



# ADPC Updates

## *2020 UN-SPIDER RSO Meeting*

Peeranan Towashiraporn

5 November 2020





# ADPC Strategy 2020



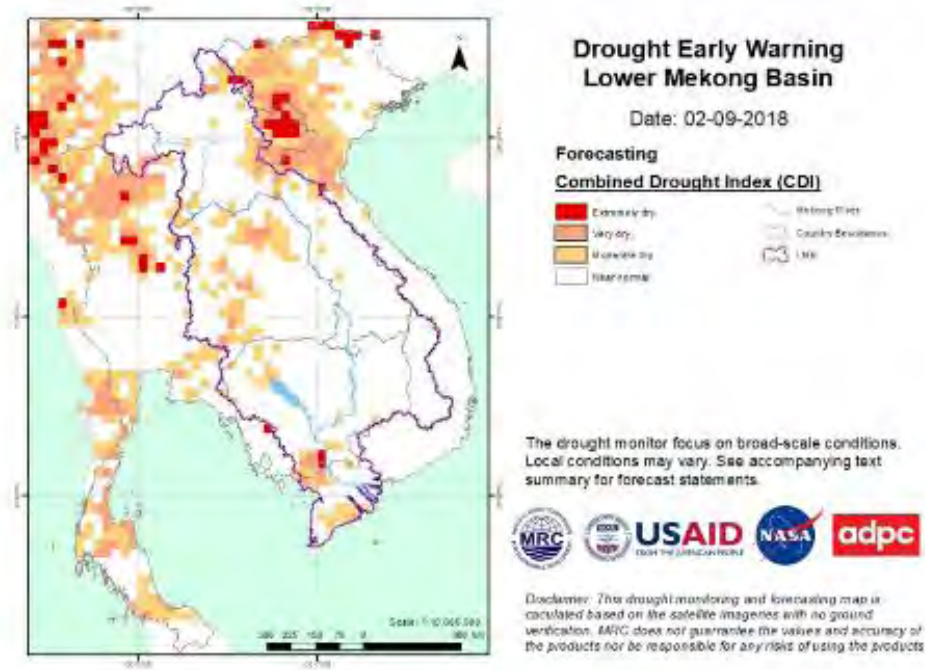
## Core Principles

- Science
- Systems
- Applications

# Regional Success

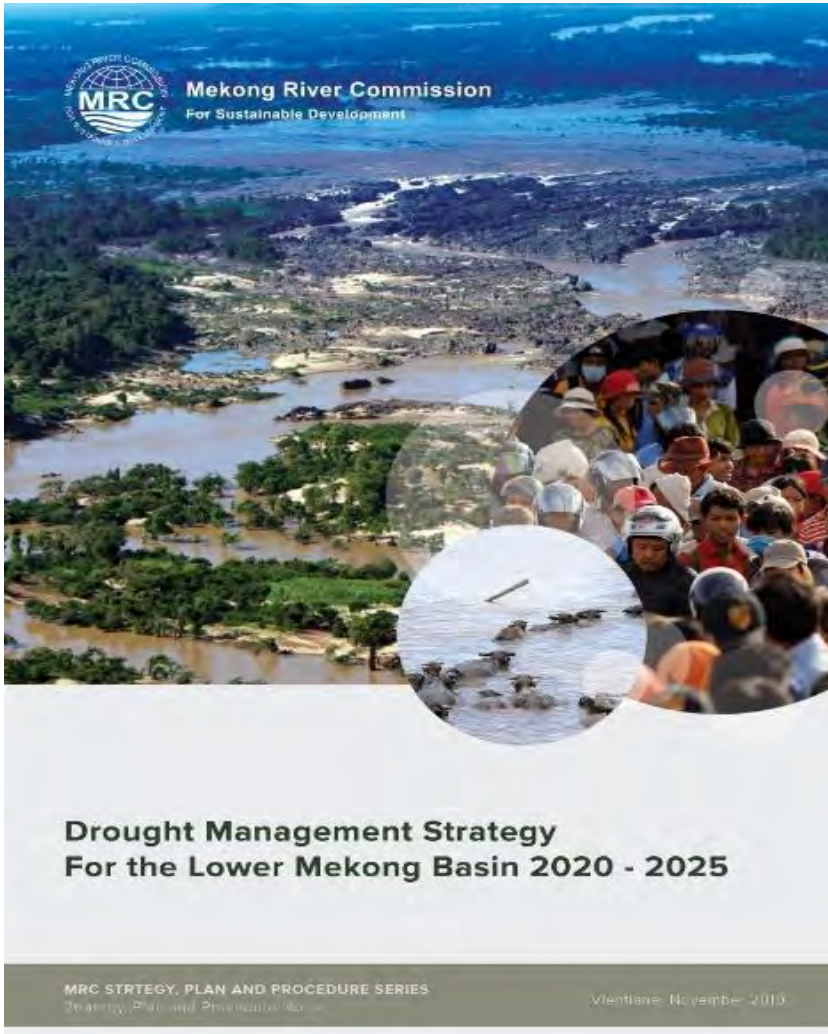
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# Regional Success



