

*Building Resilience to High-Impact Hydro-meteorological Events through
Strengthening Multi-Hazard Early Warning Systems in Small Island Developing
States and Southeast Asia project*

***Project implementation plan
Annual work plan for 2017-2018 (incl. outlook to 2018-2019)***

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1st Meeting of the Southeast Asia Project Steering Committee (SEA-PSC-1)

23 November 2017, Ha Noi, Viet Nam

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This project was undertaken with the financial support of:
Ce projet a été réalisé avec l'appui financier de :



Environment and
Climate Change Canada

Environnement et
Changement climatique Canada

Outcome 1 and its Outputs & Implementation

OUTCOMES		OUTPUTS				LEVEL	
1	Strengthened governance structures/ mechanisms for the Regional Centres/ NMHSs are in place	1.1	Stock-taking of capacities, gaps, needs and requirements (Regional/national workshops, consultations and assessments)			R	Regional
						N	National
		1.2	Regional Centres/NMHSs are institutionally strengthened, engaged and recognized in regional/national DRM mechanisms (Regional/national workshops, consultations and assessments)			R	Regional
						N	National
		1.3	Established/strengthened bilateral and multilateral coordination, communication and consultation mechanisms between and among the participating Regional Centres, NMHSs and other regional/national MHEWS stakeholders (Map and facilitate the enhancement of existing or the establishment of ones)			R	Regional
						N	National

OUT-COMES	OUT-PUTS		Y1	Y2				Y3				Y4				Y5			
			2017				2018				2019				2020				2021
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
1	1.1	R																	
		N																	
	1.2	R																	
		N																	
	1.3	R																	
		N																	

Outcome 2 and its Outputs & Implementation

OUTCOMES		OUTPUTS				LEVEL		
2	Enhanced product development and accessibility	2.1	Infrastructure of participating Regional Centres/NMHSs is upgraded (most SEAFFGS activities, incl. servers)				R	Regional
							N	National
		2.2	Global/regional/national data, products and services are available/accessible for participating Regional Centres/NMHSs (SWFDP-SeA → access to NWP products, SEAFFGS → multiple NWP ingestion)				R	Regional
							N	National
		2.3	A regional integrated IT/web platform is established for the exchange of hydrometeorological data, information and services (optional)				R	Regional
		2.4	Capacity of participating Regional Centres/NMHSs is developed to access, use and develop regional/national data, products, tools and services (SWFDP-SeA & SEAFFGS training components)				R	Regional
							N	National
2.5	Regional/national data, products and services are developed and verified, using global/regional data, products, tools and services (SWFDP-SeA nowcasting, verification programme, etc.)				R	Regional		
					N	National		
2.6	Sub-project steering mechanisms (RSMT SWFDP-SeA, SEAFFGS SG) / Staff (2.7)				R	Regional		

OUT-COMES	OUT-PUTS		Y1	Y2				Y3				Y4				Y5			
			2017				2018				2019				2020				2021
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
2	2.1	R																	
		N																	
	2.2	R																	
		N																	
	2.3	R																	
	2.4	R																	
		N																	
2.5	R																		
	N																		
2.6	R																		

Outcome 2 – SWFDP-SeA

Component

Ensure access to high performance computing NWP models and tools
(for NMHSs in Cambodia & Lao PDR, could include enhancement of internet access)

Training desks at RFSC Ha Noi
(Supported by RTCs in the Philippines, China and India)

Regional training workshops (on utilizing global and regional products in forecasting
→ with Hydrology and Service Delivery)

In-country training workshops (on utilizing global and regional products in forecasting
→ with Hydrology and Service Delivery, in selected countries in SEA)

Development of nowcasting products and systems

Establishment of on-going verification and validation programme to the advancement of the forecasting and warning system

Steering mechanism (RSMT SWFDP-SeA meetings)

Staff (WMO Secretariat)

New suggestion: Assessment of SWFDP-SeA before moving to operational phase

Outcome 2 - SEAFFGS

Component

Support of SEAFFGS implementation

(Trainings steps 1-5, purchase & installation of Servers, Operational Support)

Inclusion of RADAR data into the SEAFFG System

(Initial collaboration visits, quality control & Radar data calibration, Radar data ingest, trainings)

Map Server

Multiple NWP ingestion

Steering mechanisms (Steering Groups SEAFFGS, MRCFFGS, SAOFFGS → Philippines)

