



# 18<sup>th</sup> MEETING OF THE INTERNATIONAL ICE CHARTING WORKING GROUP

September 25-29, 2017 – Hobart, Tasmania, Australia

## AGENDA

*“New technologies, big data, and the future of ice charting and forecasting”*

Institute for Marine and Antarctic Studies (IMAS), University of Tasmania (UTAS)  
Waterfront Building, 20 Castray Esplanade, Battery Point, Hobart

<b>MONDAY, SEPTEMBER 25</b>		
<i>All Plenary Sessions Today are in Aurora Lecture Theatre</i>		
<b>08:30 – 09:00</b>	<b>Registration</b>	
<b>09:00 – 09:45</b>	<b>Official Meeting Opening</b>	
09:00 – 09:10	<ul style="list-style-type: none"> <li>Co-Chairs' Welcome &amp; Opening Remarks</li> </ul>	Marianne Thyrring (DMI) Diane Campbell (ECCC)
09:10 – 09:30	<ul style="list-style-type: none"> <li>Welcome from the Antarctic Climate and Environment Cooperative Research Centre (ACE CRC)</li> </ul>	Anthony Worby (CSIRO) / Prof. Richard Coleman, Director, Institute of Marine and Antarctic Studies (IMAS)
09:30 – 09:45	<ul style="list-style-type: none"> <li>Participant Introductions</li> </ul>	All - Roundtable
09:45 – 09:45	<ul style="list-style-type: none"> <li>Adoption of Agenda</li> </ul>	Co-Chairs
<b>09:45 – 10:30</b>	<b>Committee Reports</b>	
09:45 – 10:00	<ul style="list-style-type: none"> <li>Applied Science and Research Standing Committee</li> </ul>	<u>Wolfgang Dierking (AWI)</u> Phillip Reid (BOM) Dean Flett (CIS)
10:00 – 10:15	<ul style="list-style-type: none"> <li>Data, Information and Customer Support Standing Committee</li> </ul>	Antti Kangas (FMI) <u>Chris Readinger (NIC)</u> Alvaro Scardilli (SHNA)
10:15 – 10:30	<ul style="list-style-type: none"> <li>Iceberg Sub-Committee</li> </ul>	Mike Hicks (IIP) Keld Qvistgaard (DMI)
<b>10:30 – 10:45</b>	<b>Health Break</b>	
10:45 – 10:50	<ul style="list-style-type: none"> <li>Report of the Secretariat</li> </ul>	John Falkingham (Secretariat)
<b>10:50 – 11:00</b>	<b>Reports from Other Ice Working Groups</b>	
	Written reports/presentations to be circulated before the meeting. Presenters will be asked to highlight top issues verbally to save time.	
	<ul style="list-style-type: none"> <li>European Ice Services</li> </ul>	Antti Kangas (FMI)
	<ul style="list-style-type: none"> <li>North American Ice Service</li> </ul>	David Jackson (CIS)
	<ul style="list-style-type: none"> <li>IAPB / IPAB</li> </ul>	Emily Motz / Kevin Berberich (NIC)
	<ul style="list-style-type: none"> <li>Expert Team on Sea Ice</li> </ul>	Jürgen Holfort (BSH)
	<ul style="list-style-type: none"> <li>Global Cryosphere Watch (GCW) CryoNet</li> </ul>	Penny Wagner (NIS)
<b>11:00 – 11:45</b>	<b>Review of Plenary Action Items</b>	<b>Co-Chairs</b>
<b>11:45 – 12:00</b>	<b>Introduction of Proposed Press Release</b>	John Falkingham (IICWG) / Shanna Pitter (NOAA)



