



ADMAP-2
Steering
Committee Report



27 August 2013

Dear Colleagues:

This note is to clarify three issues in the 06 Aug. 2013 report on the ADMAP-2 steering committee's Incheon meeting for the production of the second-generation magnetic anomaly map for the Antarctic region south of 60°S.

- 1) The reported milestone **A.2** incorrectly referred to 30 Nov. 2013 as the deadline for accepting data for the ADMAP-2 compilation. This date actually marks the formal initiation of the compilation efforts. Data holders are encouraged to provide their data by or before the beginning of the project, but every effort will be made to incorporate later data submissions up through the ADMAP-2 workshop that is proposed for April - May, 2014.
- 2) As called for in part **C** of the 06 Aug. 2013 report, the enhanced data and metadata formats for archiving the airborne and marine surveys in the digital ADMAP-2 database are provided in the table-below for your review.

(C) - ENHANCED SURVEY DATA FORMATS (csv)

ITEM	NOTES
Line No./Flight No.	Header ⁽¹⁾ of profile should briefly describe the line number it represents (L, PP, T, etc.). Example⁽²⁾ : ROSL1400
LON	Longitude (degree). Header containing info on DGPS/GPS, receiver, system, and other relevant details. Example : -123.123456
LAT	Latitude (degree). Header containing info on DGPS/GPS, receiver, system, and other relevant details. Example : -12.123456
ELEV	Flight elevation (meters). Header should give relevant details (e.g., WGS84, constant nominal, or other). Example : 1234.1

DATE	Date in time format. Example: 2010/12/24
TIME	Header should state whether GPS-time, UTC, or other fiducials. Example: 12:34:56.1; or in seconds or fids→12356
MagR	The raw magnetic observation (nT). Header should contain info on spike removal and other relevant details. Example: -12345.12
MagC	Compensated MagR (nT). Header should contain info on kind of compensation, or a dummy ⁽³⁾ value if not applicable (e.g. in towed bird configuration, MagC = MagR). Example: -12345.12
Tcorr	Tiptank correction (nT). These include DC shifts and gradients due to aircraft noise, etc. Record dummy value if not applicable. Example: -1234.12
RefField	Geomagnetic reference field value (nT). Header includes info on reference field model (e.g. DGRF/IGRF), date, elevation, and other relevant parameters. Example: 12345.12
MagRTC	This is the compensated magnetic value adjusted for the Tiptank and geomagnetic field values. $(MagRTC) = (MagC) + (Tcorr) - (RefField)$ Example: -1234.12
Bcorr	Base station measured geomagnetic field variations (nT). Header includes info on base station(s) used (e.g., time sampling interval, data filtering, instrumentation, site coordinates, mean values, GPS or UTC, accuracies, etc.). The original base station values should be supplied in a separate data base if possible; if base station correction was applied, fill this column with dummy values. Example: -1234.12
MagBRTC	$(MagBRTC) = (MagRTC) - (Bcorr)$ Example: -1234.12
Acorr	Additional corrections (nT) like for heading/lag errors. Header describes the correction; if not applicable, a dummy value is recorded. Example: -1234.12
Scorr	Any DC shift applied (nT). This shift can be applicable to single lines or the entire data set (e.g., upward downward continuation). Header describes the correction; if not applicable, a dummy value is recorded. Example: -1234.12
MagF	Final mag value (nT) after all corrections and prior to any levelling. $(MagF) = (MagBRTC) + (Acorr) + (Scorr)$ Example: -1234.12
MagL	Levelled mag value (nT). Header describes levelling method and related details. Example: -1234.12
MagML	Microlevelled mag value (nT). Header describes microlevelling method and related details. Example: -1234.12
<u>Metadata including the Header</u>	
- Project Name - Geographic Location - Funding agencies - Survey Type (aero, marine, etc.)	

- Survey Date (period) - Survey Line Spacing - Survey Altitude - Sensor Type
 - Line Kilometers Surveyed - Survey Navigation and Accuracy - Publications
 - Contacts - etc.

