



# **SCRUM**

SubCommittee for Regional Undersea Mapping 2nd Feb, 2022

Dr. Vicki Ferrini (Chair)
Ms. Aileen Bohan (Vice-chair, *Chair-Elect*)



#### What is SCRUM?







Recognising the importance of the contributions of regional experts in improving its global bathymetric models, GEBCO has setup the Sub-Committee on Regional Undersea Mapping (SCRUM).

SCRUM's aims are to facilitate a closer collaboration with <u>regional mapping</u> efforts and coordinate, as well as encourage, the incorporation of their compilations into GEBCO.





# SCRUM Members







	and the same of	
£		*

er	5		Intergovernmental Operation Operatio
	Vicki Ferrini (Chair)	USA	Lamont-Doherty Earth Observatory of Columbia Univ.
	, ,		
	Aileen Bohan (Vice Chair, Chair-elect)	Ireland	INFOMAR, Geological Survey Ireland
	Hugo Montoro (Vice	_	Direccion de Hidrografía y Navegacion de la Marina de
	Chair-elect)	Peru	Guerra del Peru
	Serge Lévesque	Canada	Canadian Hydrographic Service
	Miao Fan	China	National Marine Data & Information Service
	Boris Dorschel	Germany	Alfred Wegener Institute
	Rochelle Wigley	USA	Center for Coastal & Ocean Mapping/ University of New Hampshire
	Pauline Weatherall	United Kingdom	British Oceanographic Data Center
	Mark Zimmermann	USA	National Oceanic and Atmospheric Administration
>	John Hall	Israel	Geological Survey of Israel (Retired)
	Shereen Sharma	Australia	Seabed 2030
	Yulia Zarayskaya	Russia	Geological Institute of the Russian Academy of Science
	Robin Beaman	Australia	James Cook University
	Jan Erik Arndt	Germany	Alfred Wegener Institute
	David Armstrong	USA	National Geospatial Agency
	Jaya Roperez	New Zealand	National Institute of Water and Atmospheric Research
	Ana Carolina Lavagnino	Brazil	Federal University of Espirito Santo



# **SCRUM Membe**







A.			
		Start Sec	
	10.00		
	460		A Strain

ers	5		Unesco Interpretational Commission
	Vicki Ferrini (Chair)	USA	Lamont-Doherty Earth Observatory of Columbia Univ.
	Aileen Bohan (Vice Chair, Chair-elect)	Ireland	INFOMAR, Geological Survey Ireland
	Hugo Montoro (Vice Chair-elect)	Peru	Direccion de Hidrografía y Navegacion de la Marina de Guerra del Peru
	Serge Lévesque	Canada	Canadian Hydrographic Service
	Miao Fan	China	National Marine Data & Information Service
	Boris Dorschel	Germany	Alfred Wegener Institute
	Rochelle Wigley	USA	Center for Coastal & Ocean Mapping/ University of New Hampshire
	Pauline Weatherall	United Kingdom	British Oceanographic Data Center
	Mark Zimmermann	USA	National Oceanic and Atmospheric Administration
3.4	John Hall	Israel	Geological Survey of Israel (Retired)
No.	Shereen Sharma	Australia	Seabed 2030
	Yulia Zarayskaya	Russia	Geological Institute of the Russian Academy of Sciences
	Robin Beaman	Australia	James Cook University
	Jan Erik Arndt	Germany	Alfred Wegener Institute
	David Armstrong	USA	National Geospatial Agency
	Jaya Roperez	New Zealand	National Institute of Water and Atmospheric Research
	Ana Carolina Lavagnino	Brazil	Federal University of Espirito Santo



#### **SCRUM Meetings 2021**



- Annual meeting (2020 meeting held in January 2021)
- Intersessional SCRUM Meeting (May 2021)
  - 12 members attended
  - Reviewed status of Workplan and Actions
- Intersessional working tag-up (Sept 2021)
  - 11 (+1 non-voting) members attended
  - Reviewed status of Workplan and Actions
- 2-part Annual meeting (November 2021):
  - November 2, 2021
    - 7 voting (+1 non-voting) members attended
    - Reviewed status of Workplan and Actions and preparation for annual report to GGC
  - November 11, 2021
    - 11 (+2 non-voting) members attended
    - Regional presentations
    - Reviewed status of Workplan and Actions and preparation for annual report to GGC
    - Election of new Chair and Vice-Chair
  - Thank you Map the Gaps for logistical and technical support!



