

## Theme 2 Workshop - "Antarctic Climate Model Verification"

Montgomery Room, Hilton San Francisco Financial District (not Hilton Union Square)

### Day 1: 11 December 2014

08.00 Room becomes available

08.30 Arrive and settle in

08.45 Nancy Bertler - SCAR AntClim21

08.50 Tom Bracegirdle – Workshop scientific background and practical info

09.10 Alia Khan - APECS

09.15 Walt Meier - Fifty years of satellite observations of Antarctic sea ice, 1964-2014

09.30 Samantha Stevenson - Southern Hemisphere Tropical/Midlatitude Relations from Coral Proxy Records

09.45 Chris Fogwill - Ice sheet-Ocean-Climate feedbacks during major climate transitions: or why it's hard to figure out quite what happened when!

10.00 Qinghua Ding – Tropical forcing on the Southern Hemisphere circulation variability

10.15 Alexey Karpechko – Antarctic ozone changes in the 21 century: implications for climate change

### 10.30 – Tea/coffee break

11.00 Lorenzo Polvani - Simple metrics for the midlatitude jet: climatology, variability, trends

11.15 Melchior van Wessem - Regional and global climate modelling of Antarctica

11.30 Ilana Wainer - The Atlantic Southern Ocean section in the cmip5 models - water mass characteristics and OHC changes in the 20th century

11.45 Andrew Carleton - Antarctic cold-air mesocyclones: Reconciling satellite-image derived inventories with reanalyses and meso-scale model output

12.00 Kazuya Kusahara - Modeling ice shelf-sea ice-ocean interaction in the eastern Wilkes Land region

12.15 Hartmut Hellmer - How robust is the ocean heat supply to a deep ice shelf base?

### 12.30-13.30 Lunch

13.30 Rob DeConto - climate model - ice sheet coupling for palaeo and future simulations

13.45 Eric Larour - Surface mass balance uncertainty propagation in projections of Antarctica and Greenland's evolution

14.00 Whole group discussion about possible approaches to model evaluation

14.45 Breakout into groups of specific disciplines

### 15.30-16.00 Tea/coffee break

16.00 Breakout groups report to whole group

17.30 Close

1900 Dinner (venue TBC)

## **Theme 2 Workshop - "Antarctic Climate Model Verification"**

### **Day 2: 12 December 2014**

08.45 Arrive and settle in

09.00 Review of day 1 (Tom B)

09.15 Anything missing so far? An opportunity to raise points or areas that may have been missed in the presentations or discussions in day 1

09.45 Observational opportunities and limitations considering in-situ, remote sensing and proxy approaches

10.00 Structure and scope of workshop publication

### **10.30-11.00 Tea/coffee break**

11.00 Return to breakout groups to write first draft of descriptions and rationale for metrics

### **12.30-13.30 Lunch**

13.30 Continue writing first draft

14.30 Return from breakout groups to discuss how will the workshop findings may feed into improving projections of Antarctic climate to 2100?

### **15.30-16.00 Tea/coffee break**

16.00 Final discussion of any other points

16.30 Admin (travel claim forms etc).

17.00 Close