The Mekong River Commission (MRC) integrated ADPC/SERVIR-Mekong drought indices in its Drought Early Warning web platform and made it available to the public.

# Regional Success



ADPC/SERVIR-Mekong's drought monitoring and forecasting system mentioned as a tool to help the MRC achieve its Drought Management Strategy 2020-2025





# MEKONG DROUGHT AND CROP WATCH

[INTERACTIVE MAP](#)
[CREATE BULLETIN](#)
[HOW TO USE ▾](#)

AREA

Mekong Region ▾

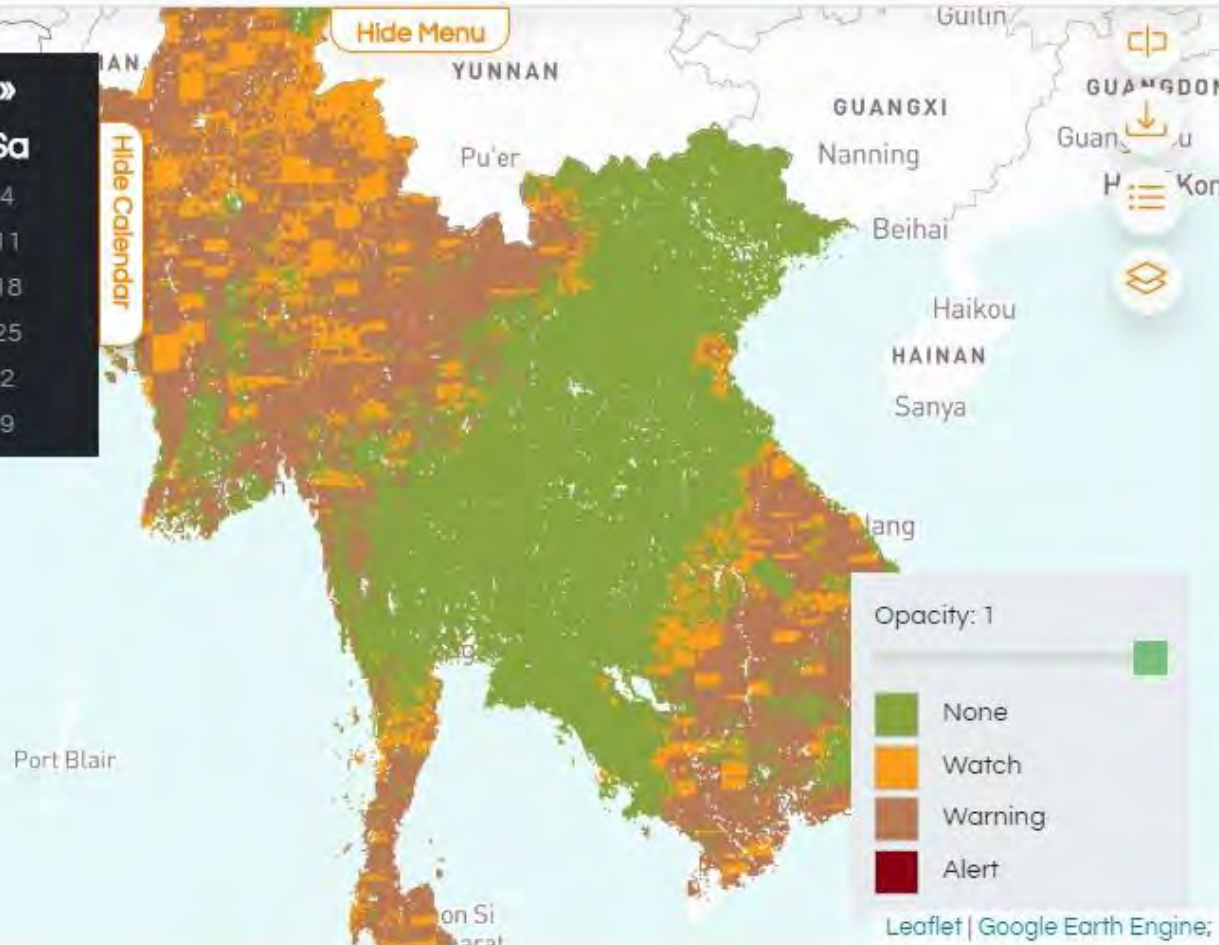
SELECT INDICATOR ⓘ

MB: CDI: Combined Drought Inde ▾

Hide Menu

Hide Calendar

«	April 2020							»
Su	Mo	Tu	We	Th	Fr	Sa		
29	30	31	1	2	3	4		
5	6	7	8	9	10	11		
12	13	14	15	16	17	18		
19	20	21	22	23	24	25		
26	27	28	29	30	1	2		
3	4	5	6	7	8	9		