(¹) The ‘Header’ refers to the very brief note that should precede the data file in one or more header lines. This information should also be included in the metadata with possibly more detail. The first line of the ‘header’ should give the survey identifier or acronym as illustrated in Tables I-, II-, and III-below. To facilitate Geosoft processing, the first character of the header line should be a slash (/).

(²) The format examples closely follow those used for the ADMAP-1 compilation, except for date and time.

(³) As for the ADMAP-1 compilation, unknown data values should be represented by filling out the fields with nines.

Action Item #1 → Please review the proposed data formats in the above table and let Sasha (see list below) know of any errors, or missing items. Please also copy this correspondence to Marta and/or Ralph.

3) A number of updates on the new data surveys reviewed in part **B** of the 06 Aug. 2013 report have been received. Accordingly, the tables below update the availability of the more than 3 million line-km of new national airborne (**Table I**), and marine (**Table II**), and international (**Table III**) magnetic survey data for the ADMAP-2 compilation. The surveys are color-coded where **green** highlights *in-house data*; **yellow** highlights *data not yet in-house*; and **pink** highlights *data of unknown availability*.

TABLE I (New National Airborne Magnetic Surveys)*

SURVEY NAME	PERIOD	AGENCY	LINE-KM	CONTACTS
Black Coast - Antarctic Peninsula (BC)	1996-97	BAS - UK	10000	ffe@bas.ac.uk
Ellsworth Land	1997-98	BAS - UK	8000	ffe@bas.ac.uk
Dufek Survey - Pensacola Mountains (DS)	1998-99	BAS - UK	8300	ffe@bas.ac.uk
Coats Land (AFI-CL)	2001-02	BAS - UK	4700	ffe@bas.ac.uk
MAMOG, Western Dronning Maud Land	2001-02	BAS - UK	15500	ffe@bas.ac.uk
Palmer Land- Antarctic Peninsula (SPARC)	2002-03	BAS - UK	20000	ffe@bas.ac.uk
Ellsworth Land (IMAGE)	2006-07	BAS - UK	20000	ffe@bas.ac.uk
Institute and Möller ice streams	2010-11	NERC - UK	23000	ffe@bas.ac.uk ; m.j.siegert@ed.ac.uk
TAM-Wilkes Basin and Dome C (ITASE)	1998-99	Università di Genova - Italy	1178	egidio@dipteris.unige.it ; ffe@bas.ac.uk
TAM-Wilkes Basin (WIBEM)	2003-04	Italian Program	?????	egidio@dipteris.unige.it ; ffe@bas.ac.uk
Admiralty Mountains (MAGANTER)	2001-02	Università di Genova - Italy	11300	egidio@dipteris.unige.it ; ffe@bas.ac.uk
SOAR (PPT), Pensacola-Pole Transect	1998-99	SOAR - USA	13000	blank@ig.utexas.edu

