



Training for Trainers
Tsunami Evacuation Maps, Plans, and Procedures
Indian Ocean Tsunami Information Centre Capacity Building / Training Programme
IOC UNESCO - BMKG IOTIC Programme Office
13-23 November 2017

12-Nov-17 Day 1 Sunday	13-Nov-17 Day 2 Monday	14-Nov-17 Day 3 Tuesday	15-Nov-17 Day 4 Wednesday	16-Nov-17 Day 5 Thursday	17-Nov-17 Day 6 Friday	18-Nov-17 Day 7 Saturday
Arrival of Participants and Trainers	Opening Session	Session 1: Tsunami Inundation Modeling		Session 2: Inundation Mapping for Evacuation		Free Time (A Sight seeing tour will be organized)
19-Nov-17 Day 8 Sunday	20-Nov-17 Day 9 Monday	21-Nov-17 Day 10 Tuesday	22-Nov-17 Day 11 Wednesday	23-Nov-17 Day 12 Thursday	24-Nov-17 Day 13 Friday	25-Nov-17 Day 14 Saturday
Free Time (A Sight seeing tour will be organized)	Session 3: Evacuation Mapping, Plans, Route, Signage and Tsunami Public Information		Session 4: Evacuation Response Plan, SOP, and Exercise Planning		Wrap Up and Implementation Plan and Closing	Participants and Trainers Departure



IOTIC- BMKG Indian Ocean Capacity Building (IO-CAP) 2017

Training for Trainers

Tsunami Evacuation Maps, Plans, and Procedures

Citeko, Indonesia, 13-24 November 2017

Session 1: Tsunami Inundation Modeling

The first session 13-15 November 2017 will cover tsunami modeling for flood mapping. Topics covered will include tectonic plates, tsunami science, bathymetric and topography charts, seismic source parameters, forecasting methodology, tsunami modeling, threat assessment tsunamis and the use of the MOST model and the ComMIT tool.

Time (min)	Start	End	Tentative Agenda	Methodology	Speakers / Resource Person (Moderator)
Day 1: Sunday, 12 November 2017					
360	6:00	12:00	Arrival of Participants		
60	12:00	13:00	LUNCH for those who already arrived		
360	13:00	19:00	Arrival of Participants		
60	19:00	20:00	DINNER and End of Day 1		
Day 2: Monday, 13 November 2017					
Session 1: Tsunami Inundation Modeling					
Opening of TEMPP Training					
30	7:30	8:00	Registration		
5	08:00	8:05	Welcoming Remarks of the Head of Indian Ocean Tsunami Information Centre	Speech	Ardito M Kodijat
5	08:05	8:10	Welcoming Remarks of the Chair of ICG/IOTWMS,	Speech	Dr. Andi Eka Sakya (TBC)
5	8:10	8:15	Welcoming Remarks of Director and Representatives of UNESCO Office, Jakarta	Speech	Prof. Shahbaz Khan (TBC)
5	8:15	8:20	Welcoming Remarks of the Head of Indian Ocean Tsunami Information Centre	Speech	Prof. Arief Rahman (TBC)
10	8:20	8:30	Welcoming and Opening Remarks of the Head of BMKG	Speech	Dr. Widada Sulisty (TBC)
10	8:30	8:40	Group Photo	Group Activity	Organizer
60	8:40	9:40	Introduction to the Training Programme and Participants: Goals, Timeline, and activities	Presentation	Organizer
30	9:40	10:10	COFFEE BREAK		
Understanding the Risk					
45	10:10	10:55	Introduction to Indian Ocean Tsunami Ready Indicators	Presentations	Ardito M Kodijat
45	10:55	11:40	Earthquake and Tsunami Hazards in Indian Ocean	Presentations	Srinivas K Tummala
45	11:40	12:25	Risk Assessment: Probabilistic vs Deterministic (Scenario based) Tsunami Hazard Assessment	Presentations	Christopher Moore and Laura Kong
30	12:25	12:55	LUNCH BREAK		
45	12:55	13:40	Tsunami Science and the Use of Modeling for Mitigation	Presentations	Christopher Moore and Laura Kong
Introduction to Tsunami Modeling					

30	13:40	14:10	Seismic sources of tsunamis	Presentations	Christopher Moore and Laura Kong
45	14:10	14:55	Modeling of Tsunami	Presentations	Christopher Moore and Laura Kong
30	14:55	15:25	COFFEE BREAK		
45	15:25	16:10	Bathymetry and Topography for Tsunami Modeling	Presentations	Christopher Moore and Laura Kong
90	16:10	17:40	InaRisk: Indonesia Hazards and Risk Information and Data Source (Tsunami)	Presentations	Ridwan Yunus (BNPB)
110	17:40	19:30	PRAYER BREAK and DINNER		
60	19:30	20:30	Download and Install ComMIT: Practical session	Discussions	Christopher Moore and Laura Kong
	20:30	20:30	End of Day 2		

