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Responsible:

**XXXIV SCAR Delegates Meeting  
Kuala Lumpur, Malaysia, 29-30 August 2016**

## **ADMAP** **(Antarctic Digital Magnetic Anomaly Project)**

### **Contacts: (name and email)**

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### **1-2 paragraph summary of activities from 2014-2016**

The ADMAP-2 group organized splinter meetings at international conferences (e.g. EGU 2014), held 2 workshops (SCAR 2014 & ISAES 2015) and prepared presentations for sessions at international conferences (e.g. AGU 2015). An ADMAP-2 workshop at the SCAR 2016 meeting has been organized and contributions for a session on subglacial geology will be presented.

Major progress has been made in both new regional and continental scale magnetic anomaly compilations and in preparing relevant databases. There have also been several publications about Antarctic magnetic anomaly interpretation in international journals (e.g. Aitken et al., 2014 GRL).

**Recommendations that Delegates and Chief Officers should consider (if any):** Please indicate if voting/approval is necessary or if they are just asked to note information.

The group needs to be continued firstly to produce the final ADMAP-2 magnetic anomaly map for Antarctica including the relevant digital databases. Also a much improved web-based data release portal and an international geomagnetic-community-based paper summarizing the new compilation needs to be prepared.

A variety of new aeromagnetic surveys have been flown in 2015 and 2016 and others are already planned for the next 2 Antarctic field seasons (e.g. over Princess Elizabeth Land, South Pole, Ross Ice Shelf and interior East Antarctica). These efforts will need to be included into updates to the ADMAP-2 compilation.

**Date/Year Group Approved:**  
**Date/Year Group is to End:**

**All SCAR Groups are asked to produce a poster to highlight activities for the SCAR Open Science Conference. Do you plan to produce a poster?**

Yes



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**Further Details:**

List of activities

EGU 2014 Vienna- ADMAP splinter meeting. Several ADMAP-related papers were also contributed to a session on Antarctic geodynamics

SCAR 2014 Auckland (NZ) - ADMAP workshop and contributed to session on Antarctic Geology and Geophysics

ISAES 2015 Goa (India) - ADMAP2 workshop in Goa

Presented ADMAP-2 related presentations at AGU Fall meeting 2015 & UNESCO/IGCP meeting in Hawaii (USA) - 2015

Preparations for ADMAP-2 workshop in Kuala Lumpur and contributions to session on Antarctic subglacial geology

Other activities:

New regional compilations of aeromagnetic data (e.g. Ross Sea Rift & Adare Basin and Wilkes/Aurora basin)

Significant progress in the ADMAP-2 continental scale magnetic anomaly compilation (to be presented by Golynsky et al., in Kuala Lumpur). We highlight the financial support for this activity on behalf of KOPRI.

Papers for international journals

**Major Future Initiatives and Actions, including rough timeline, for at least the next 2 years**

Dec. 2016: Completion of ADMAP-2 magnetic anomaly compilation  
 Feb 2017: Finalize submission of related ADMAP-2 synthesis paper (e.g GRL)  
 Apr. 2017: Printing of ADMAP-2 magnetic anomaly map and distribution at EGU  
 May 2017: Finalize ADMAP-2 web-based data release portal  
 Summer 2017: Proposed Special Issue on regional and continental scale magnetic studies in Antarctica  
 June-Sept 2017: Start soliciting post-ADMAP2 survey data holdings  
 Dec. 2017: Presentations of ADMAP-2 and special issue papers at AGU  
 Jan-June 2018: Assemble new data contributions (ADMAP 2.1 & Special Issue will be presented at SCAR 2018)

**Proposed Budget for 2017 and 2018**

Month/Year	Purpose/Activity	Amount (in USD)	Contact Name	Contact Email
Jan/Feb 2017	Visit BAS/VNIIIO	1500		
Apr 2017	EGU 2017 attendance	1800		
Mar 2017	Printing of ADMAP-2 map	2500		
May 2017	Publication	2000		



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	costs			
Dec 2017	AGU 2017	2000		
Jan 2018	Web-based costs- & staff time	2000		
Apr 2018	EGU 2018	1800		
June 2018	Early career visit VNIIO or BAS	1500		
Aug 2018	SCAR 2018	2000		
Sept 2018	Special Issue costs	2500		

**Budget Justification (please indicate % of budget to support early career scientists and scientists from countries with small Antarctic programmes):**

ca 15% for early career scientist

**External Linkages – Support and Coordination beyond SCAR:**

100 K USD KOPRI direct Support for ADMAP geophysical data base manager since 2013 (Golynsky + 2 others for 2 years)  
 European Space Agency (funding for new magnetic surveying over South Pole-)  
 CHINARE surveys (new magnetic data collection over Princess Elizabeth Land)  
 EGU & AGU  
 IUGG and IAGA  
 National funding agencies (e.g. NERC and NSF-OPP)

**Please describe your outreach, communication and capacity building activities:**

Outreach activities will be performed with the help of the British Antarctic Survey in particular following the publication of the new magnetic anomaly map for Antarctica and also the synthesis community-based publication.