Staff (WMO Secretariat)

If funds free up:

Implementation of Advanced FFGS modules for the SEAFFGS - Landslides

Infrastructure enhancements (internet access, observation network)

Outcome 3 and its Outputs & Implementation

OUTCOMES		OUTPUTS		LEVEL	
3	Strengthened service delivery	3.1	Capacity of participating Regional Centres/NMHSs to deliver data, products and services and incorporate feedback is developed (Regional/in-country workshops to initiate impact-based forecasting with relevant stakeholders & use of CAP → with SWFDP-SeA)	R	Regional
				N	National
		3.2	Quality Management Systems (QMS) for service development and delivery are in place (Regional/in-country workshops)	R	Regional
				N	National
		3.3	Hydrometeorological services are delivered to end users and feedback is received (In-country workshops on identification of best information dissemination pathways for various end users and enhancement of communication channels, pilot projects on service delivery to specific sectors, co-sponsor ASEANCOF physical sessions & pre-COF trainings)	R	Regional
N	National				
3.4	Tailored risk information is incorporated into forecasts and warnings (pilot projects to conduct / utilize vulnerability assessments)	N	National		

OUT-COMES	OUT-PUTS		Y1	Y2				Y3				Y4				Y5			
			2017				2018				2019				2020				2021
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
3	3.1	R																	
		N																	
	3.2	R																	
		N																	
	3.3	R																	
N																			
3.4	N																		

Communication and Outreach, Monitoring and Evaluation (M&E), Project Management

OUTCOMES	OUTPUTS	
Project well managed	Project Managers - Salary	Jochen Luther
	Project Managers - Travel	
	Project Steering Committee (PSC) meetings	SEA-PSC
	Communication and outreach	
	Monitoring and evaluation (M&E)	Mid-term review Final review

OUT-COMES	OUT-PUTS	Y1	Y2				Y3				Y4				Y5			
		2017				2018				2019				2020				2021
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
	PM-S																	
	PM-T																	
	SEA-PSC																	
	C&O																	
	M&E																	

Progress to date

- Since Jan: **Discussions with the donors** (ECCC, CREWS SC), **Revising the project document** (narrative, logframe, implementation plan, budget) based on **internal and external consultations & planning of activities**, Salary & Travel
- 20-21 Sep: **Supported participants from the Philippines and Thailand to attend the 2017 CAP Implementation Workshop** (Rome)
- 7-9 Nov: **Support participants from beneficiary countries to attend the Regional Workshop on Impact-Based Forecasts in RA II** (Seoul)
- 15-17 Nov: **Sponsor ASEAN Climate Outlook Forum (ASEANCOF)** (Ha Noi)
- 20-22 Nov: **Severe Weather Forecasting Demonstration Project for SEA (SWFDP-Sea) Regional Sub-project Management Team (RSMT) & SEA Flash Flood Guidance System (SEAFFGS) Meetings** (Ha Noi)
- 23 Nov: **1st Meeting Canada-CREWS SEA Project Steering Committee (PSC)** (Ha Noi)



Activities in SEA until March 2019

- Jan-Jun: **Regional and in-country workshops, consultations and assessments to:**
 - introduce the project, gain buy-in and establish baselines (public & private capacities, gaps and needs with respect to MHEWS governance, product generation and service delivery)
 - increase awareness of national MHEWSs and regional/global support mechanisms and the understanding by MHEWS stakeholders of their respective roles and responsibilities.
 - Map and facilitate enhancement of existing or establishment of new bi- & multilateral coordination and communication processes, mechanisms and arrangements among MHEWS stakeholders at regional and levels
- 19-30 March: **Regional training workshop** (SWFDP-Sea/Service Delivery)
- ~~4-15 Dec~~ **7-18 May 2018: SWFDP-SeA Training Desk at Regional Forecast Support Centre** (Ha Noi)
- Apr-Mar: **Further regional and in-country workshops** (SWFDP-SeA/Service Delivery/Hydrology)
- Dec-Dec: **Purchase and installation of servers & trainings (SEAFFGS)**
- Jul-Mar: **Inclusion of Radar data into the SEAFFGS**
- Oct-Mar: **Purchase and installation of a map server (SEAFFGS)**
- Nov: **SEA-PSC-2 and SEAFFGS Steering Group(?)**



Thank you

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