







First Data Buoy Cooperation Panel Mediterranean Training Workshop on Ocean Observations and Data Applications (DBCP-Medi-1)-Part 2

Regional Training Centre (Indonesia)

Program & Activities

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The Agency For Meteorology, Climatology and Geophysics (BMKG)

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MORE

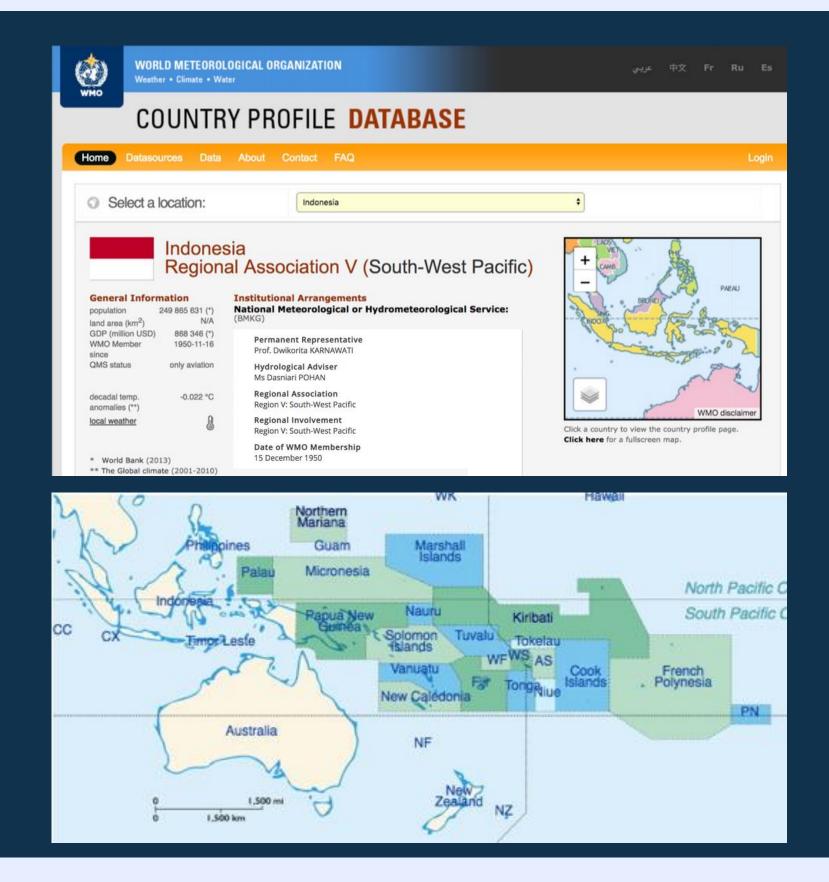












Indonesia RTC Profile

Recognized in 2012 by the WMO Executive Council in the 64th EC Meeting

RTC Areas:

- Education opportunities
- Access to education and training resources
- Competency and capability frameworks
- Qualifications
- Joint collaboration program
- Initial and ongoing training activities











BMKG INDONESIA OTGA SPECIALIZED TRAINING CENTRE





- Data Management
- Marine Meteorology
- Ocean Observation

Topics include Marine GIS, Bio Geography, Cruise Planning and Oceanographic Sampling



- Information Management
- Disaster Recovery

Topics include Digital Asset Management, E-repositories, Disaster Planning and Recovery.



- Marine Spatial Planning
- Tsunami
- GIS

Topics include Coastal and Marine Spatial Planning and Management



- OBIS
- · Harmful Algal Blooms

Topics are related to marine biodiversity data and information management.

The OceanTeacher Global Academy (OTGA) Project aims at building equitable capacity related to ocean research, observations, and services in all IOC Member States

BMKG became the OTGA Specialized Training Center in 2020, focusing on the training scopes of tsunami and ocean literacy







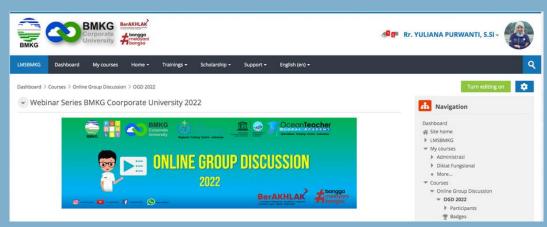




BMKG Online Training Facilities

Asynchronous Sessions

LMSBMKG pusdiklat.bmkg.go.id





Synchronous Sessions









BMKG Learning Management System











LMSBMKG

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Scholarship •

Support •

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Course overview



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Summary

International Training on Numerical Weather Prediction (NWP) - WMO 2022 (2nd Phase)

Meteorologi

Realizing the importance of Numerical Weather Prediction (NWP) in the attainment of appropriate weather forecasting and climate monitoring activities, WMO is organizing the International Training on Numerical Weather Prediction at the Regional Training Centre of the Agency for Meteorology, Climatology and Geophysics of the Republic of Indonesia (BMKG) in 2022. The course is aimed at enhancing the capacity of participants from National Meteorological and Hydrological Services (NMHSs) with knowledge and practical skills in the field of NWP. The course will be conducted in English.

