

IAGA Working Group V-DAT Business Meeting 21st July 2005, Room Caravelle I, Toulouse, 17:15-19:05

31 present in recorded attendance (probably ~45 at peak)

1. IAGA Index Status & Other Reports:

HJ Linthe (Potsdam: Kp,Ap,Cp,QD)

Lovo observatory was replaced by Uppsala (a check was made by means of a comparative study over 2 months between the old and new system to ensure everything was OK – only very small and unimportant changes). Potsdam has now discontinued many paper records (400 paper reports in past, reduced to only 9 now).

T Iyemori (Kyoto: AE,Dst,QL-Dst,QL-AE)

Kyoto and NIDC both derive data, to ensure completeness of record. Everything is currently OK with the data provision, however there are still some gaps in AE records.

M Menvielle (ISGI: am, aa)

ISGI has a new Webmaster who is in the process of learning geomagnetic data processing. The index production is OK.

PC Index and current status (M Menvielle)

PC may yet be endorsed provided the derivation process is clearly stated and does not change. The current position with regard to the data generation and continuity is to be clarified with AARI (Oleg Troschichev). A PC paper has been prepared and can be circulated to and discussed with WG chair and co-chair (see Actions). H Macreadie stated that the PC index was not endorsed by IAGA but it is available on the website. However V Papitashvilli said that it was originally endorsed but that the endorsement was later withdrawn, pending clarification.

V-DAT web site (S MacLean)

V-DAT website is ready, active and is operating OK (at NGDC). Some visitor statistics were presented. Apparently nearly 500 people wanted copies of previous minutes in the last 6 months! The data exchange data format is yet to be decided. S MacLean made a request to abolish the task forces (as listed on website front page). This was agreed.

Data Rescue reports (V Papitashvilli)

V Papitashvilli stated that \$35000 was received from ICSU was utilised by Moscow (103 years of data), Alibag/Hyderabad (61 years), Kyoto (11 years) to scan old magnetograms. A total of 175 station years were therefore converted to digital images. In open discussion it was agreed that we should continue to look for money from ICSU/UNESCO to continue this activity every year (see resolution). There was a suggestion from the floor to put all information on cameras, scanners, etc, on the V-DAT website, based on the information held by T Iyemori, for the benefit of future data recovery plans.

IAGA guides status (M Menvielle/ H Macreadie: Indices)

H Macreadie stated that a talk on GAV01 on Monday would cover this activity in detail.

2. Discussion Items:

Developments Towards Future Indices

For information, S Maus described his separation of Dst into external and internal parts. This has been peer reviewed and published in a GRL paper (Maus and Weidelt, 2004). Similar work by N Olsen has also been done and published (EGU, 2004). The Dste/Dsti indices are currently available on the NGDC website. After a few years of use by the community it may be endorsed as an official index (after formal proposal). However there was some discussion on whether Dst itself was appropriate for field modelling, but it was recognised that all these activities are very much “work in progress”, taking advantage of the modern era of high quality satellite measurements. The Dste/Dsti data may be moved to Stefan’s personal website, rather than appearing “unofficially” on the NGDC site.

M Menvielle then described his research work on physically motivated “rms” planetary activity indices and commented that, similarly, these may be useful in future.

eGY

C Barton (comments by email) encouraged the WG to fully participate in eGY activities, both collectively and in national institutes. It was noted that there were a number of meetings planned at this IAGA assembly and the chair encouraged those present to take part in those meetings. V Papitashvili mentioned the VGMO website as a good example of an eGY activity.

SSC definition and classification

J J Curto described the current methods of SC categorisation and stated his opinion that this may need to change, for example by using 5 low latitude stations (and 1 second data). J J Curto also explained his outline proposals on quantifying the minimum threshold, duration, amplitude and slope for an event to be considered as a SC. In open discussion it was agreed that this work should be published in a review paper for consideration by the community in, for example, Rev. Geophys.

Comments on ISO and Geomagnetic Indices

The ISO WG action on solar and geomagnetic indices is apparently closed (to be confirmed). It was agreed that there was nothing further to discuss. The IAGA executive committee is handling this activity.

3. Resolutions

- IAGA, **recognising** (1) the importance of global coverage and timely delivery of magnetometer data for production of auroral electrojet indices, and (2) the current successful collaborative Russia-Japan-US effort to operate magnetometers at Russian stations located in the auroral zone and the associated near-real-time data transmission system, **endorses** these international collaboration, and **urges** appropriate agencies to continue providing adequate support for the collaboration.
- IAGA, **recognising** the importance of long time series of geomagnetic data, **endorses** the recent efforts of ICSU supported rescue of valuable magnetograms and **urges** that rescue and data retrieval activities be continued.

4. IAGA2007 Sessions

IAGA, IASPEI, IAVCEI Joint Session (1 Day)

“Geophysical Data Acquisition: The Role of Virtual Observatories and the eGY”

Convener: TBD (IAGA)

Co-conveners: from IASPEI/IAVCEI

There is a growing use of common data logging techniques, digital capture and exchange of data amongst the geophysical sciences, particularly within the spheres of geomagnetism, seismology and volcanology. This session welcomes contributions on common problems and solutions on data acquisition and exchange. We particularly encourage contributions that reflect trends towards the establishment of virtual observatories and the use of the eGY to promote new initiatives.

IAGA, IDCDC Joint Session (1 Day)

“Geomagnetic Measurements in Remote Regions”

Convener: TBD (IAGA)

Co-conveners: from IDCDC

Many regions on the Earth present environmental, logistical and communication difficulties for the measurement and collection of geomagnetic data. Equipment may be old and the power supply intermittent. This session solicits contributions that describe data measurement, collection and dissemination under such conditions, particularly where there are limited or no electronic communications and where novel solutions are required.

IAGA, IASPEI, (1 Day)

“Seismological, Geological and Tectonic Interpretation of Geomagnetic Anomalies on the Continents and in the Oceans”

Convener: TBD (IAGA)

Co-conveners: from IASPEI/...

This session solicits contributions that

IAGA Division V: Reporter Reviews (1 talk)

“The Physics of Geomagnetic Data and Indices: Science and Applications”

Author: TBD

A general measurement, science and applications review paper.

IAGA V-DAT (1 Day)

“Geomagnetic Data and Indices: Open Session”

Convener: TBD

Co-conveners: TBD

This sessions welcomes general contributions on the measurement, scientific interpretation and applications of geomagnetic data and indices.

5. Any Other Business

None

6. Actions

1. Clarify position on derivation, availability of the PC index (PCN and PCS), in discussions with Dr Oleg Troschichev (AARI) at IAGA conference, 2nd week (M Menvielle, P Stauning).
2. Circulate to WG chair & co-chair the draft PC report for discussion (M Menvielle).
3. Clarify status of PC index on IAGA V-DAT website (and at NGDC if necessary). (S MacLean, A Thomson, M Rajaram).
4. Provide list of data recovered (or give web links) on V-DAT website (M Rajaram and S MacLean).
5. Ask NGDC to make clear what is/is not an IAGA endorsed index on their website (A Thomson, S MacLean).