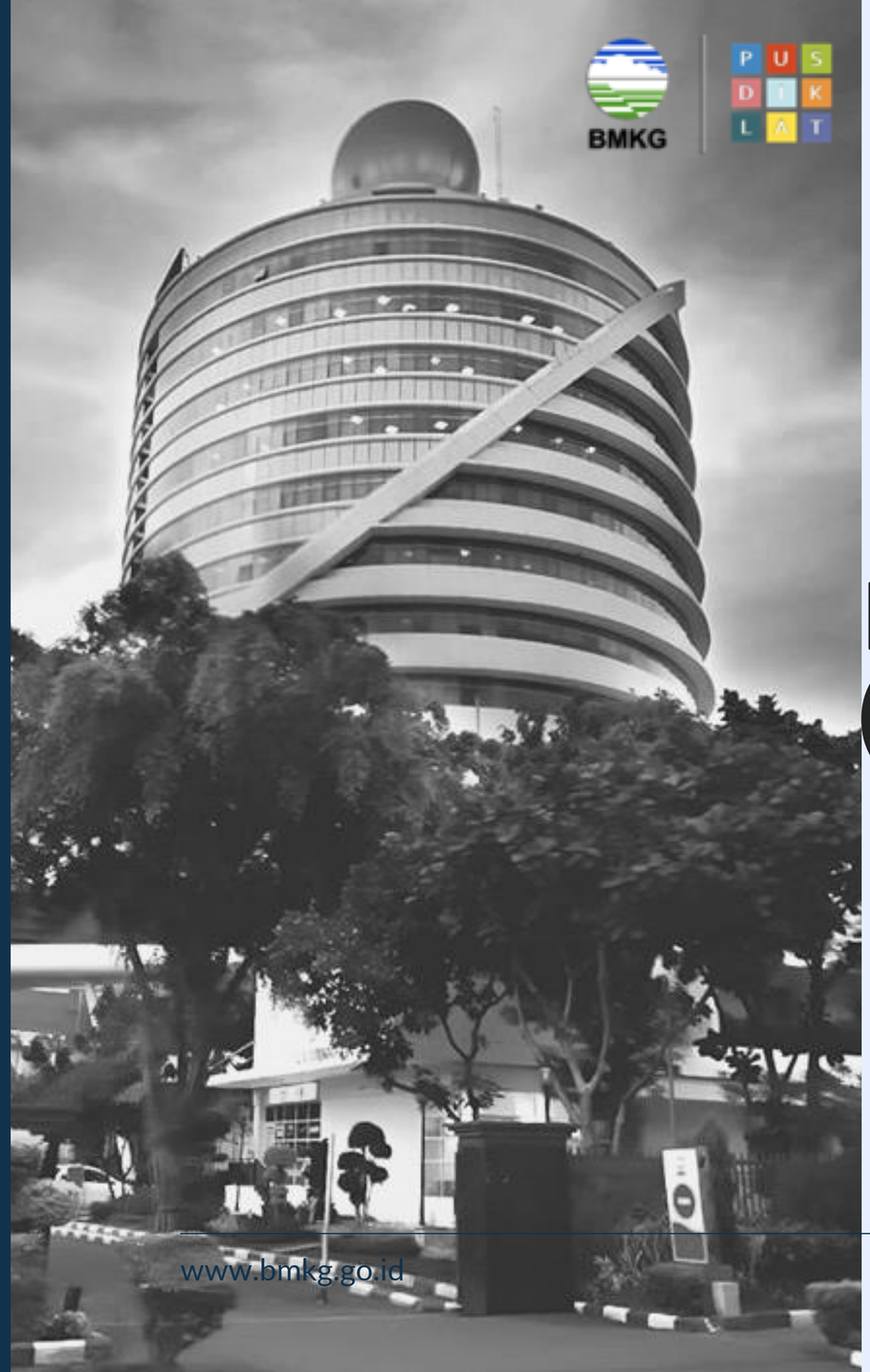

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First Data Buoy Cooperation Panel Mediterranean Training Workshop on Ocean Observations and Data Applications (DBCP-Medi-1)-Part 2

Regional Training Centre (Indonesia)

Program & Activities

Dr. Nelly Florida Riama (Director BMKG Ina-RTC)

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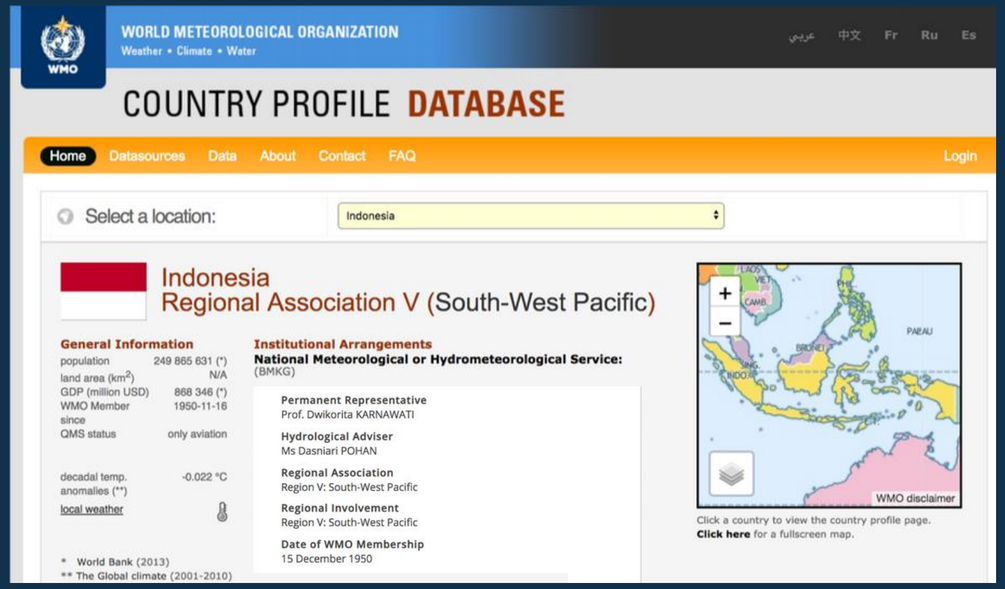

Indonesia RTC Profile

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

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BMKG INDONESIA OTGA SPECIALIZED TRAINING CENTRE

OceanTeacher GLOBAL ACADEMY

http://classroom.oceanteacher.org/

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

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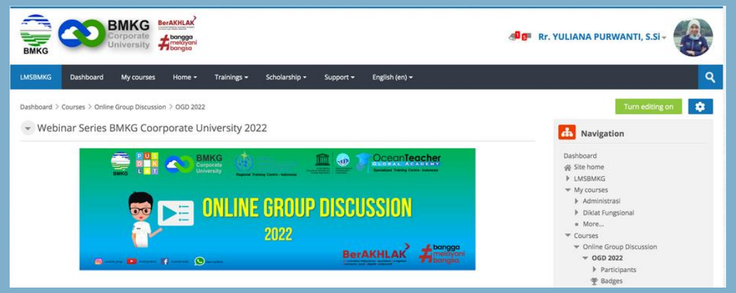
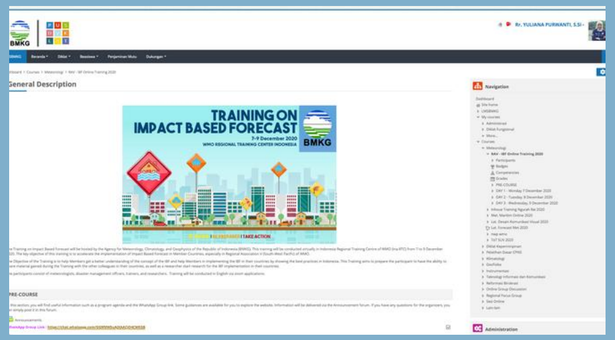
BMKG Online Training Facilities

Asynchronous Sessions

LMSBMKG pusdiklat.bmkg.go.id





Synchronous Sessions

zoom

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BMKG Learning Management System

BMKG Corporate University

BerAKHLAK

#bangga melayani bangsa

ADITYAWARMAN, S SI

LMSBMKG | Dashboard | My courses | Home | Trainings | Scholarship | Support | English (en)

Dashboard > LMSBMKG > My courses

Course overview

All | Search | Sort by last accessed | 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.