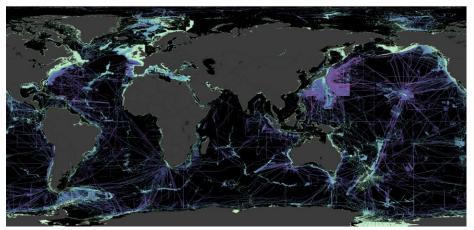
#### Highlights SCRUM 2021

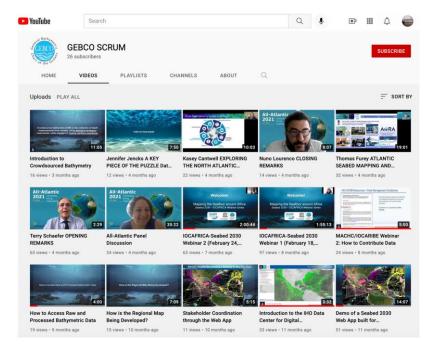






- GEBCO 2021 grid review with Web App
- New YouTube content
  - IOC-Africa Seabed 2030 Regional Meeting (Feb 2021)
  - All Atlantic Mapping Side Event (June 2021)
- Intersessional SCRUM meeting May 2021
- Virtual Engagement and Coordination
- IHO/IOC Regional Meetings







# 2021 IHO/IOC Regional Meetings Attended







Туре	Regional Body	2021 Location	<b>2021 Dates</b>	GEBCO/SB2030/CSB Presentation?
RHC	NHC (Nordic)	VIRTUAL	April 2021	Flier
RHC	NSHC (North Sea)	VIRTUAL	April 2021	Jakobsson
RHC	MBSHC (Mediterranean and Black Seas)	VIRTUAL	May 2021	????
RHC	ARHC (Arctic)	VIRTUAL	Nov 2021	Flier
RHC	BSHC (Baltic Sea)	Stockholm	Sept 2021	Jakobsson
RHC	USCHC (US and Canada)	VIRTUAL	March 2021	Andy Armstrong
RHC	EAHC		N/A	
RHC	EAtHC (Eastern Atlantic)	Lisbon + VIRTUAL	Oct 2021	Ferrini + Jencks
RHC	SEPRHC		N/A	
RHC	SWPHC (South-West Pac)	VIRTUAL	Feb 2021	Kevin Mackay & Jamie McMichael Phillips
RHC	MACHC (Meso American & Caribbean Sea)	VIRTUAL	Nov 2021	Ferrini
RHC	SAIHC (Southern African and Islands)	VIRTUAL	Feb 2021	Ferrini
RHC	NIOHC (N. Indian Ocean)		July 2021	Ferrini + Jencks (sent presentations)
RHC	RSAHC (ROPME Sea Area)		N/A	
RHC	SWAtHC (SW Atlantic)	Montevideo	Sept 2021	Ferrini via Obino
RHC	HCA (HC on Antarctica)	VIRTUAL	June 2021	Flier



### CSB/Seabed 2030 Coordinators







D :	ODOGG D		0 " / N
Regional Hydrographic Commission	SB2030 Region	Country	Coordinator Name
NHC (Nordic)	N Pac & Arctic	Norway	Evert Flier
NSHC (North Sea)	N Pac & Arctic; Atlantic/Indian	Germany	Patrick Westfeld
MBSHC (Mediterranean and Black Seas)	Atlantic/Indian	Lebanon	Afif GHAIIH
ARHC (Arctic)	N Pac & Arctic	Norway	Evert Flier
BSHC (Baltic Sea)	N Pac & Arctic	Sweden	Hans Öiås
USCHC	N Pac & Arctic; Atlantic/Indian	US	Andy Armstrong
EAHC (East Asia)	SWPac	Japan	Kentaro Kaneda
EAtHC (Eastern Atlantic)	Atlantic/Indian	Portugal	Cdr João Vicente, Engineer Leonor Veiga
SEPRHC (South-East Pac)	SWPac		
SWPHC (South-West Pac)	SWPac; Atlantic/Indian	New Zealand	Stuart Caie
MACHC (Meso American & Caribbean Sea)	Atlantic/Indian; N Pac & Arctic; SWPac	Mexico	Cecilia Cortina Guzman
SAIHC (Southern African and Islands)	Atlantic/Indian	South Africa	Cdr. Christoff Theunissen
NIOHC (N. Indian Ocean)	Atlantic/Indian	India	Cdr. Rahul Bhatt
RSAHC (ROPME Sea Area)	Atlantic/Indian		
SWAtHC (SW Atlantic)	Atlantic/Indian	Uruguay	Cdr. Niki Eugenio Silvera
HCA (HC on Antarctica)	Southern Ocean		



#### **IBC Status Review**







IBC	Region	Status	Last Active
IBCAO	Arctic Ocean	Active	2020
IBCSO	Southern Ocean	Active	2020
IBCCA	Carribean Sea & Gulf of Mexico	Active	2020
IBCEA	Central Eastern Atlantic	Inactive	2003
IBCM	Mediterranean	Complete	1999
IBCSEP	South Eastern Pacific	Re-initiating	2008
IBCWIO	Western Indian Ocean	Inactive	1997

