## Ocean Carbon and Biogeochemistry Scoping Workshop on Ocean Acidification Research Scripps Institution of Oceanography La Jolla, CA Sumner Auditorium October 9-11, 2007

(Shuttles will leave La Jolla Shores Hotel starting at 7:45 a.m. It will take 3 trips to get everyone to Scripps.)

Comppe	J.,						
Tuesd	lay, October 9,	2007					
800	Continental Br	eakfast	Outside the S	umner Auditorium			
(Posters can be put up immediately on the wall outside Sumner Auditorium. It is a concrete wall so we will provide tape to use.)							
830	Logistics by Vicki Fabry, California State University, San Marcos						
840	Welcome by Tony Haymet, Scripps Institution of Oceanography						
850	NSF, NOAA, NASA						
920	What we hope to accomplish Chris Langdon, University of Miami, and Vicki Fabry						
930	Session A, Moderator: Cynthia Pilskaln, University of Massachusetts						
	<b>Hugh Ducklow</b> , <i>Marine Biological Laboratory</i> : How Will Polar Plankton Ecosystems Respond to Ocean Acidification?						
1010	Coffee break (	(30 min)	Outside the S	umner Auditorium			
1040	<b>Mark Green</b> , <i>St. Joseph's College</i> : Death by Dissolution: The Fate of Carbonate-bearing Organisms in Nearshore Marine Environments in a High CO <sub>2</sub> World						
1120	Session B, Mo	derator: Richard Feel	y, NOAA/PMEL				
	Ulf Riebesell,	IFM-GEOMAR, Kiel:	Pelagic Mesoco	osms for Future Ocean Simulations			
1200	Lunch and posters: 1 hour Outside Sumner Auditorium: Seating will be anywhere you can perch on the wall or at the nearby Pawka Green.						
1300	Kerim Aydin, NOAA Alaska Fisheries Science Center. Impacts on Fisheries						
1340	Breakout 1 (Participants will be given instructions and questions to be answered)						
Break	•	Group 1 - corals - Su		•			
		Group 2 - coastal/est					
		Group 3 - subtropical	tropical pelagio	c regions -Old Scripps Bldg. Room 10			
1500	Coffee break	Group 4 - high latitud	es - Hubbs 450				
1530	Breakout 1 co	ntinued					
Shuttle	Posters will leave Sumn	reakout 1 back to pler er to the Birch Aquarium	at 1800.	Sumner Auditorium Outside Sumner Auditorium			
1800-2000 Reception for OCB Scoping Workshop for Ocean Acidification Research,							
hosted by Scripps Institution of Oceanography Birch Aquarium							

Shuttles will leave from outside of Birch Aquarium starting at 1945 to get everyone back to the hotel. It will

take 3 trips to get everyone back to the hotel.