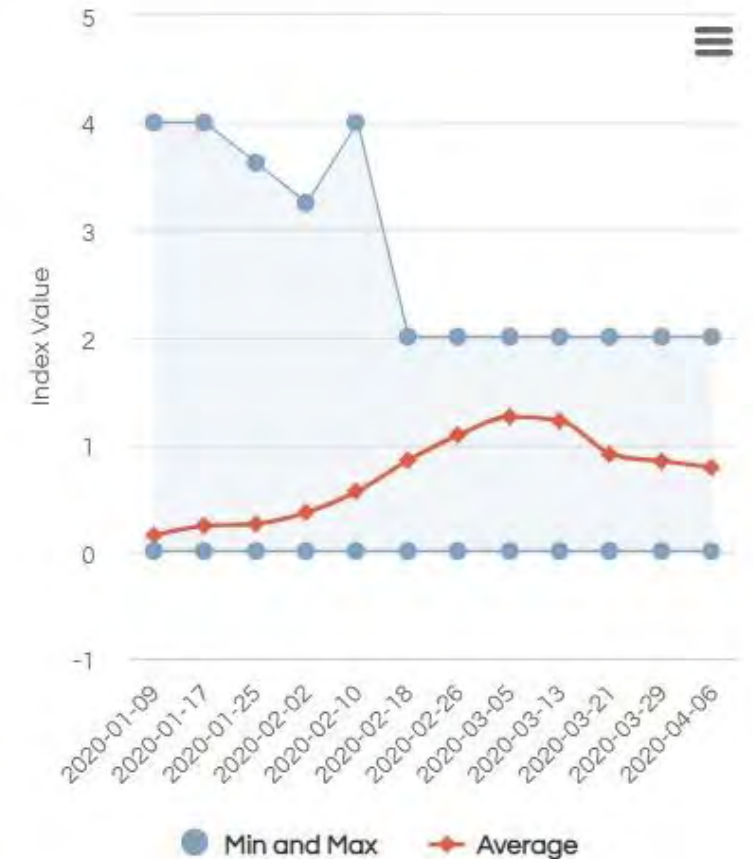
SELECT INDICES

MB: CDI: Combined Drc ▾

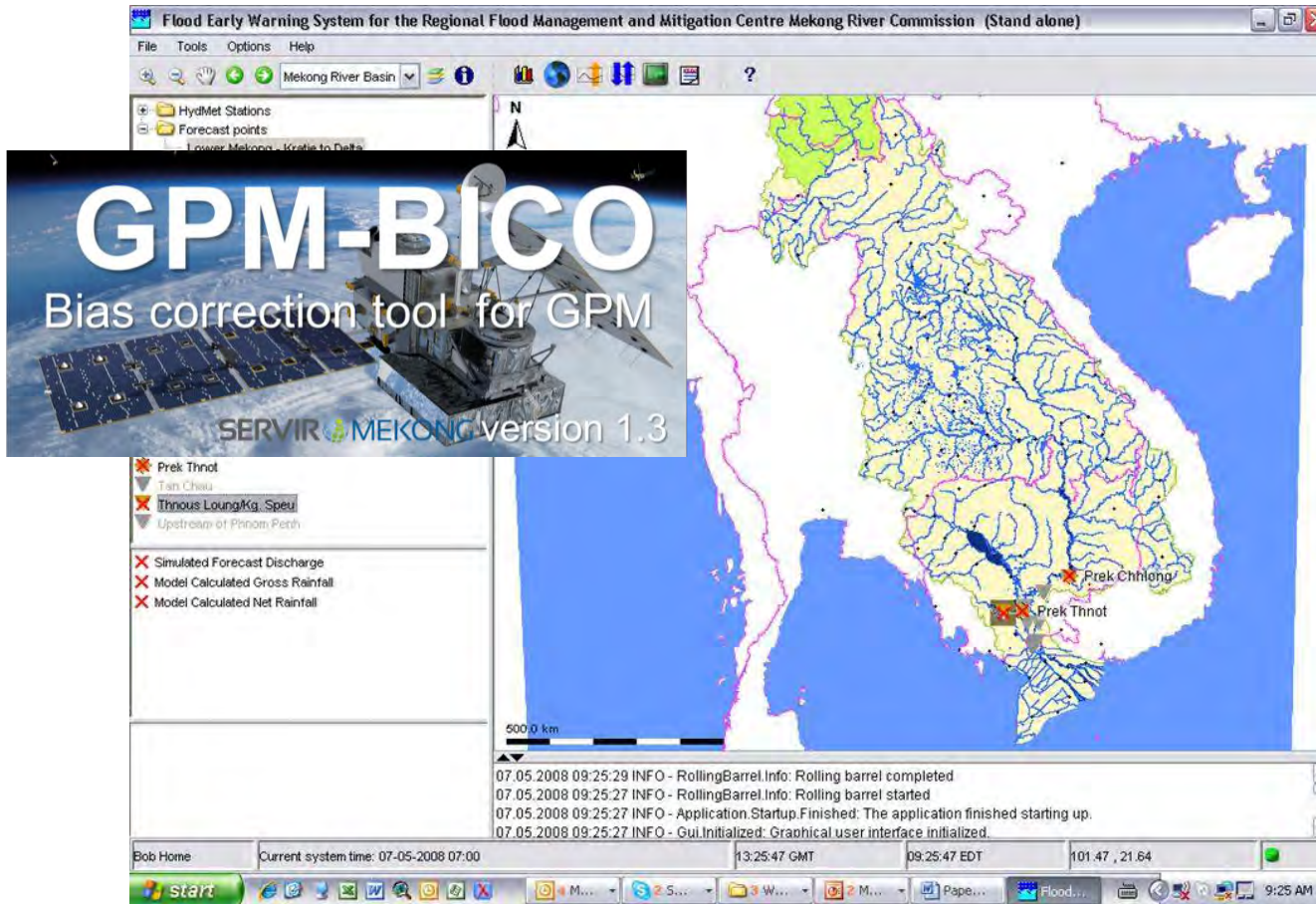
SELECT PERIODICITY

3 Months ▾

An area chart compares Min and Max values of nowcast and forecasted data of MB: CDI: Combined Drought Index in Mekong region | Periodicity: 3 Months