0% complete

Navigation

- Dashboard
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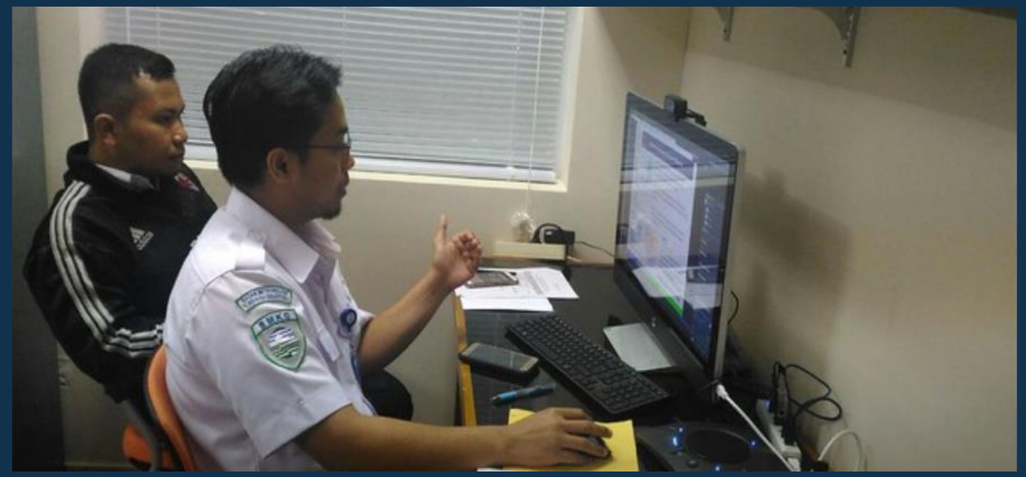

BMKG Online Training Facilities

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BMKG Training Facilities

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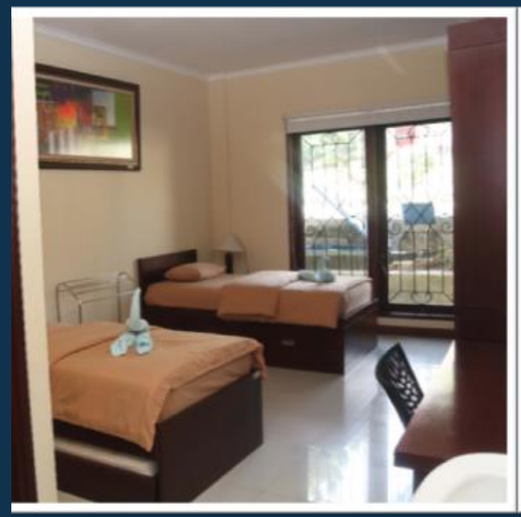

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Face to Face Training Activities

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THE INTERNATIONAL PARTNERS

Area of collaboration:

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

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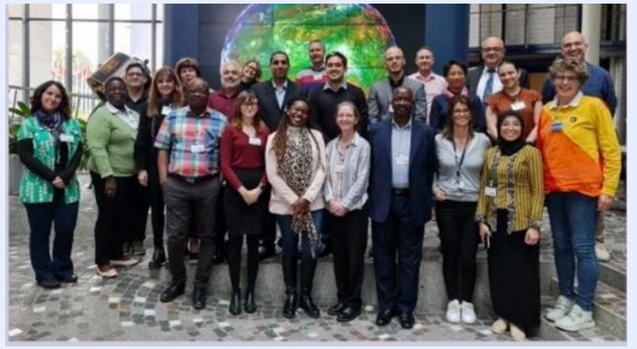
RTC Team International Involvement

- 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 hydro-meteorological Hazards in Timor-Leste
- SOFF Peer Advisor for Timor Leste and Maldives (in collaboration with FMI)



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ADDIE Process

A standard on how we conduct our training

Analysis

Design

Development

Implementation

Evaluation

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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)

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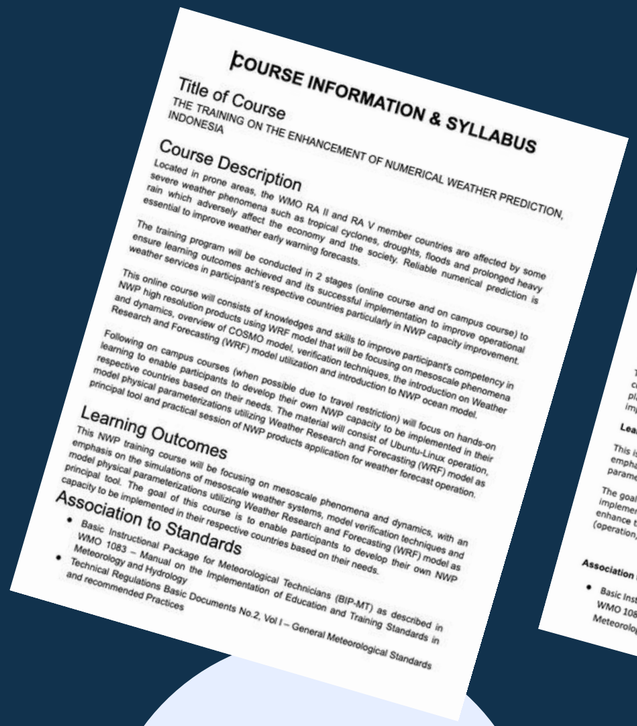
The Training Design



COURSE INFORMATION & SYLLABUS

Title of Course

THE TRAINING ON THE ENHANCEMENT OF NUMERICAL WEATHER PREDICTION, INDONESIA

Course Description

Located in prone areas, the WMO RA II and RA V member countries are affected by some severe weather phenomena such as tropical cyclones, droughts, floods and prolonged heavy rain which adversely affect the economy and the society. Reliable numerical prediction is essential to improve weather early warning forecasts.

The training program will be conducted in 2 stages (online course and on campus course) to ensure learning outcomes achieved and its successful implementation to improve operational weather services in participant's respective countries particularly in NWP capacity improvement.

This online course will consists of knowledges and skills to improve participant's competency in NWP high resolution products using WRF model that will be focusing on mesoscale phenomena and dynamics, overview of COSMO model, verification techniques, the introduction on Weather Research and Forecasting (WRF) model utilization and introduction to NWP ocean model.

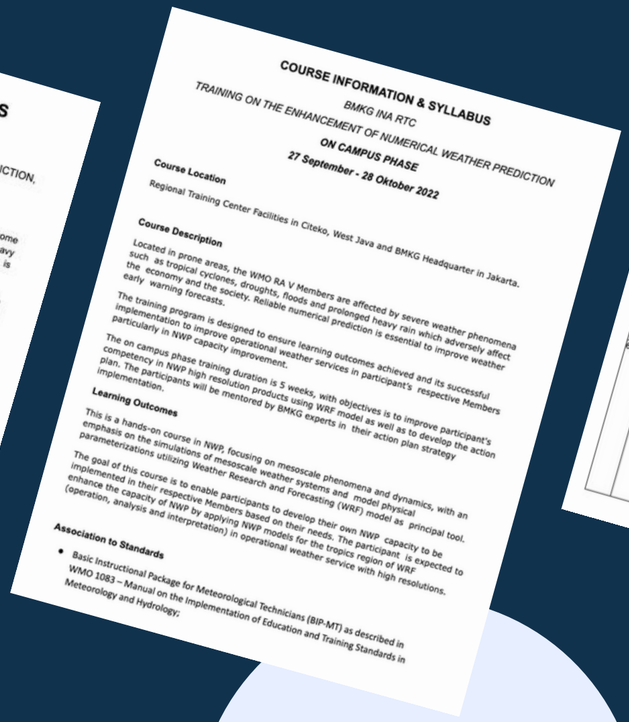
Following on campus courses (when possible due to travel restriction) will focus on hands-on learning to enable participants to develop their own NWP capacity to be implemented in their respective countries based on their needs. The material will consist of Ubuntu-Linux operation, model physical parameterizations utilizing Weather Research and Forecasting (WRF) model as principal tool and practical session of NWP products application for weather forecast operation.

