National Decade Committee of Republic of Korea

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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


• 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
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

HOST

The 2nd JOISS Ocean Science Big Data Contest

The UN launched the "UN Decade of Ocean Science for Sustainable Development," they said, "The restoration of the ocean to protect marine 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 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.

Content title: The 2nd JOISS Ocean Science Big Data Contest

Host and Organizer: Haebeomdata Inc. & The Korean Society of Oceanography

Sponsor: Ministry of Oceans and Fisheries & Korea research council Of Maritime Education

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

Winner

(The Minister's Award of the Ministry of Oceans and Fisheries)

Team: U-RECA

- Ewha Univ. Joo, Min. Seven, Park. Yeon, Seong
- Frequency Prediction on Typhoon which Affect the Korea using Recurrent Neural Network Model

College Student - Excellence Award

Team: DS Fish Market

- SUJON Univ. Dojun, Kim. Jia, Min. Ingyeong, Hwang
- Long Term Estimation and Prediction of Southern Flow

High School Student - Excellence Award

Team: Nuclear Power Plant

- Incheon Science High School, Junha, 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