# Regional Success



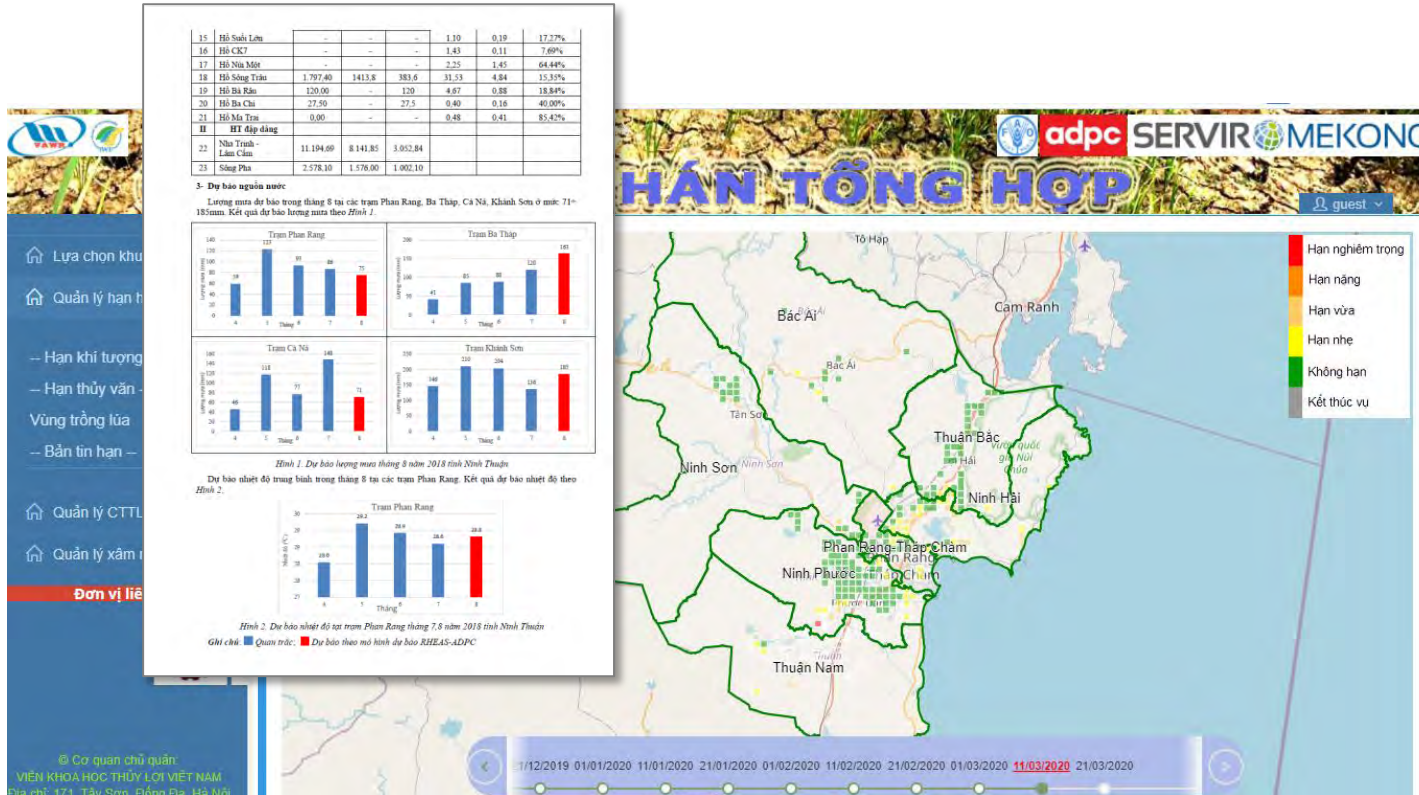
MRC's Mekong Flood Forecasting System (Mekong-FEWS) integrated ADPC/SERVIR-Mekong satellite-based precipitation data – *improving accuracy and increasing lead time from 6 to 10 days.*

# Sub-regional Achievements

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# Achievement



Vietnam Academy for Water Resources incorporated ADPC/SERVIR-Mekong drought monitoring and forecasting data in its information portal and the drought bulletins disseminated to provincial governments.

# Achievement



Rajamangala University of Technology and the Chiang Rai Provincial Administrative Center for Solving Haze Problem and Forest Fire Control adopted ADPC/SERVIR-Mekong's satellite-based twice-daily fire hotspot data into its Fire Hotspot Management App.



# Achievement

The screenshot displays the ADPC/SERVIR-Mekong website interface. The main header includes navigation links like 'หน้าแรก' (Home), 'เกี่ยวกับ คพ.' (About ADPC), and 'ข้อมูลและบริการ' (Data and Services). A sidebar on the left contains social media links for Facebook and Twitter, and a 'Site Map' section. The main content area features a large image of a man speaking into a microphone, with the text 'อธิบดี คพ. ติดตามความก้าวหน้า การฟื้นฟูการปนเปื้อนตะกั่วในห้วยคลิตี้' (Director of ADPC follows up on the progress of lead contamination cleanup in Huay Kliti). Below this, there are six circular icons representing different areas of focus: 'นโยบายและแผนระดับประเทศ' (National Policy and Plan), 'การจัดการคุณภาพน้ำ' (Water Quality Management), 'การจัดการคุณภาพอากาศและเสียง' (Air and Noise Quality Management), 'การจัดการขยะมูลฝอย' (Waste Management), 'สารเคมีและของเสียอันตราย' (Chemicals and Hazardous Waste), and 'กฎหมายและมาตรฐาน' (Law and Standards). The bottom section contains three columns of news items, each with a date and a brief description of the event or report.