Learning Outcomes

This NWP training course will be focusing on mesoscale phenomena and dynamics, with an emphasis on the simulations of mesoscale weather systems, model verification techniques and model physical parameterizations utilizing Weather Research and Forecasting (WRF) model as principal tool. The goal of this course is to enable participants to develop their own NWP capacity to be implemented in their respective countries based on their needs.

Association to Standards

- Basic Instructional Package for Meteorological Technicians (BIP-MT) as described in WMO 1083 – Manual on the Implementation of Education and Training Standards in Meteorology and Hydrology
- Technical Regulations Basic Documents No.2, Vol I – General Meteorological Standards and recommended Practices



COURSE INFORMATION & SYLLABUS

BMKG INA RTC

TRAINING ON THE ENHANCEMENT OF NUMERICAL WEATHER PREDICTION

ON CAMPUS PHASE

27 September - 28 Oktober 2022

Course Location

Regional Training Center Facilities in Citeko, West Java and BMKG Headquarter in Jakarta.

Course Description

Located in prone areas, the WMO RA V Members are affected by severe weather phenomena such as tropical cyclones, droughts, floods and prolonged heavy rain which adversely affect the economy and the society. Reliable numerical prediction is essential to improve weather early warning forecasts.

The training program is designed to ensure learning outcomes achieved and its successful implementation to improve operational weather services in participant's respective Members particularly in NWP capacity improvement.

The on campus phase training duration is 5 weeks, with objectives is to improve participant's competency in NWP high resolution products using WRF model as well as to develop the action plan. The participants will be mentored by BMKG experts in their action plan strategy implementation.

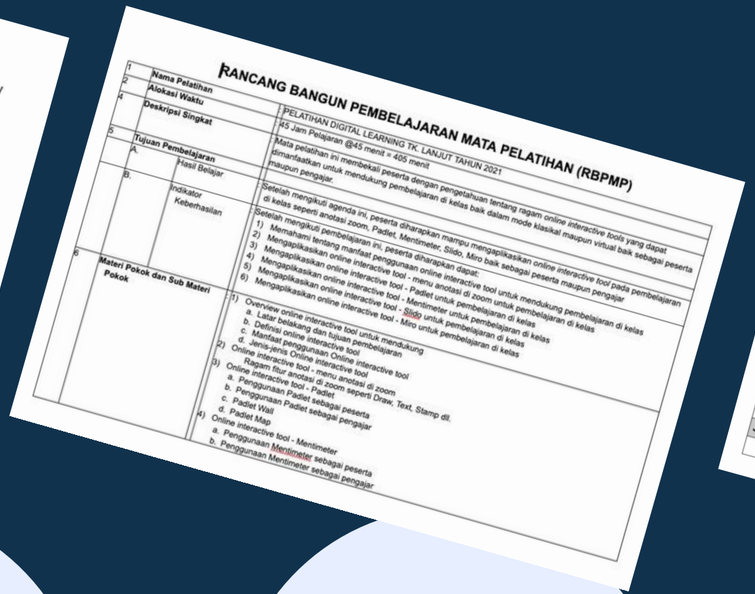
Learning Outcomes

This is a hands-on course in NWP, focusing on mesoscale phenomena and dynamics, with an emphasis on the simulations of mesoscale weather systems and model physical parameterizations utilizing Weather Research and Forecasting (WRF) model as principal tool.

The goal of this course is to enable participants to develop their own NWP capacity to be implemented in their respective Members based on their needs. The participant is expected to enhance the capacity of NWP by applying NWP models for the tropics region of WRF (operation, analysis and interpretation) in operational weather service with high resolutions.

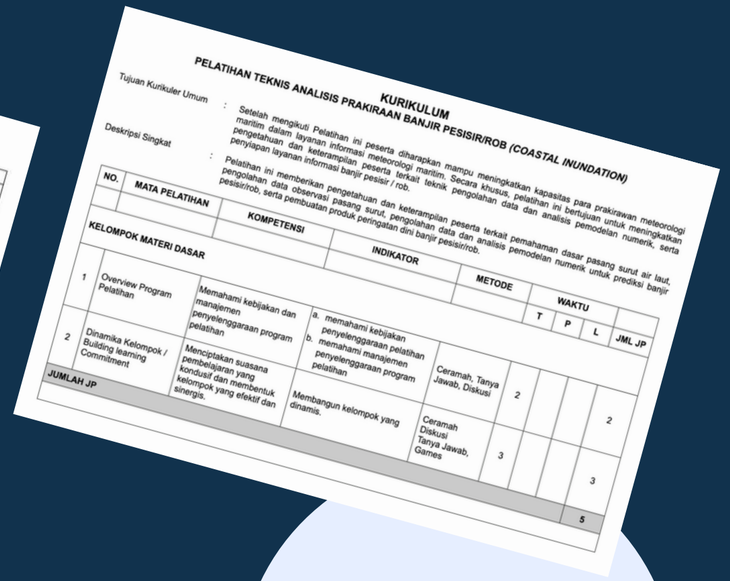
Association to Standards

- Basic Instructional Package for Meteorological Technicians (BIP-MT) as described in WMO 1083 – Manual on the Implementation of Education and Training Standards in Meteorology and Hydrology.



RANCANG BANGUN PEMBELAJARAN MATA PELATIHAN (RBPMP)

1	Nama Pelatihan	PELATIHAN DIGITAL LEARNING TK. LANJUT TAHUN 2021
2	Alokasi Waktu	45 Jam Pelajaran @45 menit = 405 menit
4	Deskripsi Singkat	Mata pelatihan ini membekali peserta dengan pengetahuan tentang ragam online interactive tools yang dapat dimanfaatkan untuk mendukung pembelajaran di kelas baik dalam mode klasikal maupun virtual baik sebagai peserta maupun pengajar.
5	Tujuan Pembelajaran	
	A.	Setelah mengikuti agenda ini, peserta diharapkan mampu mengaplikasikan online interactive tool pada pembelajaran di kelas seperti anotasi zoom, Padlet, Mentimeter, Slido, Miro baik sebagai peserta maupun pengajar
	B	
	Indikator Ketercapaian	Setelah mengikuti pembelajaran ini, peserta diharapkan dapat: 1) Memahami tentang manfaat penggunaan online interactive tool untuk mendukung pembelajaran di kelas 2) Mengaplikasikan online interactive tool - menu anotasi di zoom untuk pembelajaran di kelas 3) Mengaplikasikan online interactive tool - Padlet untuk pembelajaran di kelas 4) Mengaplikasikan online interactive tool - Mentimeter untuk pembelajaran di kelas 5) Mengaplikasikan online interactive tool - Slido untuk pembelajaran di kelas 6) Mengaplikasikan online interactive tool - Miro untuk pembelajaran di kelas
6	Materi Pokok dan Sub Materi Pokok	1) Overview online interactive tool untuk mendukung a. Latar belakang dan tujuan pembelajaran b. Definisi online interactive tool c. Manfaat online interactive tool d. Jenis-jenis Online interactive tool 2) Online interactive tool - menu anotasi di zoom a. Ragam fitur anotasi di zoom seperti Draw, Text, Stamp dll. b. Penggunaan Padlet sebagai peserta c. Penggunaan Padlet sebagai pengajar d. Padlet Wall e. Padlet Map 3) Online interactive tool - Mentimeter a. Penggunaan Mentimeter sebagai peserta b. Penggunaan Mentimeter sebagai pengajar



KURIKULUM

PELATIHAN TEKNIS ANALISIS PRAKIRAAN BANJIR PESISIR/ROB *(COASTAL INUNDATION)*

Tujuan Kurikuler Umum : Setelah mengikuti Pelatihan ini peserta diharapkan mampu meningkatkan kapasitas para prakirawan meteorologi maritim dalam layanan informasi meteorologi maritim. Secara khusus, pelatihan ini bertujuan untuk meningkatkan pengetahuan dan keterampilan peserta terkait teknik pengolahan data dan analisis pemodelan numerik, serta penyiapan layanan informasi banjir pesisir / rob.

Deskripsi Singkat : Pelatihan ini memberikan pengetahuan dan keterampilan peserta terkait pemahaman dasar pasang surut air laut, pengolahan data observasi pasang surut, pengolahan data dan analisis pemodelan numerik untuk prediksi banjir pesisir/rob, serta pembuatan produk peringatan dini banjir pesisir/rob.

