

**SUMMARY OF TYPHOON COMMITTEE ROVING SEMINAR
2015
(Lao PDR, 4-6 November 2015)**

I. Organization

1. The Typhoon Committee Roving Seminar (TCRS) 2015 with the theme on Flash Flood and Landslides was successfully held on 4-6 November 2015 in Lao PDR. It was organized by ESCAP/WMO Typhoon Committee (TC) and hosted by the Department of Meteorology and Hydrology (DMH), Lao PDR.

2. The Seminar was attended by 22 participants from Bangladesh (1); Cambodia (2); China (2); Myanmar (1); Pakistan (1); Philippines (1); Lao PDR (8); Sri Lanka (1) and Thailand (5). Three resource persons came from China, Japan and Republic of Korea with two representatives from the Typhoon Committee Secretariat and ESCAP. The list of participants is given in Attachment A.

II. Opening

1. The TCRS 2015 was officiated by Mr. Khanmany Khounphonh, Deputy Director General of DMH, Lao PDR. Mr. Khounphonh delivered the opening speech, highlighting the adverse weather phenomena Members are facing such as heavy rain, flash flood, riverine devastating, landslides and typhoons. He also stressed the importance of enhancing good understanding of hydro-meteorological information, forecast, and early warnings in order to prevent and reduce disaster risk.

2. The Programme Officer of ESCAP, Mr. Alf Ivar Blikberg in his address expressed his gratitude to TC for the excellent initiative and Lao PDR for hosting the Roving Seminar. ESCAP was pleased to be sponsoring 4 Members of the Panel of Tropical Cyclones (PTC) to attend the Seminar this year.

3. The Meteorologist of Typhoon Committee Secretariat (TCS), Mr. Clarence Fong in his address expressed his gratitude to Lao DPR for hosting the Roving Seminar as it was one of the main activities of the TC, coordinated by the TRCG since 2003. He also expressed his gratitude to the

speakers from China, Japan and Republic of Korea for sharing valuable experience in flash flood and landslides which help Members to have a better understanding of the topic, improve forecast to provide a more effective disaster risk reduction approach.

III. Seminar Programme

1. Mr. Yoshiki Nagai and Mr. Naoki Matsumoto from National Institute for Land and Infrastructure Management presented Topic A on “Risk Reduction and Mitigation of Sediment-related Disaster”.
2. Prof. Xu-dong Fu from Tsinghua University presented Topic B on “Advances and Challenges of Flash Flood Modeling and Prediction”.
3. Dr. Dong-ryul Lee from Korea Institute of Civil Engineering and Building Technology presented Topic C on “River and Urban Flash Flood’s Forecasting and Mitigation”.
4. A technical visit to the DMH and a city tour were conducted on the afternoon of 6 November 2015.
5. The Roving Seminar Programme is given in Attachment B.

IV. Proposals and Recommendations

1. The participants gave a warm appreciation to the four resource persons for their presentations and useful advice as well as examples of good practices on the relevant topics.
2. During the wrap up discussion, most participants indicated that they learned new ideas and methodologies on flash flood and landslides, although they might not have the resources for implementation at the moment. Views on early warning considerations were also discussed. The Feedbacks and recommendations collated from the participants are summarized in Attachment C.
3. Suggestions from the resource persons and organizers for future reference:
 - (a) hydrologists can be invited to give lectures at the Roving Seminar in the future;

- (b) backgrounds of participants and their operational needs will be useful in designing the lectures;
- (c) case studies with challenges faced by participant may be designed in future lectures.

V. Closing

1. The resource persons and participants expressed their gratitude to the DMH for hosting this seminar and for the warm hospitality.
2. Mr. Clarence Fong and Mr. Alf Ivar Blikberg presented the attendance certificates to the participants.
3. The Roving Seminar was closed on 6 November 2015.

**List of Participants of the Typhoon Committee Roving Seminar 2015
(Lao PDR, 4-6 November 2015)**

Members	Name of Participants
Bangladesh	Mr. Sanaul HoQue MONDAL
Cambodia	Mr. Ryna OUM
Cambodia	Ms. Phalla PEOU
China	Mrs. LI Jing
China	Ms. GUO Dongyan
Myanmar	Ms. Htay Htay THAN
Pakistan	Mr. Sarfaraz
Philippines	Mr. Victor B. FLORES
LAO PDR	Mr. Vanhdy DOUANGMALA
LAO PDR	Mr. Somphanh VITHAYA
LAO PDR	Mr. Bounteum SYSOUPHANTHAVONG
LAO PDR	Mr. Sengduangduan PHOUTHANOXAY
LAO PDR	Ms. Phetsakone MISOMPHANE
LAO PDR	Mr. Somboun PONGKHAMSAO
LAO PDR	Ms. Sengkeo KEOMANIVONG
LAO PDR	Ms. Viengkham SITTHIVONG
Sri Lanka	Mr. Malavige Don Dayanada
Thailand	Mr. Stephan HUPPERTZ
Thailand	Mr. Worapojn KHUNAWIWATTANANGKUN
Thailand	Mr. Pattara SUKTHAWEE
Thailand	Mr. Pongsak TEERAKITTIWATTANA
Thailand	Ms. Woraorn SONGKAMILIN
Resource person	Prof Xu-dong FU (China)
Resource person	Mr Yoshiki NAGAI (Japan)
Resource person	Mr. Naoki MATSUMOTO (Japan)
Resource person	Dr Dong-Ryul LEE (Rep. of Korea)
TCS	Mr. FONG Chi Kong
ESCAP	Mr. Alf Ivar BLIKBERG

Typhoon Committee Roving Seminar 2015
Seminar Programme

Dates and Venue: 4 – 6 November 2015, Conference Hall, Vansana Riverside Hotel (VRH), Ban Sithane neua, Sikhottabong District, Vientiane, Lao PDR

