













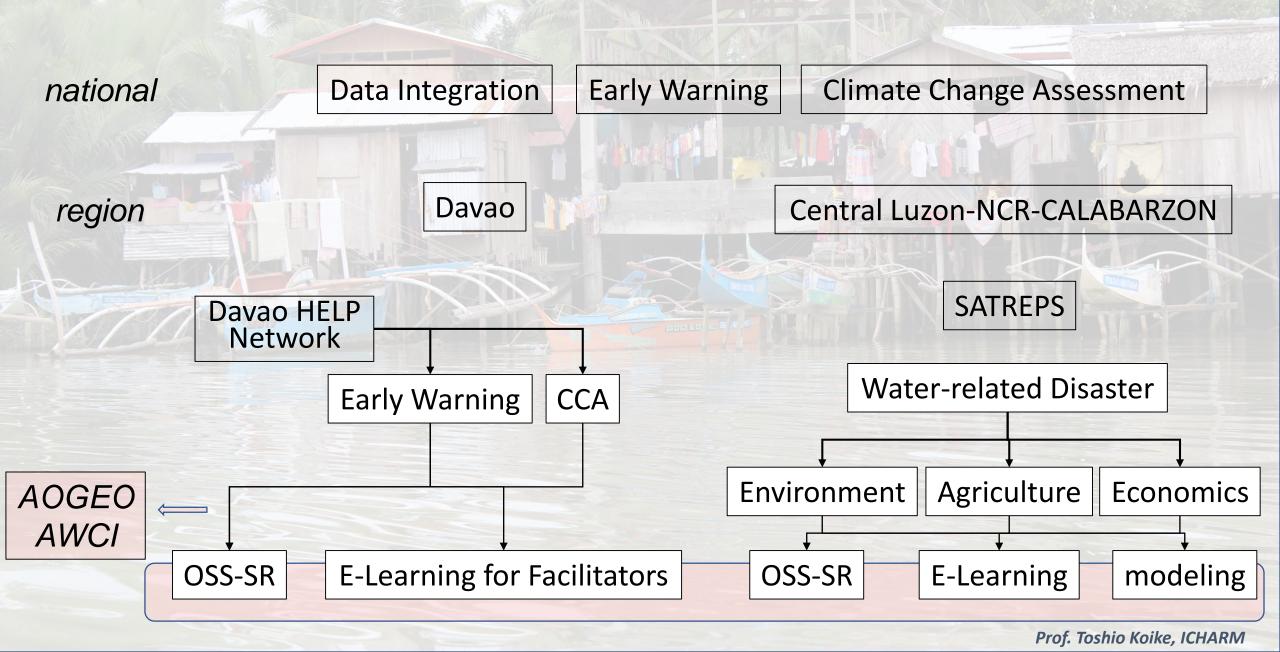
Asian Water Cycle Initiative (AWCI) Session October 28, 2021

COUNTRY REPORT

Platforms on Water Resilience and Disasters **Davao City, Philippines**

Dr. Anthony C. Sales, CESO III Regional Director, DOST XI

PLATFORM on Water Resilience and Disasters



Platform for Water Resilience and Disaster in Davao River Basin

Knowledge and Tools for Decision Making

Data Integration

Real-time data from ARGs, WLMS, and Tandem units

Predict
downstream level
rise in a certain
lead time based
on upstream
hydromet data

Identification of possible areas where distress calls

Early Warning

Information
system for
disaster
notification
disaster-related
updates

Deployment of early warnings systems (DEWS

Installation of community-based alerting stations

Climate Change

Geo-informatics for the systematic assessment of flood effects and risks for resilient Mindanao (GEO-SAFER Mindanao)

Use of LiDAR data for Resource Mapping

PHL-MICROSAT

Utilization of satellite images through the Davao Ground Receiving Station for flood monitoring

