BioGEOTRACES-like program planning workshop

Convened by:

Adrian Marchetti (University of North Carolina), Maite Maldonado (University of British Columbia), Mak Saito (WHOI) and Alessandro Tagliabue (University of Liverpool)

Jonsson Center, National Academies of Sciences, Woods Hole MA November 8-10, 2018

HOTEL: Inn on the Square MEETING: Jonsson Center

8 November (Thursday)		
08:15	Meet at the Lobby of the Hotel using shuttle and rental cars	
08:30	Continental Breakfast	
09:00 09:10	Welcome by director of WHOI Mark Abbott Introduction and Overview of Meeting Goals (all convenors) Motivation for workshop and what we are hoping to achieve	
09:30	 Examples of Combining Biological and Chemical data sets (Adrian) 15 minute talks, plus 5 minutes for questions Liz Kujawinski (WHOI) – Marine metabolomics: What's possible? Paul Berube (MIT) –Leveraging BioGEOTRACES data to gain new insights into Prochlorococcus' ecology and evolution Chris Bowler (ENS) – Community-level responses to iron availability in open ocean planktonic ecosystems Benjamin Twining (Bigelow) - Connecting transcriptomics to biogeochemistry through taxon-specific nutrient quotas 	
10:45	Coffee Break	
11:15	Lessons learnt from other international programs (what worked, what did not work, advice on moving forward) (Al) 15-20 minute talks Bob Anderson (Lamont): GEOTRACES Daniele Iudicone (SZN): TARA Oceans Stephanie Dutkiewicz (MIT): Darwin Project Mak Saito (WHOI): Metzyme General Discussion	
12:30	Lunch	
13:30	Lessons learnt from other international programs (what worked, what did not work, advice on moving forward) – continued (Maite)	

14:30	 Preliminary intellectual vision for a new program (AI) What questions would such a programme address?
15:00	Coffee break
15:10	Discussion #1 on Preliminary intellectual vision (all convenors)
15:30	New Opportunities for Sampling Biogeochemical Autonomous Vehicle CLIO (15 mins, Mak Saito)
15:45	Can we summarize lessons learnt from recent studies investigating biological and/or TM biogeochemistry? (benefits & challenges) (Mak) • Interactive session to augment / evaluate table of existing studies
16:15	Reception
18:30	Dinner at Landfall Restaurant in Woods Hole

9 November		
08:15	Meet at the Lobby of the Hotel using shuttle and rental cars	
08:30	Continental Breakfast	
09:00	 How to build an international community? (AI) Plans for Japanese bioGEOTRACES (15 mins, Koji Suzuki) Using the network of national BioGeotraces representatives Communication Tools Further opportunities for dialogue: national vs. international vs. basin (where & when) 	
10:30	Coffee break	
11:00	 Inter-calibration procedures #1 (Adrian) Existing efforts & standardized methodologies in GEOTRACES & BioGEOTRACES GEOTRACES intercalibration philosophy BioGEOTRACES intecalibration protocols and efforts to date 	
11.30	Breakout groups – Key challenges and factors for biological and chemical data	
12:30	Lunch	
13:30	 Inter-calibration procedures Summary (Mak) Reporting back from breakouts Discussion to identify the specific intercalibration challenges and how to make progress 	
14:15	 Discussion on standardized methodologies (Cookbook) (Maite) Identifying a list of protocols & leaders What existing models can we take advantage of? 	
15:00	Coffee Break	
15:30	 Discussion on data management challenges (AI) What kind of data are we expecting? BCO-DMO experience: data handling/deposition (10 mins, Shannon Rauch) Ocean Protein Portal (10 mins, Adam Shephard) Examples of linking 'omics and chemical data (15 mins, Paul Berube) Problems/challenges when linking biological & chemical data sets 	
16:15	Discussion #2 on Preliminary intellectual vision for a new program (All convenors)	
17:30	Adjourn (dinner on your own)	

10 November (Saturday)		
08:15	Meet at the Lobby of the Hotel using shuttle and rental cars	
08:30	Continental Breakfast	
09:00	Recap and Action Items for the meeting (all convenors)	
09:15	 What might a typical cruise look like? (AI) Section versus process studies Time on station / length of cruises Downstream integration / crossovers or reoccupations 	
10:30	Coffee Break	
11:00	 Discussion on how to integrate data with modelling tools (Mak) What kind of modelling and data synthesis tools are available to test our ideas? (15 mins, Alessandro Tagliabue) Pros and cons of different approaches and lessons learned Is there a need for theoretical development? Plan to move forward 	
11:45	How to fund the science? (Maite) Funding options from different nations (all participants to participate)	
12:30	Lunch	
13:30	Discussion #3 on Preliminary intellectual vision for a new program – what should the program be called? (all convenors)	
15:00	Coffee Break	
15:30	 Dissemination & feedback agenda (Adrian) How do we spread the word, build the community and encourage feedback? Importance of communication and inclusivity Opportunities at national and international levels Action plan 	
16:30	Moving forward and Meeting Summary (all convenors) Next workshop Perspectives paper Before next workshop Recap of Action items	
17:30	Adjourn (dinner on your own)	