













AWCI Session for the 15th AOGEO Symposium September 21, 2022

Country Report on the Platforms on Water Resilience and Disasters **PHILIPPINES**



PLATFORM on Water Resilience and Disasters Early Climate Change Data National Warning Assessment Integration Davao (Davao Central Luzon-NCR-Region River Basin) CALABARZON SATREPS Davao HELP Network Water-related Disaster Early Warning CCA Agriculture Environment Economics **AOGEO** AWCI OSS-SR E-Learning for Facilitators OSS-SR E-Learning modeling Prof. Toshio Koike, ICHARM

Online Synthesis System (OSS)

Decisionmaking

CC Impact

Introductory Lecture

Policymaking

CC & DRR

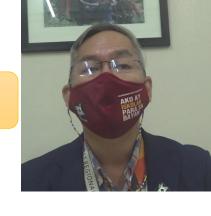
Real-time

System

Society

Prior Investment

Local **Practice**











In-situ

Gauge

3D FHM COVID-19 Translating Impact-OSS base Info

3D FHM 2D FHM OSS Guide Communication **Planning**

Contingency **Planning**



Hands-on

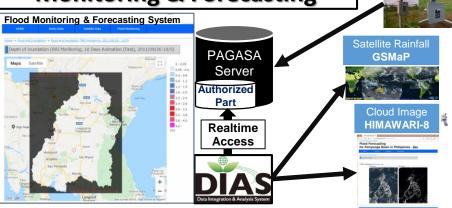
Barangay -scale

Basin -scale

Hazard

Mapping







Present

Climate Change Impact Assessment





-scale **Climate Change**

Rain, WL, Discharge, Inundation

Impact





Future

System Configuration

(Obiective, Contact, System Update)

Online Synthesis System (OSS)

Decisionmaking

Policymaking Society

Prior Investment

Local Practice





Facilitators



Introductory Lecture

CC Impact

CC & DRR

Uncertainty Real-time Hazard System Mapping

e-Learning 3D FHM

Impact-

base

COVID-19 Translatin OSS

3D FHM 2D FHM OSS Guide

Communication Planning

Hands-on Contingency

Planning



Participants in WS

Candidates for the facilitator were invited from different disciplines and sectors of society.

- CRITERIA 1 (Direct disciplines): Those who have a background in DRRM, CCA, Sustainability, IWRM, RBO management, Flood management, and Climate/meteorology
- CRITERIA 2 (Good mix of sciences): Natural science, Engineering, Social science including communication, ICT, and Communicator in the mother tongue.
- CRITERIA 3 (Representation from different levels of governance): Barangay, City/ Municipality, National government, Private sector/Industry, Civil society, Academe, Media, and Special representation from DRBMA which is an interregional body.
- CRITERIA 4: Members of HELP Davao Network

Candidate of Facilitator

TOTAL	29
Media	2
Private Sector	2
Civil Society Organization	1
Academe	11
Local Government	2
National Government	11



Participants in the Q & A Session

	Title	Lecturer	Outline
2-1	How to Use the OSS	M. Miyamoto K. Tamakawa	Understand the overview of OSS. Instruct how to download and use the data of climate change impact assessment, real-time basin-scale inundation, and local barangay-scale inundation.
2-2	Training on 2D & 3D Flood Hazard Mapping	K. Naito N. Nagumo	Learn how to make 2D flood hazard maps and identify flood risk at each Barangay level by using flood simulation results and QGIS software (free GIS software). Learn how to visualize flood risk in 3-dimention(3-D) by google earth and street view function.
2-3	Training on Contingency Planning	M. Ohara	Learn how to develop contingency scenario and plan among related stakeholders by using flood simulation results.
2-4	Communication planning		Create the specific action plan of Science Communication

Increased Hazard under Climate Change

From Training HT-2

Max, inundation depth with 100 years return period in Barangay Ma-A under



Max. inundation depth with 100 years return period in Barangay Ma-A under future climate (RCP8.5 scenario)



Contents of Davao OSS

4. Climate Change 4-2. Hydrological Model





For detail Model: RRI model Area: 50 km²

Brgy. Mandug Bray, Ma-A

Platform for Water Resilience and Disaster in Davao River Basin, Philippines



Contents of Davao OSS



OSS Deployment and Sustainability

Policy Support/Institutional Commitment/Sustainability of "Facilitators" / Finance and Infrastructure

OSS Facilitators

e-learning sessions/Cascading Sessions

Knowledge and Tools for Decision Making

Data Integration/Early
Warning/Economic Assessment/
Climate Change
(DIAS)/Communication/Contingency
Plans



Sustainable, Resilient, and Inclusive Davao City