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

International CLIVAR Project Office
Catherine Beswick

US CLIVAR Project Office
Mike Patterson

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

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)

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**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**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>0900 – 0930</td>
<td>Southern Ocean Physics – key open questions (Matthew England)</td>
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<tr>
<td>0930 – 1030</td>
<td>Southern Ocean response to wind shifts (Peter Gent)</td>
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<td>40 minute presentation, 20 minute discussion</td>
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<td>1030 – 1100</td>
<td>Break</td>
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<tr>
<td>1100 – 1200</td>
<td>Advances in our understanding of the role of sea ice in the Southern Hemisphere (Cecilia Bitz)</td>
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<td>40 minute presentation, 20 minute discussion</td>
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<td>1200 – 1215</td>
<td>Antarctic sea-ice trends (Graham Simpkins)</td>
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<td>1215 – 1300</td>
<td>Lunch</td>
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<td>1330 – 1430</td>
<td>The upper limb of the global MOC in the Southern Ocean (Kevin Speer &amp; Alberto Naveira Garabato)</td>
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<td>40 minute presentation, 20 minute discussion</td>
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<tr>
<td>1430 – 1500</td>
<td>SOSE and related activities (Matthew Mazlof)</td>
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<td>1500 – 1530</td>
<td>Break</td>
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<td>1530 – 1600</td>
<td>SOOS update/overview (Steve Rintoul)</td>
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<td>1600 – 1700</td>
<td>Panel business meeting: SOP future activities and goals and membership</td>
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<td></td>
<td>• CLIVAR SSG-18 action items.</td>
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<td>• Assessment of progress on atmospheric processes linked to carbon cycle processes, upwelling and CO2 fluxes, and the Polar Jet trends.</td>
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<td>• The Southern Ocean freshwater budget with CliC.</td>
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<td>• Membership.</td>
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<td>1700</td>
<td>Close of Session</td>
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1 CLIVAR SSG action items

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