



**Mekong River Commission**

**Weekly Dry Season Situation Report in  
the Lower Mekong River Basin  
30 January – 05 February 2024**

Prepared by  
The Regional Flood and Drought Management Centre  
06 February 2024

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Mekong River Commission

Documentation and Learning Centre

184 Fa Ngoum Road, Unit 18, Ban Sithane Neua, Sikhottabong District, Vientiane 01000, Lao PDR

Telephone: +856-21 263 263 | E-mail: [mracs@mrcmekong.org](mailto:mracs@mrcmekong.org) | [www.mrcmekong.org](http://www.mrcmekong.org)

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## Key Messages

Key messages for this weekly report are presented below.

### Rainfall monitoring and forecast

- In the period of 29 January - 05 February 2024, there is no significant rainfall recorded at the key stations along the Mekong River. The light rainfall has been observed at the central part of Lower Mekong Basin, particularly in Thailand.
- The Mekong region was influenced by north-easterly monsoon wind and the high-pressure push from China. There will be no rainfall to light rain accumulated for the next seven days over the lower part of the Mekong region from 06 to 12 February 2024.

### Water level monitoring and forecast

- The water level monitoring at 22 key stations is below the long-term averages (LTAs) except for water level at Luang Prabang, Vientiane, Khong Chiam, Stung Treng and Kratie monitoring stations. However, the 9 monitoring stations remains in normal condition with respect to the flow threshold (PMFM for Observed Water Level) except for Tan Chau and Chau Doc monitoring stations, which significantly influenced by sea tidal fluctuation.
- In the period of 06-12 February, the water level at 22 key stations is expected to slightly decrease at the upper stretch of the Mekong River starting from Chiang Saen to Mukdahan. However, the water levels from Savannakhet to Kratie are expected to slightly increase, while from Kampong Cham to Prek Kdam, it is predicted to be decreased. The two monitoring stations (Tan Chau and Chau Doc) are expected to increase.

### Drought condition and forecast

- During 30 January – 5 February, the LMB was facing from moderate to severe drought over the middle and southern parts. They covered Chiang Rai, Vientiane, Xaisomboun, Xiangkhouang, Bolikhamxai, Khammouan, Bueng Kan, Nakhon Phanom, Sakon Nakhon, Udon Thani, Savannakhet, Salavan, Xekong, Champasak, Attapeu, Roi Et, Yasothon, Amnat Charoen, Ubon Ratchathani, Sa Sa Ket, Surin, Otdar Meanchey, Siem Reap, Preah Vihear, Kampong Thom, Kratie, Stung Treng, Tbong Khmum, Mondulkiri, Ratanakiri, Gia Lai, Dak Lak, and Dak Nong.
- In February the LMB is likely normal and wet all over the region; March is likely to be at moderate dry over the northern and western parts; while April is likely normal and wet except Phongsaly in the north that is forecasted to be at moderately and severely dry.

# 1 Introduction

This Weekly Dry Season Situation Report presents a preliminary analysis of the weekly hydrological situation in the Lower Mekong River Basin (LMB) for **30 January-05 February 2024**. The trend and outlook for water levels are also presented.

This analysis is based on the daily hydro-meteorological data provided by the Mekong River Commission (MRC) Member Countries – Cambodia, Lao PDR, Thailand, and Viet Nam – and on satellite data. Water level indicated in this report refers to an above zero gauge of each station.

The report covers the following topics that are updated weekly:

- General weather patterns, including rainfall patterns over the LMB.
- Water levels in the LMB, including in the Tonle Sap Lake.
- Flash flood and drought situation in the LMB.
- Weather, water level and flash flood forecast, and
- Possible implications.

Mekong River water levels are updated daily and can be accessed from:

[http://ffw.mrcmekong.org/bulletin\\_wet.php](http://ffw.mrcmekong.org/bulletin_wet.php).

Drought monitoring and forecasting information is available at:

