World Meteorological Organization Space-Based Weather and Climate Extremes Monitoring Demonstration Project (WMO SEMDP) Workshop and Steering Group Meeting in Conjunction with

11th ASEAN Climate Outlook Forum (ASEANCOF-11)

Kuala Lumpur, 29 October – 2 November 2018

TIME	PROGRAMME		
29 October 2018 (Monday) - ASEANCOF-11 (DAY 1)			
8.30 am	Registration		
9.30 am	 Welcome remarks/participant introductions Opening talks (context-setting): Regional developments in monitoring and outlook of extremes (Mr. Raizan Rahmat, ASMC) Predictability of extreme events in Southeast Asia (Dr. Charline Marzin, UKMO) Group photo-taking 		
10.30 am	Session 1: Regional outlook (DJF 2018-19) from Global Producing Centres/International Climate Centres (Chair: Mr. Raizan Rahmat) Recommended presentation outline 1. Updates on modelling activities of WMO Global Producing Centres' (GPCs)/International Climate Centres of Long Range Forecasts. 2. Models' skill for Southeast Asia region based on verification of historical forecasts (hindcasts). Model skill, if any, for prediction of extremes temperature/rainfall, e.g. upper/lower quintiles, or indices. 3. Seasonal forecasts for temperature and rainfall for DJF 2018-2019 for Southeast Asia region, including the seasonal evolution of large-scale circulation features of importance to Southeast Asian climate, such as ENSO, IOD and monsoon circulation. 10.30 am: Beijing Climate Centre, BCC (Dr. Bing Zhou) 10.50 am: Bureau of Meteorology Australia, BoM (Dr. Yuriy Kuleshov) 11.10 am: Met Office, UKMO (Dr. Charline Marzin) 11.30 am: Break (30 mins) 12.00 am: WMO LC-LRFMME (Ms. Hyun-Ju Lee) 12.20 am: Tokyo Climate Centre, TCC (Mr. Atsushi Minami via SYKPE)		

TIME	PROGRAMME
	Session 2a: National outlook (DJF 2018-19) from ASEAN National Meteorological and Hydrological (NMHSs) (Chair: Dr. Bing Zhou)
12.40 am	 Recommended presentation outline Basis/techniques/model used by ASEAN National Meteorological and Hydrological Services' (NMHSs) to make seasonal predictions. Climate drivers/features of importance for the respective countries. Monitoring and/or outlook of extremes weather/climate variables, if any. Country-level seasonal forecasts for temperature and rainfall for DJF 2018-2019. 12:40 am: Brunei Darussalam Meteorological Department, BDMD (Mrs Marzeti binti Haji Mahadi)
1.00 pm	Lunch
2.00 pm	 Session 2a: (continued) National outlook (DJF 2018-19) from ASEAN National Meteorological and Hydrological (NMHSs) (Chair: Dr. Bing Zhou) 2:00 pm: Indonesian Agency for Meteorological, Climatological and Geophysics, BMKG (Dr. Dadang Msbahudin) 2:20 pm: Lao PDR (Ms. Khaemeuy Chao, DMH Lao) 2:40 pm: European Centre for Medium Range Weather Forecasts, ECMWF (Dr. Laura Ferranti via SKYPE) 3:00 pm: Malaysian Meteorological Department, MMD (Dr. Ahmad Fairudz B Jamaluddin) 3:20 pm: Department of Meteorology and Hydrology Myanmar, DMH (Dr. Myint Myint Aye)
3.40 pm	Break
4.10 pm	Session 2b: (continued) National outlook (DJF 2018-19) from ASEAN National Meteorological and Hydrological (NMHSs) (Chair: Dr. Yuriy Kuleshov) 4:10 pm: Philippine Atmospheric, Geophysical & Astronomical Services Administration, PAGASA (Mr. Junie Ruiz) 4:30 pm: Meteorological Service Singapore, MSS (Mr. Tan Wee Leng) 4:50 pm: Thai Meteorological Department, TMD (Mr. Chaowat Siwapornchai)

