

US-CA Hydrographic Impact and Engagements

United States – Canada Hydrographic
Commission (USCHC)
Québec City Convention Centre
February 2020

*PowerPoint prepared by OAR/NOAA Research and NOAA Policy and Constituent Affairs
Division for the NOS International Coordination Committee, edits for USCHC by NOAA OCS



High Level and Long-term Engagements

OOC vs Ocean Decade vs UNOC

Our Ocean Conference: annual conference started by former US Sec of State, John Kerry, with a rotating host. 2020 meeting in Palau in August.

UN Decade of Ocean Science for Sustainable Development: 2021-2030

UN Ocean Conference: June 2-6 in Lisbon. Occurs every three years, last meeting in 2017, hosted by Sweden and Fiji at UNHQ, NYC.



Memorandum on Ocean Mapping
of the United States Exclusive
Economic Zone and the Shoreline
and Nearshore of Alaska

International Hydrographic Organization



- Potential New Strategic Plan with 3 **Goals**

- Evolving the hydrographic support for safety and efficiency of maritime navigation, undergoing profound transformation
- Increasing the use of hydrographic data for the benefit of society
- Participating actively in international initiatives related to the knowledge and the sustainable use of the Ocean

Major decade long drivers-

- S-100 implementation
- WENS
- Capacity Building
- MSDI
- CSB
- SB 2030
- Ongoing Hydrographic Office evolution

Decade Goals



A Clean Ocean

Sources of pollution are identified, quantified and reduced, and pollutants removed from the Ocean.



A Safe Ocean

Human communities are protected from ocean hazards and the safety of operations at sea and on the coast is guaranteed.



A Healthy and Resilient Ocean

Marine ecosystems are mapped and protected, multiple impacts, including climate change, are measured and reduced, and the provision of Ocean ecosystem services is maintained.



A Sustainable Productive Ocean

The provision of food supply and alternative livelihoods are secured.



A Predicted Ocean

Society has the capacity to understand current and future Ocean conditions, forecast their change and impact on human wellbeing and livelihoods.



Transparent and Accessible Ocean

All nations, stakeholders and citizens have access to ocean data and information, technologies, and are capable of making informed decisions.

UN Ocean Decade Priority Areas



Map the entire ocean floor and processes, new level of mapping



Bolster ocean observation systems in all basins



Conduct an inventory of ecosystems and their functioning



Develop a data and information portal



Establish an integrated multi-hazard warning system



Include ocean component in earth-system observation, research and prediction



Strengthen capacities and accelerate technology transfer and ocean literacy





U.S. Decadal Vision

| | |
|--|--|
|  | Modernize R&D infrastructure Big data, models, R2O |
|  | Promote Economic Prosperity Seafood competitiveness, energy, minerals, econ/eco balance, workforce |
|  | Resilient Coastal Communities Disaster risk reduction |
|  | Safeguard Human Health Plastics contaminants & pathogens, HAB, Natural Products |
|  | Ensure Maritime Security Arctic transport, situational awareness |

UN Decade Goals



Transparent Ocean

Data sharing & application products, services, policy



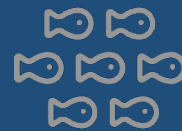
Productive Ocean

Sustainable BE, safe thresholds for econ growth, mitigate impacts of envir. change



Safe Ocean

Disaster risk reduction



Healthy/Resilient Ocean

Ecosystems mapped & protected, impacts mapped, measured & reduced



Clean Ocean

Pollution identified, quantified, reduced & removed



Predicted Ocean

All ocean basins observed and mapped; obs for mgmt. & BE

OCEANS PROTECTION PLAN – PROTECTING OUR COASTS

The national Oceans Protection Plan is the largest investment ever made to protect Canada's coasts and waterways for future generations, while growing our economy.



\$338
MILLION

Stronger ecosystem conservation

- Restoring coastal aquatic habitats through the Coastal Restoration Fund
- Researching the effects of marine shipping on six ecosystems in Canada
- Addressing the threats to marine mammals from vessel noise and collisions
- Removing and preventing abandoned and derelict vessels



\$278
MILLION

Improved emergency preparedness and response

- Establishing 24/7 emergency response and incident management
- Increasing on-scene environmental response capacity
- Improving oil spill response plans



\$250
MILLION

Increased Canadian Coast Guard capacity for prevention and response

- Acquiring new environmental response equipment
- Increasing emergency tow capacity to respond to ships in distress
- Building six new lifeboat stations and an inshore rescue boat station
- Establishing a new Canadian Coast Guard Auxiliary for Indigenous Peoples in British Columbia



\$207
MILLION

Enhanced prevention with safer navigation and vessel tracking

- Investing in modern hydrography and charting of Canada's ports
- Investing in Canada's space-based Automated Information System to better track ships
- Sharing near real-time information on marine traffic with Indigenous and coastal communities



\$161
MILLION

Greater marine protection for Canada's Arctic

- Investing in safety equipment and marine infrastructure in northern communities
- Expanding the National Aerial Surveillance Program to detect oil spills in the Arctic
- Increasing the Canadian Coast Guard presence in the Arctic