หน้าแรก  
เกี่ยวกับ คพ.  
ข้อมูลและบริการ  
ประชาสัมพันธ์  
ดาวน์โหลด  
ติดต่อเรา  
Site Map

ค้นหาข้อมูลกรมควบคุมมลพิษ ค้นหา หน่วยงานในสังกัด

สิ่งแวดล้อม ความคม แก้วไข่มุกพิษเพื่อคุณภาพสิ่งแวดล้อม อยู่ในเกณฑ์มาตรฐาน ภายในปี 2569

อธิบดี คพ. ติดตามความก้าวหน้า การฟื้นฟูการปนเปื้อนตะกั่วในห้วยคลิตี้

นโยบายและแผนระดับประเทศ การจัดการคุณภาพน้ำ การจัดการคุณภาพอากาศและเสียง การจัดการขยะมูลฝอย สารเคมีและของเสียอันตราย กฎหมายและมาตรฐาน

ข้อมูลใหม่

- 12 ก.พ. 62 ความรู้เกี่ยวกับ PM2.5...
- 17 ส.ค. 63 ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดให้รถโดยสารเป็นแหล่งกำเนิดมลพิษที่จะต้องถูก...

ข่าว คพ.

- 13 ส.ค. 63 อธิบดี คพ. ติดตามความก้าวหน้าการฟื้นฟูการปนเปื้อนตะกั่วในห้วยคลิตี้...
- 10 ส.ค. 63 รู้จัก...แอมโมเนียมไนเตรต (Ammonium Nitrate)...
- 10 ส.ค. 63 คพ. จัดทำระบบเฝ้า...

สิ่งแวดล้อม

- รายงานระดับเสียง
- รายงานคุณภาพอากาศ
- คุณภาพแหล่งน้ำผิวดินทั่วประเทศ
- รายงานแหล่งเงินต้น...

Thailand's Pollution Control Department linking the ADPC/SERVIR-Mekong air quality forecasting to its web site → scaling to support the ASEAN Agreement on Transboundary Haze Pollution