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BMKG Online Training Facilities

















BMKG Training Facilities























BMKG Training Facilities



















Face to Face Training Activities

















THE INTERNATIONAL PARTNERS

Area of collaboration:

- Resources Sharing
- Lecturers/Trainers
- Issues Updates
- Events
- Community of Practice
- etc.



























Korea Meteorological Administration

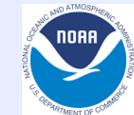
Korea International

Cooperation Agency





























Regional Training Centre - Indonesia

RTC Team International Involvement

- Member of WMO EC Capacity Development Panel
- Member of National Committee for IOPAC
- National Focal Point for GOOS
- Chair of DBCP
- Co-Chair CALMet Conference Working Group
- Member of Technical Support Officer CALMet Working Group
- Member of WMO Expert Team on Education, Training, and Competency on Met Aviation (ET-ETC)
- Members of WMO Expert Teams and Task Teams
- Member of CONECT WMO Working Group
- Indonesia Delegations (Calmet Conference 2011/2013/2015/2017/2019/2021, WMO Global Campus 2020, EC-CDP Meeting 1-7, WMO Meetings, VLMG, AOMSUC, DBCP, etc)
- International Collaboration (RFG BoM, Training, Project, Online Resources, CM4SH-2
- Technical Partner for UNEP in Enhancing EWS to build greater resilience to hydrometeorological Hazards in Timor-Leste
- SOFF Peer Advisor for Timor Leste and Maldives (in collaboration with FMI)

















ADDIE Process

A standard on how we conduct our training



Analysis

Design

Development Implementation

Evaluation













The Training Need Analysis RMPDA Survey 2021

Resources Mobilization, Partnerships and Development Assistance

36 Respondents

- In Collaboration with the WMO, as a contribution to the CDP activities
- 27 Countries (NMHS & Universities)
- 2 Institutions (WMO & Eumetsat)



