Synthesis and Modeling Project PI Meeting

July 16-20, 2001

Woods Hole Oceanographic Institution

Quissett Campus, Clark 507

***** DRAFT AGENDA *****
(as of 04 June 2001)

At this stage, every project is allotted a 15 min time slot, and each is currently assigned a title based on the title of the project.
We realize that some of you would prefer presenting a poster instead, or changing what we have listed.

PLEASE SEARCH FOR YOU NAME OR PROJECT, AND SEND ME (kleypas@ucar.edu) **THE FOLLOWING:**

1. **Title and abstract of your presentation, and speaker's name if different from the one in parentheses below**
2. **If you wish to present a poster:**
   INSTEAD OF the oral presentation
   IN ADDITION TO the oral presentation
3. **If you wish to request time slots for the afternoon collaborative meetings**
4. **ANY OTHER CHANGES that you think are necessary**

- please note that date/time of each talk is only approximate - times/dates may change -

EACH PRESENTATION BELOW LISTS THE PRINCIPAL INVESTIGATOR AND PROJECT TITLE.
THE NAME IN PARENTHESES IS THE DESIGNATED SPEAKER.

back to SMP home

Mon. July 16	
8:00-9:00	*Continental Breakfast*
9:00-9:45	**INTRODUCTION:** logistics - current status - new PIs - special volume - future directions - short courses - community outreach

9:45-10:30	**15 MIN TALKS Euphotic Zone Production & Export:** Lizotte (LIZOTTE) — HPLC & phytoplankton community structure Falkowski (IGLESIAS-RODRIGUEZ) — Representing key phytoplankton groups in ocean carbon cycle models Jackson (JACKSON) — Upper-ocean aggregation models for interpreting and predicting carbon fluxes
10:30-11:00	*Break*
11:00-12:00	**15 MIN TALKS Euphotic Zone Production & Export:** Roman — Why are there more mesozooplankton at HOT as compared to BATS? Ducklow et al. (DUCKLOW) — Bacterial biomass and production variability in ocean ecosystems Christian & Letelier (CHRISTIAN) — Modeling microbial processes and DOM at Station ALOHA Barber (CHAI) — New and export productivity regulation by Si and Fe in the equatorial Pacific Ocean
12:00-1:00	*Buffet Lunch*
1:00-1:45	**DATA MANAGEMENT** - Cyndy Chandler - Presentation on US JGOFS merged data products and new data system interface Dave Glover - The SMP LAS System - preview of coming attractions
1:45-3:00	**15 MIN TALKS Euphotic Zone Production & Export:** Nelson et al. (NELSON) — Si cycling and control of new production and organic carbon export in Southern Ocean and Sargasso Sea Sambrotto & Dickson (BROSTROM) — Nitrogen uptake and net community production using JGOFS data and 1-D modeling Landry et al. (LANDRY) — Data-based models of plankton community structure and export flux Ducklow et al. (DUCKLOW) — Ecosystem structure, biogeochemical fluxes and vulnerability to climate change perturbations
3:00-3:30	*Break*
3:30-4:15	**15 MIN TALKS Euphotic Zone Production & Export:** Laws (LAWS) — f-ratios & export flux Murray et al. (MURRAY) — Food-web regulation of particulate export flux in HNLC regions Capone et al (HOOD) — Modeling the distribution of *Trichodesmium* and N-fixation in the Atlantic Ocean

4:15-5:00	Organization of Working Group and Other Meetings
5:00-7:00	****** RECEPTION & POSTER SESSION ******
7:00->	*Dinner on your own*

Tue. July 17

7:30-8:30	*Continental Breakfast*	
8:30-8:45	**BRIEFING**	
8:45-9:30	**WORKSHOP REPORT: Marine Calcification by Debora Iglesias-Rodriguez, followed by talk by Dick Feely on the global CO2 data set ???**	
9:30-10:30	**15 MIN TALKS Twilight Zone Processes - Subsurface Transport and Remineralization:**	
	Buesseler	Magnitude, variability and controls of particulate export in the upper ocean
	Jackson & Burd (JACKSON)	Carbon flows between the euphotic zone and 1000m depth
	Glover & Conte (GLOVER)	A Coupled Epipelagic-Meso/Bathypelagic Particle Flux Model for the BATS/OFP Site
10:30-11:00	*Break*	
11:00-12:00	**15 MIN TALKS Deep Ocean and Sediments:**	
	Honjo et al. (HONJO)	Global export and recycling of biogenic material into the ocean interior
	Jahnke (JAHNKE)	Deep ocean C, CaCO3, opal; nutrient particle and benthic fluxes; sediment accumulation
	Martin & Sayles (MARTIN)	Cycling of organic carbon and CaCO3 in marine sediments: Parameterization for global models
12:00-1:00	*Buffet Lunch*	

