



National Decade Committee of Republic of Korea

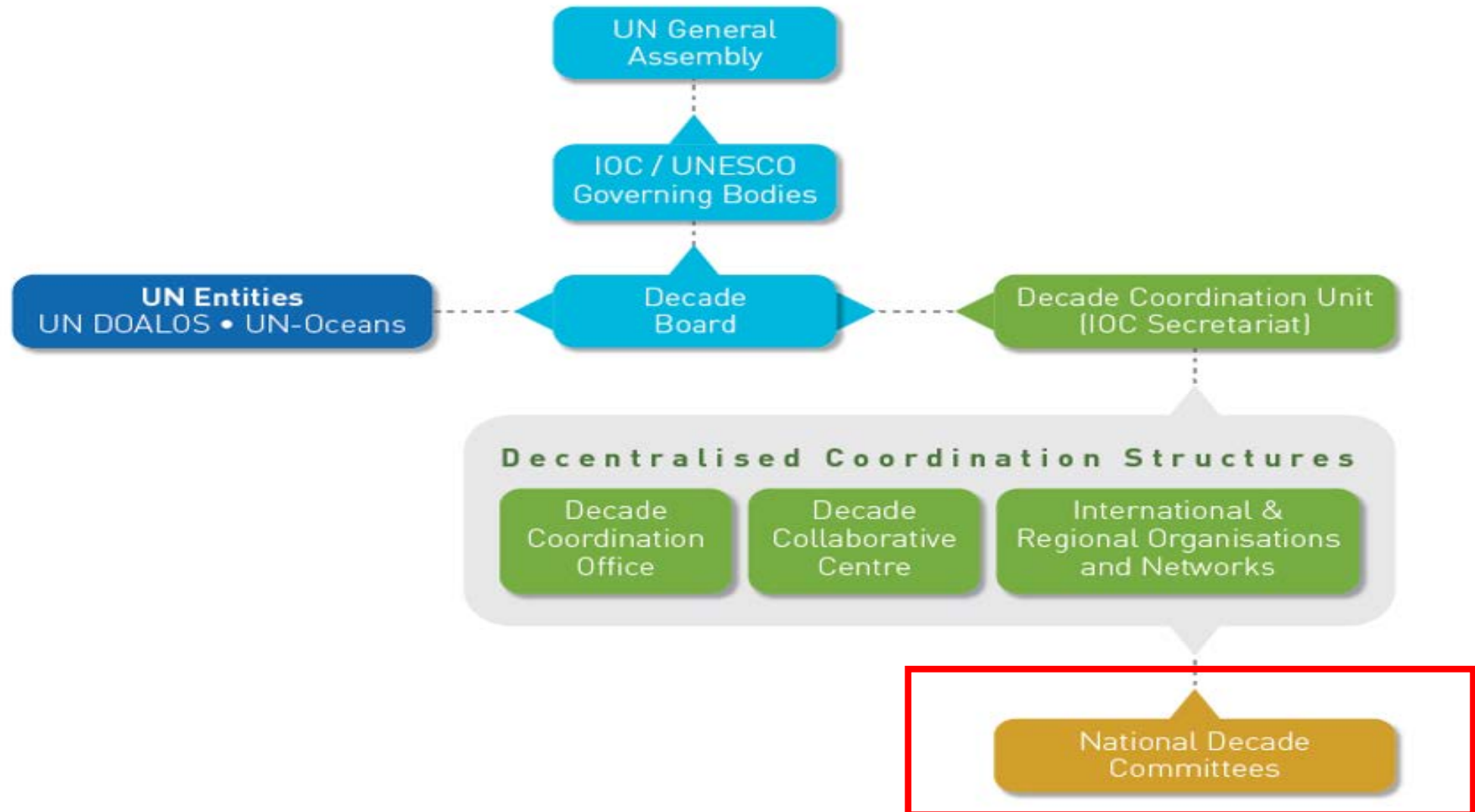
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Korea Institute of Ocean Science and Technology



Fourteenth Intergovernmental Session of the IOC Sub-Commission for the Western Pacific
4-7 April 2023, Jakarta, Indonesia

Decade Coordination Framework





Structure of Korea NDC

- Based on the Ministerial Directive, Korea Oceanographic Commission(KOC) was established as early as 1961.
- Under KOC, IOC/UN Ocean Decade sub-committee was established in 2018, which is now designated as an official NDC of Korea.
- The international cooperation office in Korea Institute of Ocean Science and Technology(KIOST) functions as a secretariat for the Korea NDC.