<http://droughtforecast.mrcmekong.org>

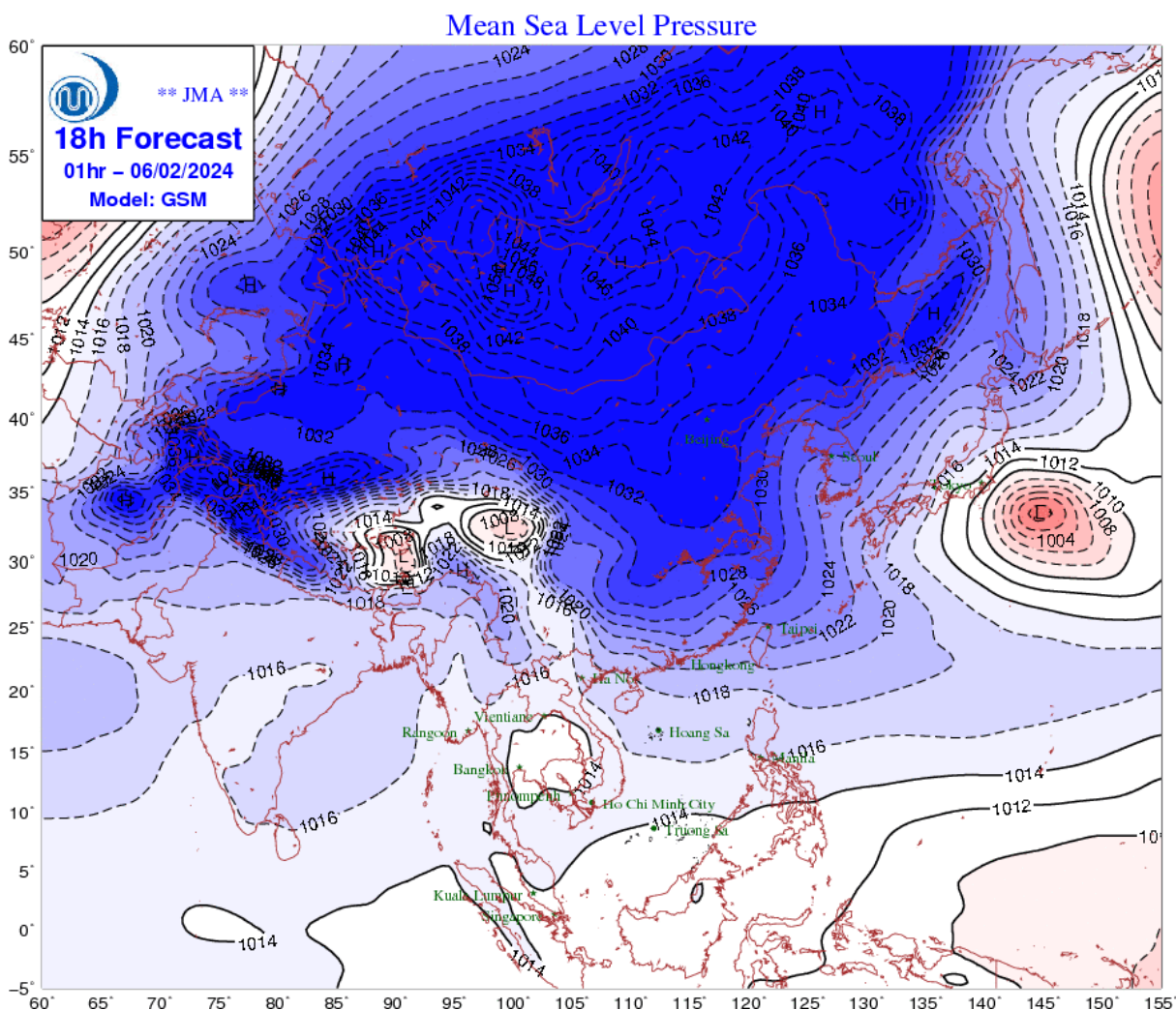
Flash flood information is accessible at: <http://ffw.mrcmekong.org/ffg.php>



## 2 General Weather Patterns

The weak high-pressure system covers the upper part of LMB while the weak easterly and southeasterly winds prevail over the lower part. As a result, isolated rainfall occurred in some areas of the LMB.

**Figure 1** presents the weather map indicating no high- or low-pressure cells active in the South Sea of Viet Nam and the LMB. Generally, the Mekong region was influenced by the weak high-pressure push from China.



**Figure 1: Weather conditions over the LMB**

According to the ASEAN Specialised Meteorological Centre (ASMC, <http://asmc.asean.org/home/>), the subseasonal weather outlook (5 – 18 February 2024) indicates that the drier condition is predicted to occur in the Lower Mekong Basin (LMB), particularly the south-western part. Moreover, cooler condition will be observed at almost entire LMB and more significant at the central to upper part of the LMB. **Figure 2** shows the outlook of weather condition from 5 to 18 February 2024 in Southeast Asia based on results from the NCEP model (National Centres for Environmental Prediction).

