IAGA V-MOD Business Meeting Monday 2 July, Chemistry Building, Room B, 12.45-13.45

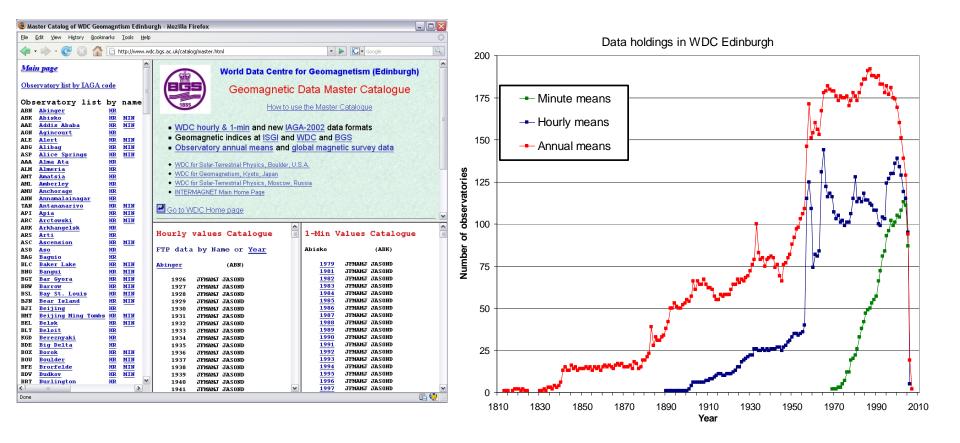
- Activity since IAGA2005 Toulouse
- IGRF plans
- World Digital Magnetic Anomaly Map
- International Standards Organisation
- Proposals for IAGA resolutions
- IAGA2009 Sopron, Hungary proposals for symposia titles and convenors
- Election of new chair and co-chair for the Working Group

Activity since IAGA2005 Toulouse (excl WDMAM)

- Toulouse minutes posted on V-MOD website
- website maintained by US NGDC
- special issue of the journal Earth, Planets and Space on "Modelling the Earth's Magnetic Field" with 10 papers published in 2005
- future satellite missions...ESA Swarm
- many models being produced/papers being published
- Chair/co-chair dealt with IGRF enquiries
- reporter reviews on modelling: Terry Sabaka-modelling the magnetic field in recent times and Chris Finlay-historical field modelling...ASV040 on Saturday
- ground-based data collection

Ground-based data collection

on-line WDC at DMI moved to BGS at start of 2007



IGRF plans

- IGRF-11 will be produced in 2009
- Task Force to be decided now to
 - issue open call in Mar 2009 specifying
 - models required (DGRF2005, IGRF2010-2015) by 1 Oct 2009
 - information to be provided with coefficients, eg data used, brief description of parent model, fit to data
 - 1 model per team (individuals to commit themselves to 1 team)
 - determine final models by 1 Dec 2009 using
 - information provided
 - comparisons with independent data (difficult)
 - inter-model comparisons
 - voting
 - upload on website, publish announcements and papers

World Digital Magnetic Anomaly Map Version 1 is ready! Talks: Tues all day Dept of Maths Posters: Tues 6-8 pm Rocca Paolina

Well done everyone who was involved!

WDMAM plans

- Version 2
- Task Force to be decided now to
 - collect more data
 - work towards version 2

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ISO standard for the Main field?

Background and benefits What could be specified in the standard? ISO Procedure

Background

ISO passed Resolution 263:

The delegates of WG4 discussed the possibility of a NWI on the Earth main magnetic field. ISO TC20/SC14/WG4 delegates recognized that IAGA Div V working group on the main field modeling continues to be the organization that provides scientific leadership in the effort to develop an Earth main magnetic field standard.

Who wants a norm?

- The IAGA leadership believes that an ISO norm for the main field would strengthen the IGRF
- The relevant ISO committee would welcome it because there are already established standards for the main field which are also mentioned in other norms (e.g. magnetosphere)
- Engineers who integrate main field models can state their compliance with an ISO norm
- Devices would only be compliant if they were updated every five years for the current

Content of the norm

- Would have to be general
 - Have to accommodate IGRF, WMM and other models
 - Should not limit our freedom to choose model degree
 - Should not specify coefficient estimation methods
- What can we safely include?
 - Spherical harmonic representation
 - Definition of SH coefficients for main field and SV
 - Field component and transform equations

Procedure

- Someone from V-MOD writes a draft norm
- The draft is first circulated in V-MOD
- Then the IAGA-Div-V leadership can comment
- Submitted to ISO
- Circulated to member countries for comment
- Valid for 5 years, up for renewal/change

Pro/Cons

Con:

• Potential waste of time

Pro:

- If WE write the standard, it will not restrict field modelers
- Someone outside of IAGA may submit a badly drafted standard, potentially causing lots of problems for IAGA

Kent Tobisko (US representative on ISO) has promised to help

- With the paper work
- Would do all of the ISO committee work

New V-Mod officers

Chair: Susan MacMillan Suggested new: Vice-Chair: Stefan Maus Chair: Stefan Maus

Vice-Chair: Chris Finlay (Zurich)

IGRF-11 task force

Suggested chair: Chris Finlay

Executive: Nils Olsen **Frank Lowes** Sue McLean/Stefan Maus Vincent Lesur Susan MacMillan **Erwan Thebault** (Tanya) Aude C (EOPGS) **Terry Sabaka**

WDMAM task force

	2003-2007	2007-2011
GTK	Korhonen (Chair)	Korhonen (Chair)
NASA	Purucker	Purucker (V- Chair)
GFZ	Mandea	Lesur
NOAA	McLean/Maus	McLean/Maus
IPGP		Thebault
Russia	Tamara L	Tamara L
	Reeves (v-Chair)	Reeves
	Ravat	Hamoudi (Algeria)
	Milligan	Milligan
	Ishihara	Ishihara
ADAMAP	Ghidella	Luis Gaya Piquet
Canada		M. Pilkington

Sessions 2009

- Current methods of Modelling, with V-OBS(Finlay, Lesur, Sabaka)
- Decade (Olsen and Purucker)
- Jerks , with DIV-I(Mandea and Holme)
- WDMAM (Thebault, Korhonen)