Main Theme: Flash flood and landslides

Topic A – Risk Reduction and Mitigation of Sediment-related Disaster

(Mr Yoshiki Nagai from National Institute for Land and Infrastructure Management)

Topic B – Advances and Challenges of Flash Flood Modeling and Prediction

(Prof Xu-dong Fu from Tsinghua University)

Topic C – River and Urban Flash Flood's forecasting and Mitigation

(Dr Dong-ryul Lee from Korea Institute of Civil Engineering and Building Technology)

Seminar Schedule:

		Day 1 (4 Nov, Wed)	Day 2 (5 Nov, Thu)	Day 3 (6 Nov, Fri)	
A M	0900 – 1030	Registration & Opening Ceremony	Presentation about GIDRM project by representative from GIZ	Lecture Topic C (3) Strategies and Methods for Urban Flash Flood Forecasting and Warning	
			Lecture Topic A (2) Sediment Disaster Countermeasures: Structural Measures and Monitoring for the Preservation of National Land		
	1030 – 1045	Tea Break			
	1045 – 1200	Experience Sharing by Member Representatives ^(a)	Lecture Topic B (2) Disposal of earthquake-triggered barrier dams in China	Wrap-up Discussion	
Lunch Break (1200 – 1330)					
P M	1330 – 1445	Lecture Topic A (1) Sediment-related disaster in Japan: The features, tendency and actual situation	Lecture Topic C (2) Rainfall Radar System and Its Utilization for Flood Warning	Visit to DMH Head Quarter	
	1445 – 1500	Tea Break			
	1500 – 1615	Lecture Topic B (1) Modeling and prediction of flash flood altered by sediment transport in mountain streams	Lecture Topic A (3) Non-structural Measures: Designation of Sediment Disaster Alert Areas, Soil Precipitation Index, Warning and Evacuation systems		
	1615 – 1625	Short Break			
	1625 – 1730	Lecture Topic C (1) River Flood Forecasting System and Mitigation in Korea	Lecture Topic B (3) Strategies and methods for flash flood hazard mitigation in China		

- (a) One of the participants from each Member will be invited to represent his/her weather services to deliver a 10 to 15 minutes presentation regarding strategy to handle Flash Flood and Landslides of his/her Service.

TRCG ACTIVITIES EVALUATION FORM

Roving Seminar 2015
(Vientiane, Lao PDR, 4 – 6 Nov 2015)

**24 responses (out of 20 participants + 4 lecturers)
(not all questions answered by responders)**

Part A: Event Logistics

*Expectation levels as indicated
number of responders*

(P = participants; R = resource persons)

	Below expectation ☹		Met expectation ☺		Exceeded expectation 😊	
	P	R	P	R	P	R
1. Overall administration/organization	1	0	9	1	10	3
2. Pre-event arrangement and liaison	1	0	11	1	8	3
3. Venue facilities	0	0	14	3	6	1
4. Informative announcements and instructions	1	0	8	2	11	2
5. Travel arrangements	1	0	12	2	7	2
6. Funding arrangements	1	0	12	1	5	3
7. Accommodation	0	0	13	2	7	2
8. Refreshments	2	0	14	2	4	2
9. Social events and visitors' information	3	0	11	1	6	3
10. Helpfulness and friendliness of organizers	0	0	9	1	11	3

Specific points for improvement, if any:

More powerful PC for supporting animations in presentations

Earlier notification of presentations/reports arrangement. Lecturers should have weather background

Travel arrangement and refreshment

Food arrangement for vegetarians

Part B: Technical Contents (from participants only)

	A	B	C
A – Lectures by Yoshiki Nagai B – Lectures by Prof. Xu-dong Fu C – Lectures by Dr. Dong-ryul Lee			
Interest in Topic (1 to 5 ; from disinterested to most interested)			
Topic Contents (1 to 5 ; from irrelevant to topic to most relevant)			
Topic Organization (1 to 5 ; from loosely structured to well-structured)			
Lecture/Workshop Presentation (1 to 5 ; from poor to excellent)			
Training or Practical Material (1 to 5 ; from ill-prepared to well-prepared)			
Language (1 to 5 ; from hard to understand to easy to follow)			
Effectiveness (1 to 5 ; from little understanding gained to much understanding gained)			
Objectives and Scope (L = too narrow; M = just right; R = too wide)			
Emphasis (L = too theoretical; M = just right; R = too practical)			
Length (L = too short; M = just right; R = too long)			
Technical level (L = too elementary; M = just right; R = too difficult)			

Part C: Follow-ups (from participants only)

1. What operational benefits (new ideas, skills or methodology) you think would be gained from your attendance in the event?

Early warnings management/operational system/disaster preparedness of flash flood (also at local level)
 Forecast/handling/losses mitigation/experience sharing of flash flood
 Use of social media as a sensor of disaster
 Use of Modified Mannings Roughness coefficient for flash flood
 Spatial-temporal rain observation, ISO standard of alert sign

2. Any foreseeable opportunity for operational implementation of the above benefits?

Answer: Yes, benefits likely to be felt in about

(a) a couple of years or less	4
(b) in 2 – 5 years	4
(c) in 5 years or more	5
(d) no foreseeable opportunity	3



The participants of the Roving Seminar taking a group photo with the Deputy Director General of Department of Meteorology and Hydrology, Lao PDR, Mr. Khanmany Khounphonh, (3rd to the right, 1st row), Meteorologist of Typhoon Committee Secretariat, Mr. Clarence Fong (2nd to the right, 1st row), Programme Officer of ESCAP, Mr. Alf Ivar Blikberg (1st to the right, 1st row) and the lecturers.



Participants visiting the Department of Meteorology and Hydrology, Lao PDR.