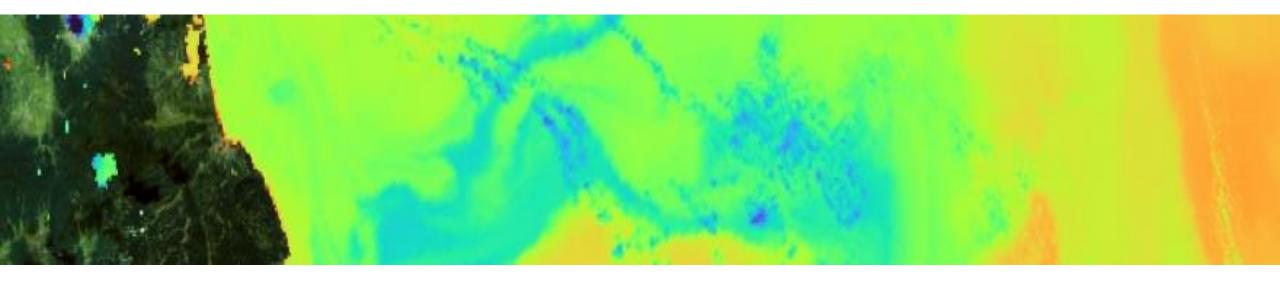
Capacity Development Platform for Biodiversity Observations in AO region



Initial Concept Proposal



Context



Yasuhiro Kubota (2022) AOGEO-15 symposium.

- Growing needs for biodiversity conservation and ongoing initiatives.
- More focus on EO data, especially for the In-situ data.

EO Week in Accra, Ghana from 31 October - 4 November 2022. The next report of the Vorking Group will be presented to the Executive Committee in March 2023 and the final commended GEO Post-2025 Strategy will be made available in September 2023 to serve as sformation basis for discussions on the renewal of the GEO mandate at the GEO Plenary 19

threasty and inclusion from within the GEO community. The list of Working Group members is childred in Amez. 2: To date, the Working Group met virtually on 31 May, 11 July and 3-31 August, and in person in Geneva 20.1 September 2022.

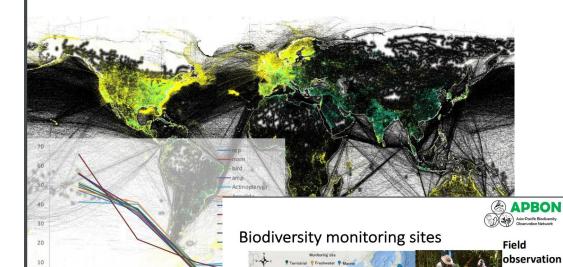
I play and 3-31 August, and in person in Geneva 20.2 September 2022.

To parallel, the Working Group with suppost from the GEO Secretariat, has been engaged in consultative process with a wide range of stateholders to take into account the diversity of the consultative process with a wide range of stateholders to take into account the diversity of the America CO Week 2022. The America CO Week 2022 the CO Programme Board meeting, the September Technica Workshop of the Committee on Earth Observation Statellites, ACOG Symposium and GEO House Event with cognizations co-located in the WMO building. Engagement of CO House Event with organizations co-located in the WMO building. Engagement with the Africa CO community during GEO Week 2022 and with

roGEO during EuroGEO event in December 2022

Target

Setting targets-do we have the data?



Ecosystems

Alice Hughes (2021) AOGEO-14 symposium.

- We need to collate better and more representative data to understand where species are.
- We need more experts who are capable of biodiversity monitoring.
- ➤ Bridging the gap by constructing the online platform for capacity development through the DIAS.

DIAS?



- > DIAS provides,
 - Multiple EO datasets
 - Climate change prediction data
 - Applications

through its online platform

DIAS and the EO Value Chain

Earth Observations



Data Integration & Analysis

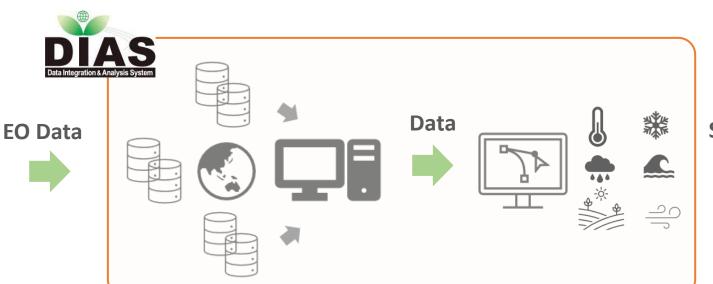


Evaluation & Visualization



User Case

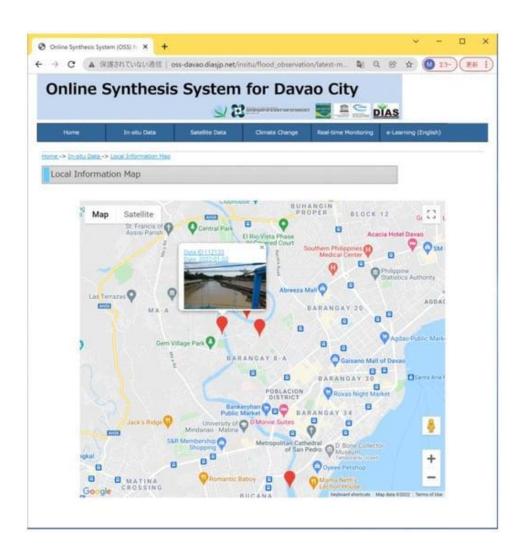






Climate change monitoring; Adaptation action; Disaster risk reduction; Biodiversity monitoring

Capacity development platform?