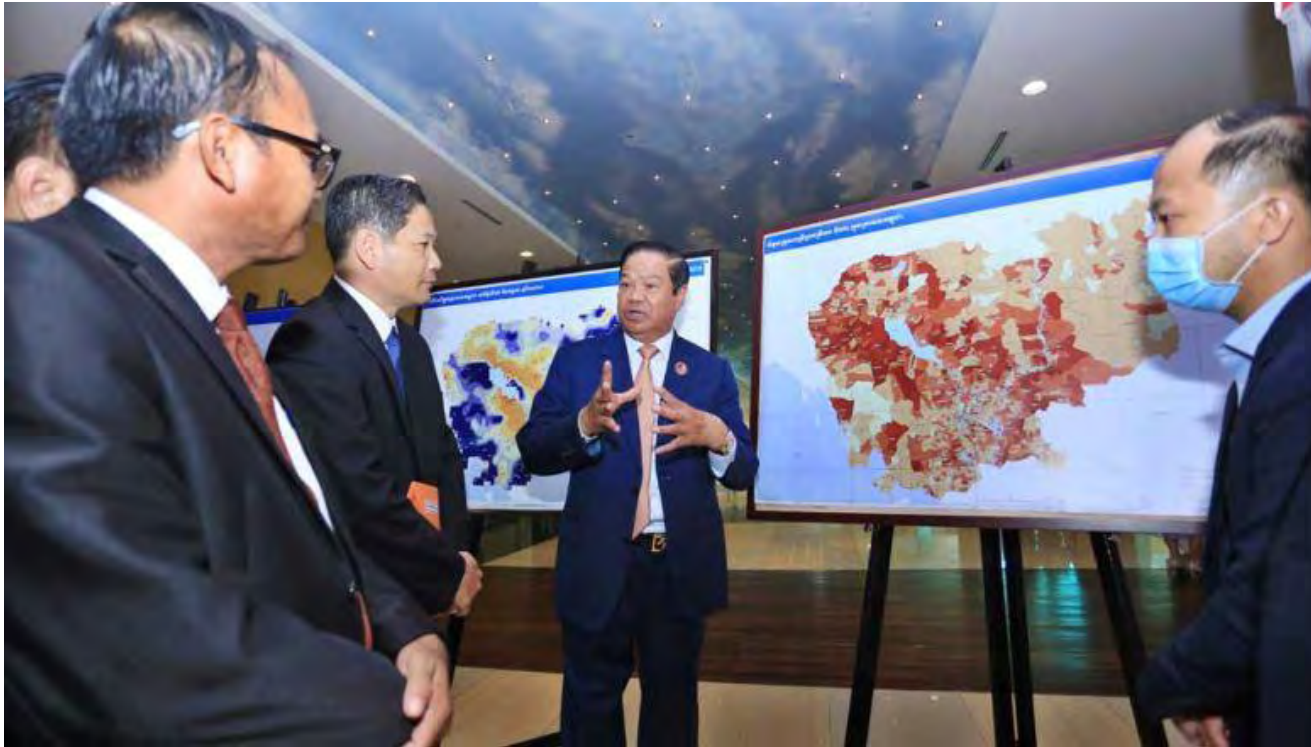
# Achievement



Synthetic-aperture radar (SAR) data integrated to reservoir operation by Institute for Water and Environment (IWE) in 2018



# Achievement



WFP adopted ADPC/SERVIR-Mekong's flood and drought data into its Platform for Real-Time Information Systems (PRISM) for Cambodia and Myanmar

Source: Phnom Penh Post, "Prism warning system upgraded," July 20, 2020



FLOOD SITUATION OVERVIEW

Since 1 October, Cambodia has experienced heavy rainfall across much of the country. As of 26 October, about 175,872 households in 14 provinces, including Phnom Penh, are reported to be affected by flash