An example of our capacity building includes support to Chinese geophysicists who will collect extensive new magnetic datasets after the completion of ADMAP 2.0 and training and mentoring activities for early career scientist involved in ADMAP.

**Publications of your group to date:**

*Note: Please use the APA style. <http://www.citationmachine.net/apa/cite-a-journal> can help you. We will only ask for a complete list this year, after this we will ask for new publications every 2 years.*

The international ADMAP Expert group has been VERY productive since its initiation in 1995.  
 Ca 200 publications have been published. In two decades this means that we average almost 10 publications per year and our members have several publications in top tier journals including e.g. Nature, GRL, JGR, EPSL,



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Geology. Two Special Issues of Tectonophysics and one in *Annali di Geofisica* have also been published.

### 2016

F. J. Davey, R. Granot, S. C. Cande, J. M. Stock, M. Selvans, F. Ferraccioli, 2016. Synchronous Oceanic Spreading and Continental Rifting in West Antarctica. *Geophysical Research Letters*, DOI: 10.1002/2016GL069087.

A. R. A. Aitken, J. L. Roberts, T. D. van Ommen, D. A. Young, N. R. Golledge, J. S. Greenbaum, D. D. Blankenship & M. J. Siegert, 2016. Repeated large-scale retreat and advance of Totten Glacier indicated by inland bed erosion. *Nature* 533, 385-389, doi:10.1038/nature17447

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Frederick, B. C., Young, D. A., Blankenship, D. D., Richter, T. G., Kempf, S. D., Ferraccioli, F., and Siegert, M. J., 2016, Distribution of subglacial sediments across the Wilkes Subglacial Basin, East Antarctica, *Journal Of Geophysical Research: Earth Surface*, 121, 4, 790--813, 10.1002/2015JF003760

### 2015

Ferraccioli F., 2015. Antarctic Frontiers as revealed from a decade of aerogeophysical exploration. *First Break*, European Association of Geoscientists & Engineers, doi: 10.3997/2214-4609.201411994.

Greenbaum, J. S., Blankenship, D. D., Young, D. A., Richter, T. G., Roberts, J. L., Aitken, A. R. A., Legresy, B., Schroeder, D. M., Warner, R. C., van Ommen, T. D., and Siegert, M. J., 2015, Ocean access to a cavity beneath Totten Glacier in East Antarctica, *Nature Geosciences*, 8, 294-298, 10.1038/ngeo2388

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JORDAN, T. A., et al. Structure and evolution of Cenozoic arc magmatism on the Antarctic Peninsula: a high resolution aeromagnetic perspective. *Geophysical Journal International*, 2014, 198.3: 1758-1774.

Eagles, G., and Jokat, W., 2014, Tectonic reconstructions for paleobathymetry in Drake Passage, *Tectonophysics*, 611, 28-50. Doi:10.1016/j.tecto.2013.11.021.

MIETH, M., JACOBS, J., RUPPEL, A., DAMASKE, D., LÄUFER, A. & JOKAT, W. (2014): New detailed aeromagnetic and geological data of eastern Dronning Maud Land: Implications for refining the tectonic and structural framework of Sør Rondane, East Antarctica. - *Precambrian Research*, 245, 174-185, doi:10.1016/j.precamres.2014.02.009.

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T.M.Damiani, T.A.Jordan, F.Ferraccioli, D.A.Young, D.D.Blankenship, 2014. Variable crustal thickness beneath Thwaites Glacier revealed from airborne gravimetry, possible implications for geothermal heat flux in West Antarctica. *Earth and Planetary Science Letters* 407, 109-122.

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Ferraccioli, F., Ralph von Frese, Marta Ghidella, 2013 (Guest Editors). Recent advances in Antarctic Geomagnetism and Lithosphere studies. *Tectonophysics*, 585, 1-2, 10.1016/j.tecto.2012.11.002.

Gohl, K., Denk, A., Eagles, G., and Wobbe, F., 2013, Deciphering tectonic phases of the Amundsen Sea Embayment shelf, West Antarctica, from a magnetic anomaly grid, *Tectonophysics*, 585, 113-123. Doi:10.1016/j.tecto.2012.06.036.

