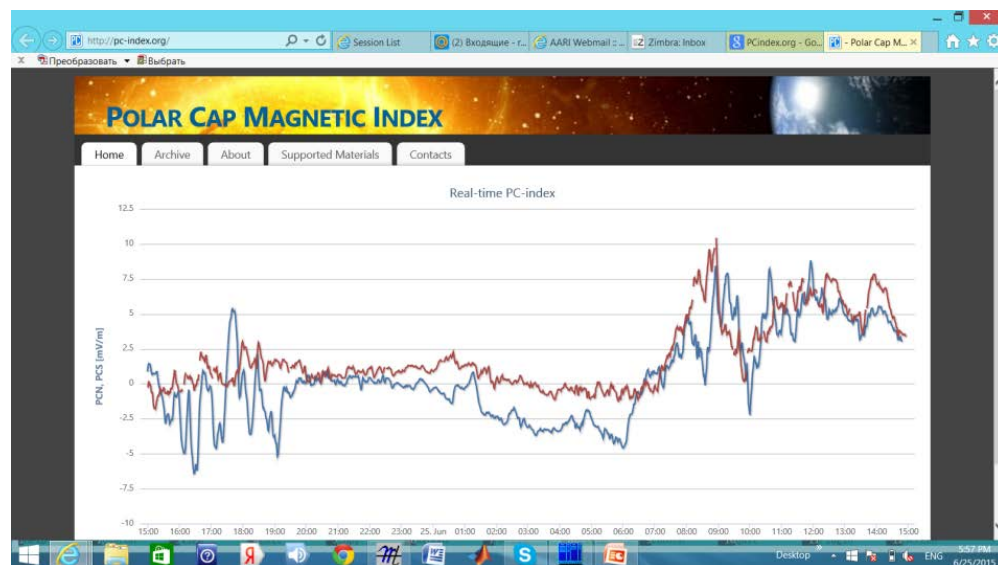


PC index

AARI and DTU

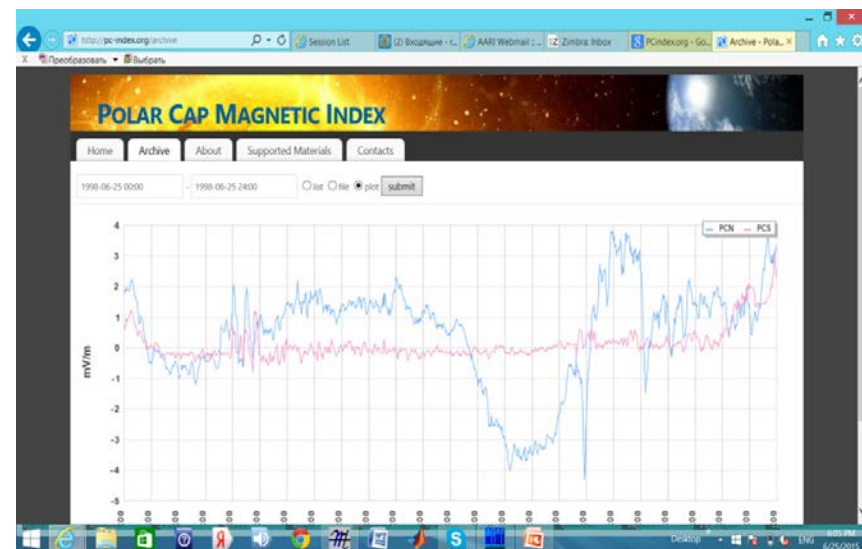
New website: <http://pc-index.org/>

Real-time



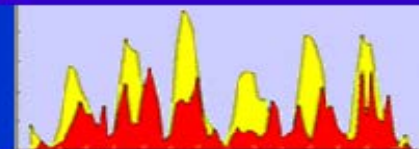
Archive since 1995

Concern by P. Stauning





**Working Group V-DAT:
Geomagnetic Data and Indices**



In 2013 the Task Force “DOI-Data” was established

Geomagnetic data need of measurable output indicators like number of publications and in particular citations.

Possible solution: **referencing geomagnetic data products by DOI** (Digital Object Identifiers)

Prompt response from the community and lively post-LAGA2013 discussion via e-mails showed that the problem is important

*May be future candidate
for IAGA (or even IUGG)
resolution*

Activity in Japan: Report by Dr. M. Nose (Kyoto)

Activity in Russia: Report by M. Nisilevich (GC RAS)

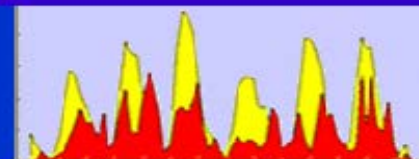


International Association
of Geomagnetism &
Aeronomy

International Union
of Geodesy &
Geophysics



**Working Group V-DAT:
Geomagnetic Data and Indices**



WG_DAT officers for 2015-2019

Chair: Masahito Nose

Co-Chairs: Aude Chambodut and Ellen Clarke

Sessions for IAGA-2017

Div. V

Together with WG-OBS

1) Geomagnetic products for commercial users, space weather, and space climate *(not a strict wording)*

Conveners: A. Chambodut (France), E. Clarke (UK), A. Soloviev (Rus)

Div. V

1a) Geomagnetic data and indices for space weather and space climate

Conveners: T. Asikainen (Finland)

+

Inter-division V + II

2) Implementation of the geomagnetic and ionospheric research for industry and society

Conveners: (1)

Inter-association

3) Referencing of data products for getting better recognition for data production

Conveners: M. Nose (Japan)

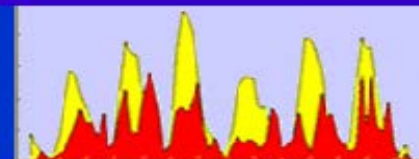


International Association
of Geomagnetism &
Aeronomy

International Union
of Geodesy &
Geophysics



Working Group V-DAT: Geomagnetic Data and Indices



Thank you!