floods. In these areas, houses, infrastructure (roads, schools, health centres) and agricultural land have been inundated. The worst affected provinces are listed in the table below. Flood waters have receded in some areas. More rainfall is forecasted from approaching tropical storms Saudel and Molave, which will cross Vietnam this week.

FLOOD IMPACT DASHBOARD



175,872 households affected



22 health centres affected



14,299 households displaced



686 schools affected



38 persons have died



2,148,433 meters of road affected



161,552 houses affected



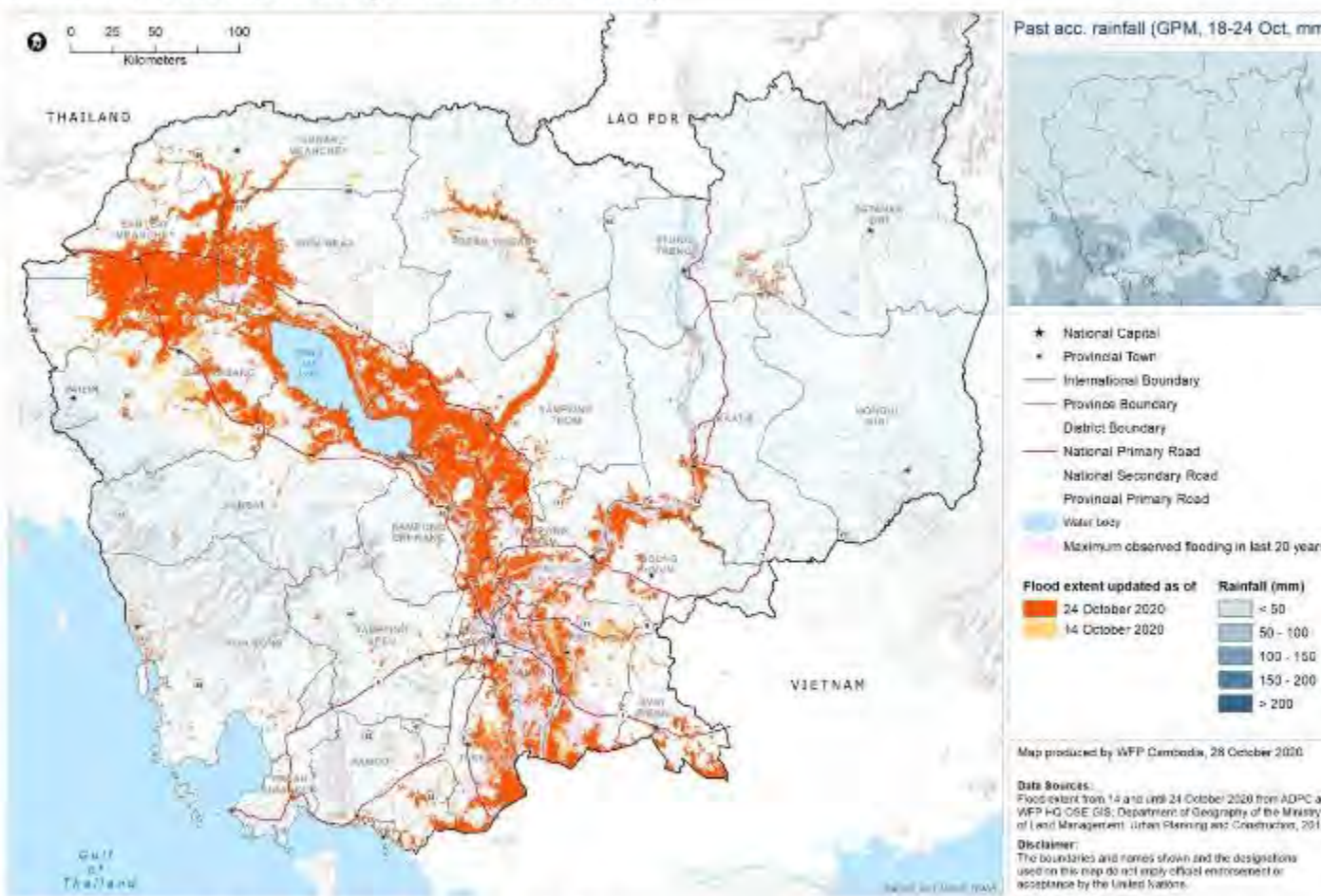
329,754 ha of agricultural land affected