NO.	MATA PELATIHAN / KOMPETENSI / INDIKATOR	METODE	WAKTU T	WAKTU P	WAKTU L	WAKTU JML JP
KELOMPOK MATERI DASAR						
1	Overview Program Pelatihan Memahami kebijakan dan manajemen penyelenggaraan program pelatihan	a. memahami kebijakan penyelenggaraan pelatihan b. memahami manajemen penyelenggaraan program pelatihan	Ceramah, Tanya Jawab, Diskusi	2			2
2	Dinamika Kelompok / Building learning Commitment Menciptakan suasana pembelajaran yang kondusif dan membentuk kelompok yang efektif dan sinergis.	Membangun kelompok yang dinamis.	Ceramah Diskusi Tanya Jawab, Games	3			3
JUMLAH JP							5

Training Development Plan

Guidelines

Curricula

Lesson Plan

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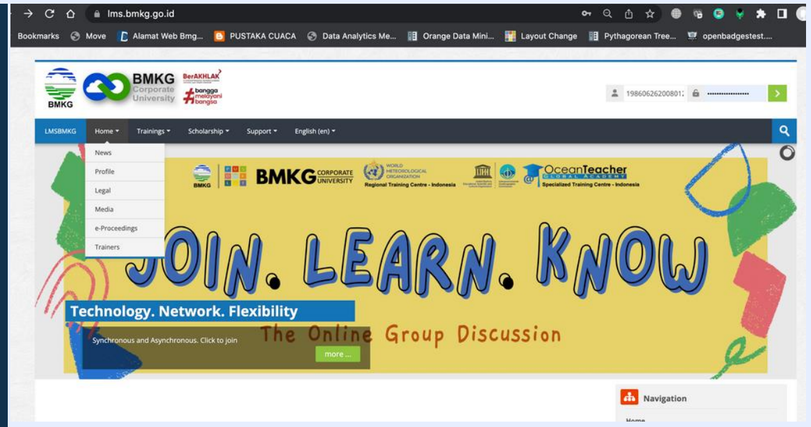
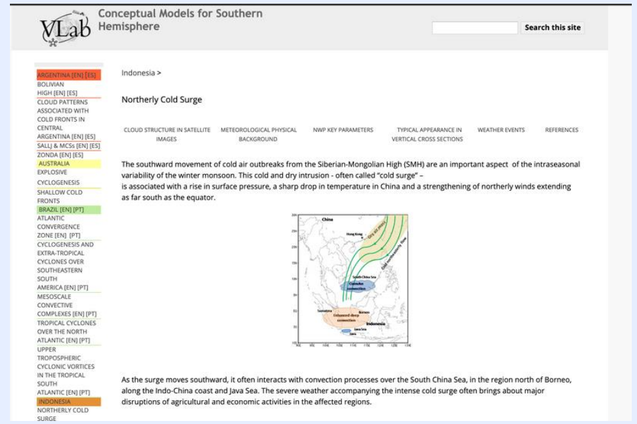
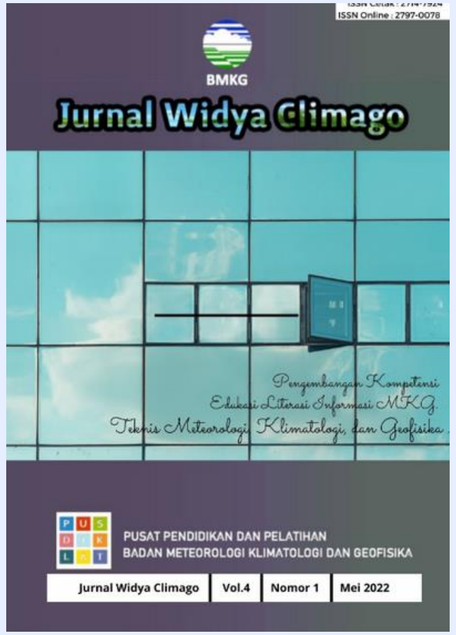
Learning Development

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







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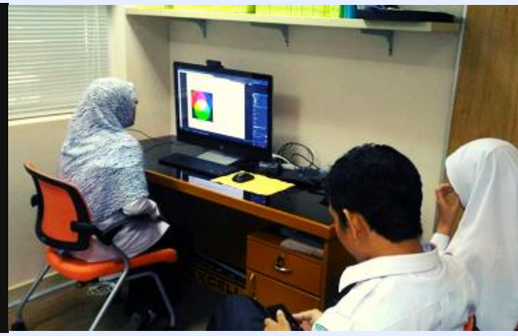
Learning Implementation

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



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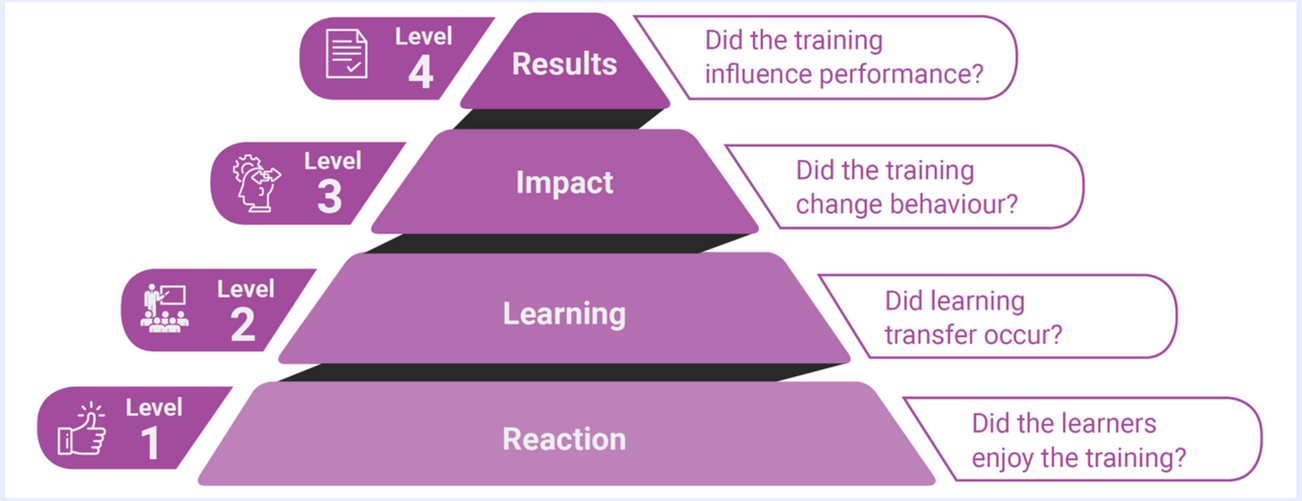
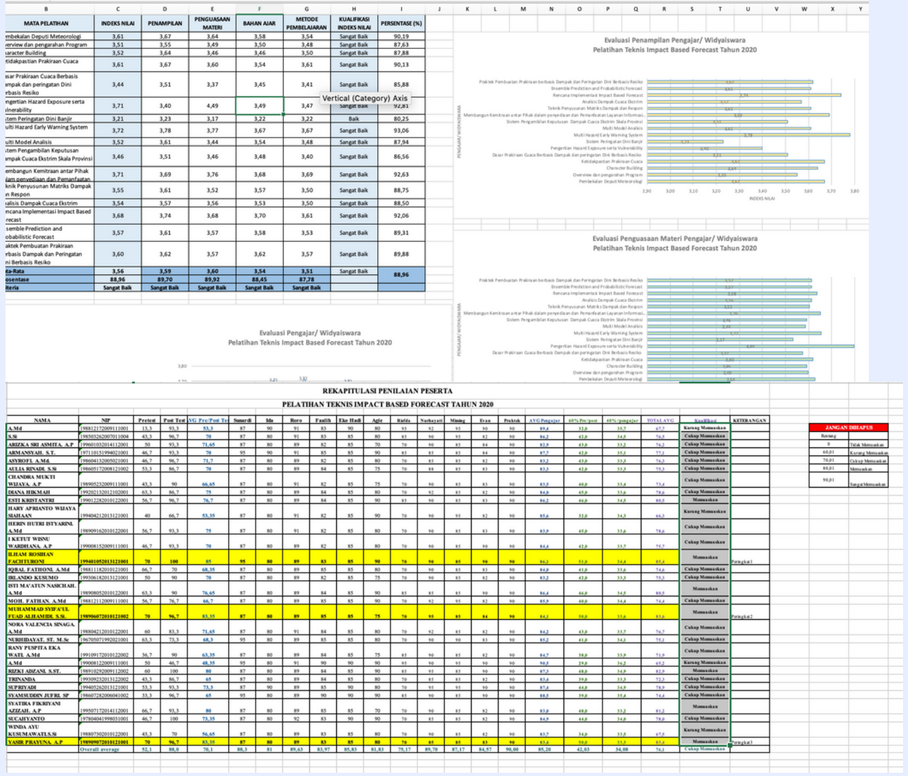
Learning Evaluation