Time (min)	Start	End	Tentative Agenda		Tentative Resource Person
Day 3: Tuesday, 14 September 2017					
15	7:45	8:00	Registration		
30	8:00	8:30	General Discussion on Tsunami Sources for ComMIT Modeling	Discussions	Christopher Moore and Laura Kong
45	8:30	9:15	Forecasting Methodology - MOST model and ComMIT interface	Presentations	Christopher Moore and Laura Kong
Tsunami Modeling Exercise base on Country Case (Hands on Exercise)					
60	9:15	10:15	Tsunami Modeling using ComMIT	Presentations	Christopher Moore and Laura Kong
30	10:15	10:45	COFFEE BREAK		
60	10:45	11:45	Reference and creation of a SIM	Hands on Exercise	Christopher Moore and Laura Kong
45	10:45	11:30	Threat Assessment using Modeling	Hands on Exercise	Christopher Moore and Laura Kong
60	11:30	12:30	Threat Assessment Exercise	Hands on Exercise	Participants
60	12:30	13:30	LUNCH BREAK		
120	13:30	15:30	Threat Assessment Exercise (continued)	Hands on Exercise	Participants
30	15:30	16:00	COFFEE BREAK		
90	16:00	17:30	Threat Assessment Products	Hands on Exercise	Participants
90	17:30	19:00	PRAYER BREAK, DINNER and End of Day 3		

Time (min)	Start	End	Tentative Agenda		Tentative Resource Person
Day 4: Wednesday 15 November 2017					
15	7:45	8:00	Registration		
120	8:00	10:00	Threat Assessment Exercise	Hands on Exercise	Participants
30	10:00	10:30	COFFEE BREAK		
90	10:30	12:00	Threat Assessment Exercise (Finalization for Presentation)	Hands on Exercise	Participants
60	12:00	13:00	LUNCH BREAK		
120	13:00	15:00	Threat Assessment Exercise: Country Presentations	Group Presentations	Participants
30	15:00	15:30	COFFEE BREAK		
90	15:30	17:00	Threat Assessment Exercise: Country Presentations (Continued)	Group Presentations	Participants
45	17:00	17:45	Summary, and follow ups	Discussions	
90	17:45	19:15	PRAYER BREAK, DINNER and End of Day 4		



IOTIC- BMKG Indian Ocean Capacity Building (IO-CAP) 2017

Training for Trainers

Tsunami Evacuation Maps, Plans, and Procedures

Citeko, Indonesia, 13-24 November 2017

Session 2: Inundation Mapping for Evacuation

The second session, 16-17 November 2017, will cover tsunami modeling for flood mapping. Topics covered will include tectonic plates, tsunami science, bathymetric and topography charts, seismic source parameters, forecasting methodology, tsunami modeling, threat assessment tsunamis and the use of the MOST model and the ComMIT tool.

Time (min)	Start	End	Tentative Agenda		Speakers / Resource Person (Moderator)
Day 5: Thursday, 16 November 2017					
Session 2: Tsunami Inundation Map Development					
Introduction to Tsunami Inundation Map					
15	7:45	8:00	Registration		
45	8:00	8:45	Understanding Tsunami Inundation	Presentation	Christopher Moore and Laura Kong
45	8:45	9:30	Overview of Tsunami Evacuation Planning	Presentation	Ardito M Kodijat
45	9:30	10:15	Introduction to Inundation and Hazard Map	Presentation	Christopher Moore and Laura Kong
30	10:15	10:45	COFFEE BREAK		
90	10:45	12:15	Running Custom Propagaion Source in ComMIT	Hands on Exercise	Participants
60	12:15	13:15	LUNCH BREAK		
120	13:15	15:15	Creating Composite Inundation Map	Hands on Exercise	Participants
30	15:15	15:45	COFFEE BREAK		
90	15:45	17:15	Exporting Inundation and Maximum Wave Ampliture to GIS Format	Hands on Exercise	Participants
120	17:15	19:15	PRAYER BREAK, DINNER and End of Day 5		
Time (min)	Start	End	Tentative Agenda		Tentative Resource Person
Day 6: Friday, 17 September 2017					
15	7:45	8:00	Registration		
60	8:00	9:00	QGIS validation of result, basic inundatin map making	Hands on Exercise	Participants
90	9:00	10:30	Refining and finalizing Inundation Map	Hands on Exercise	Participants
30	10:30	11:00	COFFEE BREAK		
60	11:00	12:00	Refining and finalizing Inundation Map (continue)	Hands on Exercise	Participants
60	12:00	13:00	LUNCH BREAK		
60	13:00	14:00	Refining and finalizing Inundation Map (continue)	Hands on Exercise	Participants
60	14:00	15:00	Presentation of Inundation Map	Hands on Exercise	Participants
30	15:00	15:30	COFFEE BREAK		
90	15:30	17:00	Discussion and wrap up on Tsunami Inundation Modeling and Inundation Mapping for Evacuation		Christopher Moore and Laura Kong
0	17:00	17:00	End of Day 6		



IOTIC- BMKG Indian Ocean Capacity Building (IO-CAP) 2017

Training for Trainers

Tsunami Evacuation Maps, Plans, and Procedures

Citeko, Indonesia, 13-24 November 2017

Session 5: Evacuation Response Plan, Evacuation Procedures, Evacuation Exercise Planning

