



<http://www.pangea.de/Projects/MARGO/>

MARGO newsletter #2

5 August 2004

Dear MARGO members,

Next month will see the second anniversary of the launch of our project and I am pleased to announce the best possible present for such occasion: the long awaited MARGO *Quaternary Science Reviews* special issue is on the way! The issue contains 13 papers covering all aspects of data compilation, proxy comparison and development and mapping. If everything goes smoothly, the first papers may start appearing online in September. I thought this certainly calls for another newsletter detailing the contents of the issue and summarising the progress since January.

With the special issue out of the way, we are now concentrating on completing Phase II of MARGO: the data synthesis. The first results will be presented at ICP8 in September and we hope to have a draft soon thereafter.

Many thanks to all authors, co-authors, and referees for their heroic effort and in early July. I apologise for all the sleepless nights we have caused and guarantee it was well worth your time.

Looking forward to seeing you in Biarritz!

A handwritten signature in black ink, appearing to read "Michal Kucera".

Michal Kucera

MARGO QSR issue in press

We are pleased to announce that Phase I of MARGO is completed!

After a few very intense weeks tying the last few loose ends, we were able to submit the entire MARGO issue to QSR on July 16. All papers have been checked and processed by the chief editor Jim Rose and the entire volume has now been sent to Elsevier for typesetting. The final list of papers in the special issue is provided on the last page of the newsletter.

All corresponding authors have been notified by e-mail to expect proofs to arrive in late August or early September. The likely publication date of the special issue is spring 2005, but corrected proofs will be placed on the Internet as soon as they are received from the authors. The proofs will be dealt with on individual basis so the date of their appearance on the web depends on how efficiently and quickly the authors can respond to the proofs' arrival and to any issues arising. (in plain English: please be ready and act fast...)

Michal, Ralph and Mara (the co-editors) would like to thank all authors and referees for your hard work during the last year. Because of your dedication, we have succeeded in producing a substantial volume with a number of landmark papers!

MARGO at ICP8

Tuesday 7th September 12:00-12:30

Michal KUCERA (UK) and MARGO project participants: Multiproxy reconstruction of sea-surface temperatures and sea-ice extent of the LGM oceans

MARGO poster session

Apart from the presentation of the MARGO results by Michal on Tuesday, we will also have a poster session at the ICP8. Since now is the time when many of you are preparing your posters, we would like to remind you to ask our nice colour MARGO logo. A high-quality JPEG version can be accessed at the link below.

We are looking forward to seeing as many of you as possible in September!

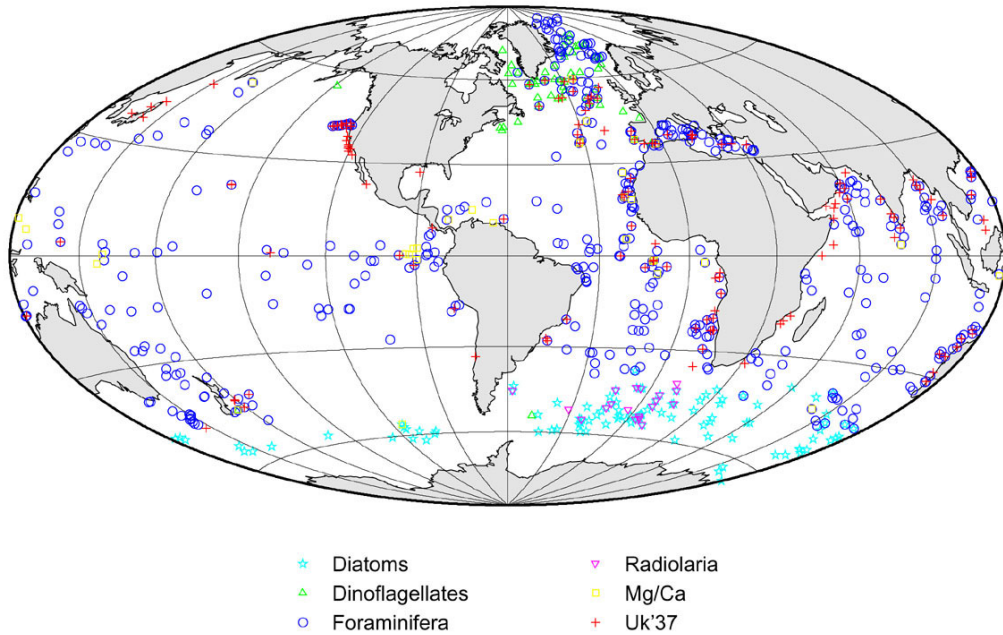
ICP8: <http://www.icp8.cnrs.fr/>

MARGO logo: <http://www.pangaea.de/Projects/MARGO/documents.html>

Synthesis paper

Given the progress in completing Phase I of MARGO, it is now important to move forward with the synthesis of all proxy data. As of now, we have collated SST reconstructions by all proxies and Ralph Schneider together with the Mapping group produced preliminary versions of the synthesis maps as envisaged at the meeting in Barcelona/Castellet. Ralph has got all relevant information from the individual QSR contributions to refer to in the synthesis, with the only outstanding issue being the definition of quality flags by individual proxy groups. The final synthesis is now our highest priority (with the QSR volume out of the way), so please give Ralph all the help he may request in the coming months.