Management Plans and Policy Making

Davao River Basin Management Plan

Davao River Basin Health Scorecard

Customized IWRM
Guidelines for
Davao City and
Davao Region

Resilience
Demonstration
Project: Assessment
of Urban Water
Systems

City and Barangay Flood Hazard Maps

Metro Davao Earthquake Model

Communities of Practice

Enhanced Barangay Disaster and Risk Management Plan

Advocacy and Capacity Building on IWRM/DRR/CC

Vertical Helophyte
Filter System in
Communities

Sustainable Basin Livelihood

Community Learning Centers

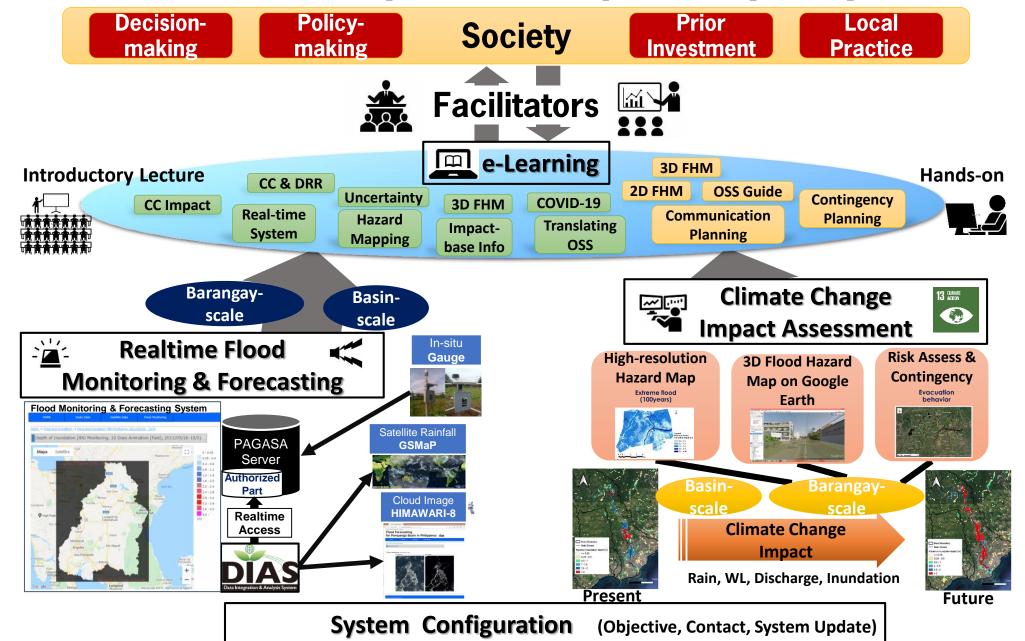
AOGEO AWCI



OSS-SR

e-Learning for Facilitators

Online Synthesis System (OSS)















e-Learning Workshop of the Davao OSS for the Candidates of "Facilitators" in Davao City, Philippines

April 19-May 17, 2021

e-Learning Contents

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 Prof. Tomoki Ushiyama					
CC-3	Uncertainty in Future Climate Change Scenario Dr. Katsunori Tamakawa					
FM-1	Flood Monitoring and Forecasting for the Davao River Basin Dr. Mamoru Miyamoto					
FM-2	Flood Hazard Mapping and Contingency Planning for Davao City Prof. Miho Ohara					
FM-3	3D Flood Hazard Mapping for Disaster Risk Reduction Dr. Takuya Inoue (CERI)					
DRR-1	Effective Hazard Information & Public Awareness Dr. Nobuyuki Tanaka (JMA)					
Course-2						
DRR-2	Flood Response under COVID-19 Prof. Miho Ohara					
DRR-3	Translating OSS knowledge into science communication Prof. Della Grace Bacaltos (DSSC)					
DRR-4	Sharing knowledge on disaster resilience and sustainability by all	Prof. Toshio Koike & Prof. Miho Ohara	Ass			

Exam

Assignment-1

Assignment-2

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



TOTAL	20
Media	2
Private Sector	2
Civil Society Organization	1
Academe	11
Local Government	2
National Government	11





Feedback & Discussion

- <u>Framework and timeline of future operation</u> to maintain the functionality and sustainability of Davao OSS. The actual engagement of the facilitators should be planned out. One suggestion is the Davao River Basin Management Alliance or DRBMA
- Incorporation with ongoing and past activities/projects such as UNESCO project on disaster resilience
- Access and navigation of Davao OSS, (this may be a part of the hands-on training)
- Proposal for <u>reflecting local knowledge</u>, <u>experience and insights</u> to Davao OSS
- Proposal for <u>grouping of Facilitators according to the target</u> <u>audience</u> (who can be knowledge users or brokers) and special skills for effective mastery

Science Communication

Aiming for "CONSILIENCE", integrating the concepts of DRR and sustainable development with concrete actions.

Target Audience (PENTAHELIX)	Kno be	ssible OSS owledge/Content to disseminated and nslated	Con Med /Ch	sible nmunication dium annel/Tool/ vity	Next Step
Local Communities (Youth, Women, People's Org)	-	Identified by "Facilitators"		Identified by	Identify and Plan specific activities
DRR Team (Barangay and City Level)		for each target		"Facilitators" for each	Translated the OSS training
Government Agencies (DENR, DILG, DOST, DSWD, DOH)		audience during the e-		target audience during the e-	materials to Philippine
Policy Makers (legislators and local government officials)		learning workshop		learning the e-	National Language
Private Sector		assignments		assignments	(Filipino) and
Media		and feedback sessions		and feedback	Local Dialect (Bisaya)
NGOs and CSOs	_	303310113		sessions	

Secured policy support thru RDC XI Resolution, enjoining the adoption of the Davao OSS

2nd Phase Training for Davao City

OSS-SR Hands-on Training Workshop for Facilitators (November or December 2021)

	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	Della Grace Bacaltos (DSSC)	Create the specific action plan of Science Communication				