1:00-2:30	**15 MIN TALKS Continental Margins and Satellite Data:** Bauer — Budgets of biogenic elements in the NW Atlantic ocean margin Carr & Kearns — An historical and modeling comparison study of four coastal upwelling systems Yoder — Interannual variability of global satellite chlorophyll patterns Walsh (???) — Sources of NO3 and N2 in S. Caribbean and CDOC contamination of satellite color signals Gardner, Richardson & Mishonov — The use of beam attenuation to predict POC: bottle or pump data? Mishonov, Gardner & Richardson — Global POC assessment based on transmissometer data Siegel — Next generation of ocean color models for understanding regional and global marine processes
2:30-3:00	**????**
3:00-3:30	*Break*
3:30-5:00	**WG and OTHER COLLABORATIVE MEETINGS** **Large-scale Datasets Working Group** **"Twilight Zone"?**
5:00-6:00	**POSTERS**
6:00->	*Dinner on your own*
Wed July 18	
7:30-8:30	*Breakfast*
8:30-8:45	**BRIEFING**
8:45-10:15	**15 MIN TALKS Satellite Data & Modeling:** McClain et al. (MURTUGUDDE) — Physical-biological interactions in tropical Pacific and Atlantic equatorial surface layers (1) Dynamics of the 1998 La Nina Bloom - or - (2) Physical biological feedback in a coupled ocean-ecosystem model and a coupled ocean-atmosphere model Hofmann (HOFMANN) — Primary productivity in tropical Pacific and Atlantic Oceans using satellite ocean color and numerical models Follows — The oceans' subtropical gyres and atmospheric pCO2 Hood et al. (HOOD) — A 3-dimensional validation of a coupled biological/chemical/physical model for the Arabian Sea
10:15-10:45	*Break*

10:45-12:00	**15 MIN TALKS Basin & Global Scale Data Synthesis:**
	Hansell et al. (BATES) — Mass balance assessments of carbon partitioning
	Conkright (MURPHY) — Assembly, quality control and analysis of carbon dioxide system components
	Dickson (DICKSON) — Synthesis of a global surface pCO2
	Sabine et al. (SABINE) — Synthesis and interpretation of NOAA/DOE global CO2 survey data
	Lee et al. (LEE) — CaCO3 saturation state of the ocean
12:00-1:00	*Buffet Lunch*
1:00-3:00	**15 MIN TALKS Basin & Global Scale Data Synthesis and Modeling - continued:**
	C Keeling (???) — Oceanic carbon cycle model analysis of a new global set of oceanic carbon Including del-13C data
	Quay & McNichol (MCNICHOL) — Oceanic CO2 uptake rates from an ocean-wide 13C/12C-DIC data set
	Key et al. (KEY) — Redfield remineralization ratios from neutral surface analysis of the new global data set
	Peng et al. (CHAI?) — Redfield ratios from OACES and DOE/WOCE/JGOFS CO2 survey data
	McGillicuddy et al. — The role of mesoscale eddies in basin-scale biogeochemical budgets of the North Atlantic: results from a high resolution (0.1 degree) simulation
	McGillicuddy et al. — Modeling mesoscale biogeochemical processes in a Topex/Poseidon diamond surrounding BATS
3:00-3:30	*Break*
3:30-5:00	**WG and other meetings, continued** **Large-scale Datasets Working Group (cont'd)** **Regional Testbeds**
5:00-8:00	*** ***DINNER and VOLLEYBALL*** ***

Thur. July 19

7:30-8:30	*Continental Breakfast*
8:30-8:45	**BRIEFING**

8:45-10:15	**15 MIN TALKS Basin & Global-scale Synthesis & Modeling - continued:**		
		Wanninhkof et al. (WANNINKHOF)	Meridional transport of carbon dioxide in the North Atlantic
		Talley & Johnson and/or Robbins & Dickson (ROBBINS)	Transport and storage of carbon in the Pacific: Estimates from inverse models and/or Anthropogenic carbon in the Pacific using diagnostic inverse models
		Thompson et al.	Mechanisms controlling the biological pump and CO2 uptake rates in the North Pacific. (5-min)
		Bates & Sabine (BATES)	Temporal variability in global inorganic carbon distributions
		Sarmiento (SARMIENTO)	Oceanic uptake of anthropogenic CO2 and other trace gases using multiple tracer relationships
10:15-10:45	*Break*		
10:45-12:00	**PLENARY DISCUSSION**		
12:00-1:00	*Buffet Lunch*		
1:00-3:00	**15 MIN TALKS Basin & Global-scale Synthesis & Modeling - continued:**		
		Hofmann et al. (HOFMANN)	Comparative modeling and data analysis studies for the Ross Sea and W. Antarctic Peninsula
		Arrigo & Robinson (ARRIGO)	A coupled ice-ocean model of mesoscale physical/biological interactions in the Ross Sea
		Friedrichs et al.	Regional ecosystem model testbeds.
		Gruber (GRUBER)	Interannual to decadal variability in the carbon cycle of the subtropical and subpolar gyres.
		Laws et al. (LAWS)	Development of a coupled global circulation/adaptive food web model to explain ocean carbon cycling
		Doney (DONEY)	Impact of interannual variability on air-sea CO2 fluxes and oceanic DOC fields
		Najjar et al. (NAJJAR)	OCMIP
3:00-3:30	*Break*		
3:30-5:00	**WG and other meetings, continued** **OCMIP** **Community Outreach?**		
5:00-6:00	**POSTERS**		
6:00->	*Dinner on your own*		
Fri. July 20			
7:30-8:30	*Continental Breakfast*		
8:30-10:15	**WRAP-UP - future directions of the SMP**		

10:15-10:45	*Break*
10:45-12:00	**FINAL PLENARY**

POSTERS:

Gardner, W., M.J. Richardson and A.V. Mishonov, The use of beam attenuation to predict POC: bottle or pump data?

Mishonov, A.V., W. Gardner and M.J. Richardson, Global POC assessment based on transmissometer data

McGillicuddy, D.J., S.C. Doney, L.A. Anderson, M.E. Maltrud and F.O. Bryan, The role of mesoscale eddies in basin-scale biogeochemical budgets of the North Atlantic: results from a high resolution (0.1 degree) simulation

Prezelin, B. B.

SPECIAL MEETINGS:

OCMIP

Large-scale Data Sets

Twilight Zone

Regional Test Beds