Distribution of MARGO Last Glacial Maximum SST proxy records



Data protection

Now, when work on the synthesis paper culminates, it is important to remind ourselves of two essential data protection guidelines:

- 1) Please be aware that the dataset submitted to MARGO remain password protected until the date of PAPER publication of the issue.
- 2) In order to facilitate a smooth publication of the synthesis paper in a high ranking journal, it is essential that we all abstain from publishing or submitting any paper synthesising any of the MARGO SST results. If you are unsure whether a paper you are working on falls into this category, please contact Ralph Schneider.

Quaternary Science Reviews

MARGO - Multiproxy Approach for the Reconstruction of the Glacial Ocean surface

Guest editors:

Michal Kucera^a, Ralph Schneider^b and Mara Weinelt^c

- Kucera, M., Rosell-Melé, A., Schneider, R., Waelbroeck, C., Weinelt, M., (in press). Multiproxy approach for the reconstruction of the glacial ocean surface (MARGO). *Quat. Sci. Rev.*
- Barker, S., Cacho, I., Benway, H.M., Tachikawa, K., (in press). Planktonic foraminiferal Mg/Ca as a proxy for past oceanic temperatures: A methodological overview and data compilation for the Last Glacial Maximum. *Quat. Sci. Rev.*
- Meland, M.Y., Jansen, E., Elderfield, H., (in press). Constraints on SST estimates for the northern North Atlantic/Nordic Seas during the LGM. *Quat. Sci. Rev.*
- Waelbroeck, C., Mulitza, S., Spero, H., Dokken, T., Kiefer, T., Cortijo, E., (in press). A global compilation of Late Holocene planktonic foraminiferal $\delta^{18}\text{O}$: Relationship between surface water temperature and $\delta^{18}\text{O}$. *Quat. Sci. Rev.*
- Gersonde, R., Crosta, X., Abelmann, A., Armand, L., (in press). Sea surface temperature and sea ice distribution of the Southern Ocean at the EPILOG Last Glacial Maximum – A circum-Antarctic view based on siliceous microfossil records. *Quat. Sci. Rev.*
- de Vernal, A., Eynaud, F., Henry, M., Hillaire-Marcel, C., Londeix, L., Mangin, S., Matthiessen, J., Marret, F., Radi, T., Rochon, A., Solignac, S., Turon, J.-L., (in press). Reconstruction of sea-surface conditions at middle to high latitudes of the Northern Hemisphere during the Last Glacial Maximum (LGM) based on dinoflagellate cyst assemblages. *Quat. Sci. Rev.*
- Morey, A.E., Mix, A.C., Pisias, N.G., (in press). Planktonic foraminiferal assemblages preserved in surface sediments correspond to multiple environmental variables. *Quat. Sci. Rev.*
- Kucera, M., Weinelt, Mara, Kiefer, T., Pflaumann, U., Hayes, A., Weinelt, Martin, Chen, M.-T., Mix, A.C., Barrows, T.T., Cortijo, E., Duprat, J., Juggins, S., Waelbroeck, C., (in press). Reconstruction of sea-surface temperatures from assemblages of planktonic foraminifera: Multi-technique approach based on geographically constrained calibration datasets and its application to glacial Atlantic and Pacific Oceans. *Quat. Sci. Rev.*
- Hayes, A., Kucera, M., Kallel, N., Saffi, L., Rohling, E.J., (in press). Glacial Mediterranean sea surface temperatures based on planktonic foraminiferal assemblages. *Quat. Sci. Rev.*
- Barrows, T.T., Juggins, S., (in press). Sea-surface temperatures around the Australian margin and Indian Ocean during the last glacial maximum. *Quat. Sci. Rev.*
- Chen, M.-T., Huang, C.-C., Pflaumann, U., Waelbroeck, C., Kucera, M., (in press). Estimating glacial western Pacific sea-surface temperature: methodological overview and data compilation of surface sediment planktic foraminifer faunas. *Quat. Sci. Rev.*
- Kiefer, T., Kienast, M., (in press). Patterns of deglacial warming in the Pacific Ocean: A review with emphasis on the time interval of Heinrich event 1. *Quat. Sci. Rev.*
- Schäfer-Neth, C., Paul, A., Mulitza, S., (in press). Perspectives on mapping the MARGO reconstructions by variogram analysis/kriging and objective analysis. *Quat. Sci. Rev.*
- Paul, A., Schäfer-Neth, C., (in press). How to combine sparse proxy data and coupled climate models. *Quat. Sci. Rev.*