TIME	PROGRAMME
	 5:10 pm: National Hydro-Meteorological Service of Viet Nam, NHMS (Mr. Nguyen Van Huong)
5.30 pm	Quick Summary/Discussions
30 October	2018 (Tuesday) - ASEANCOF-11 (DAY 2)
9.30 am	Session 3: End-user talks on requirements for seasonal forecasts in applications and requirements for monitoring of extremes (Chair: Dr. Charline Marzin)
	Recommended presentation outline
	 Introduction to sectors'/organisations' activities Requirements for seasonal outlook and monitoring of extreme weather and climate
	3. Specific outlook and monitoring products and services that end-users consider useful at the national or regional level
	4. Collaborations with national/regional agencies that provide climate outlook and related information.
	 9:30 am: Hydro and Agro Informatics Institute, HAII (Dr. Surajate Boonya-aroonnet) 10:00 am: International Rice Research Institute, IRRI (Dr. Sridhar
	Gummadi) • 10:30 am: Mekong River Commission (Dr. Cong Nguyen Dinh)
11.00 am	Break
11.30 am	Session 4: Discussions on/gathering requirements of end-users for monitoring of extremes (Chair: Mr. Raizan Rahmat)
1.00 pm	Lunch
2.00 pm	Science/activities talk I: WMO climate monitoring activities including extremes (Mr. Peer Hechler, Data Management Applications Division, WMO)
2.30 pm	Science/activities talk II: SEMDP Objectives and Activities (Dr. Toshiyuki Kurino, Space-based Observing System Division, WMO)
3.00 pm	Draft outlook and consensus discussions (NMHSs & GPCs only) (Chair: MMD and ASMC representatives)
4.00 pm	Break

TIME	PROGRAMME	
4.30 pm	Presentation of Consensus Outlook (Chair: MMD and ASMC representatives)	
5.00 pm	Summary/Discussions	
31 October 2018 (Wednesday) - WMO SEMDP TRAINING (DAY 1)		
	Opening Ceremony Session	
9.30 am	Doa Recitation	
9.35 am	Welcoming Remarks	
	- Mr. Alui Bahari Director General	
	Malaysian Meteorological Department	
	- Representative ASEAN Specialised Meteorological Centre	
	- Representative World Meteorological Organization	
9.50 am	Opening Address	
	- Secretary General Ministry of Energy, Science, Technology, Environment and Climate Change, Malaysia	
10.05 am	Group Photo Session followed by Coffee/Tea Break	
10.30 am	Introduction to space-based rainfall monitoring and products	
11.00 am	Lecture and Practicals: CMORPH by NOAA/NWS/CPC	
12.15 am	Lecture and Practicals: GSMaP by JAXA	
1.00 pm	Lunch	
2.00 pm	Demonstration/exercises: Case Study on "Persistent Heavy Rainfall"	
	CASE 1 (2014/Nov-Dec: Singapore, Malaysia, Thailand)	
4.00 pm	Break	
4.30 pm	(continued) Demonstration/exercises: Case Study on "Persistent Heavy Rainfall"	
	CASE 2(2016/Aug: LAO People Democratic Republic)	

TIME	PROGRAMME	
6.30 pm	End	
8.00 pm	Welcoming Dinner	
1 November 2018 (Thursday) - WMO SEMDP TRAINING (DAY 2)		
9.00 am	General discussions on how to use satellite-derived rainfall estimations for extremes monitoring in operation at national and regional levels/ users requirements for monitoring of extremes	
10.45 am	Break	
11.15 am	Demonstration/exercises: Case Study on "Drought" CASE3 (2014/JAN-MAR: Singapore, Malaysia, Indonesia)	
1.00 pm	Lunch	
2.00 pm	Demonstration/exercises: Case Study on "Drought" (cont.)	
	CASE3 (2014/JAN-MAR: Singapore, Malaysia, Indonesia)	
3.30 pm - 5.30 pm	Technical Tour	
2 November	· 2018 (Friday) - SG-SEMDP MEETING	
9.00 am	Reviewing the performance of the SEMDP products	
10.30 am	Break	
11.00 am	Discussions on possible developments for SEMDP	
12.30 pm	Lunch	
3.00 pm	Finalising the SEMDP implementation plan	
4.30 pm	End	