DIAS also provides a localized capacity development platform, "Online Synthesis System for Sustainability and Resilience (OSS-SR)" to empower the local stakeholders to address water hazards.

Capacity development platform?

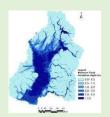
Online Synthesis System for Sustainability and Resilience (OSS-SR)

Localized models & Application





Realtime Flood Monitoring & Forecasting information



High-resolution Hazard Map



3D Flood Hazard Map on **Google Earth**

Online e-Learning Platform



Lecture on Climate change & flood DRR

Lecture on hydrological models

Tutorial of flood simulation through the models

Tutorial of Flood hazard mapping

Tutorial of satellite image analysis

Local Stakeholders

























E-Learning contents

E-Learning Platform



Target Audience	Contents to disseminate/Translate
Local Community	Cause of floodClimate change impactContingency planning for DRR
Government Agency	 Cause of flood Flood monitoring/ hazard mapping Climate change impact Contingency planning for DRR DRR planning/ development planning
Private Sector	Cause of floodClimate change impacts
Media	Cause of floodClimate change impacts
NGOs	Disaster risk management cycleContingency planning for DRR

Course-1	
CC-1	Integrated Approach for Climate Change and Flood Disaster Risk Reduction in Davao
CC-2	Impact Assessment of Climate Change in Davao City
CC-3	Uncertainty in Future Climate Change Scenario
FM-1	Flood Monitoring and Forecasting for the Davao River Basin
FM-2	Flood Hazard Mapping and Contingency Planning for Davao City
FM-3	3D Flood Hazard Mapping for Disaster Risk Reduction
DRR-1	Effective Hazard Information & Public Awareness
Course-2	
DRR-2	Flood Response under COVID-19
DRR-3	Translating OSS knowledge into science communication plan
DRR-4	Sharing knowledge on disaster resilience and sustainability by all

Achievements

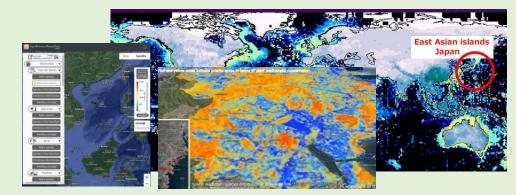
- E-learning enables local stakeholders to utilize the data system to send out official water-related early warnings/alerts, analyze risk, and create hazard maps.
- Those experts take on the role of "facilitator" bridging the science community and the larger society to support policymaking and public investment by utilizing Earth observation data and scientific knowledge from the OSS-SR to accelerate local climate-adaptation actions.

Biodiversity next?

Online Synthesis System for Nature Positive (OSS-NP)

AO Region Biodiversity Extent Mapping Tool





Biodiversity Big data

More than 500,000 species of plants and animals on earth (200,000 species in ocean + 300,000 species on terrestrial)

Conservation priority rank maps to evaluate the impact on biodiversity

Spatial data of conservation importance based on biodiversity loss risk values provides fundamental information for considering sustainable use of nature capital.

Online e-Learning Platform



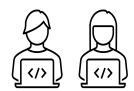
Lecture on sustainability of biodiversity and ecosystems, NbS

Lecture on biodiversity monitoring

Tutorial of biodiversity monitoring

Tutorial of biodiversity loss risk mapping

Local Stakeholders



















10



Biodiversity next?

E-Learning Platform



Target Audience	Contents to disseminate/Translate
Local Researcher	Biodiversity extent mappingConservation priority evaluationBiodiversity monitoring methodology
Government Agency	 Biodiversity extent mapping Conservation priority evaluation Assessment the risks and opportunities
Private Sector	Conservation priority evaluationAssessment the risks and opportunities
Media	- Biodiversity extent mapping
NGOs	Conservation priority evaluationBiodiversity monitoring methodology

Course idea	
Lecture	Biodiversity for addressing climate change & disaster risk reduction
Lecture	Nature-based Solutions and sustainable society
Lecture	Biodiversity monitoring methodology
Lecture	Essential Biodiversity Variables (EBVs)
Tutorial	Biodiversity monitoring, on-site training
Tutorial	Collection data reporting, analysis, and management
Tutorial	Evaluating the biodiversity loss risks through the biodiversity extent mapping tool

Biodiversity next?

- E-learning enables local stakeholders to utilize the biodiversity extent maps for local conservation policymaking and practices as well as urban planning.
- > Local stakeholders realize the importance of collating better and more representative data.
- We provide a series of e-learning courses to empower local stakeholders' biodiversity monitoring capacity

We need your support for...

- Providing your feedback on this concept and idea
- > Finding the potential collaborator in your network
- > Participating in the E-learning content development