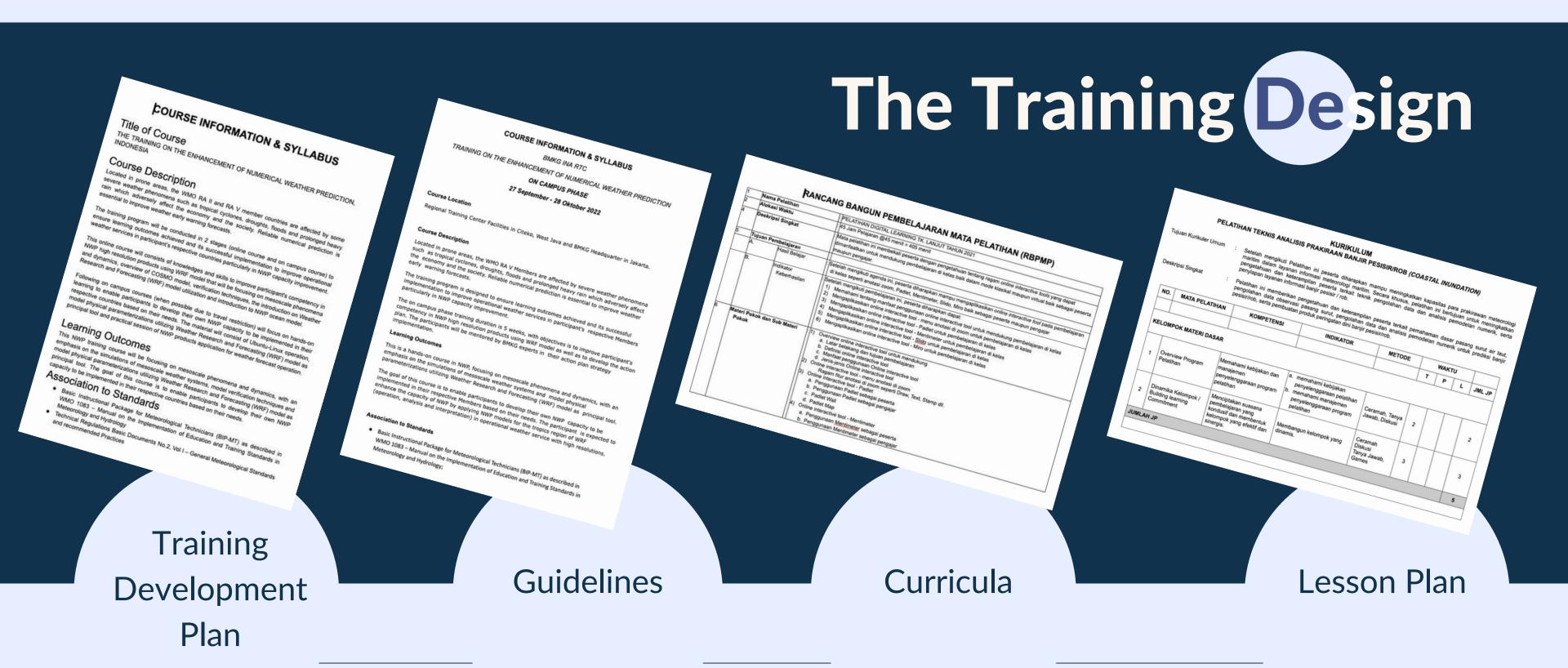










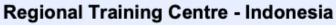










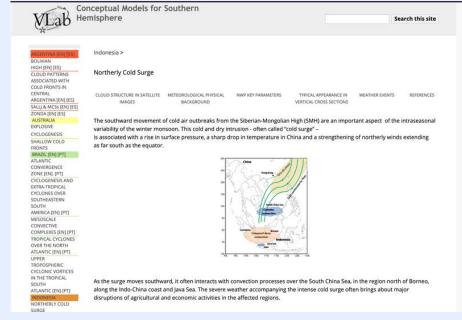




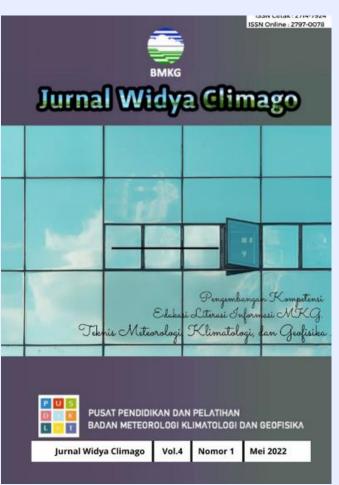
Learning Development

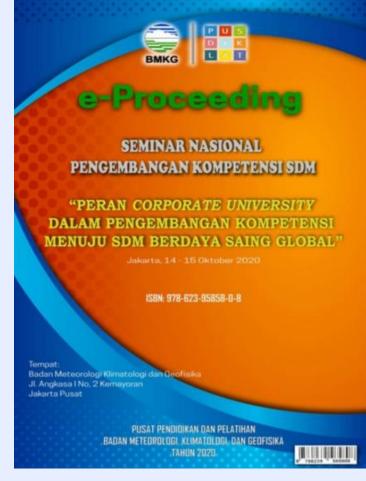
- Training Modules
- Bulletin
- Case study
- Digital Library
- Learning Management System
- Knowledge Management System
- Online Journal System
- e-proceedings