Golynsky, A., Bell, R., Blankenship, D., Damaske, D., Ferraccioli, F., Finn, C., Golynsky, D., Ivanov, S., Jokat, W., Masolov, V., Riedel, S., von Frese, R, Young, D. and the ADMAP Working Group (2013). Air and shipborne magnetic surveys of the Antarctic into the 21st century. *Tectonophysics, Recent advances in Antarctic geomagnetism and lithosphere studies*, 585, 3-12, doi:10.1016/j.tecto.2012.02.017

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H.R. Kim and R.R.B. von Frese (2013). Localized analysis of polar geomagnetic jerks. *Tectonophysics, Recent advances in Antarctic geomagnetism and lithosphere studies*, 585, 26-33.

J.W. Kim, H.R. Kim, R. von Frese, P. Taylor and E. Rangelova (2013). Geopotential field anomaly continuation with multi-altitude observations. *Tectonophysics, Recent advances in Antarctic geomagnetism and lithosphere studies*, 585, 34-47.

A.S. Wendt, A.P.M. Vaughan, F. Ferraccioli and A.M. Grunow (2013). Magnetic susceptibilities of rocks of the Antarctic Peninsula: Implications for the redox state of the batholith and the extent of metamorphic zones. *Tectonophysics, Recent advances in Antarctic geomagnetism and lithosphere studies*, 585, 48-67.

J. Galindo-Zaldívar, A. Ruiz-Constán, A. Pedrera, M. Ghidella, M. Montes, F. Nozal and L.R. Rodríguez-Fernández (2013). Magnetic anomalies in Bahía Esperanza: A window of magmatic arc intrusions and glacier erosion over the northeastern Antarctic Peninsula. *Tectonophysics, Recent advances in Antarctic geomagnetism and lithosphere studies*, 585, 68-76.

T. Yegorova and V. Bakhmutov (2013). Crustal structure of the Antarctic Peninsula sector of the Gondwana margin around Anvers Island from geophysical data. *Tectonophysics, Recent advances in Antarctic geomagnetism and lithosphere studies*, 585, 77-89.



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M. Catalán, J. Galindo-Zaldivar, J.M. Davila, Y.M. Martos, A. Maldonado, L. Gambôa and A.A. Schreider (2013). Initial stages of oceanic spreading in the Bransfield Rift from magnetic and gravity data analysis. *Tectonophysics, Recent advances in Antarctic geomagnetism and lithosphere studies*, 585, 102-112.

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Osanai, Y., Nogi, Y., Baba, S., Nakano, N., Adachi, T., Hokada, T., Toyoshima, T., Owada, M., Satish-Kumar, M., Kamei, A. & Kitano, I. (2013). Geologic evolution of the Sør Rondane Mountains, East Antarctica: Collision tectonics proposed based on metamorphic processes and magnetic anomalies. *Precambrian Research*, 234, 8-29.

YANG, Y., DENG, X. G., & REN, J. B. (2013). Characteristic of gravity and magnetic and regional tectonics of Antarctica and its adjacent sea. *Progress in Geophysics*, 2, 057.

Nogi, Y., Jokat, W., Kitada, K., & Steinhage, D. (2013). Geological structures inferred from airborne geophysical surveys around Lützow-Holm Bay, East Antarctica. *Precambrian Research*, 234, 279-287

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Golynsky, D.A., Golynsky, A.V. (2012). East Antarctic Rift Systems - key to understanding of Gondwana break-up. *Regional geology and metallogeny. St.-Petersburg, VSEGEI, (In Russian), №52, 58-72.*



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Golynsky, A.V., Golynsky, D.A., Damaske, D., Jokat, W., Masolov, V.N. 2011. Magnetic anomaly field of the central part of Dronning Maud Land, zoning and geologic interpretation. Russian Earth Science Research in Antarctica. Collection of papers. Vol. 3. St.-Petersburg, «I.S. Gramberg VNIIOkeangeologia», (In Russian) 188-208.

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Jordan, T.A., Ferraccioli, F., Vaughan, D.G., Holt, J.W., Corr, H., Blankenship, D.D., Diehl, T.M., 2010. Aerogravity evidence for major crustal thinning under the Pine Island Glacier region (West Antarctica), *Geological Society of America Bulletin*, 122, 714-726, doi: 10.1130/B26417.1.

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*Many of the webpages for SCAR Groups have little information or are not updated regularly. Significant improvements are needed, and funding may be withheld until webpages are updated.*

Please include any updates for your website below:

The support for the old ADMAP website has expired. We will develop an entirely new and re-vamped state of the art website for ADMAP-2 (see below)

If you have suggestions on how to improve the structure of your group's webpages, please provide them below:

The new website will include all compiled digital magnetic databases and data grids, metadata, information on the geophysical surveys and links to relevant publications and institutions. We will also include more general materials for the public.

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