Composition of Korea NDC (inclusive)

- Youn-Ho Lee (Korea Institute of Ocean Science and Technology, ecologist)
- Jiin Kim (Ministry of Ocean and Fisheries, official)
- Suk-Jae Kwon (KIOST, social scientist)
- Joon-Soo Lee (Korea Oceanographic Data Center, data scientist)
- Sungsan Park (Korea Hydrographic and Oceanographic Agency)
- Seung-Kyun Park (Korea Meteorological Administration)
- Sung Hyun Nam (Seoul National Univ., physical oceanography)
- Byong-Ju Choi (Jeonnam National Univ., modeller)
- Sukgeun Jung (Jeju National Univ. fisheries scientist)
- Tae-Wook Kim (Korea Univ. environmental scientist)
- Sang-Kyung Byun (Former IOC Chair, policy)
- Hyunsook Seo (Korea national commission for UNESCO)
- Jae-Hyoung Park (Pukyung Univ. ECOP)



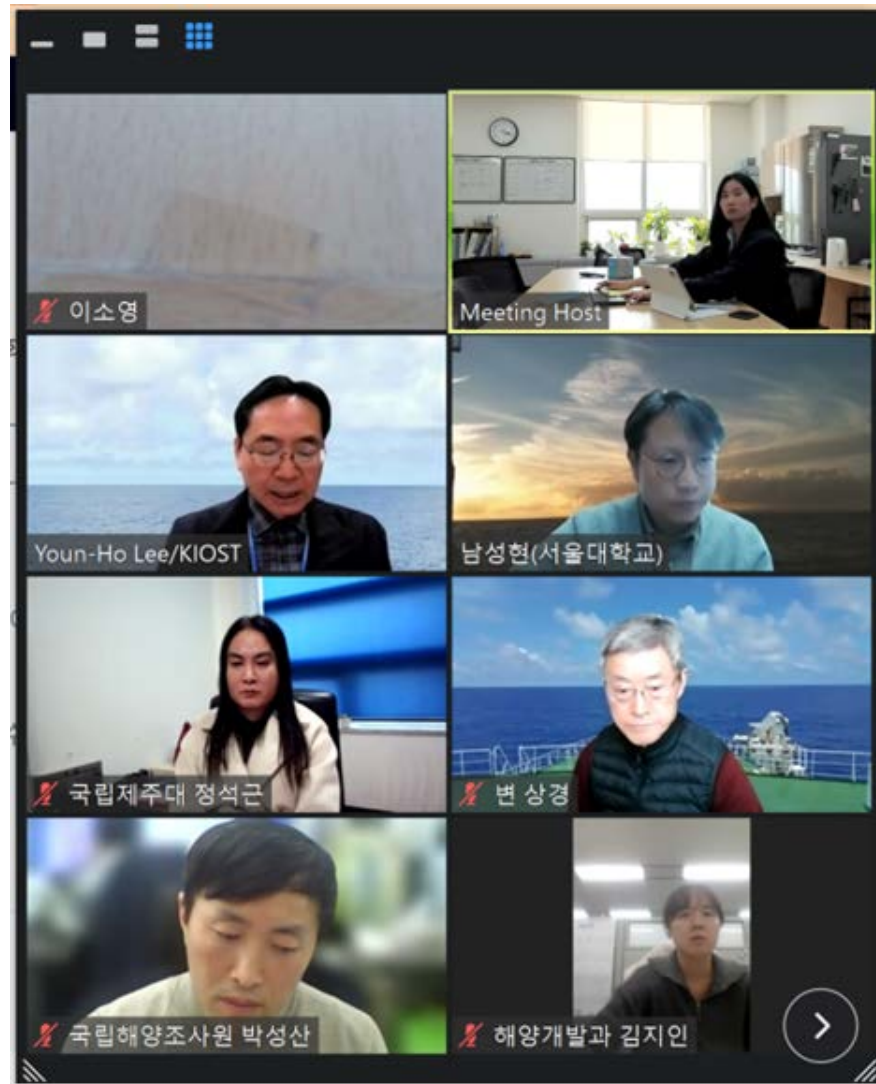


Activities

- Publication of a book on SDG-14, 'Our sustainable ocean', Oct. 2019
- Advertising UN Ocean Decade through several ocean communities such as Korean Society of Oceanography(KSO):
 - having a special session in KOS annual meeting (May 2019)
 - circulating news letters, Call for Actions, Decade implementation plan in Korean
 - NDC member's delivering special talks on Decade in many occasions
- Having a workshop among the committee members and high government officials: ocean science-policy interface (Nov. 2021)
- Promoting and accelerating development of Decade Actions

WESTPAC-XIV, 4-7 April 2023, Jakarta, Indonesia

Committee meetings: at least twice a year





Decade Actions in Korea

- Three projects (**endorsed**):
 - Mesopelagic Biodiversity and Dynamics in Pacific (MEBIDyC-P) (2021)
 - Ocean effects on climate variability of the Northwest Pacific (2021)
 - Subseasonal to Seasonal North Pacific Prediction (2022)
- One activity (**endorsed**):
 - Ocean Data literacy (2022)
- One program (**under review**):
 - Ocean Renewable Energy (2023)

Decade Activity



OCEAN DATA LITERACY

{ 2022.08.16 ~ 2022.12.02 }

The 2nd JOISS Ocean Science Big Data Contest

35 teams applied & Hundreds of subscribers on SEALAB Metaverse Platform



This contest has been approved as a UN Ocean Decade Activity.