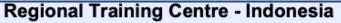










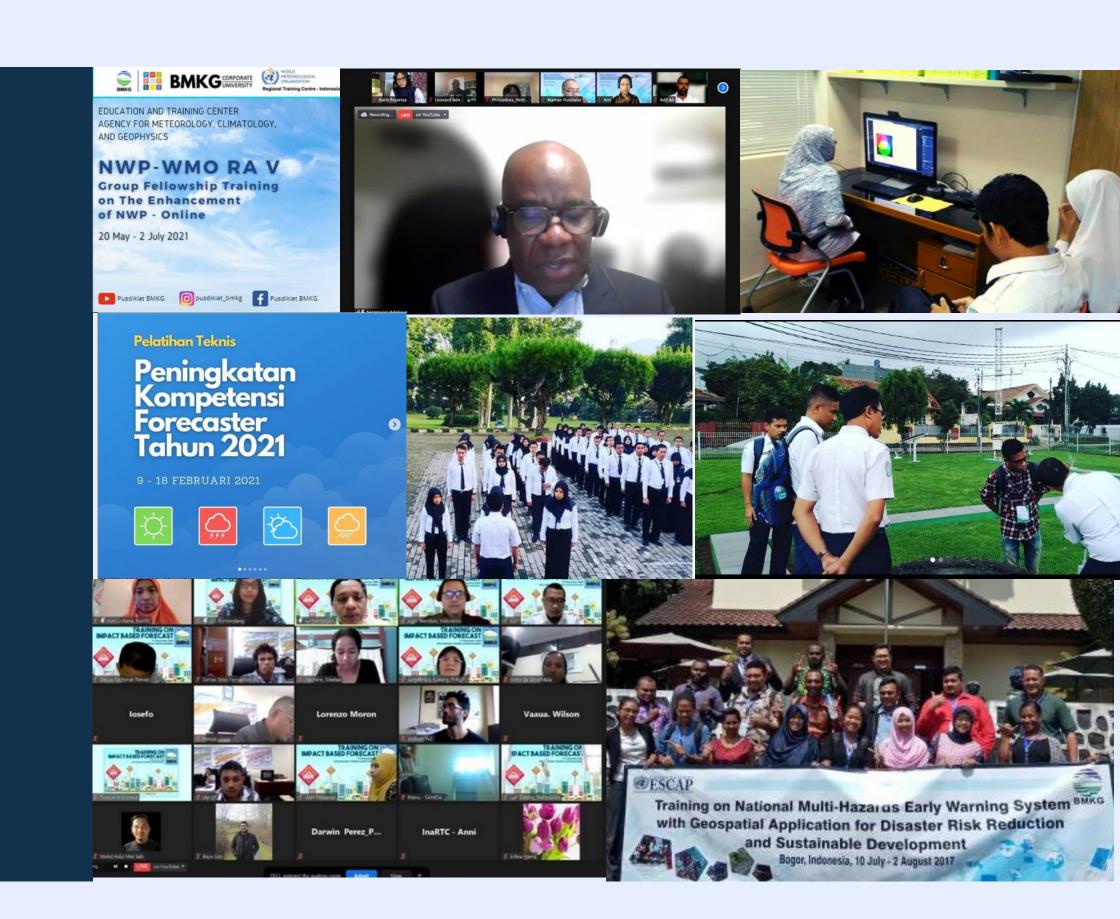




Specialized Training Centre - Indonesia

Learning **Imp**lementation

- Classroom Training
- Online Training
- Blended Training
- Monthly Online Group Discussion
- Learning Resources
- Coaching/mentoring
- Community of Practice









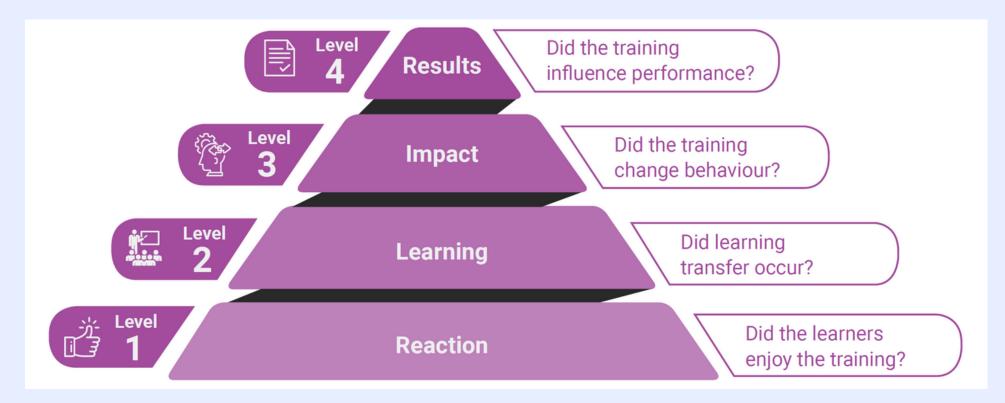




Specialized Training Centre - Indonesia

Learning Evaluation

KIRKPATRICK Evaluation Model: 1 - 3



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International Trainings

- Impact-Based Forecast Training for RA II and RA V (2020, 2021 Online)
- NWP Training for RA V (2021 Online & 2022 F2F)
- Climate Field School for RA II and RA V (2021 Online; 2019 and 2023 F2F)
- IBF Training for PAGASA (2021 Online)
- Climate Training for Timor Leste (2019 F2F On The Job Training)
- WMO OSCAR Surface Training Course for RA V (2018 F2F)
- BMKG USGS Joint Training Course on Earthquake and Tsunami Hazard (2020 now Online)
- UNDP Climate Projection Training (2022 Online)
- Ocean Forecast System (2021 2023 Online)
- Ocean Literacy/ Fisheman Weather Field School (2023 Online)
- Tsunami Community Preparedness (2021 Online and 2022 F2F)
- UNEP: BIP-MT Training, QMS Training, and AWS Training for Timor Leste (2023, Online & F2F)





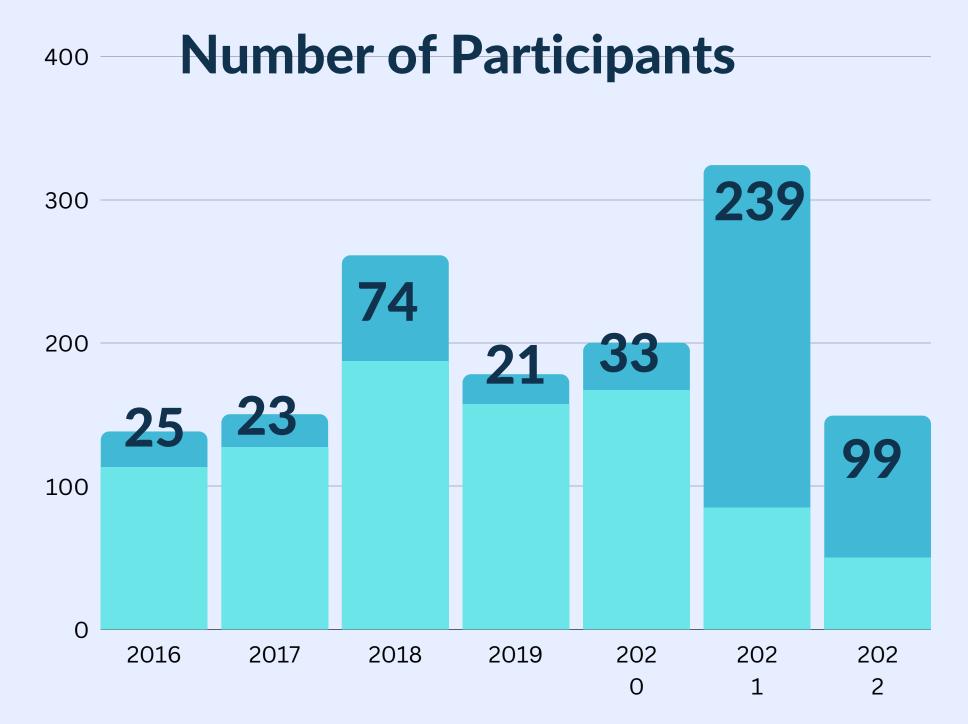






Training at Ina RTC-Meteorology (2016 - 2022)















