



**University of Washington Program on Climate Change
Summer Institute, 2016 at Friday Harbor Marine Lab
Schedule Sept. 14-16th, 2016
“The Climate of Antarctica and the Southern Ocean”
Revised 9/13/2016**

Wednesday, September 14th

11:50 leave Anacortes on ferry arrive Friday Harbor at 1pm (check with your carpool for Seattle departure times and meeting locations)

1-3:45 pm, Check-In and Packet Pick-Up. FHL Dining Hall.

2 pm, Row Boat Training (tentative)

Afternoon Session: 3:45-6:00 in FHL Commons

3:45-4:00, Logistics, Welcome, and Introductions

4:00-6:00, *The Antarctic climate system: Ocean and ice sheets –*

Taking the Circumpolar out of the Antarctic Circumpolar Current: the ACC and the overturning circulation by Andy Thompson

How much, how fast? The fate of the Antarctic ice sheet in a warmer climate by Knut Christianson

6:00-6:30, *Dinner served* (FHL Dining Hall)

Evening Public Lecture: 7:00-9:00, Modern Climate of the Antarctic, FHL Dining Hall
Climate of the Antarctic Ice Sheet by Steve Warren

A polar climate change puzzle: Why has the Southern Ocean cooled while the Arctic has warmed? By Kyle Armour

Thursday, September 15th

7:45-8:15, *Breakfast served* (FHL Dining Hall)

Morning Session (FHL Commons)

8:30-10:20, Antarctic climate system: Atmosphere local and global -

Large-scale atmospheric variability in the mid/high latitudes of the Southern Hemisphere: What we know and what we don't by David Thompson

A chill felt 'round the world? The role of Antarctica in the global climate system by Dargan Frierson

10:20-10:40, Break and Photo

10:40-11:30, Anthropogenically forced Antarctic climate change in the presence of very large natural variability: is the signal to noise ratio large enough? by Lorenzo Polvani

11:30-noon, Quick talks (5 min, 1 slide)

12:15-12:45, *Lunch Served* (FHL Dining Hall)

1:00-1:20, *Row Boat Training (required prior to use) – meet at dock (tentative)*

Afternoon Free

4:00-6:00, **Poster Session and Reception** (FHL Dining Hall)

6-6:30, *Dinner served* (FHL Dining Hall)

Evening Session (FHL Commons)

7 Lisa Graumlich, College of the Environment, Dean

7:15 – 9:15 Antarctic climate system: Carbon cycle and last glaciation -

The outsized role of the Southern Ocean in the global carbon cycle by Curtis Deutsch

Millennial-scale variability of an East Antarctic outlet glacier system during the last glaciation by Amelia Shevenell

Friday, September 16th

7:45-8:15, *Breakfast served* (FHL Dining Hall)

CHECK OUT (return keys, if in dorms, ck name off list)--see Vikky in Dining Hall; you can leave your bags with her and pick them up w/bag lunch).

Morning Session (FHL Commons)

8:30-10:20, Antarctic paleoclimates -

The Last Interglacial recorded in Antarctic ice cores by Louise Sime

Accumulation-rate changes through the Holocene from ice-core records and radar data by Michelle Koutnik

10:20-10:40, Break

10:40-11:30, The ice core context for recent Antarctic climate variability and change by Eric Steig

11:30-noon Panel discussion

12:15, *Collect Bag Lunch and Luggage*

1:50, *Ferry departs Friday Harbor for Anacortes*