\$103
MILLION

Increased marine research and science

- Improving understanding of how oil behaves in water
- Enhancing ocean models of winds, waves and currents, to help responders track spills and predict their path
- Expanding research on oil-spill response technology



\$81
MILLION

Engaged Canadians and partnerships with Indigenous Peoples

- Building meaningful partnerships with Indigenous Peoples
- Expanding marine training opportunities for Indigenous Peoples through the Marine Training Contribution Fund
- Engaging Canadians to improve their understanding of Canada's marine safety system



\$56
MILLION

Modernized marine safety regulations and operations

- Updating *The Pilotage Act*, which governs marine pilots in Canada
- Modernizing Canada's marine safety regulation and enforcement regime
- Increasing Canada's representation in international marine safety initiatives



For more information, please visit the Oceans Protection Plan interactive map.

Note: program spending rounded to nearest million

<https://www.tc.gc.ca/en/initiatives/oceans-protection-plan/oceans-protection-plan-funding-graphic.html>



**United
Nations**



**2020 UN Ocean Conference
Lisbon, 2-6 June 2020**

- US focus on **dialogue 1 and 2**
- Delivering interventions, and announcing engagements at meeting

Proposed Interactive Dialogues:

1. Addressing marine pollution (target 14.1);
2. Managing, protecting, conserving and restoring marine and coastal ecosystems (targets 14.2 and 14.5);
3. Minimizing and addressing ocean acidification (target 14.3);
4. Making fisheries sustainable and providing access for small-scale artisanal fishers to marine resources and markets (targets 14.4, 14.6 and 14.b);
5. Promoting and strengthening sustainable ocean-based economies, in particular for small island developing States and least developed countries (target 14.7 and other relevant targets);
6. Increasing scientific knowledge, and developing research capacity and transfer of marine technology (target 14.a);
7. Implementation of international law, as reflected in the United Nations Convention on the Law of the Sea (target 14.c); and
8. Leveraging interlinkages between Sustainable Development Goal 14 and other Goals towards the implementation of the 2030 Agenda

Are there US-CA hydrographic efforts to recognize?

US-CA Hydrography

- **Hydrographic partnering at key international ocean policy events?**
 - UN Ocean Conference (Lisbon)
- **USCHC outcome based goal targets for 2030 based on closer alignment to the IHO Strategic Plan (if it is adopted)?**
 - 100% S-101 ENC by 2028?
- **Leadership in the region measurably progressing SB 2030 and CSB? NONNA-100 announcement?**
- **Identify and market collaborative R&D efforts and active personnel exchanges**
- **Identify IHO WG product development**
 - the new international standard for paper charts? Delivering WENS?
- **Regional foci: Great Lakes, Atlantic, Pacific transboundary areas?**
- **S-100 rollout: Stronger external planning and messaging: IMO, Arctic Council, UN Ocean Goals**

US-CA Delivering Ocean Governance and Science

2020



2030

Do we want to approach the decade with anticipated achievements in mind?

USCHC Web Presence?

- Raise Awareness
- Better planning and organizing of efforts between RHC meetings
- Support HGPSC and other national and global efforts
 - SB 2030 (regional snapshot of Region A)
 - Planning and Information sharing
- Build synergies with other RHCs
- Populated with a calendar of key hydrographic conferences and exchanges
- Less maintenance with only two HO's



Initiatives of the Meso American-Caribbean Sea Hydrographic Commission (MACHC)

Chair: United States - Kathryn Ries
Vice Chair: Brazil - Rear-Admiral Edgar Luiz Siqueira Barbosa

The Meso American-Caribbean Sea Hydrographic Commission (MACHC) supports the activities of the International Hydrographic Organization (IHO) on a regional basis.



The greater Meso American region

This website is dedicated exclusively to the two working groups, one committee, and main initiatives of the MACHC. The working groups and committee carry out the essential day-to-day functions of the commission in an advisory, scientific, and technical capacity. They work to assist with the hydrographic services of Member States. All documentation and reference materials related to the working groups and committee are available on this site.

Members:

- [Brazil](#)
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- [Netherlands](#)
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- [Trinidad and Tobago](#)
- [United Kingdom](#)
- [United States](#)
- [Venezuela](#)

Associate Members:

- Antigua and Barbuda
- Barbados
- Belize
- Costa Rica
- El Salvador
- Grenada
- Haiti
- Honduras
- Nicaragua

Navigation: Home, MICC, MMSDIWG, Capacity Building Committee, Maritime Safety Information, Seabed 2030, Disaster Response, Links