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<b>12:00 – 13:00</b>	<b>Lunch</b>
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<b>MONDAY, SEPTEMBER 25 <i>continued</i></b>		
<i>All Plenary Sessions Today are in Aurora Lecture Theatre</i>		
<b>13:00 – 14:30</b>	<b>1st Committee Working Sessions</b>	
	<ul style="list-style-type: none"> <li>Applied Science and Research (ASRSC) - <i>Aurora Lecture Theatre</i></li> </ul>	ASRSC Co-Chairs
	<ul style="list-style-type: none"> <li>Data, Information and Customer Support (DICSSC) - <i>Flex Space</i></li> </ul>	DICSSC Co-Chairs
<b>14:30 – 14:45</b>	<b>Poster Introductions</b>	<ul style="list-style-type: none"> <li>Fengming Hui (BNU)</li> <li>Pip Bricher (SOOS)</li> <li>Petra Heil (UTAS)</li> </ul>
<b>14:45 – 15:30</b>	<b>Health Break &amp; Poster Session</b>	
14:45 – 15:30 In parallel with poster session	<ul style="list-style-type: none"> <li>Iceberg Subcommittee - <i>Boardroom</i></li> </ul>	Iceberg Sub-Committee Co-Chairs
<b>15:30 – 17:00</b>	<b>1<sup>st</sup> Plenary Session: Observing Ice in the Southern Ocean</b>	
15:30 – 16:00	<ul style="list-style-type: none"> <li>Polar View in the Antarctic / ESA Sentinel Data in the Southern Ocean</li> </ul>	Andreas Cziferszky (BAS/Polar View)
16:00 – 16:20	<ul style="list-style-type: none"> <li>Using MODIS Data to Map Fast Ice Around Antarctica</li> </ul>	Alex Fraser (UTAS)
16:20 – 16:40	<ul style="list-style-type: none"> <li>Ship Support from GARS O'Higgins Satellite Station</li> </ul>	Erhard Diedrich (DLR)
16:40 – 17:00	<ul style="list-style-type: none"> <li>NASA-ISRO SAR (NISAR) Satellite Update</li> </ul>	Sean Helfrich (NESDIS)
<b>17:00</b>	<b>End of Day</b>	
<b>18:00 – 19:00</b>	<b>Icebreaker Reception</b> Hosted by Her Excellency Professor The Honourable Kate Warner AM, Governor of Tasmania	<b>Government House Tasmania</b> 7 Lower Domain Road, Hobart (Bus from IMAS provided)



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<b>TUESDAY SEPTEMBER 26</b>		
<i>All Plenary Sessions Today are in Flex Space</i>		
<b>08:00 – 08:30</b>	<b>Registration</b>	
<b>08:30 – 12:00</b>	<b>Science Workshop</b>	
08:30 – 08:35	<ul style="list-style-type: none"> <li>Welcome from the Co-Chairs of the Applied Science and Research Standing Committee (ASRSC)</li> </ul>	Wolfgang Dierking (AWI) Phillip Reid (BOM)
<b>08:35 – 10:00</b>	<b>Session 1: Perspectives of Future SAR Missions</b>	
08:35 – 08:55	<ul style="list-style-type: none"> <li>Comparison of Compact Polarimetric (RISAT-1) and Fully polarimetric (RADARSAT-2) SAR Acquisitions for Sea Ice Characterization</li> </ul>	Suman Singha (DLR)
08:55 – 09:15	<ul style="list-style-type: none"> <li>Assessment of Simulated RADARSAT Constellation Mission (RCM) Compact Polarimetry (CP) Data for Operational Sea Ice Charting</li> </ul>	Adrienne Tivy (CIS)
09:15 – 09:35	<ul style="list-style-type: none"> <li>Using Interferometric SAR (INSAR) over Sea Ice</li> </ul>	Wolfgang Dierking (AWI)
<b>09:35 – 09:50</b>	<b>Poster Introductions</b>	<ul style="list-style-type: none"> <li>Jan Lieser (ACECRC)</li> <li>Leif Eriksson (Chalmers)</li> </ul>
<b>09:50 – 10:30</b>	<b>Health Break &amp; Poster Session</b>	
<b>10:30 – 12:00</b>	<b>Session 2: Monitoring and Modeling Antarctic Sea Ice</b>	
10:30 – 10:50	<ul style="list-style-type: none"> <li>Overview of Antarctic Sea Ice Processes and Change</li> </ul>	Rob Massom (AAD)
10:50 – 11:10	<ul style="list-style-type: none"> <li>Long Term Trends in Antarctic Sea Ice Extent and Ocean Surface Temperature</li> </ul>	Phil Reid (BOM)
11:10 – 11:30	<ul style="list-style-type: none"> <li>Modelling Sea Ice Extent Trends Around Antarctica</li> </ul>	Kazuya Kusahara (ACE CRC)
11:30 – 11:50	<ul style="list-style-type: none"> <li>Times of Change: Update on Antarctic Fast Ice and Pack Ice</li> </ul>	Petra Heil (UTAS)
11:50 – 12:00	<ul style="list-style-type: none"> <li>Workshop Summary and Wrap-up</li> </ul>	ASRSC Co-Chairs
<b>End of Science Workshop</b>		
<b>12:00 – 12:15</b>	<b>Plenary Presentation</b>	
	<ul style="list-style-type: none"> <li><b>Arctic Polar Regional Climate Centre Network</b></li> </ul>	<b>Helge Tangen (NMI)</b>
<b>12:15 – 13:15</b>	<b>Lunch</b>	