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)

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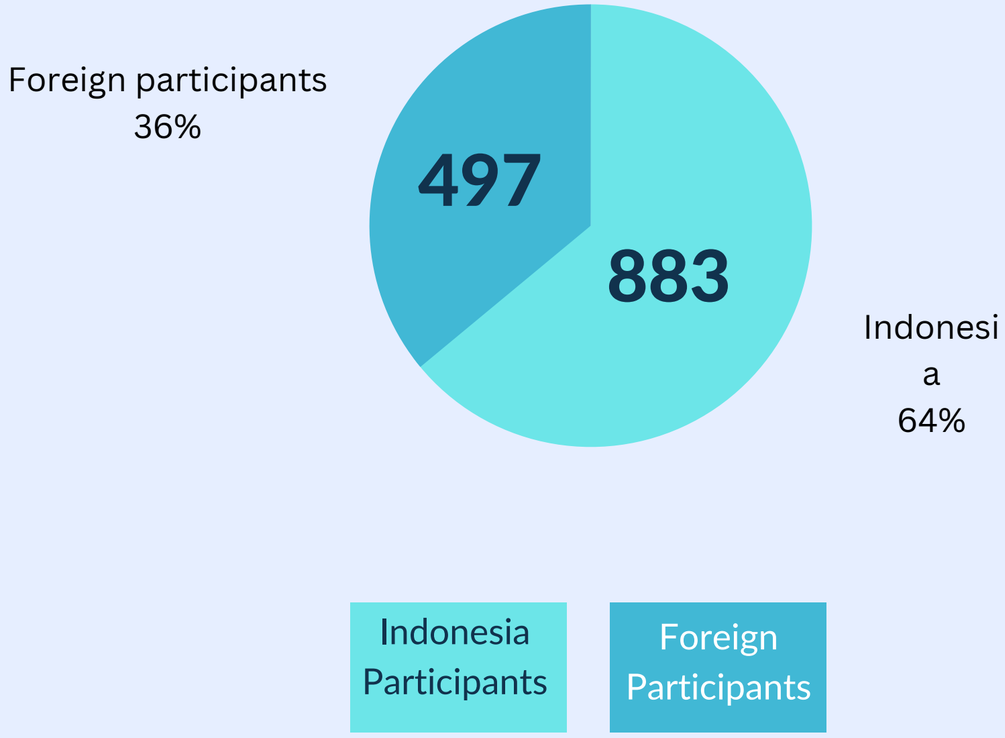
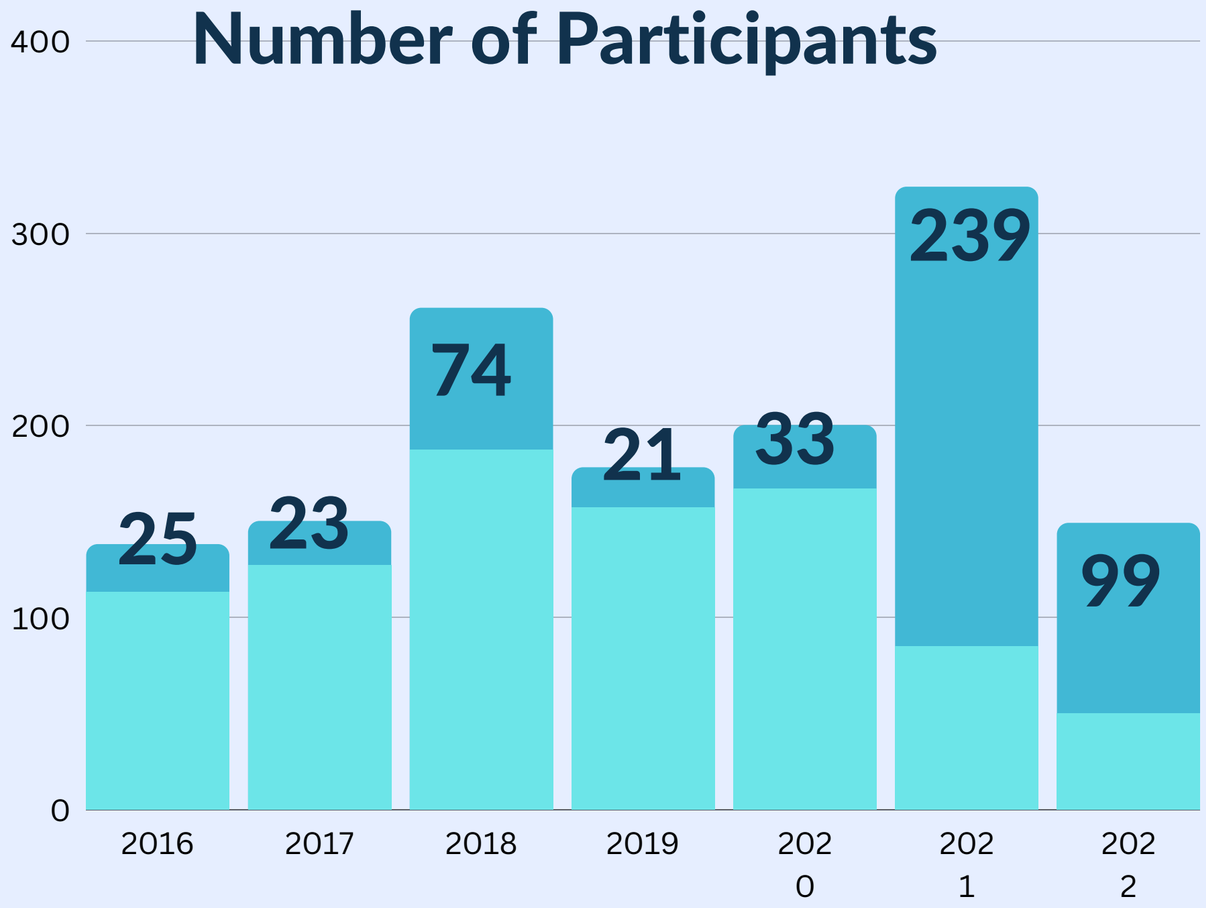
Training at Ina RTC-Meteorology (2016 - 2022)





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NWP 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

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NWP Training for RA-V (2021/ 2022)

The Training Content

Online Phase

1. 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
7. Introduction to HPC (High Performance Computing Unit)
8. 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

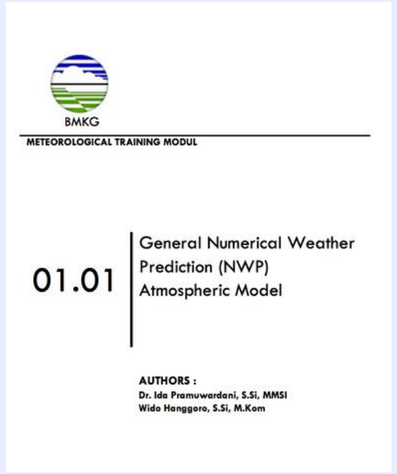
On Campus Phase

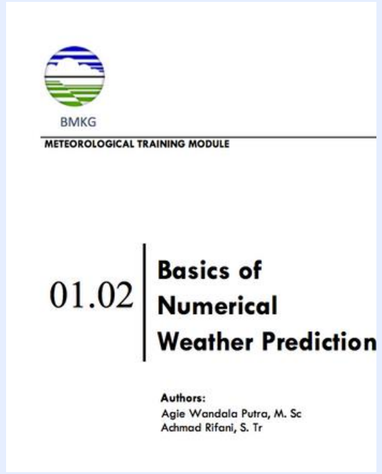
1. Ubuntu Linux System Operation
2. Weather Research and Forecasting (WRF) Model
3. Post Processing Application and Visualization
4. WRF Simulation in High Performance Computing (HPC)
5. Advance WRF Model
6. Application on NWP Products in BMKG Daily Weather Forecast