SOAR (WMB), West Marie Byrd Land	1998-99	SOAR - USA	37000	bluyendyk@geol.ucsb.edu ; blank@ig.utexas.edu
SOAR, Lake Vostok Survey	2000-01	SOAR - USA	20000	robinb@ideo.columbia.edu
GEOMAUD, Dronning Maud Land (DML)	1995-96	BGR - Germany	14800	Detlef.Damaske@bgr.de
EMAGE, DML margin	1996-2002	AWI - Germany	110000	Wilfried.Jokat@awi.de
EPICA (AWI others), DML & Coats Land	1996-99	AWI(Germany) & others	13600	Wilfried.Jokat@awi.de
GANOVEX-IX Cape Adare	2005-06	BGR - Germany	26575	Detlef.Damaske@bgr.de
VISA I-IV, DML	2001-05	AWI - Germany	86213	Wilfried.Jokat@awi.de
WEGAS 2009, DML	2009	AWI - Germany	23310	Wilfried.Jokat@awi.de
WEGAS 2010, DML margin	2010	AWI - Germany	30470	Wilfried.Jokat@awi.de
WEGAS 2011, DML	2011	AWI - Germany	27360	Wilfried.Jokat@awi.de
ANT-XXIII/4 (2006), Amundsen Sea	2006	AWI - Germany	21300	Karsten.Gohl@awi.de
ANT-XXVI/3 (2010), Amundsen & Ross Seas	2010	AWI - Germany	22131	Karsten.Gohl@awi.de
Rae 45-50, Prince Charles Mts.	2000-05	PMGE - Russia	27900	sasha@vniio.nw.ru ; kiselevspb@yandex.ru
Rae 51-58, Prince Charles Mts.	2006-13	PMGE- Russia	47027	sasha@vniio.nw.ru ; kiselevspb@yandex.ru
GANOVEX-X Mesa Range, Victoria Land	2009-10	BGR - Germany	7400	Detlef.Damaske@bgr.de
VISA 2008, DML	2008	AWI - Germany	12234	Wilfried.Jokat@awi.de
TAM-Wilkes Basin (WITRA)	2002-03	INOGS - Italy	1538	egidio@dipteris.unige.it ; fcoren@inogs.it
GIMBLE, Marie Byrd Land	2013-15	UTIG, NSF, NASA	??????	duncan@ig.utexas.edu
HRAM survey, PIG	2010-11	BAS - UK	??????	ffe@bas.ac.uk
GEA, DML	2011-12	BGR & AWI - Germany	??????	Detlef.Damaske@bgr.de ; Wilfried.Jokat@awi.de
Ellsworth Land (TORUS)	2001-02	BAS - UK	6600	ffe@bas.ac.uk
HRAM survey, Adelaide Island	2010-12	BAS - UK	??????	ffe@bas.ac.uk
Mt. Melbourne Volcano	2002-03	?????? - Italy	8000	egidio@dipteris.unige.it

TABLE II (New National Marine Magnetic Surveys)*

SURVEY NAME	PERIOD	AGENCY	LINE-KM	CONTACTS
TH98-99	1998-99	GSJ - Japan	15000	t-ishihara@aist.go.jp
JARE40-42, Indian Ocean	1999-2001	NIPR, Japan	39700	nogi@nipr.ac.jp
AASOPP, Indian Ocean	2001-02	Geoscience Australia	20000	sasha@vniio.nw.ru ; Alexey.Goncharov@ga.gov.au
RAE41-50, Indian Ocean	1996-2005	PMGE - Russia	50000	sasha@vniio.nw.ru s_viv@mail.ru
RAE51-57, Indian Ocean	2005-12	PMGE - Russia	37776	sasha@vniio.nw.ru s_viv@mail.ru
BAS Surveys, Pacific & Atlantic Oceans	2000-08	BAS - UK	58017	ajtate@bas.ac.uk
ANT-XXIII/4, South Pacific	2006	AWI - Germany	15745	Karsten.Gohl@awi.de
ANT-XXVI/3, South Pacific	2010	AWI - Germany	14741	Karsten.Gohl@awi.de
NBPalmer, Southern Ocean	1992-2007	NSF - USA	83370	www.ngdc.noaa.gov/mgs/geodas
NBPalmer, Pacific Ocean	2008-09	NSF - USA	??????	www.ngdc.noaa.gov/mgs/geodas
GEODAS-2007	>2007	NSF - USA	3630	www.ngdc.noaa.gov/mgs/geodas

