

**ASEAN Regional Workshop on Standardization of Methodologies for Multi-hazard Risk Assessment and Integration of Satellite Imageries for Rapid Assessment of Post-disaster Damage and Losses**

7-9 December 2016

ASEAN Regional Training Center for Space Technology and Applications (ARTSA)

Sirindhorn Center for Geo-informatics Building

Space Krenovation Park

Sriracha, Thailand

**Programme**

**Day 1 - Wednesday 7 December**

08:45 - 09:00	Arrival and registration
	<b>Inaugural session: opening remarks</b>
09:00-10:00	<p>a Welcome speech by ESCAP</p> <p>– <i>Tiziana Bonapace, Director, Information and Communications Technology and Disaster Risk Reduction Division (IDD), ESCAP</i></p> <p>b Welcome speech by GISTDA</p> <p>– <i>Dr. Anond Snidvongs, Executive Director, GISTDA</i></p> <p>c Introduction of participants</p>
10:00	Group photo
10:00 -10:30	<p>Overview of the workshop programme</p> <p>– <i>Syed T. Ahmed, SAS, ESCAP</i></p>
10:30 – 10.45	Coffee Break

10:45-12:15	<b>Multi-Hazard Risk Assessment</b> <ul style="list-style-type: none"> <li>a Quantifying disaster impact and risk in Asia and the Pacific <ul style="list-style-type: none"> <li>- <i>Mr. Sung Eun Kim, Disaster Risk Reduction Section (DRS), ESCAP</i></li> </ul> </li> <li>b Risk assessment modelling for tsunami and earthquake in ASEAN <ul style="list-style-type: none"> <li>- <i>Ms. J Elaine Layug Naparat, Technical Specialist for Remote Sensing, GIS and Topographic Survey, Regional Integrated Multi-Hazard Early Warning System for Africa and Asia (RIMES)</i></li> </ul> </li> <li>c Thailand's Risk Assessment &amp; Modeling: EO Based Disaster Monitoring System <ul style="list-style-type: none"> <li>- <i>Dr. Chaowalit Silapathong, Deputy Director, GISTDA</i></li> </ul> </li> <li>d Hazard Mapping in the Philippines <ul style="list-style-type: none"> <li>- <i>Ms. Mabelline Tuballa Cahulogan, Senior Science Research Specialist, PHILVOLCS</i></li> </ul> </li> </ul>
12:15 – 12.30	a Q&A- discussion
12:30-13:30	Lunch
	<b>Emergency Response - overview</b>
13:30 -14:20	<ul style="list-style-type: none"> <li>a Presentation on the “Procedural Guidelines for NDMAs and Space Agencies in ASEAN Countries: for sharing space-based information during emergency response” <ul style="list-style-type: none"> <li>- <i>Syed T. Ahmed, SAS, ESCAP (20 minutes)</i></li> </ul> </li> <li>b Presentation on the “Geospatial Decision-support Handbook: for Specific hazards in ASEAN” <ul style="list-style-type: none"> <li>- <i>Valentina Spanu, SAS, ESCAP (30 minutes)</i></li> </ul> </li> </ul>
	<b>Emergency Response – simulation exercise 1 - on decision making using EO information</b>
14:30 -15:15	Flood evacuation exercise in Viet Nam <ul style="list-style-type: none"> <li>- <i>Mr. Syed T. Ahmed and Ms. Valentina Spanu</i></li> <li>- 3 groups</li> <li>- Given a disaster scenario</li> <li>- Asked to make decisions on recommending evacuation sites</li> </ul>
15:30 - 15:45hrs.	Coffee Break
15:45 -16:00	- Final questions and answers
16.00 – 21.00	Cultural visit and dinner – organized by GISTDA

## Day 2 – Thursday 8 December

09:00 - 09:30	Summary of day 1 and overview of day 2 - <i>Mr. Syed T. Ahmed, SAS, IDD</i>
	<b>Emergency Response – simulation exercise 2 - on decision making using EO information</b>
09:30-10:30hrs.	Disaster response planning for cyclone in the Philippines - <i>Mr. Syed T. Ahmed and Ms. Valentina Spanu</i>  <ul style="list-style-type: none"> <li>- 3 groups</li> <li>- Given a disaster scenario</li> <li>- Asked to make decisions on recommending actions for disaster response in 5 areas of interest</li> </ul>
10:30-10:40	Coffee Break
	<b>Site visit – GISTDA ground station</b>
10:40-11:45	<ul style="list-style-type: none"> <li>- Satellite base station</li> <li>- THEOS passing over Thailand</li> <li>- Emergency room</li> </ul>
	<b>Emergency Response – live exercise - on evaluating disaster response using EO information</b>
11:45-12:30hrs.	Disaster response evaluation for floods in the Thailand  <ul style="list-style-type: none"> <li>- Group discussion</li> <li>- Presentation on the disaster scenario from Southern Thailand</li> <li>- Evaluation of geospatial products for decision-support</li> <li>- Recommendations for improving geospatial mapping products</li> </ul>
12:30-13:30	Lunch
	<b>Rapid assessment for disaster damage and loss - overview</b>
13:30-14:20	<ul style="list-style-type: none"> <li>a Presentation on Rapid Assessment techniques and methodologies - <i>by GISTDA</i></li> <li>b Presentation on Malaysian disaster response practices - <i>by ANGKASA</i></li> <li>c Presentation on rapid assessment using innovative technologies (Part1) - <i>Shweta Sinha, SAS, ESCAP</i></li> </ul>

	<b>Rapid assessment for disaster damage and loss – group exercise</b>
14:20-15:30	Group exercise <ul style="list-style-type: none"> <li>- Individual/groups country-wise</li> <li>- Given a disaster scenario</li> <li>- Rapid assessment practices in their own countries</li> </ul>
15:30 - 15:45	Coffee Break
15:45-16:15	Group discussion <ul style="list-style-type: none"> <li>- Data and information for rapid assessment</li> </ul>
16:15- 16:30	Presentation on assessment framework for Rapid Assessment for Resilient Recovery (RARR) (Part2) - <i>Shweta Sinha, SAS, ESCAP (15 mins each)</i>
16:30 - 16:50	Final questions and answers
16:50 -17:00hrs.	Summary and closing

### Day 3 – Friday 9 December

09:00-09:15	Summary of day 2 and overview of Day 3 - <i>Shweta Sinha, SAS, IDD</i>
09:15 -10:30	<b>Site visit – GISTDA space museum</b>
	- Space inspirium visit
10:30-10:45	Coffee Break
10:45-11:50	Lightning talks - 5-10 minutes per organization - Including two or three things they take away from the workshop and apply to their working environment
11:50- 12:10	Summary of the workshop - <i>Syed T. Ahmed, SAS, ESCAP</i>
12:10- 12:25	Way forward - <i>Sanjay Srivastava, Chief, DRS, ESCAP</i>
12:25 -12:30	Closing remarks
	<b>Closing of the meeting</b>
12:30 - 13:30	Lunch

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