

## Papel para consideración por CHAtSO13

### Contribución y Participación de la CHAtSO en el Proyecto Seabed 2030

<b>Sometido por:</b>	Brasil
<b>Resumen:</b>	El proyecto Nippon Foundation-GEBCO Seabed 2030 fue establecido con una meta desafiante con plazo hasta 2030 y se espera la participación de la CHAtSO para contribuir al proyecto
<b>Referencias:</b>	C2-7.3IN - Establishment and future governance of the Nippon Foundation-General Bathymetric Chart of the Oceans (GEBCO) Seabed 2030 Project  The Nippon Foundation – GEBCO – Seabed 2030 Roadmap for Future Ocean Floor Mapping ( <a href="https://seabed2030.gebco.net/data_centers/documents/seabed_2030_roadmap_v10_low.pdf">https://seabed2030.gebco.net/data_centers/documents/seabed_2030_roadmap_v10_low.pdf</a> )
<b>Adjunto:</b>	Resumen del Proyecto Seabed 2030 por Dr. Vicki Ferrini (en inglés)

#### **Introducción / Histórico (en inglés)**

The Nippon Foundation-GEBCO Seabed 2030 project builds on more than 100 years of GEBCO history; the project has established regional connections to all corners of the World and benefits from the human network of ocean mapping capacity built over 10 years through The Nippon Foundation-University of New Hampshire training project. Through Seabed 2030, GEBCO's role will be recognized and reinforced as the authoritative international initiative for mapping the World Ocean, from the coasts to the deepest trenches. The project will champion, develop and nurture the technical and human capacity to complete this task by 2030. Thus, Seabed 2030 supports the UN's Sustainable Development Goal 14: 'to conserve and sustainably use the oceans, seas and marine resources for sustainable development.'

Seabed 2030 has established a network of 4 regional centres. Each centre focuses on discovering, gathering and assembling all available bathymetric data from their region to produce regional datasets and resulting products. A global centre will merge the regional grids to generate the production of the annual GEBCO grid as well as other products. Within this structure, the IHO-Data Centre for Digital Bathymetry (DCDB) will remain the central GEBCO repository for all raw bathymetric data and all Seabed 2030 project data will be data based there.

Complementing the regional centres, the Seabed 2030 Project Team, consisting of the regional centre leads, the global centre lead, Director IHO-DCDB and the Project Director, will engage extensively with international marine, industry and intergovernmental organizations involved in ocean mapping and crowd sourcing initiatives to coordinate a global approach.

Having established a definitive view of the state of seabed mapping, Seabed 2030 will identify gaps in data coverage, prioritize and champion future survey operations to 'map the gaps'. The extensive GEBCO community will provide the expertise to realize this ambitious initiative.

Seabed 2030 will map the ocean floor at the best possible resolution within practical limits. However, gathering high resolution bathymetric data gets more difficult as the ocean gets deeper. Due to this, we have set an overall minimum requirement for different ocean depths, based on what we can achieve with state-of-the-art multibeam technology.

The table below shows the minimum resolutions is expected to achieve at each depth range by Seabed 2030.

<b>Depth Range</b>	<b>Grid Cell Size</b>
0 – 1.500 m	100 x 100 m
1.500 – 3.000 m	200 x 200 m
3.000 – 5.750 m	400 x 400 m
5.750 – 11.000 m	800 x 800 m

### **Descripción /Análisis**

El proyecto Seabed 2030 estableció una meta desafiante para o ano de 2030 y se espera que las Comisiones Hidrográficas Regionales (CHRs) y sus Estados Miembros contribuyan con el proyecto. Se sabe que otras CHRs, como la MACHC, están se organizando hacia al establecimiento de una colaboración. Con el ‘Map of Gaps’ es posible definir áreas críticas sin datos de batimetría.

Estas recomendaciones del IRCC hacia las CHRs tienen relación con GEBCO:

“18. Continue to encourage RHCs to organize contribution of bathymetric data in shallower coastal areas from their member states to GEBCO in order to support the production of higher resolution gridded data products of GEBCO.

19. Encourage RHCs to invite and communicate with GEBCO members to their meetings.”

### **Conclusión / Recomendación**

Es posible que la meta del proyecto Seabed 2030 no será concluida sin la participación de los Estados Miembros de la OHI.

Al interactuar con representante del proyecto Seabed 2030 y discutir como mejor apoyarlo, estará atendiendo las recomendaciones del IRCC.

### **Acción Requerida de la CHAtSO**

La Comisión es invitada a:

- a. **Tomar** nota de esta información,
- b. **Discutir** cómo CHAtSO puede apoyar el proyecto Seabed 2030, y
- c. **Tomar cualquier otra acción** que pueda ser requerida.

Overview about the Seabed 2030 Project Videoconference  
by Dr. Vicki Ferrini  
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In the portion of the presentation about Seabed 2030 I will describe its vision and goals, its establishment and structure, and its current status and near-term plans. In addition, I will provide some details about the current state of data contributions from the Southwestern Atlantic Ocean as well as information about how people can get involved. I would think that 15-20 minutes would be enough time for the presentation and some questions. I also anticipate that 1-2 alumni of the GEBCO Training program will attend the meeting in person, and my hope is that they can also help to answer questions.



**Seabed 2030 Center**  
**Atlantic and Indian Oceans Regional Center**

This center acts as the regional focus for data compilation and co-ordination activities for Seabed 2030 in the Atlantic and Indian Ocean region.

The center is based at the Lamont-Doherty Earth Observatory (LDEO) of Columbia University, Palisades, USA, and is one of Seabed 2030's network of regional and global centers.

**Center Head:** Dr. Vicki Ferrini

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**Biographical information**

Dr Vicki Ferrini is a Research Scientist at Columbia University's Lamont-Doherty Earth Observatory (LDEO) and an Affiliate Associate Professor at the Center for Coastal and Ocean Mapping at the University of New Hampshire. Her research focuses on using mapping techniques to understand the processes that shape the seafloor in a variety of environments.

Vicki currently serves as the Chair of GEBCO's Sub-Committee on Regional Undersea Mapping.

She holds a Master's Degree in Marine Environmental Science and a Ph.D. in Coastal Oceanography, both from Stony Brook University, New York, USA.