

CLIVAR/CLIC/SCAR Southern Ocean Region Implementation Panel 7th Meeting
19-21 October 2011

1. VENUE

EOL Atrium, NCAR Foothills Laboratory, 3450 Mitchell Lane, Boulder, CO 80301

http://www.clivar.org/organization/southern/SOP7_meet.php

2. CONFIRMED ATTENDEES (as of 14/10/11)

Panel Members

Matthew England
Yasushi Fukamachi
Nicole Lovenduski
Alberto Naveira Garabato
Stephen Rintoul
Kevin Speer
Sabrina Speich
David Thompson

Other Invitees

Jonathan Bent
Cecilia Bitz
Laura Ciasto
Francis Codron
Clara Deser
John Fyfe
Peter Gent
Ed Gerber
Matthew Long
Matthew Mazloff
Jorge Sarmiento
David Schneider
Graham Simpkins
Sharon Stammerjohn
Colm Sweeney
Kevin Trenberth
Shanlin Wang
Jonathan Woodworth

International CLIVAR Project Office

Catherine Beswick

US CLIVAR Project Office

Mike Patterson

3. AGENDA

Wednesday 19 Oct

0900 – 0930 Welcome and logistics, SOP6 review and action items, CLIVAR SSG feedback (Nicole Lovenduski, Matthew England & Kevin Speer)

Theme 1: Southern Ocean Carbon

0930 – 1030 Southern Ocean Carbon – key open questions (Nicole Lovenduski)
40 minute presentation, 20 minute discussion

1030 – 1100 Break

Subtheme 1: Observations of Southern Ocean Carbon

- 1100 – 1200 Network for observing Southern Ocean carbon (Jorge Sarmiento)
40 minute presentation, 20 minute discussion
- 1200 – 1330 Lunch
- 1330 – 1400 The Drake Passage carbon measurement program (Colm Sweeney)
- 1400 – 1430 Sea ice and ecology in the western Antarctic Peninsula region (Sharon Stammerjohn)
- 1430 – 1500 HIPPO Project Southern Ocean flights (Jonathan Bent)
- 1500 – 1530 Break

Subtheme 2: Modeling Southern Ocean Carbon

- 1530 – 1630 Southern Ocean carbon in the CESM (Matthew Long)
40 minute presentation, 20 minute discussion
- 1630 – 1700 Variability of primary production and air-sea CO₂ flux in the Southern Ocean (Shanlin Wang)
- 1800 Reception (Backcountry Pizza and Tap House)

Thursday 20 Oct

Theme 2: The Role of the Atmosphere in Southern Hemisphere Climate Change

- 0900 – 1000 Atmospheric trends in the Southern Ocean region / possible causes (Dave Thompson)
40 minute presentation, 20 minute discussion
- 1000 – 1015 Sensitivity of Southern Hemisphere atmospheric circulation to strength and location of Equatorial Pacific SST anomalies (Laura Ciasto)
- 1015 – 1030 Short talk (topic TBD)
- 1030 – 1100 Break
- 1100 – 1200 Dynamics of large-scale atmospheric variability over the Southern Ocean (Ed Gerber)
40 minute presentation, 20 minute discussion
- 1200 – 1330 Lunch
- 1330 – 1430 Dynamics of large-scale atmospheric variability over the Southern Ocean (Francis Cordon)
40 minute presentation, 20 minute discussion
- 1430 – 1530 Role of the atmosphere in Antarctic trends (David Schneider)
40 minute presentation, 20 minute discussion
- 1530 – 1600 Break
- 1600 – 1700 Role of the atmosphere in Southern Ocean trends (John Fyfe)
40 minute presentation, 20 minute discussion
- 1900 Panel Dinner (Zolo Grill)

Friday 21 Oct

Theme 3: Ocean Physics, Ice, Ocean-ice Interactions

- 0900 – 0930 Southern Ocean Physics – key open questions (Matthew England)
- 0930 – 1030 Southern Ocean response to wind shifts (Peter Gent)
40 minute presentation, 20 minute discussion
- 1030 – 1100 Break
- 1100 – 1200 Advances in our understanding of the role of sea ice in the Southern Hemisphere (Cecilia Bitz)
40 minute presentation, 20 minute discussion
- 1200 – 1215 Antarctic sea-ice trends (Graham Simpkins)
- 1215 – 1330 Lunch
- 1330 – 1430 The upper limb of the global MOC in the Southern Ocean (Kevin Speer & Alberto Naveira Garabato)
40 minute presentation, 20 minute discussion
- 1430 – 1500 SOSE and related activities (Matthew Mazloff)
- 1500 – 1530 Break
- 1530 – 1600 SOOS update/overview (Steve Rintoul)
- 1600 – 1700 Panel business meeting: SOP future activities and goals and membership
- CLIVAR SSG-18 action items.¹
 - Assessment of progress on atmospheric processes linked to carbon cycle processes, upwelling and CO₂ fluxes, and the Polar Jet trends.
 - The Southern Ocean freshwater budget with CliC.
 - Membership.
- 1700 Close of Session

¹ CLIVAR SSG action items

No.	Action	Responsible	Deadline
13	Report on ongoing studies of regional sea level changes to ICPO	PP, IOP, AOP, SOP	OSC
15	Encourage regional panels to explore links to SPARC/DynVar	PP, IOP, AOP, SOP , VAMOS, AAMP, VACS	OSC
16	Encourage the ocean basin panels to exploit the CORE-II WGOMD experiments	Basin panels , WGOMD	OSC
17	Explore linkages with PAGES and provide thoughts for opportunities in time for OSC	Panels report to SSG co-chairs	OSC
22	Contribute to the model improvement CPT on issues of ocean eddy mixing and deep ocean overflows	SOP , WGSIP, WGCM, WGOMD	OSC