Wednesday, October 10, 2007						
800 830 845	Continental Breakfast Update: Chris Langdon and Vicki Fabry Session C, Moderator: Peter Edmunds, California State University, Northridge Anne Cohen, Woods Hole Oceanographic Institution: Biocalcification Responses to Ocean Acidification: the Interplay of Physicochemical and Physiological Factors Brad Seibel, University of Rhode Island: Physiological Response to Ocean Acidification:					
1005	Squids as Extreme Animal Models	Outoide the Curee or Auditorium				
1005	Coffee break	Outside the Sumner Auditorium				
1035	Session D, Moderator: <b>Chris Sabine</b> , <i>NOAA/PMEL</i> Sumner Auditorium <b>Gretchen Hofmann</b> , <i>University of California, Santa Barbara</i> : Using Functional Genomics to Explore the Impacts of Ocean Acidification on Calcifying Marine Organisms					
1115	<b>Fred Mackenzie</b> , <i>University of Hawaii</i> : Carbonate Dissolution Under Rising Atmospheric CO2 and Ocean Acidification					
1200 1300	Lunch and posters: 1 hour Outside the Sumner Auditorium  Moderator: Andrew Dickson, Scripps Institution of Oceanography  Scott Doney, Woods Hole Oceanographic Institution: Modeling Challenges for Ocean  Acidification Sumner Auditorium					
1340	Breakout 2 (Participants will be given instructions a					
вгеакс	outs rooms are: Group 1 - corals - Sumner Auditoriu Group 2 - coastal/estuary - Munk IG					
Group 3 - subtropical/tropical pelagic regions -Old Scripps Bldg. Room 10 Group 4 - high latitudes - Hubbs 4500						
1500	Coffee break: There will be two set ups. One outside Sumner Auditorium and one outside Hubbs 4500.					
1530 1640 1700	Breakout 2 continued Report back from Breakout 2 to plenary  Evening talk over beer: Moderator, <b>Andrew Dickson</b> , <i>Scripps Institution of Oceanography</i>					
1800	<b>Danny Harvey</b> , <i>University of Toronto</i> : Ocean Mitigation Strategies Sumner Auditorium Dinner on your own: Shuttles will leave for the hotel starting at 1800.					
Thursday, October 11, 2007						
800 830 845	Breakfast Update: Chris Langdon and Vicki Fabry Session E, Moderator: Chris Sabine, NOAA/PMEL David Hutchins, University of Southern California: Ocean Biology: Winners and Losers in the Central	Rising pCO2 and Oligotrophic Gyres				
925	<b>Uta Passow</b> , <i>University of California, Santa Barba</i> Export	ra: Respiration, Decomposition and				
1005	Coffee break	Outside the Sumner Auditorium				

1035 Session F, Moderator: **Dwight Gledhill**, *NOAA Coral Reef Watch* Sumner Auditorium

**Ilsa Kuffner**, *U.S. Geological Survey*: Ocean Acidification Impacts on Coral Reefs - Changes in Community Structure

1115 **Barney Balch**, *Bigelow Laboratory for Ocean Sciences*: Using Remote Sensing to Assess Ocean Acidification Impacts

1200 Lunch and posters: 1 hour Outside the Sumner Auditorium

1300 Breakout 3 (Participants will be given instructions and questions to be answered) Breakouts rooms are: Group 1 - corals - Sumner Auditorium

Group 2 - coastal/estuary - Munk IGPP 12B

Group 3 - subtropical/tropical pelagic regions -Old Scripps Bldg. Room 10

Group 4 - high latitudes - Hubbs 4500

1500 Coffee Break There will be two set ups. One outside Sumner Auditorium and one outside Hubbs 4500.

1530 Breakout 3 continued

1640 Report back from Breakout 3 to plenary Sumner Auditorium

1700 Workshop Wrap up/Recommendations

1730 Dinner on your own

Shuttles will leave for the hotel starting at 1735.

This workshop focuses on four habitats: warm water coral reefs, coastal areas/estuaries, tropical/subtropical pelagic regions and high latitudes. Each afternoon, participants will split up into these four groups and discuss a set of questions that the steering committee has formulated. The questions will change on days 1, 2 and 3. At the end of each afternoon, participants will assemble to report on their discussions and recommendations to the entire group. Each breakout group will have a leader and rapporteur.

Group	<b>Discussion Leader</b>	<u>Rapporteur</u>
1 Coral reefs	Joanie Kleypas	Marlin Atkinson
2 Coastal/estuaries	Burke Hales	Richard Jahnke
3 Tropical/subtropical pelagic	David Hutchins	Peter Sedwick
4 High latitudes	Barney Balch	John Guinotte

Participants will be initially assigned to groups based on the organizers' knowledge of their interests. A number (from 1 to 4) will be printed on each name tag. Participants may switch groups if the organizers were wrong about their interests, but obviously it is desirable to maintain a rough balance in numbers across the four groups.

## **Overview of Rooms:**

Plenary Sessions are in Sumner Auditorium

Breakouts rooms are: Group 1 - corals - Sumner Auditorium

Group 2 - coastal/estuary - Munk IGPP 12B

Group 3 - subtropical/tropical pelagic regions -Old Scripps Bldg. Room 10

Group 4 - high latitudes - Hubbs 4500

Breakfasts, morning breaks, lunch, are outside Sumner Auditorium.

Afternoon coffee breaks are in 2 areas: outside Sumner Auditorium and outside Hubbs Hall 4500.