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TUESDAY SEPTEMBER 26 - Continued		
<i>All Plenary Sessions Today are in Flex Space</i>		
<b>13:15 – 14:15</b>	<b>2<sup>nd</sup> Plenary Session: Antarctic Shipping Challenges</b>	<b>Neal Young (ACE CRC)</b>
	<ul style="list-style-type: none"> <li>Case studies of Antarctic marine incidents</li> </ul>	
<b>14:15 – 17:30</b>	<b>Table Top Exercise: Emergency Incident Response – Antarctic SAR</b>	<b>Robb Clifton / Martin Boyle (AAD)</b>
	The objective of this exercise is to prepare the ice services for a large-scale response effort in ice-infested waters. The scenario will involve search and rescue response to a vessel within the Australian jurisdiction of the Southern Ocean.	
30 minutes to be taken at a convenient time	<b>Health Break &amp; Poster Session</b>	
<b>17:30</b>	<b>END OF DAY</b>	
<b>18:00 – 19:00</b>	<b>Meeting of Ice Service Heads with Polar View – re: Polar Code Decision Support System</b>	<b>Flex Space</b>



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<b>WEDNESDAY SEPTEMBER 27</b>		
<i>All Plenary Sessions Today are in Flex Space</i>		
<b>08:00 – 08:30</b>	<b>Welcome Coffee &amp; Poster Session</b>	
<b>Operations Workshop</b>		
08:30 – 08:35	<ul style="list-style-type: none"> <li>Welcome from the Co-Chairs of the Data, Information and Customer Support Standing Committee (DICSSC)</li> </ul>	Antti Kangas (FMI) Chris Readinger (NIC)
08:35 – 08:50	<ul style="list-style-type: none"> <li>Ice Analyst / Forecaster Competencies</li> </ul>	Penny Wagner (NIS)
<b>08:50 – 10:00</b>	<b>Session 1: Short Term Ice Forecasting</b>	
08:50 – 09:05	<ul style="list-style-type: none"> <li>NIC Current Practices for Short-term Ice Forecasting</li> </ul>	Caryn Panowicz (NIC)
09:05 – 09:20	<ul style="list-style-type: none"> <li>CIS Current Practices and Future Directions for Short-term Ice Forecasting</li> </ul>	Scott Graham (CIS)
09:20 – 09:35	<ul style="list-style-type: none"> <li>NIS Perspective on Using Models and Data</li> </ul>	Nick Hughes (NIS)
09:35 – 10:00	<ul style="list-style-type: none"> <li>Open Discussion on Short Term Ice Forecasting</li> </ul>	
<b>10:00 – 10:15</b>	<b>Poster Introductions</b>	<ul style="list-style-type: none"> <li>Erhard Diedrich (DLR)</li> </ul>
<b>10:15 – 11:00</b>	<b>Health Break &amp; Poster Session</b>	
<b>11:00 – 12:15</b>	<b>Session 1: Handling Huge Data Volumes in Operational Ice Services</b>	
11:00 – 11:15	<ul style="list-style-type: none"> <li>Polar TEP</li> </ul>	Andreas Cziferszky (BAS/Polar View)
11:15 – 11:30	<ul style="list-style-type: none"> <li>European Ice Services Handling of Copernicus Data for Ice Charting</li> </ul>	Keld Qvistgaard (DMI)
11:30 – 11:45	<ul style="list-style-type: none"> <li>Handling of Satellite Data for Ice Charting at the National Ice Center</li> </ul>	George Wachira (NIC)
11:45 – 12:15	<ul style="list-style-type: none"> <li>Open Discussion on “Big Data” in the Ice Services</li> </ul>	
<b>End of Operations Workshop</b>		
<b>12:15 – 13:15</b>	<b>Lunch</b>	