VP Training for RA-V (2021/ 2022)

First Phase:

20 May to 2 July 2021 (Online)

Second Phase:

 27 September to 24 October 2022 (Classroom) in Citeko and Jakarta, Indonesia)

Goals:

 to Improve the competency of forecasters in advanced methods of weather forecasting utilizing the Weather Research and Forecasting (WRF)model as a principal tool in **Numerical Weather Prediction** (NWP)

List of Participants (25)

Indonesia: 5

• Fiji:3

• Malaysia: 2

• Papua New Guinea: 3

• Phillipines : 1

Solomon Island: 1

Timor Leste: 2

• Zimbabwe: 1

Zambia: 1

Ivory Coast: 1















VP Training for RA-V (2021/ 2022)

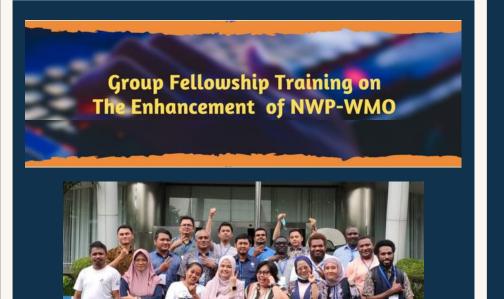
The Training Content

Online Phase

- General NWP Atmospheric Model
- 2. NWP Basic
- 3. NWP Application. Analysis and interpretation of Tropical Cyclone & Extreme Weather
- 4. NWP application. Analysis and interpretation of volcanic ash and forest fire.
- 5. Overview of Consortium for Small-scale Modelling / COSMO Model
- 6. WRF Introduction: Model and Application
- Introduction to HPC (High Performance Computing Unit)
- Introduction to Ocean Model: Wave Model Products
- 9. Introduction to Ocean Model: Hydrodynamics Model Product
- 10. Introduction to Climate Model
- 11. RegCM
- 12. Verification Techniques

On Campus Phase

- 1. Ubuntu Linux System Operation
- 2. Weather Research and Forecasting (WRF) Model
- 3. Post Processing Application and Visualization
- 4. WRF Simulation in High Performance Computing (HPC)
- 5. Advance WRF Model
- 6. Application on NWP Products in BMKG Daily Weather Forecast



	Objectives	Activities	Output
1 st Phase	Improve the capability of NWP high resolution products using WRF model for meteorological services Develop action plan (under mentor supervision of BMKG experts)	5 weeks training course with major learning activities of lectures, discussions, case studies, collaborative decision making, exercise, project report and action plan	Action Plan
2 nd Phase	Develop the utilization of NWP (WRF Model) to improve operational weather services Develop action plan implementation strategy	Implement NWP (WRF Model) in operational weather services Long distance/online mentoring of action plan implementation	Short interim report on results of NWP (WRF Model) utilization for operational weather services
3 rd Phase	Confirm action plan by identifying the problems and make adjustments to the implementation based on the respective country's capabilities. Conduct training evaluation level 3 to evaluate impact of the training to the performance improvement	Online monitoring the progress, evaluating the action plan implementation, discussing the impact, challenge and opportunity for the project improvement and sustainability in the participant's respective country.	Report on results of NWP (WRF Model) implementation for operational weather services in participant's respective country.

NVP Training for RA-V (2021/ 2022)

The **Modules**



01.01

General Numerical Weather Prediction (NWP) Atmospheric Model

AUTHORS : Dr. Ida Pramuwardani, S.Si, MMSI Wido Hanggoro, S.Si, M.Kom



METEOROLOGICAL TRAINING MODULE

Basics of 01.02 Numerical **Weather Prediction**

Agie Wandala Putra, M. Sc Achmad Rifani, S. Tr



METEOROLOGICAL TRAINING MODUL

NUMERICAL WEATHER PREDICTION Application, Analysis and Interpretation of Tropical Cyclone, Extreme Weather, Volcanic Ash and Forest Fire