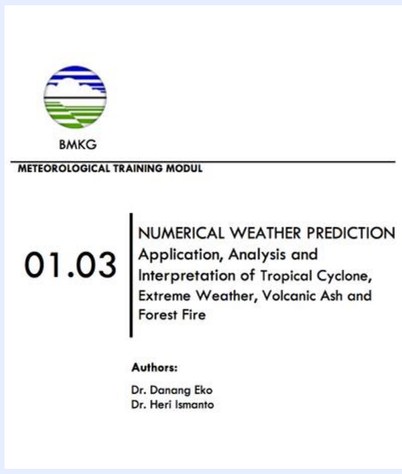
	Objectives	Activities	Output
1st Phase	Improve the capability of NWP high resolution products using WRF model for meteorological services Develop action plan (under mentor supervision of BMKG experts)	5 weeks training course with major learning activities of lectures, discussions, case studies, collaborative decision making, exercise, project report and action plan	Action Plan
2nd 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
3rd 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.

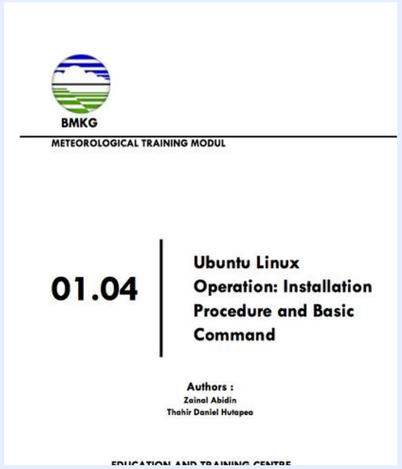
NWP Training for RA-V (2021/ 2022)