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<b>WEDNESDAY SEPTEMBER 27 continued</b>		
<i>All Plenary Sessions Today are in Flex Space</i>		
<b>13:15 – 14:45</b>	<b>Technical Tours</b>	
	<ul style="list-style-type: none"> <li>RV AURORA AUSTRALIS</li> </ul>	John East (P&O Maritime)
	<ul style="list-style-type: none"> <li>Institute of Marine and Antarctic Studies</li> </ul>	Wenneke ten Hout (ACE CRC)
<b>14:45 – 15:15</b>	<b>Plenary Presentation</b>	
	<ul style="list-style-type: none"> <li>AURORA AUSTRALIS Replacement</li> </ul>	Rob Bryson (AAD)
<b>15:15 – 16:00</b>	<b>Health Break &amp; Poster Session</b>	
<b>16:00 – 17:00</b>	<b>3<sup>rd</sup> Plenary Session: Polar Tourism</b>	
		<b>Lisa Kelley (IAATO) / Penny Wagner (NIS)</b>
16:00 – 16:20	<ul style="list-style-type: none"> <li>Polar Tourism: The Upsurge of an Evolving Industry</li> </ul>	Lisa Kelly (IAATO)
16:20 – 16:40	<ul style="list-style-type: none"> <li>Trends in Polar Tourism and Impacts for the Ice Services Based on Interactions in the Arctic and Antarctic</li> </ul>	Keld Qvistgaard (DMI) and Penny Wagner (NIS)
16:40 – 17:00	<ul style="list-style-type: none"> <li>Open panel discussion</li> </ul>	Lisa Kelley, Keld Qvistgaard, and Penny Wagner
<b>17:00</b>	<b>END OF DAY</b>	
<b>19:00</b>	<b>Boat Cruise and Dinner at Peppermint Bay Hosted by ACE CRC and the Antarctic Gateway Partnership</b>	