				odas
JARE43-49, Indian Ocean	2003-09	NIPR, Japan	87275	nogi@nipr.ac.jp

TABLE III (New International Cooperative Magnetic Survey Projects)*

SURVEY NAME	PERIOD	AGENCY	LINE-KM	CONTACTS
James Ross Island (JRI)	1998-99	BAS - UK	10000	ffe@bas.ac.uk ; mghidella@gmail.com
ISODYN/WISE, TAM- Wilkes Basin & Dome C	2005-06	BAS & Italian Program	60000	ffe@bas.ac.uk ; egidio@dipteris.unige.it ;
AGAP	2008-09	IPY Project NSF, BAS, BGR	120000	ffe@bas.ac.uk robinb@ldeo.columbia.edu ; Detlef.Damaske@bgr.de
PCMEGA, Prince Charles Mts.	2002-03	BGR & Geoscience Australia	29844	Detlef.Damaske@bgr.de
ANT-XXIII/9, IPY project in Cooperation Sea	2007	AWI, BGR, & RAE	7725	Karsten.Gohl@awi.de
NPD/PMGE, Indian Ocean	2002-04	Norway & Russia	8000	sasha@vniio.nw.ru
BACKTAM or GITARA VI, N. Victoria Land-Oates Coast	1999- 2000	BGR & Italian Program	19000	Detlef.Damaske@bgr.de ; ffe@bas.ac.uk ; egidio@dipteris.unige.it
SOAR (AEROTAM), TAM	1999- 2000	USA & Italian Program	21000	robinb@ldeo.columbia.edu egidio@dipteris.unige.it massimo.chiappini@ingv.it
TAMARA, TAM	1997-98	USGS & BGR	14100	Detlef.Damaske@bgr.de ; cfinn@usgs.gov
CTAM, TAM	2003-04	USGS & BGR	32000	Detlef.Damaske@bgr.de ; cfinn@usgs.gov
Cape Roberts Project	1994	Università di Genova – Italy; BGR, Germany	??????	egidio@dipteris.unige.it ; ffe@bas.ac.uk ; Detlef.Damaske@bgr.de
ICEBridge (UTIG)	2008-10	USA, UK, Australia	40901	blank@ig.utexas.edu m.j.siebert@ed.ac.uk alan.aitken@sci.monash.edu.au
ICEBridge-2011 (UTIG)	2011	USA, UK, Australia	26507	blank@ig.utexas.edu m.j.siebert@ed.ac.uk alan.aitken@sci.monash.edu.au
ICEBridge-Troll (UTIG)	2011	DK, USA, Argentina	23495	blank@ig.utexas.edu rf@space.dtu.dk
ICEGRAV	2010-11	DK, USA, UK, Argentina	21850	rf@space.dtu.dk ghidella@dna.gov.ar
Pine Island Glacier (BBAS)	2004-05	BAS & USA Program	30000	ffe@bas.ac.uk
ICECAP (UTIG)	2008-09	USA, UK, Australia	102586	blank@ig.utexas.edu
ICECAP (UTIG)	2010-11	USA, UK, Australia	??????	blank@ig.utexas.edu
ICECAP (UTIG)	??????	USA, ??????	??????	blank@ig.utexas.edu
SYOWA, DML & margin	2005-06	AWI (Germany) & NIPR (Japan)	27103	Wilfried.Jokat@awi.de ; nogi@nipr.ac.jp
ICEGRAV, Recovery catchment	2012-13	DTU/NGA & NPI,BAS, IAA	29000	rf@space.dtu.dk ; ffe@bas.ac.uk
AGASEA (UTIG), Amundsen Sea Embayment	2004-05	USA & UK Program	43500	jack@ig.utexas.edu

(*) Note that the line coverages for the above tabulated surveys are generalized in the Antarctic maps presented in the 12 Jun. 2013 announcement.

Action Item #2 → Please review the surveys in Tables I-, II-, and III-above and let Sasha (see list below) know of any errors, or if any surveys are missing from inclusion in the ADMAP-2 compilation. Please also copy this correspondence to Marta and/or Ralph.

We very much appreciate your efforts in keeping ADMAP-2 on schedule and look forward to hearing from you soon regarding the two action items highlighted in blue above.

Best regards.....Ralph, Marta, Sasha, Fausto, Detlef, and Hyung Rae

ADMAP-2 Steering Committee

Ralph von Frese
Marta Ghidella
Sasha Golynsky
Fausto Ferraccioli
Detlef Damaske
Hyung Rae Kim

vonfrese@osu.edu
ghidella@dna.gov.ar
sasha@vniio.nw.ru
ffe@bas.ac.uk
detlef.damaske@bgr.de
kimhr@kongju.ac.kr

BPRC/OSU
DNA/IANt-Arg
VNIIO
BAS
BGR
Kongju Nat. Univ.