FLOOD IMPACT BREAKDOWN BY PROVINCE\*

Province	Households affected	Households displaced	Deaths	Houses affected	Health centres affected	Schools affected	Length of road affected (meter)	Agricultural land affected (hectare)	Report date by PCDM
Battambang	66,088	4,592	-	66,067	-	316	1,188,703	164,116	21-Oct
Banteay Meanchey	41,927	5,437	23	41,927	8	191	74,996	75,620	26-Oct
Pursat	29,172	1,911	6	24,772	3	26	336,588	47,190	26-Oct
Kampong Thom	11,709	-	6	11,709	1	92	87,989	11,481	22-Oct
Phnom Penh	5,587	1,593	-	4,965	-	-	10,000	1,350	21-Oct
Kandal	6,538	129	-	2,558	5	22	142,761	10,604	26-Oct
Svay Rieng	3,480	36	-	1,196	1	1	16,760	2,504	26-Oct
Kampong Speu	2,421	212	-	1,697	-	1	16,229	3,196	26-Oct
Pailin	1,310	253	1	1,227	-	2	55,670	4,784	21-Oct
Stung Treng	1,226	57	1	861	1	3	71,950	1,209	26-Oct
Takeo	1,948	-	-	1,948	-	3	102,221	1,868	21-Oct
Siem Reap	3,680	29	1	2,280	2	15	36,436	1,302	21-Oct
Preah Vihear	365	46	-	345	-	-	3,480	2,986	26-Oct
Oddar Meanchey	421	4	-	-	1	14	4,650	1,544	21-Oct
TOTAL	175,872	14,299	38	161,552	22	686	2,148,433	329,754	

\*Data presented above is the latest available from Provincial Committees for Disaster Management. Due to the time lag in reporting and rapidly evolving situation the flood impact data is subject to change each day.

SATELLITE-DETECTED WATER (as of 24 October 2020)



\*Provincial-level maps are available for six provinces in the Annex.

**TECHNICAL NOTE:** The daily satellite-detected water (as of 24 October) displayed in this map was produced by the Asian Disaster Preparedness Center (ADPC) and [SERVIR-Mekong](#) program. Additional satellite data from ESA Sentinel-1 on 14 October and a five-day flood detection composite from NOAA VIIRS between 20-24 October were produced by the World Food Programme Headquarters Geospatial Support Unit. The maps in this sitrep were prepared by the World Food Programme Cambodia. Flood extent was extracted from this data by considering annual permanent and recurrent surface water; note that this is not validated in the field and the maps provide a snapshot that is subject to satellite revisit time and data latency. Satellite imagery is also susceptible to image artifacts.



# Capacity Built and Sustained through Co-development and Co-investment



Vietnam Academy for  
Water Resources

Drought Monitoring

Vietnam Forest  
Inventory & Planning  
Institute

Google Earth Engine  
Training



MRC's Technical  
Division

Regional Land Cover Maps

MRC's Regional Flood  
and Drought  
Management Center

Flood & Drought  
Forecasting