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<b>THURSDAY SEPTEMBER 28</b>		
<i>Morning Plenary Sessions Today are in Aurora Lecture Theatre</i>		
<b>08:00 – 08:30</b>	<b>Welcome Coffee &amp; Poster Session</b>	
<b>08:30 – 09:00</b>	<b>Future Vision of the IICWG</b>	<b>Co-Chairs</b>
	<ul style="list-style-type: none"> <li>Report from the PAME Arctic Shipping Best Practices Forum</li> </ul>	Jürgen Holfort (BSH)
	<ul style="list-style-type: none"> <li>Report from the Vision Task Group and Discussion</li> </ul>	David Jackson (CIS)
<b>09:00 – 10:00</b>	<b>4<sup>th</sup> Plenary Session: Polar Code, POLARIS and Ice Navigator Training</b>	
09:00 – 09:20	<ul style="list-style-type: none"> <li>The Nautical Institute Ice Navigator Training and Certification Scheme - Setting the Global Standard</li> </ul>	Capt. David Snider (NI)
09:20 – 09:40	<ul style="list-style-type: none"> <li>POLARIS for Antarctic Waters</li> </ul>	Dave Jackson / Neal Young
09:40 – 10:00	<ul style="list-style-type: none"> <li>VHF Digital Exchange System (VDES)</li> </ul>	Jillian Carson-Jackson (NI)
<b>10:00 – 10:30</b>	<b>Health Break and Poster Session</b>	
10:00 – 10:30 In parallel with poster session	<ul style="list-style-type: none"> <li>Iceberg Subcommittee - <i>Aurora Lecture Theatre</i></li> </ul>	Iceberg Sub-Committee Co-Chairs
<b>10:30 – 12:00</b>	<b>2<sup>nd</sup> Committee Working Sessions</b>	
	<ul style="list-style-type: none"> <li>Applied Science and Research - <i>Flex Space</i></li> </ul>	ASRSC Co-Chairs
	<ul style="list-style-type: none"> <li>Data, Information and Customer Support - <i>Boardroom</i></li> </ul>	DICSSC Co-Chairs
<b>12:00 – 13:00</b>	<b>Lunch Afternoon Plenary Sessions Today are in Flex Space</b>	
<b>13:00 – 14:00</b>	<b>Joint Committee Working Session - Flex Space</b>	
<b>14:00 – 15:30</b>	<b>Discussion Session: Ice Information Service Delivery for Antarctic Waters</b>	
14:00 – 14:15	<ul style="list-style-type: none"> <li>Brief to the plenary</li> </ul>	Scott Carpentier
14:15 – 14:45	<ul style="list-style-type: none"> <li>Participants sign up to one of several breakout groups to explore different service delivery mechanisms. Each group will develop a short presentation to the plenary outlining their discussions.</li> </ul>	Breakout rooms available: <ul style="list-style-type: none"> <li>Flex space</li> <li>Boardroom</li> <li>Edgeworth David room</li> <li>Hubert Wilkins room</li> </ul>
14:45 – 15:30	<ul style="list-style-type: none"> <li>Presentation by each group to the plenary</li> </ul>	
<b>15:30 – 15:45</b>	<b>Health Break</b>	



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15:45 – 17:30	<i>Tour of Australian Antarctic Division</i>	<i>Bus to and from AAD (20 min each way)</i>
17:30	<b>End of Day</b>	



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<b>FRIDAY SEPTEMBER 29</b>		
<i>All Plenary Sessions Today are in Flex Space</i>		
<b>08:00 – 08:30</b>	<b>Welcome Coffee &amp; Poster Session</b>	
<b>08:30 – 10:00</b>	<b>5<sup>th</sup> Plenary Session: New Ice Observation Technologies</b>	
08:30 – 08:50	<ul style="list-style-type: none"> <li>Remotely Piloted Aircraft (RPA) for Ship-based Ice Observation</li> </ul>	Doug Thost (Helicopter Resources)
08:50 – 09:10	<ul style="list-style-type: none"> <li>Sea Ice Thickness Mapping from Above and Below</li> </ul>	Alex Fraser (UTAS)
09:10 – 09:30	<ul style="list-style-type: none"> <li>Collaborative UAS projects between ECCC and NOAA</li> </ul>	David Jackson (CIS)
09:30 – 09:50	<ul style="list-style-type: none"> <li>Where are Autonomous Underwater Systems Going?</li> </ul>	Damien Guihen (UTAS)
09:50 – 10:10	<ul style="list-style-type: none"> <li></li> </ul>	
<b>10:10 – 10:40</b>	<b>Health Break and Poster Session</b>	
<b>10:40 – 12:00</b>	<b>Open Meeting Summary and Close</b>	<b>Co-Chairs</b>
10:40 – 10:50	<ul style="list-style-type: none"> <li>Approval of Press Release</li> </ul>	John Falkingham (IICWG) / Shanna Pitter (NOAA)
10:50 – 11:20	<ul style="list-style-type: none"> <li>Summary of Proposed Actions</li> </ul>	John Falkingham (IICWG) / Shanna Pitter (NOAA)
11:20 – 11:40	<ul style="list-style-type: none"> <li>Comments on the meeting</li> <li>Suggestions for future meetings</li> </ul>	All, Roundtable
11:40 – 11:45	<ul style="list-style-type: none"> <li>IICWG XIX Announcement</li> </ul>	TBA
11:45 – 12:00	<ul style="list-style-type: none"> <li>Final Words &amp; Acknowledgments</li> </ul>	Co-Chairs
<b>END OF OPEN MEETING</b>		
<b>12:00 – 13:00</b>	<b>Lunch</b>	
<b>12:30 – 14:00</b> Committees can decide individually on a start time	<b>3<sup>rd</sup> Committee Working Sessions</b>	
	<ul style="list-style-type: none"> <li>Applied Science and Research – <i>Theodore Flynn meeting room</i></li> </ul>	ASRSC Co-Chairs
	<ul style="list-style-type: none"> <li>Data, Information and Customer Support - <i>Flex Space</i></li> </ul>	DICSSC Co-Chairs
	<ul style="list-style-type: none"> <li>Iceberg Sub-Committee – <i>Van Diemen meeting room</i></li> </ul>	Iceberg Sub-Committee Co-Chairs



