

IPODS-OC3 Workshop
Cambridge, September 6th to
9th, 2018

OC 3 Breakout group
Working plan 2018/2019

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- OC3 Age models
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OC3 Database structure

- Set up by Juan Muglia
- Datafiles will contain
 - Original data files, including citations of original publication
 - Stable isotopes ($\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ (if available))
 - Age data
 - Depth model from original publications
 - Derived variables
 - Age model file, ages vs depth including tie points and all new calibrated AMS dates
 - Age vs depth file
- These files will be continuously updated during working phases, derived variables files will be reduced to the newest files at end of each working phase that will be ended with Version publication
- Focus on high resolution cores (resolution better than 1000 years over the deglacial)
- Low resolution cores will be included to include regions with low data coverage
- Data that is not used/checked will be kept separately, only quality controlled data will be released
- End product for phase 1

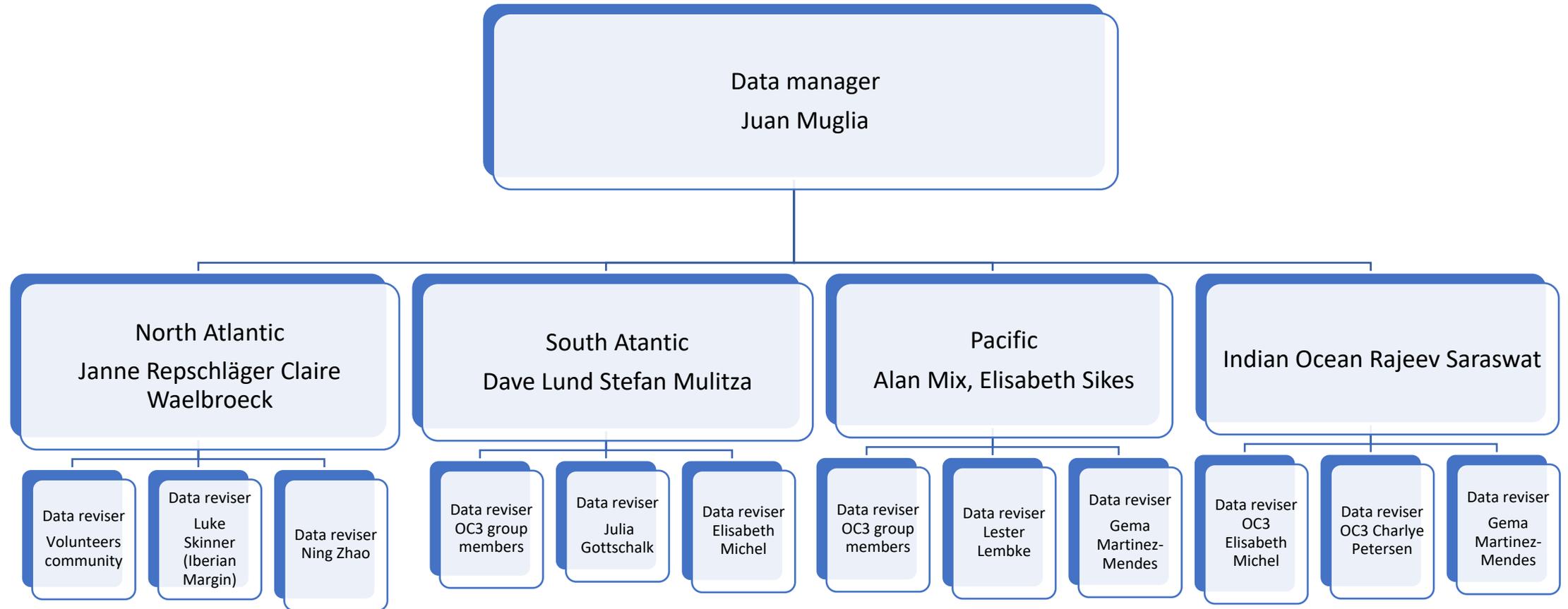
OC3 age models

- All age models based on planktonic ^{14}C AMS dates will be recalculated using PDV with calib13 calibration curve (Reimers et al., 2013) and reservoir ages according to Butzin et al. (2017) the latter will be included into PDV
- If known, additional regional reservoir ages will be used
- Ash layers will be included as tie points into the data base
- ^{14}C AMS plateau tuned chronology will be kept
- Additional tuning to NGRIP/ $\delta^{18}\text{O}$ stack? Tuning of what to what preferences?
 - Priority list of tuning targets ?
 1. N. pachyderma s. abundances to ice cores or other high resolution terrestrial records as cave records IRD to ice cores (not to be used north of Iceland)
 2. SST to ice cores or other high resolution terrestrial records as cave records
 3. Planktic $\delta^{18}\text{O}$ to ice cores or other high resolution terrestrial records as cave records
 4. Benthic $\delta^{18}\text{O}$ with regional stack
- Cores and age models from Claire Waelbroecks compilation will be added to database with an additional flag and age model description when becoming available
- Once published in OC3 database all age models will be made available to the IPDOS community to ensure consistence between proxies

Quality check

- Check original publication on ^{14}C AMS dates and stable isotope data, including check on citation
- Check for any species specific correction uncorrected data needs to be reported in database, if correction on data were applied, corrected data will be reported in a separate column
- Check for possible reservoir age corrections in the original data report uncorrected data in database
- Check for outliers and hiatus and mark them in database using comment column
- Check that depth scale of age model is in agreement with composite depth scale of downcore record
- Check species name

OC3 group organization data compilation



OC3 working steps

- Negotiation with Pangea and NOAA clarification of database structure needed → Stefan, Andreas
- E-mail to Marie-France Loutre: information of leader change and asking for procedure of application for 3rd phase of PAGES group
→ Andreas
- 28th of September Skype conference: Janne, Stefan, Andreas, Juan database structure final approval before sending out
- October 1st 2018 release of final data base structure and call for data and data quality control
→ OC3 group and data author afford

OC3 working steps

- October 4th application for 3rd phase of OC3 → Janne with help of Andreas
- October 4th Application for PAGES workshop in June/or meeting associated with ICP? → Janne
- 1st of October implementation of Butzin et al. 2017 reservoir ages to PDV → Stefan
- January 1st quality control of database finished → OC3 group
- February 1st Submission of database paper → Janne, Lorraine
 - Publication of Version 0 of database including published regional datasets
- 10th of January 2019 abstract submission deadline EGU 2019 Poster on database approach / additional posters
- EGU splinter meeting room organization → Janne
- June 2019 workshop OC3 Mainz ? → Janne
- ICP Poster on database
- AGU session proposal related to OC3 deadline? → Lorraine, Janne, Andreas