The third session, 20-21 November 2017, will cover

Start	End	Tentative Agenda		Speakers / Resource Person (Moderator)
Day 9: Monday 20 November 2017				
Session 3: Tsunami Evacuation Mapping, Plans, Route, Sinage.				
Introduction to Tsunami Inundation Map				
7:45	8:00	Registration		
8:00	8:45	Understanding community at risk (tsunami)	Presentation	Ardito M Kodijat
8:45	9:30	Introduction to Tsunami Early Warning Chain	Presentation	Fauzi
9:30	10:15	Introduction to Emergency Response Plan	Presentation	Henny Vidiarina
10:15	10:45	COFFEE BREAK		
10:45	11:30	Principles in Tsunami Evacuation Planning Process - Community Participatory Approach	Presentation	Weniza
11:30	12:15	Principles in Tsunami Evacuation Routes and Signs	Presentation	Suci Dewi Anugrah
12:15	13:15	LUNCH BREAK		
13:15	14:00	Principles in Tsunami Evacuation Place (High ground and Vertical Evacuation)	Presentation	Harkunti P Rahayu
14:00	14:45	Principles in Tsunami Evacuation Procedures	Presentation	Ardito M Kodijat
14:45	15:30	Introduction Tsunami Evacuation Map	Presentation	Henny Vidiarina
15:30	16:00	COFFEE BREAK		
16:00	17:30	Developing Tsunami Evacuation Map	Group Works	Participants
17:30	19:30	PRAYER BREAK, DINNER and End of Day 11		

Start	End	Tentative Agenda		Tentative Resource Person
Day 10: Tuesday, 21 September 2017				
7:45	8:00	Registration		
8:00	9:30	Developing Tsunami Evacuation Map	Group Works	Participants
9:30	10:15	Tsunami Evacuation Map Presentation	Group Presentations	Participants

10:15	10:45	COFFEE BREAK		
10:45	11:30	Tsunami Evacuation Map Presentation	Group Presentations	Participants
11:30	12:00	Principles in Testing, Launching, and introducing Tsunami Evacuation to Community	Presentation	Suci Dewi Anugrah
12:00	13:00	LUNCH BREAK		
13:00	13:45	Principles in Public Information materials	Presentation	Daryono
13:45	15:45	Development of Tsunami Public Information	Group Works	Participants
15:45	16:15	COFFEE BREAK		
16:15	17:15	Presentation of Tsunami Public Information	Group Presentations	Participants
15:45	17:15	End of Day 12		



IOTIC- BMKG Indian Ocean Capacity Building (IO-CAP) 2017

Training for Trainers

Tsunami Evacuation Maps, Plans, and Procedures

Citeko, Indonesia, 13-24 November 2017

Session 4: Evacuation Response Plan, SOP, and Exercise Planning

The third session, 20-21 November 2017, will cover

Start	End	Tentative Agenda		Speakers / Resource Person (Moderator)
Day 11: Wednesday, 22 November 2017				
Session 4: Evacuation Response Plan, SOP, and Exercise Planning				
7:45	8:00	Registration		
8:00	8:45	Introduction to Indian Ocean End to End Warning, IOTWMS, and Warning Chains	Presentation	Srinivas K Tummala
8:45	9:30	Principles in Communicating Warning and Guidance to Community	Presentation	Ardito M Kodijat
9:30	10:15	Introduction to Standard Operating Procedures	Presentation	Fauzi
10:15	10:45	COFFEE BREAK		
10:45	11:30	Principles in Emergency Operation Plan	Presentation	Harkunti P Rahayu
11:30	12:00	Emergency Operation Plan National, local to community (Case Studies)	Presentation	Henny Vidiarina
12:00	12:45	Development of Community EOP and SOP	Group work	Participants
12:45	13:45	LUNCH BREAK		
13:45	15:45	Development of Community EOP and SOP (continue)	Group work	Participants
15:45	16:15	COFFEE BREAK		
16:15	17:45	Presentation of Community EOP and SOP	Group Presentation	Participants
17:45	19:45	PRAYER BREAK, DINNER and End of Day 9		

Start	End	Tentative Agenda		Tentative Resource Person
Day 12: Thursday, 23 September 2017				
7:45	8:00	Registration		
8:00	8:45	Introduction to Testing Emergency Response Plan	Presentation	Ardito M Kodijat
8:45	10:15	Planning Community Tsunami Exercise	Group work	Participants
10:15	10:45	COFFEE BREAK		
10:45	11:15	Planning Community Tsunami Exercise (Continue)	Group Presentation	Participants

11:15	12:15	Presentation on Community Tsunami Exercise Plan	Presentation	Participants
12:15	13:15	LUNCH BREAK		
Wrap Up and Implementation Plan				
13:15	14:45	Implementation of Indian Ocean Tsunami Ready	Group Discussion	Participants
14:45	15:30	Recommendation and Conclusion	Group Discussion	Participants
15:30	16:00	TEMPP Training of Trainer Evaluation	Group Works	Participants
16:00	16:30	Closing and Handing of Certificate	Organizer	
16:30	17:00	COFFEE BREAK and End of Training		