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<b>FRIDAY SEPTEMBER 29 continued</b>		
<i>All Plenary Sessions Today are in Flex Space</i>		
<b>IICWG BUSINESS MEETING</b>		
<b>14:00 – 14:15</b>	<b>Opening Remarks</b>	<b>Co-Chairs</b>
	<ul style="list-style-type: none"> <li>Review / Adoption of Agenda</li> </ul>	
<b>14:15 – 15:00</b>	<b>Committee Briefs</b>	
14:15 – 14:30	<ul style="list-style-type: none"> <li>Applied Science and Research Standing Committee</li> </ul>	ASRSC Co-Chairs
14:30 – 14:45	<ul style="list-style-type: none"> <li>Data, Information and Customer Support Standing Committee</li> </ul>	DICSSC Co-Chairs
14:45 – 15:00	<ul style="list-style-type: none"> <li>Iceberg Sub-Committee</li> </ul>	Iceberg Sub-Committee Co-Chairs
<b>15:00 – 15:15</b>	<b>Health Break</b>	
<b>15:15 – 16:30</b>	<b>Discussion on Business Arising</b>	
	<ul style="list-style-type: none"> <li>Future Vision of the IICWG</li> </ul>	
	<ul style="list-style-type: none"> <li>Ice Navigator Training</li> </ul>	
	<ul style="list-style-type: none"> <li>Arctic Council</li> </ul>	
	<ul style="list-style-type: none"> <li>Outreach to Emergency Response Organizations</li> </ul>	
<b>16:30 – 17:00</b>	<b>Review of Action Items</b>	John Falkingham (IICWG) / Shanna Pitter (NOAA)
<b>17:00 – 17:15</b>	<b>Next Meeting</b>	Co-Chairs
	<ul style="list-style-type: none"> <li>Recommendations for themes or special sessions at the next meeting</li> <li>Nominations for IICWG-XIX Organizing Committee</li> </ul>	
<b>17:15 – 17:30</b>	<b>Close of Business Meeting</b>	Co-Chairs
	<ul style="list-style-type: none"> <li>Final words and charge from Co-Chairs</li> </ul>	
<b>END OF IICWG-XVIII</b>		