UN Ocean Decade Activity



01 Summary

UN Decade of Ocean Science



- The UN launched the 'UN Decade of Ocean Science for Sustainable Development', they said, "The restoration of the ocean to protect mankind and prevent climate change is a great challenge and task. Our efforts to prevent biodiversity loss, the Paris Climate Change Accord, and the Earth's sustainable development goals all depend on the sea."
- In line with this, we are held the '2nd JOISS Ocean Science Big Data Contest' to discover creative ideas and visualized insights using ocean big data near Korean ocean and spread the importance of climate change.

- ❖ Contest title: The 2nd JOISS Ocean Science Big Data Contest
- ❖ Host and Organizer: Haebomdata Inc. & The Korean Society of Oceanography
- ❖ Sponsor: Ministry of Oceans and Fisheries & Korea research council Of Maritime Education
- This contest has been approved as a UN Ocean Decade Activity.



02 Award & Announcement winner

Winner



〈The Minister's Award of the Ministry of Oceans and Fisheries〉



Team. U-RECA

- EWHA Univ, Juwon, Mun Sieun, Park Yeeun, Seong
- **Frequency Prediction on Typhoon which Affect the Korea using Recurrent Neural Network Model**

〈 College Student - Excellence Award 〉



Team. DS Fish Market

- SUWON Univ, Doyun, Kim Jilin, Min Ingyeong, Hwang
- **Long Term Estimation and Prediction of Southern Flow**

〈 High School Student - Excellence Award 〉



Team. Nuclear Power Plant

- Incheon Science High School, Junho, Bae
- **Correlation between Nuclear Power Plant and Marine Environment Changes**



Challenges and Opportunities

- Limited incentives to encourage engagement: project funds, performance appraisal
- Language barrier
- Limited awareness of the public, the fiscal authorities, industries

----- opportunities -----

- Providing an interface between ocean science and policy
- Accelerating communication among diverse ocean stakeholders
- Efficient development and coordination of Decade Actions
- Fast informing national ocean stakeholders of Decade news and issues



Thank You

Youn-Ho Lee



<http://www.kocean.or.kr>

