

## US CLIVAR Western Boundary Current Working Group (WBC WG)

Teleconference minutes April 5, 2007

Participants: Michael Alexander, Nick Bond, Meghan Cronin, Terry Joyce, Kathie Kelly, Young-oh Kwon, Bo Qiu, Justin Small, LuAnne Thompson,

Items:

- 1) Replacement for Shiling Peng
- 2) 1st Meeting
- 3) Scientific issues and the next teleconferences
- 4) Session at the Ocean Sciences meeting
- 5) Next teleconference Monday May 7th
- 6) Action Items

### 1) Replacement for Shiling Peng

a) Shiling Peng is unable to continue serving as an active participant on the WBC WG. The co-chairs suggested that we ask Hisashi Nakamura of the University of Tokyo to replace Shiling and the committee approved. We have invited Hisashi to join the WG via e-mail and are awaiting his reply. If Hisashi joins the group it was noted that it may be difficult to have teleconferences with all of the WG members given the spread in time zones between the US, Europe and Japan.

### 2) 1st Meeting

Discussion continued about where/when to have our first in person meeting. The plan remains to either have it in Portland Oregon during August 20-24 "in conjunction" with the AMS Air-Sea interaction conference or to have it during the previous or following week in Seattle. AMS has yet to set the schedule for the Air-Sea meeting (although they will probably do so in the next week or two), so we held off on making a final decision but requested that WG members indicate whether they would be able to attend a meeting in Seattle before and/or after the Air-Sea conference.

### 3) Scientific issues and the next teleconferences

There was a general discussion about how to best organize into sub groups. Kathie suggested two ways of doing this:

Goals:

- KESS/CLIMODE comparisons
- Modeling shortcomings
- Data gaps and experiments needed

Big science issues:

- Nature of air-sea coupling? Timescales? Coupled?
- Does interaction extend beyond the boundary layer? Do models see this?
- Does WBC interaction affect climate on a larger scale? Or affected by it?

After some discussion we decided on a modified plan, with three topic areas that will be discussed in the next 3-4 teleconferences

- Overview/review of the KESS (Cronan, Qiu) and CLIMODE (Joyce, Kelly, Samelson) Programs

review only the components of these programs that are relevant to the WBC WG

- Small-Scale/Short Time Scale Air-Sea Interaction  
e.g. boundary layer, individual storm response to SST anomalies  
(Bond, Kelly, Kelly, Small, Thompson)

- Large-Scale/Long Time Scale Air-Sea Interaction  
atmospheric response to SSTs in AGCMs, decadal variability, teleconnections to/from other regions  
(Alexander, Frankignoul, Kwon, Nakamura\*, Qiu)

The idea is for each group to present and discuss the current state of knowledge in these areas. Then subcommittees can be reformulated when we meet in person in August to address pressing research needs.

#### 4) Session at the Ocean Sciences meeting

Session proposals for the next Ocean Sciences meeting to be held in January of 2008 are due on April 30th. The WG decided to submit a "broad" special session on Western Boundary Currents: their dynamics and interaction with the atmosphere. Terry agreed to draft the session description

#### 5) Next teleconference Monday May 7th

#### 6) Action Items

- Please send Cathy Stephens (cstephens@usclivar.org) a brief description and figure(s) on your recent WBC research - if you haven't yet done so

- Send your schedule in August (16&17th in Seattle, 20-24 in Portland, 27-28 in Seattle) when you'd be able to make the meeting to Mike

- Mike will let WG members know when the schedule for the Air-Sea Interaction Conference has been set

- Meghan and Bo will prepare a summary of the KESS program and Kathie, Terry and Roger will prepare a summary of the CLIMODE program for the next teleconference

- Terry will draft a session description for the Ocean Sciences meeting and Kathie will be responsible for organizing the session if accepted.