Dr. Danang Eko Dr. Heri Ismanto



METEOROLOGICAL TRAINING MODUL

01.04

Ubuntu Linux Operation: Installation Procedure and Basic Command

Authors : Zainal Abidin



METEOROLOGICAL TRAINING MODULE

WEATHER RESEARCH AND FORECASTING MODEL INTRODUCTION AND APPLICATION WRF INSTALLATION PROCEDURE AND

Authors: Dr. Danang Eko Nuryanto Jaka Anugrah Ivanda Paski S.Tr

RUNNING PROCESS

METEOROLOGICAL TRAINING MODUL

ADVANCE WRF DATA ASSIMILATION AND **ENSEMBLE FORECAST**

Dr. Danang Eko Nuryanto Jaka Anugrah Ivanda Paski S.Tr

01.08

NWP Post Processing and Visualization

Rezky Yunita



METEOROLOGICAL TRAINING MODUL

01.09 Verification Techniques

> Dr. Ida Pramuwardani Nanda Alfuadi, S.Tr



01.10

Introduction to High Performance Computing (HPC) Unit

METEOROLOGICAL TRAINING MODUL

01.11

WRF Simulation on HPC, Advance WRF: Tropical Cyclone and Simulation **Tropical Cyclone**

Authors: Furqon Alfahmi Novria Sagita

BMKG

METEOROLOGICAL TRAINING MODULE

Introduction to Ocean Model

DR. Andri Ramdha



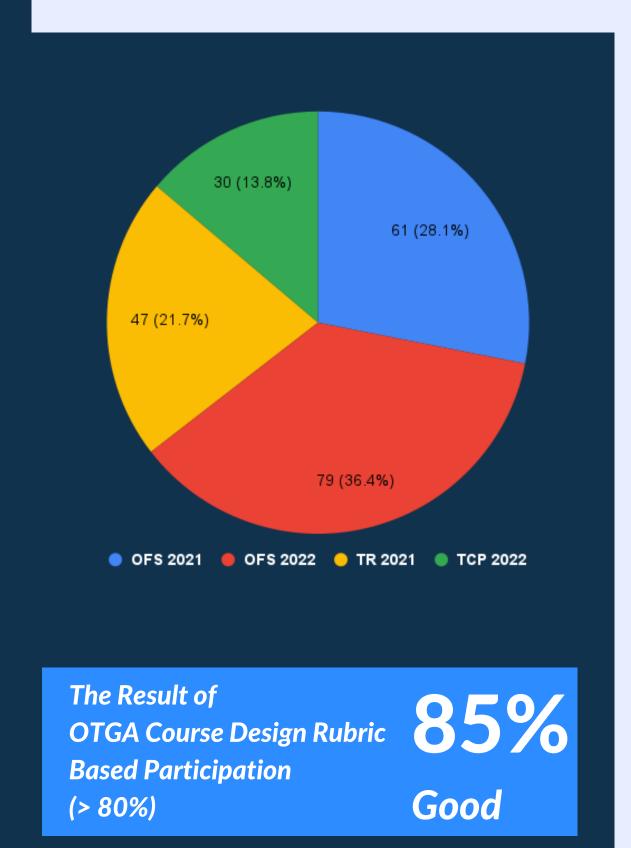


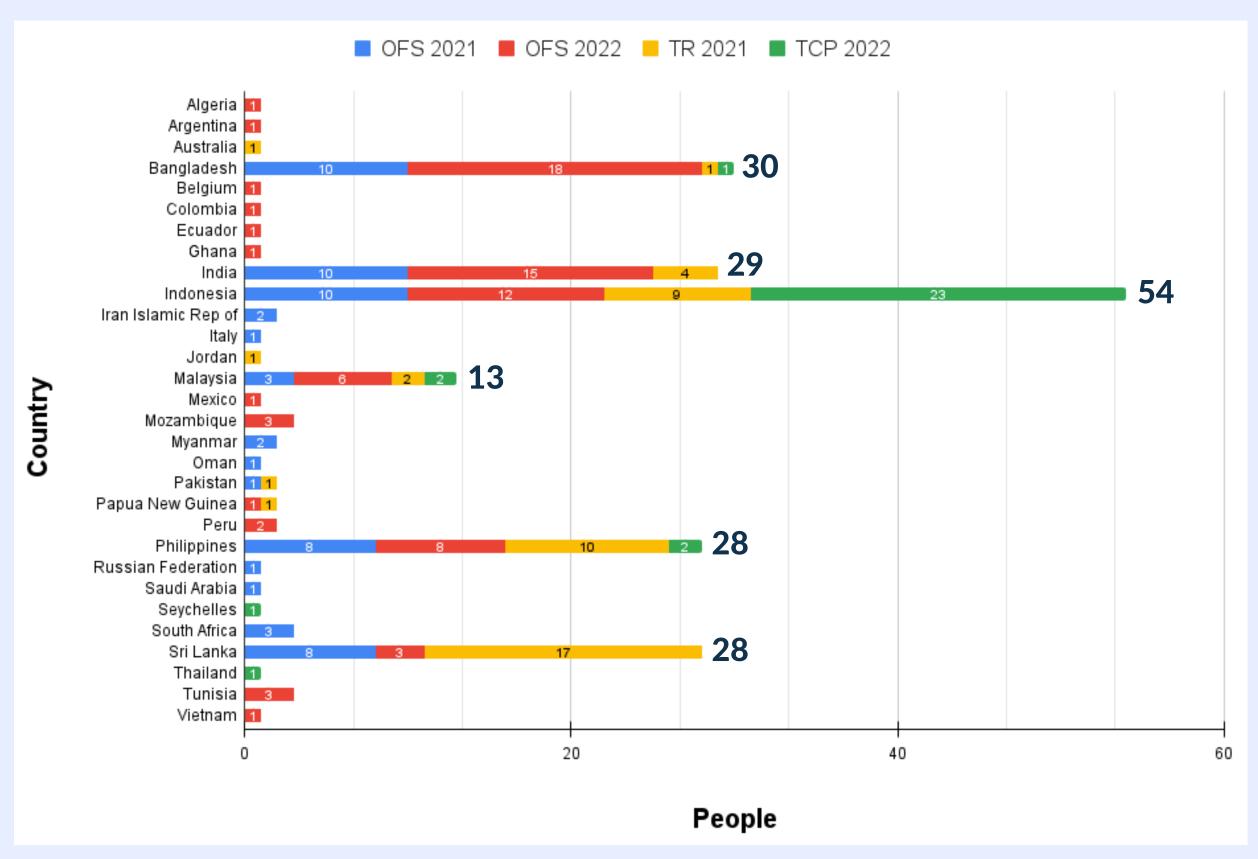