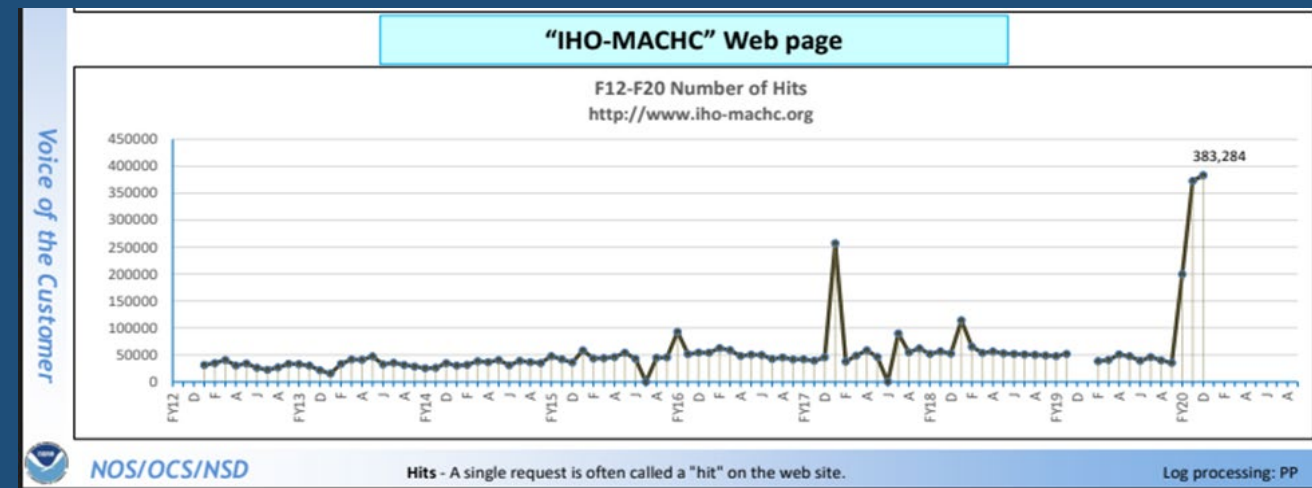
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Highlights:

- [IHO MACHC Website](#)
- [MACHC MMSDIWG Inventory Survey](#)
- [Regional MSI Status](#)
- [MACHC 20th \(2019\)- Dominican Republic](#)
- [MACHC Seabed 2030 Contributions](#)
- [MACHC MS Catalogs](#)

Products:

- [MACHC ENOnline Viewer](#)
- [MICC ENC Viewer](#)
- [Haiti's BookletCharts](#)



Hydrographic Meetings 2020*

| Date | Title | Location | Website | Point of Contact |
|------------|--|--|---|---|
| 24-27 Feb | Canadian Hydrographic Conference | Québec City Convention Center, Québec City | http://chc2020.org/ | chc2020@conferium.com |
| 17-19 Mar | Oceanology International | Excel London | https://www.oceanologyinternational.com/Conference/ | https://www.oceanologyinternational.com/forms/customer-service-form/ |
| 6-7 May | Remote Hydrography Conference | National Oceanography Centre, Southampton, UK | https://www.ths.org.uk/content.asp?page=99 | helen@ths.org.uk or conference@ths.org.uk |
| 26-28 May | CRCL State of the Coast (SOC2020) | New Orleans Ernest N. Morial Convention Center, New Orleans, LA | https://www.stateofthecoast.org/ | stateofthecoast@crcl.org |
| 2-4 June | 21st Annual JALBTCX Airborne Coastal Mapping and Charting Workshop | NOAA Western Regional Center, Seattle, WA | Website | JALBTCX@usace.army.mil |
| 9-11 June | Capitol Hill Ocean Week | Ronald Reagan Building and International Trade Center, Washington DC | https://marinesanctuary.org/capitol-hill-ocean-week/ | conference@marinesanctuary.org |
| 15-18 June | Advancing the Marine Transportation System through Automation and Autonomous Technologies: Trends, Applications and Challenges--Sixth Biennial Marine Transportation System Innovative Science and Technology Conference | The National Academy of Sciences, Washington DC | https://trb.secure-plaform.com/a/page/MTS2020 | |

| Date | Title | Location | Website | Point of Contact |
|----------------|--|---|---|---|
| 13-17 July | Esri User Conference | San Diego, California | https://www.esri.com/en-us/about/events/uc/overview | confregis@esri.com |
| 14-16 July | HydroVision 2020 | Minneapolis, Minnesota | https://www.hydroevent.com/ | https://www.hydroevent.com/contact-us/ |
| 17-18 Aug | Our Ocean Conference | Palau | https://www.ourocean2020.pw/ | info@ourocean2020.pw |
| 29-30 Sept | Teledyne Marine 2020 Canadian Users Conference | Best Western Plus Chocolate Lake Hotel, Halifax, NS | | |
| 19-22 Oct | Oceans 2020 (Hosted by the Marine Technology Society and the IEEE Oceanic Engineering Society) | Mississippi Coast Convention Center, Biloxi, MS | https://gulfcoast20.oceansconference.org/ | laurie.jugan@usm.edu |
| 2020 | GEBO Science Day and Symposium | TBD | https://www.gebco.net/about_us/meetings_and_minutes/#science | |
| January 2021 | Field Procedures Workshop | TBD, US | TBC | TBC |
| 15-17 Jun 2021 | HydroVision 2021 | Portland, USA | | |

*List in no way exhaustive, but a list in progress of upcoming hydrographic meetings