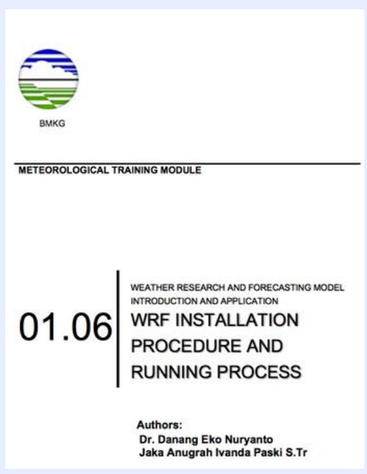
The Modules

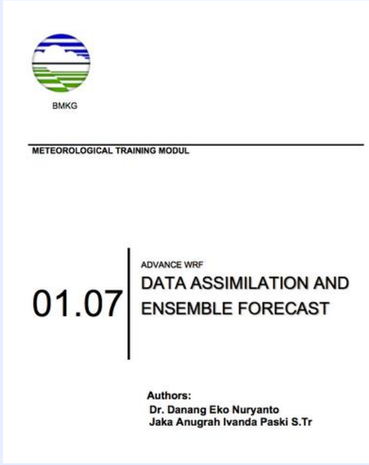


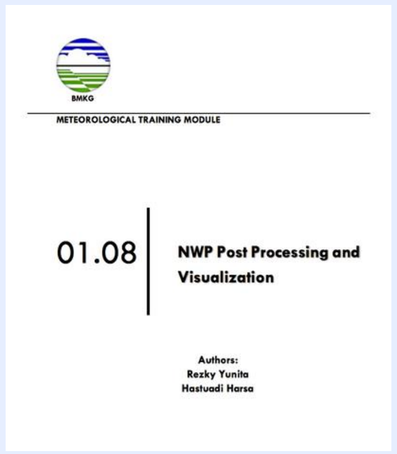


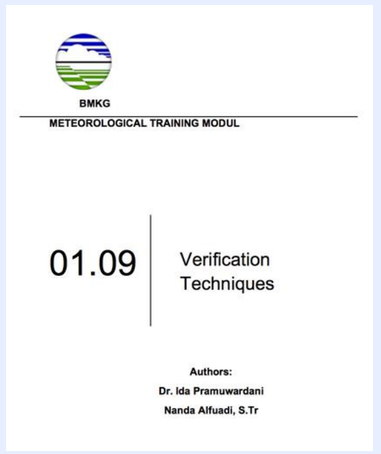


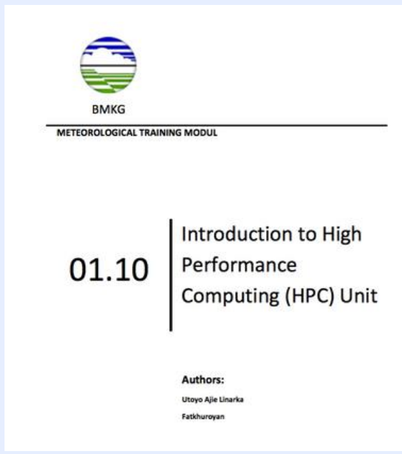


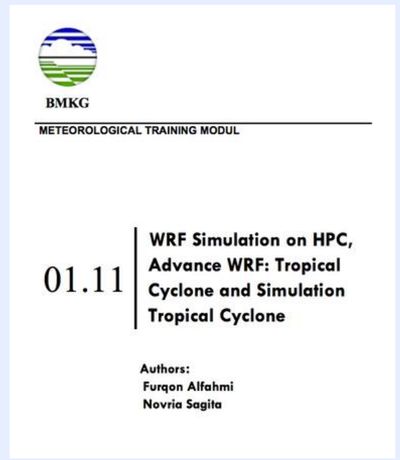


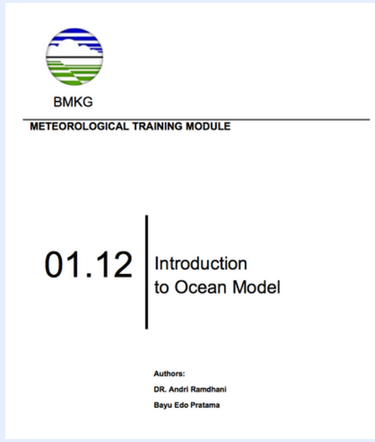












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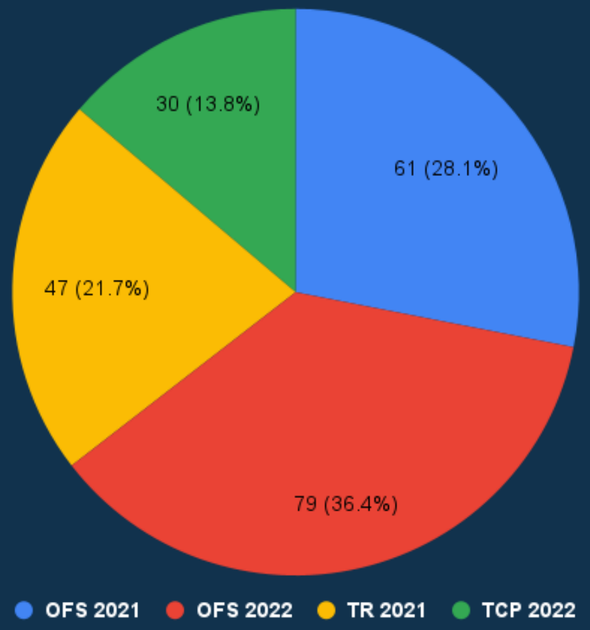
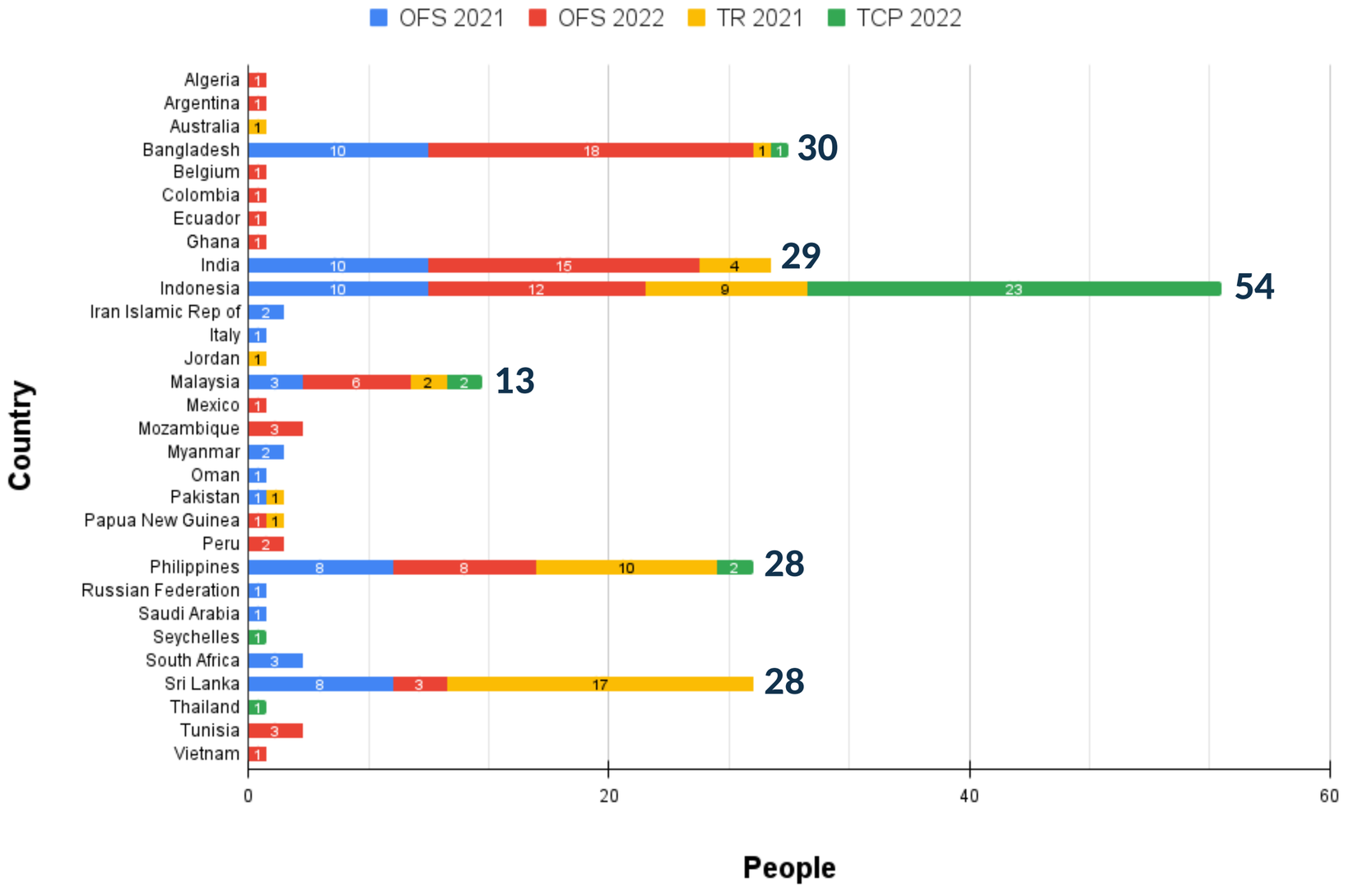
STC OTGA Training - *Country Based Participation*



The Result of OTGA Course Design Rubric Based Participation (> 80%)

85%

Good



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OFS Ocean Forecast System Online Training Course - 2021

Period of training:

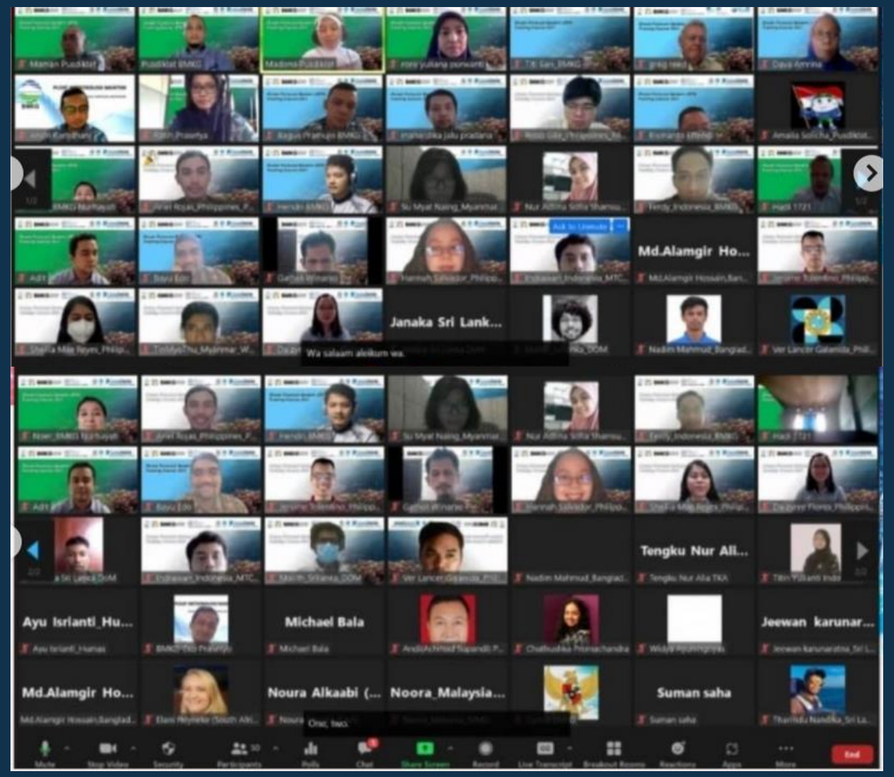
- 8 August – 20 August 2021 (Online)

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)



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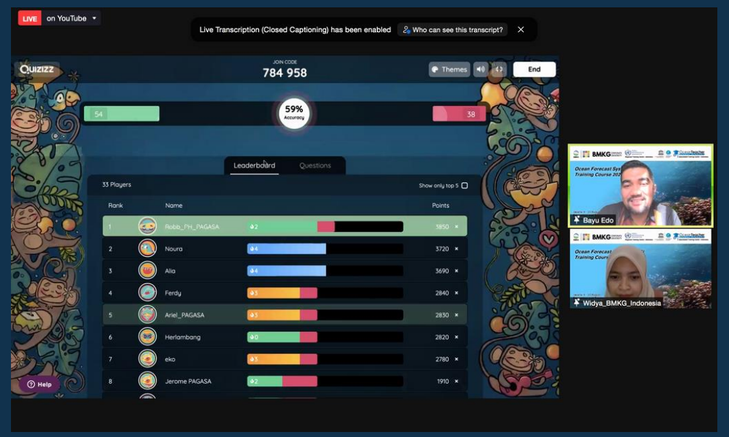
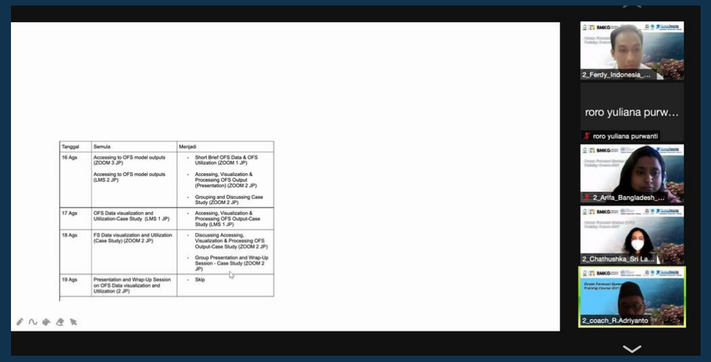
OFS Ocean Forecast System Online Training Course - 2021

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





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OFS Coastal Resilience and Disaster Risk Online Training Course - 2022

Period of training:

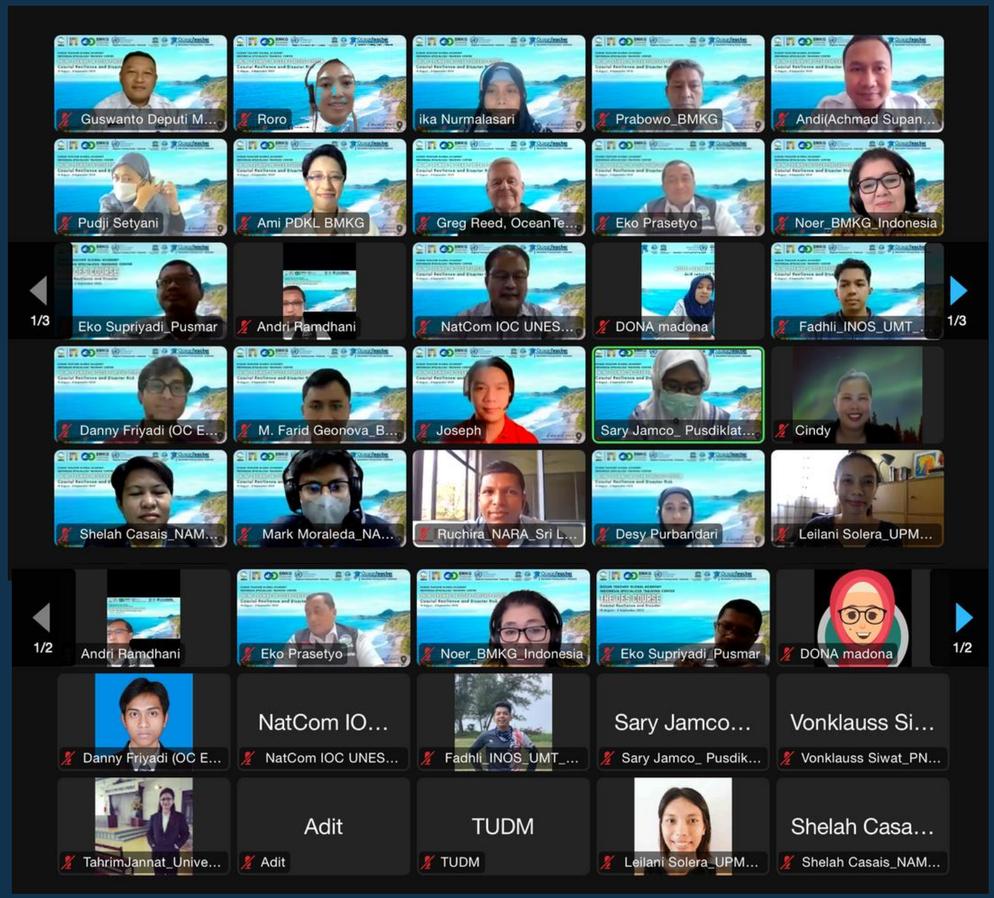
- 15 August - 2 Sept 2022 (Online)

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



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OFS Coastal Resilience and Disaster Risk Online Training Course - 2022

LESSON 1	LESSON 2	LESSON 3	LESSON 4	LESSON 5
The Concept of Coastal Resilience and Disaster Risk Management (5 Learning Hours)	The Overview of Ocean Forecast System for Coastal Resilience and Disaster Risk Reduction (5 Learning Hours)	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

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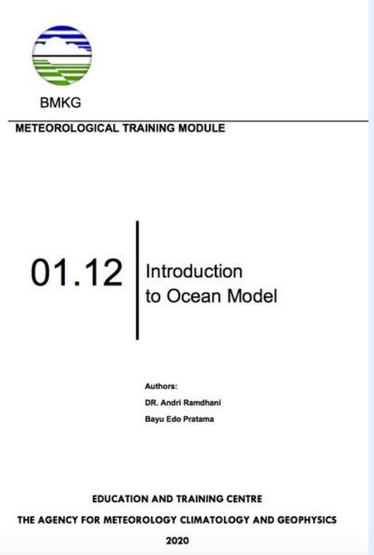
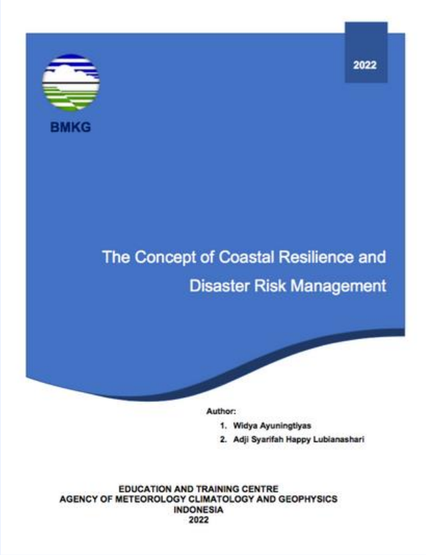
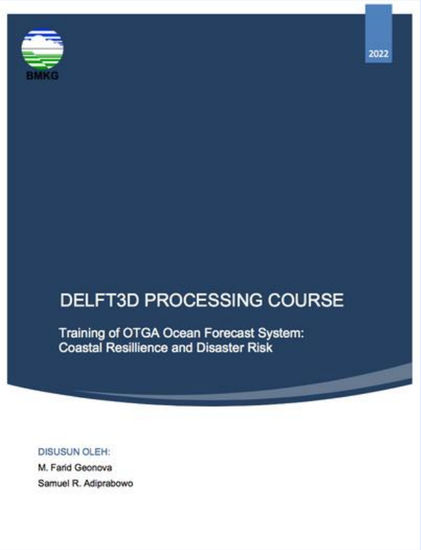
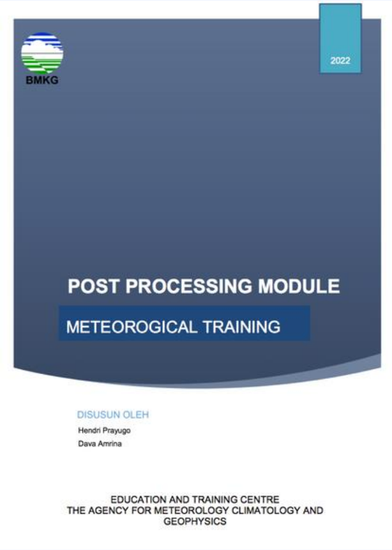
OFS Training (2021 - 2022)

The Modules









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TCP Tsunami Community Preparedness Training Course - 2022

Period of training:

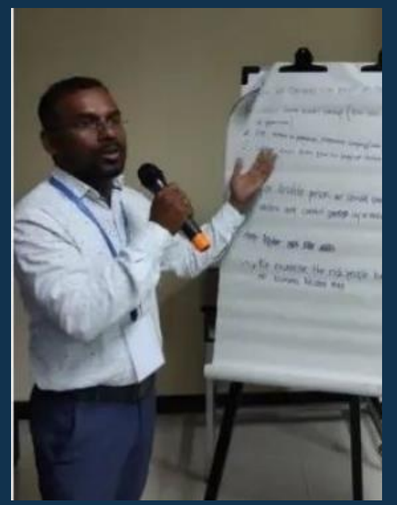
- 4 -11 December 2022 (Classroom) in Citeko and Banten

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)



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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

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

UPCOMING ACTIVITIES

Trainings and Workshops

2023

- Online Training of Trainer on Satellite-derived Flood Product and Its Implementation on IBF and warning services-- 19 to 23 June 2023
- Online Training on Data Configuration for Ocean Forecast System Implementation (OTGA) -- 26 June to 8 July 2023
- Training Course on Climate Change for Disaster Risk Reduction (NAM CSS TC*) -- 10 to 18 July 2023
- Training Course on Climate Sectoral (Colombo Plan & South-South Cooperation) -- 1 to 18 July 2023
- WMO Development of Competency in Weather Forecasting Course (RA-V) -- 1 to 25 August 2023
- Online Training on Fishermen Weather Field School (OTGA) -- 21 to 31 August 2023
- WMO Training on WIS 2.0 Implementation (RA-V) -- 8 to 15 October 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)

BMKG - UNEP Specific Trainings for Timor Leste

- QMS Blended Training QMS
- BIP-M Blended Training
- AWS Training Assembly and Calibration
- AWS Inspection and Calibration
- GTS Messaging and Instrument Maintenance

Contact:

pusdiklat@bmkg.go.id;
apply.rtcbmkg@bmkg.go.id

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

2. Partnerships and collaboration with education and training entities and communities worldwide will be strengthened as one of the international commitments of Indonesia

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