STC OTGA Training - Country Based Participation















OFS Ocean Forecast System Online Training Course - 2021

Period of training:

• 8 August - 20 August 2021(Online)

Goals:

 improve participants' competency in understanding ocean models and their skills to visualize and utilize OFS reanalysis data.

Participants:

• 60 participants from 15 countries (i.e. Bangladesh, India, Indonesia, Iran, Italy, Malaysia, Myanmar, Oman, Pakistan, Peru, Philippines, Rusia, Saudi, South Africa, Srilanka)











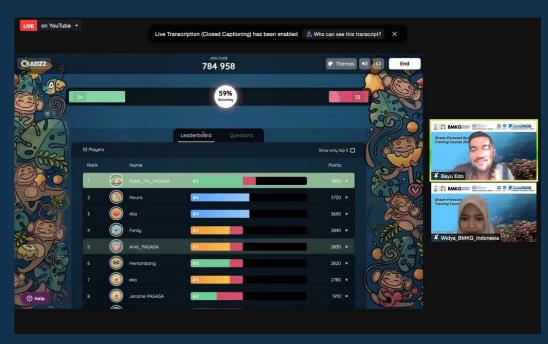


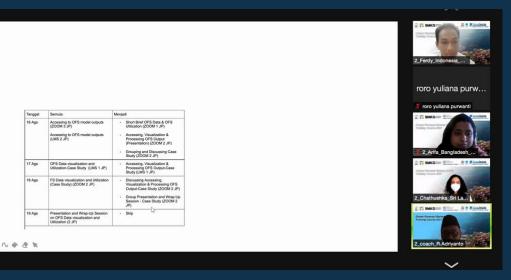


OFS Ocean Forecast System Online Training Course - 2021

LESSON 1	LESSON 2	LESSON 3	LESSON 4	LESSON 5
Marine Meteorology Parameters	Basic Concept of Regional Ocean Wave Model	Accessing to Ocean Forecast modul output	Basic Concepts of Coastal Inundation MOdel (Coastal Inundation Forecasting System)	OFS Data visualization and Utilization

















OFS Coastal Resilience and Disaster Risk Online Training Course - 2022

Period of training:

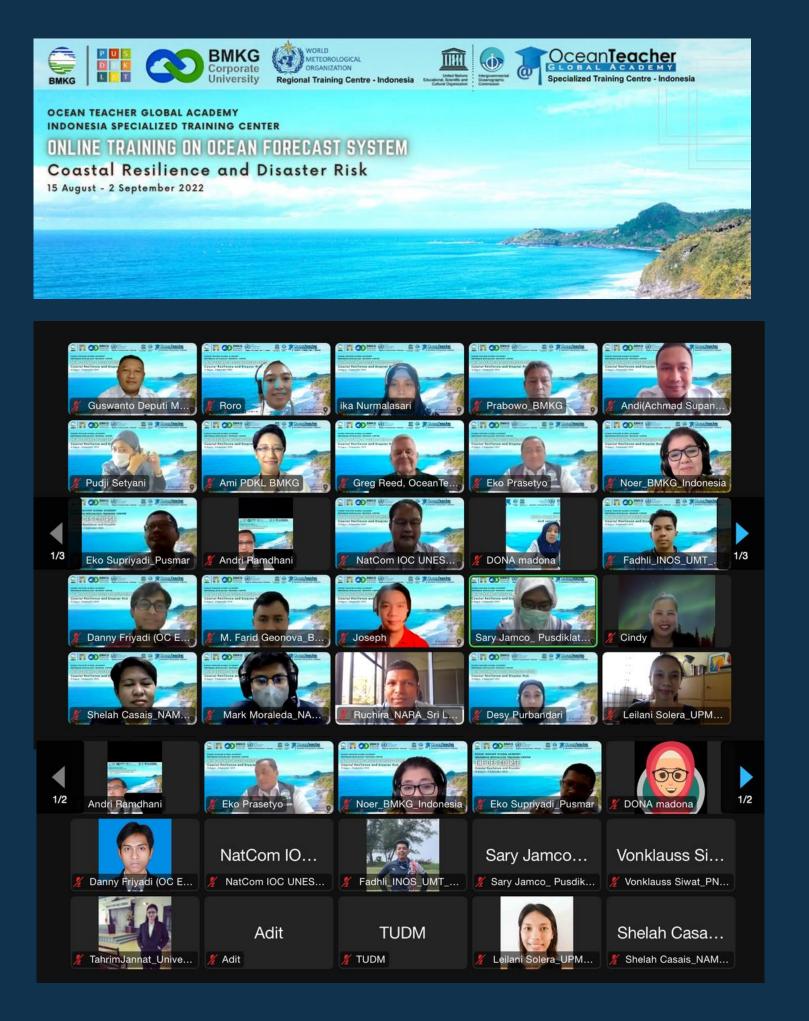
• 15 August - 2 Sept 2022 (Online)