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### Posters

1. Fengming Hui, Tiancheng Zhao, Xingqing Li, Xiao Cheng (Beijing Normal University); Mohammed Shokr (Environment and Climate Change Canada), Petra Heil (University of Tasmania); *Satellite-Based Sea Ice Navigation for Prydz Bay, East Antarctica*
2. Erhard Diedrich, Max Schwinger, H. Asamer (DLR – German Aerospace Center); *Possible Use Cases of Big Data Methodology in Ice Charting and Ice Services*
3. F. Massonnet (UCL, Belgium/BSC, Spain), P. Reid (BoM, Australia), J.L. Lieser (ACE CRC, Australia), C. Bitz (UW, USA), J. Fyfe (ECCC, Canada), W. Hobbs (UTas, Australia), K. Kusahara (ACE CRC, Australia); *SIPN-South — Coordinating Seasonal Predictions of Sea Ice in the Southern Ocean for 2017-2019*
4. Pip Bricher (University of Tasmania), Steve Diggs (Scripps Institute of Oceanography), Jo Beja (British Oceanography Data Centre); Florence Fetterer (National Snow and Ice Data Center); *Data Sharing Tools for the Southern Ocean Observing System*
5. Leif Eriksson, Lars Jonasson, Wengang Mao ((Chalmers University of Technology); Joakim Möller (Molflow, Sweden), Sverre Dokken (O.M. Ofshore Monitoring, Cyprus), Kris Lemmens (Offshore Navigation Ltd., Anguilla); *Earth Observations for Maritime Navigation*
6. Petra Heil, University of Tasmania (UTAS); *AADC ASPeCt Data Acquisition Software Demo*



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*“New technologies, big data, and the future of ice charting and forecasting”*

### ACRONYMS

AAD	Australian Antarctic Division	IIP	International Ice Patrol
AADC	Australian Antarctic Data Centre	IPAB	International Programme for Antarctic Buoys
AARI	Arctic and Antarctic Research Institute	IMetO	Icelandic Meteorological Office
ACE CRC	Antarctic Climate & Ecosystems Cooperative Research Centre	IMO	International Maritime Organization
ASF	Alaska Satellite Facility	ITOPF	International Tanker Owners Pollution Federation Ltd.
ASRSC	Applied Science and Research Standing Committee	KSAT	Kongsberg Satellite Services
AWI	Alfred Wegener Institute for Polar and Marine Research	met.no	Norwegian Meteorological Institute
BAS	British Antarctic Survey	MSC	Meteorological Service of Canada
BNU	Beijing Normal University	NAIS	North American Ice Service
BOM	Australian Bureau of Meteorology	NERSC	Nansen Environmental and Remote Sensing Center
BSH	Bundesamt für Seeschifffahrt und Hydrographie	NESDIS	National Environmental Satellite, Data, and Information Service
CCG	Canadian Coast Guard	NIC	National Ice Center
CDPF	Canadian Data Processing Facility	NI	Nautical Institute
CIS	Canadian Ice Service	NIS	Norwegian Ice Service
CLS	Collecte localisation satellites	NMI	Norwegian Meteorological Institute
CSA	Canadian Space Agency	NOAA	National Oceanic and Atmospheric Administration
CSIRO	Commonwealth Scientific and Industrial Research Organisation	NRL	Naval Research Laboratory
COMNAP	Council of Managers of National Antarctic Programs	NSIDC	National Snow and Ice Data Center
CPOM	Centre for Polar Observation and Modelling	NSOC	NOAA Satellite Operations Center
DICSSC	Data, Information and Customer Support Standing Committee	NWS	National Weather Service
DLR	Deutsches Zentrum für Luft- und Raumfahrt (German Aerospace Center)	OSRL	Oil Spill Response Ltd.
DMI	Danish Meteorological Institute	SMHI	Swedish Meteorological and Hydrological Institute
ECCC	Environment and Climate Change Canada	SHNA	Servicio de Hidrografía Naval de Argentina
EC-PHORS	WMO Executive Council Panel of Experts on Polar and High Altitude Observations, Research and Services	SOOS	Southern Ocean Observing System
ESA	European Space Agency	SPRI	Scott Polar Research Institute
ETSI	Expert Team on Sea Ice	UCL	University College London
FMI	Finnish Meteorological Institute	UAF	University of Alaska Fairbanks
IAATO	International Association of Antarctic Tour Operators	UTAS	University of Tasmania
IABP	International Arctic Buoy Program	WMO	World Meteorological Organization