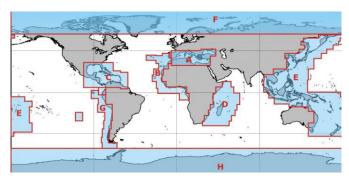


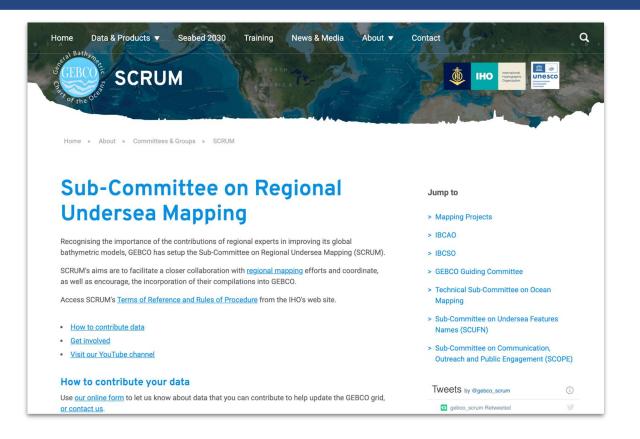
Image from: https://www.hydrointernational.com/content/article/internationalbathymetric-charts

**SCRUM WP:B9** 



#### **SCRUM Web Site Review / Discussion**





Committee review of site is ongoing - updates anticipated

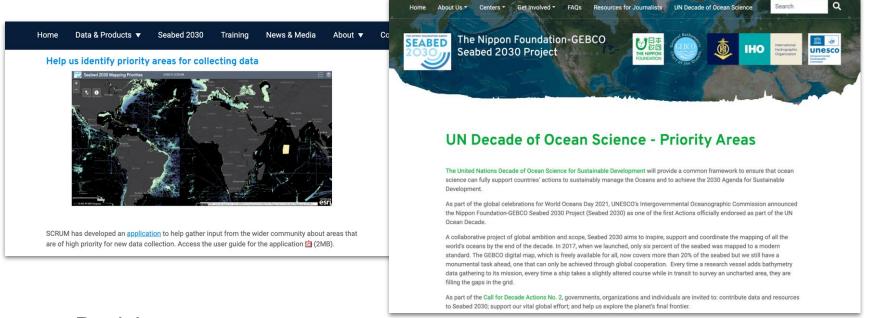


#### Reviewed Tools for ID'ing Mapping Priorities









#### Decisions:

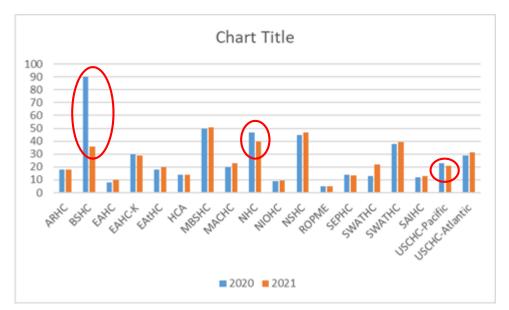
- Map interface is useful but unclear if being used. Committee considering potential upgrades to interface if the content is being used.
- Also useful to post and share links to tools, interfaces and approaches being used for prioritizing in national and regional projects as a resource for community. New WP item



## RHC % mapped from Seabed 2030 Project



- Change in how % mapped was calculated between 2020 & 2021 resulted in decrease in areas mapped
- Updated graph with explanation available on website.





#### **SCRUM Work Items: 2021 Achievements**



Task	Work Item	Status
В	Ensure conduct of SCRUM meeting in 2021 (IHO Task 3.6.1)	Done
D	Encourage the contribution of bathymetric data to the IHO DCDB (IHO Task 3.6.3), identify priority areas for regional mapping and promote data contribution through GEBCO participation in IHO/IOC Regional Meetings	Ongoing
E	Maintain IHO bathymetric publications (IHO Task 3.6.6) including: B-4, B-9, B-10 and B-11	Ongoing
Н	Ensure IHO-IOC GEBCO Web site is kept current and updated regularly (IHO Task 3.6.8)	Ongoing
К	Provide scientific support and advice to Seabed 2030 Project Director, RDACCs and GDACC	Ongoing



#### **SCRUM Work Items: 2021 Achievements**



Task	Work Item	Status?
D5	Develop and make publicly available materials to highlight and foster regional activities and initiatives including up to date GEBCO slide deck virtual engagement materials such as videos of presentations	Ongoing
D6	Develop and refine messaging for IHO & IOC to facilitate increasing the support of coastal states to provide and release data from within their waters of national jurisdiction	Pending
D7	Work with Seabed 2030 Project to update metrics of completeness for RHCs and post on SCRUM web page	Done
D10	Develop interactive map list that highlights groups pursuing workflow enhancements for data processing and integration to foster collaboration	Done
D11	Convene SCRUM-focused sessions of a webinar series in conjunction with Seabed 2030 and Map the Gaps	Pending



### **SCRUM Elections**









Thank you for all your hard work and dedication, Dr. Vicki Ferrini!



Welcome to Vice-chair Elect, Cdr. Hugo Montoro!