Goals:

 To improve participant's skills in the Ocean Forecast System utilization (such as the model output interpretation, extreme events risk evaluation, and the early warning production for extreme coastal events) to support Coastal Resilience and Disaster Risk Reduction

Participants:

 80 participants from 20 countries (i.e. Algeria, Argentina, Bangladesh, Belgium, Colombia, Equador, Ghana, India, Indonesia, Malaysia, Mexico, Mozambique, PNG, Peru, Philippines, Srilanka, Tunisia, Vietnam













OFS Coastal Resilience and Disaster Risk Online Training Course - 2022

LESSON 1	LESSON 2	LESSON 3	LESSON 4	LESSON 5
The Concept of Coastal Resilienc and Disaster Risk Management (5 Learning Hours	System for Coastal Resilience and	Delft3D Model Pre-processing: (30 Learning hours) consists of: ·tools preparation (30 Learning hours)	Delft3D Model Processing (10 Learning hours)	Post Processing and Analysis (10 Learning hours











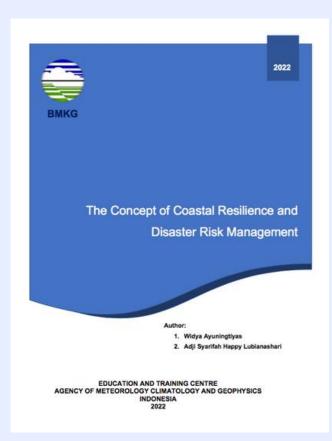




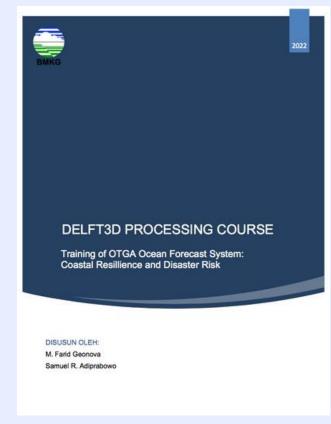
OFS Training (2021 - 2022)

The **Modules**























Period of training:

• 4-11 December 2022 (Classroom) in Citeko and Banten

Goals:

 To improve participant's skills as a leader of the community in preparing people at risk in tsunami-prone areas to get ready for that extreme events

Participants:

• 30 participants from 6 countries (i.e. Bangladesh, Indonesia, Malaysia, The Phillippines, Seychelles, Thailand)



















TCP Tsunami Community Preparedness Training Course - 2022

LESSON 1	LESSON 2	LESSON 3	LESSON 4	LESSON 5
The Overview of Tsunami Community Preparedness	The assessment of the Community at Risk	The preparedness of the Community at Risk	The response of the Community at Risk	The Lesson Learn and Action Plan



















WMO Indonesia Regional Training Centre for RA V **OTGA Indonesia Specialized Training Centre**

UPCOMINGACTIVITIES

Trainings and Workshops

Online Training of Trainer on Satellite-derived Flood Product and Its Implementation on IBF and warning services-- 19 to 23 June 2023/













WMO Training on Satellite Utilization Dedicated for Marine Services (RA-V) -- 27 Nov to 2 Dec 2023

WMO On the Job Training on GHG Monitoring (RA-V) --November/ December 2023 (TBD)





2023



QMS Blended Training QMS

BIP-M Blended Training

AWS Training Assembly and Calibration

AWS Inspection and Calibration

GTS Messaging and Instrument Maintenance









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Summary



- 1. Hosting the Regional Training Center for RA-V WMO and the specialized Training Center for OTGA extends the opportunity to expand the capacity development program, both for national and RA-V Member Countries staff to provide new and better services in weather, climate, and water sensitive sectors
- Partnerships and collaboration with education and training entities and communities worldwide will be strengthened as one of the international commitments of Indonesia











YOU



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