



**PROGRAM ON CLIMATE CHANGE**  
UNIVERSITY OF WASHINGTON

**7<sup>th</sup> University of Washington Program on Climate Change Summer Institute  
and  
Friday Harbor Laboratory Centennial Symposium**

**“How Does Ocean Circulation Matter for Climate Change?”**

**Sept. 14-17, 2008**

**Friday Harbor Laboratories, San Juan Island, WA**

**AGENDA**

**Sunday, September 14**

12:30- 2:45 check-in, packet, map and key pick-up; room assignments (DINING HALL)  
(at 7 pm keys and room assignments can be found on bulletin board in FERNALD)

**Welcome (THE COMMONS)**

3:00 PCC in the coming year, Chris Bretherton (UW);

3:15 PCC and the College of the Environment, Dennis Hartmann (UW);

3:30 Schedule and goals of this years Summer Institute, LuAnne Thompson (UW).

4:00-4:45 The ocean's role in climate, Dennis Hartmann (UW).

6:00-6:30 Dinner served. (DINING HALL)

**Reception and Poster Session (DINING HALL)**

7:00 1-minute poster presentations;

7:15-9:00 Reception and Poster Session.

**Monday, September 15**

7:45- 8:15 Breakfast served. (DINING HALL)

**Monday Morning Session (THE COMMONS)**

8:40 AM Welcome Address by Dr. Ken Sebens, Director, Friday Harbor Laboratories.

***The Ocean in the Climate System, David Battisti Session Chair***

8:45 AM John Marshall (MIT): “*Thought experiments in climate and paleoclimate: exploring the role of the Ocean*”

9:45 Wilco Hazeleger (KNMI) “*Regional, continental imprints of ocean circulation changes: amplification and damping*”

10:45 Break

“How Does Ocean Circulation Matter for Climate?” UW PCC Summer Institute, 2008  
11:15 Cecilia Bitz (UW): “*The Coolest Part of the Ocean*”

12:30-1:00 Lunch is served (DINING HALL)

**Monday Afternoon free!**

6:00-6:30 PM Dinner is served (DINING HALL)

**Monday Evening Session (THE COMMONS)**

***Ocean Circulation in the Past, Julian Sachs Session Chair***

7:00 PM Jean Lynch-Stieglitz (Georgia Tech): “*Meridional overturning circulation in the Atlantic & the Gulf Stream from the Last Glacial Maximum to the Holocene*”

8:00 PM Jerry McManus (WHOI): “*North Atlantic MOC during Heinrich Events*”

9:00 Break

9:30 PM Panel Discussion--*Can the Ocean Circulation Change Drastically as Implied by Paleo Data?*

Moderator: Julian Sachs (UW).

Panelists: Jerry McManus (WHOI), Jean Lynch-Stieglitz (Georgia Tech), John Marshall (MIT) and David Battisti (UW).

**Tuesday, September 16**

7:45- 8:15 Breakfast is served (DINING HALL)

**Tuesday Morning Session (THE COMMONS)**

***Variability of Ocean Circulation, Interannual to Decadal, Chris Bretherton, Session Chair***

8:45 AM Martin Visbeck (IFM-GEOMAR): “*N. Atlantic MOC Observations*”

9:45 Kathryn Kelly (UW): “*N. Atlantic/Gulf Stream Ocean-Atmosphere Heat Transports*”

10:45 Break

11:15 Mike Wallace (UW): “*Role of the oceans in the interannual and interdecadal variability of global-mean temperature*”

12:30-1:00 Lunch served. (DINING HALL)

**Tuesday Afternoon free!**

6:00-6:30 Dinner served (DINING HALL)

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“How Does Ocean Circulation Matter for Climate?” UW PCC Summer Institute, 2008

**Tuesday Evening Session (THE COMMONS)**

***The Carbon cycle, and land/ice interactions: what is the role for the oceans in future and past climate change? LuAnne Thompson, Session Chair.***

7:00 PM Joellen Russell (University of Arizona) *Intercomparison of IPCC coupled climate models’ simulation of the Southern Ocean: Climate, Circulation and ‘Carbon*

8:00 David Battisti (UW) *A new model for Dansgaard-Oeschger Cycles*

9:00-9:30 Break

9:30 PM Panel Discussion--*What can we say confidently? What is a reasonable best guess about the role of the ocean in future climate change?*

Moderator: LuAnne Thompson (UW).

Panelists: Martin Visbeck (LDEO), Mike Wallace (UW), Greg Johnson (UW, PMEL), Joellen Russell (UA)

**Wednesday, September 17, 2008**

7:45-8:15 Breakfast served. (DINING HALL)

**Wednesday Morning Session, Chris Bretherton, Session Chair (THE COMMONS)**

8:45 AM Debate: *What can models tell us about ocean circulation and climate?*

1. Models have a long way to go: LuAnne Thompson (UW), Gerard Roe (UW)
2. Models can be trusted to tell us what we need to know: David Battisti (UW) and John Marshall (MIT)

Discussion: What can we do to improve our understanding of the role of the ocean in climate?

10:15 Break

10:45 Summary Presentation by David Battisti (UW) and Julian Sachs (UW);

11:00 PCC and the year ahead;

Return Keys and Name Badges in box in the COMMONS or the DINING HALL.

11:45 Pick-Up Bag Lunches (DINING HALL) and Catch the 1:00 PM Ferry!

**Acknowledgements**

***The PCC would like to acknowledge the Friday Harbor Laboratories for their generous assistance in providing an on-line registration system, financial support, and assistance with many other behind the scenes tasks. We also thank Friday Harbor Labs for including the summer institute as one of their Centennial Symposia this year.***

***The PCC would also like to acknowledge JISAO for their on-going sponsorship of this annual event.***

9/12/2008