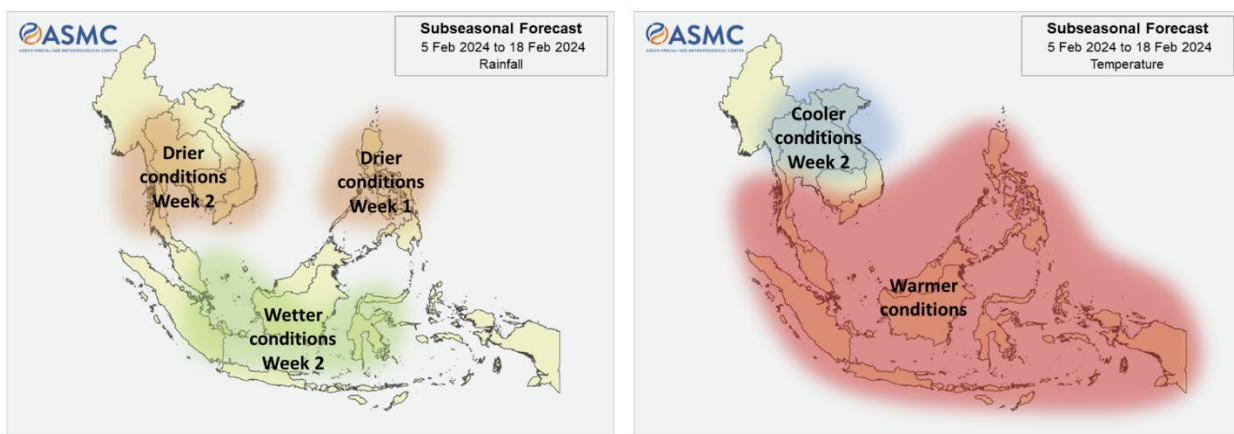


Figure 2: Outlook of wet and dry conditions over the Asian countries by ASMC.

Based on the tropical storm risk (TS) (<https://www.tropicalstormrisk.com/>), there is no active NW pacific system as of 05 February as displayed in Figure 3.

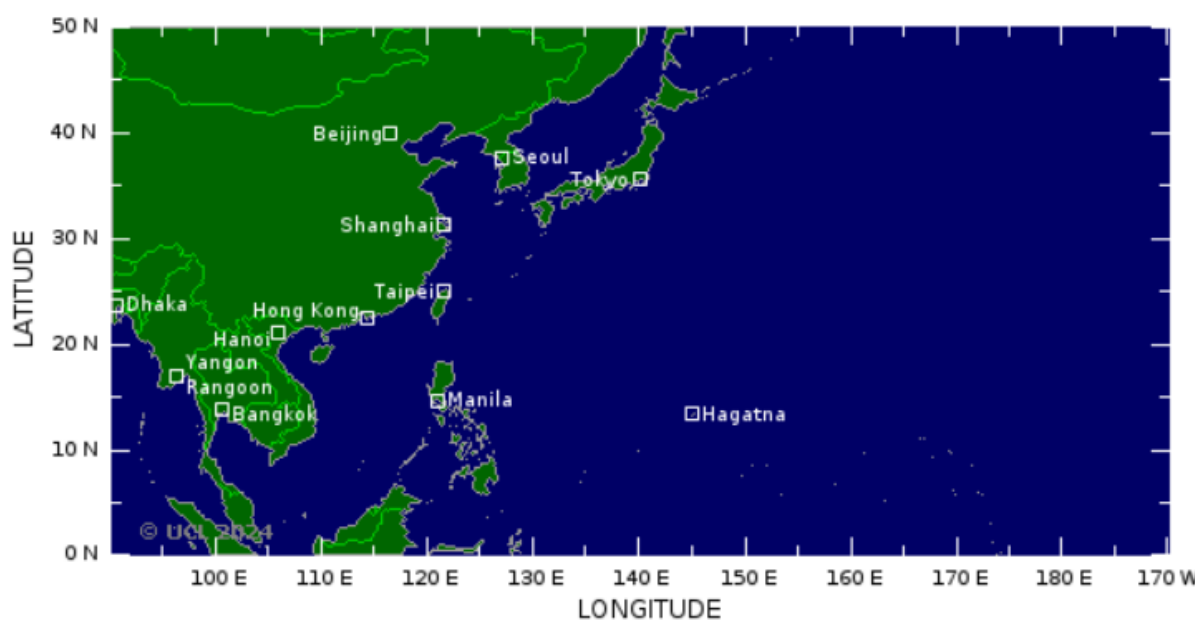


Figure 3: No tropical storm risk observed on 05 February 2024

### 3. Rainfall and Water Level Monitoring

#### 3.1. Rainfall monitoring

The weekly accumulated rainfall based on the observed data provided by the MRC Member Countries – Cambodia, Lao PDR, Thailand, and Viet Nam – from 30 January to 05 February 2024 (Figure 4). Over the entire basin, the rainfall has been observed to be between no rain to relatively low. However, slight rainfall occurrence has been found in the central part of the basin, particularly in Thailand.

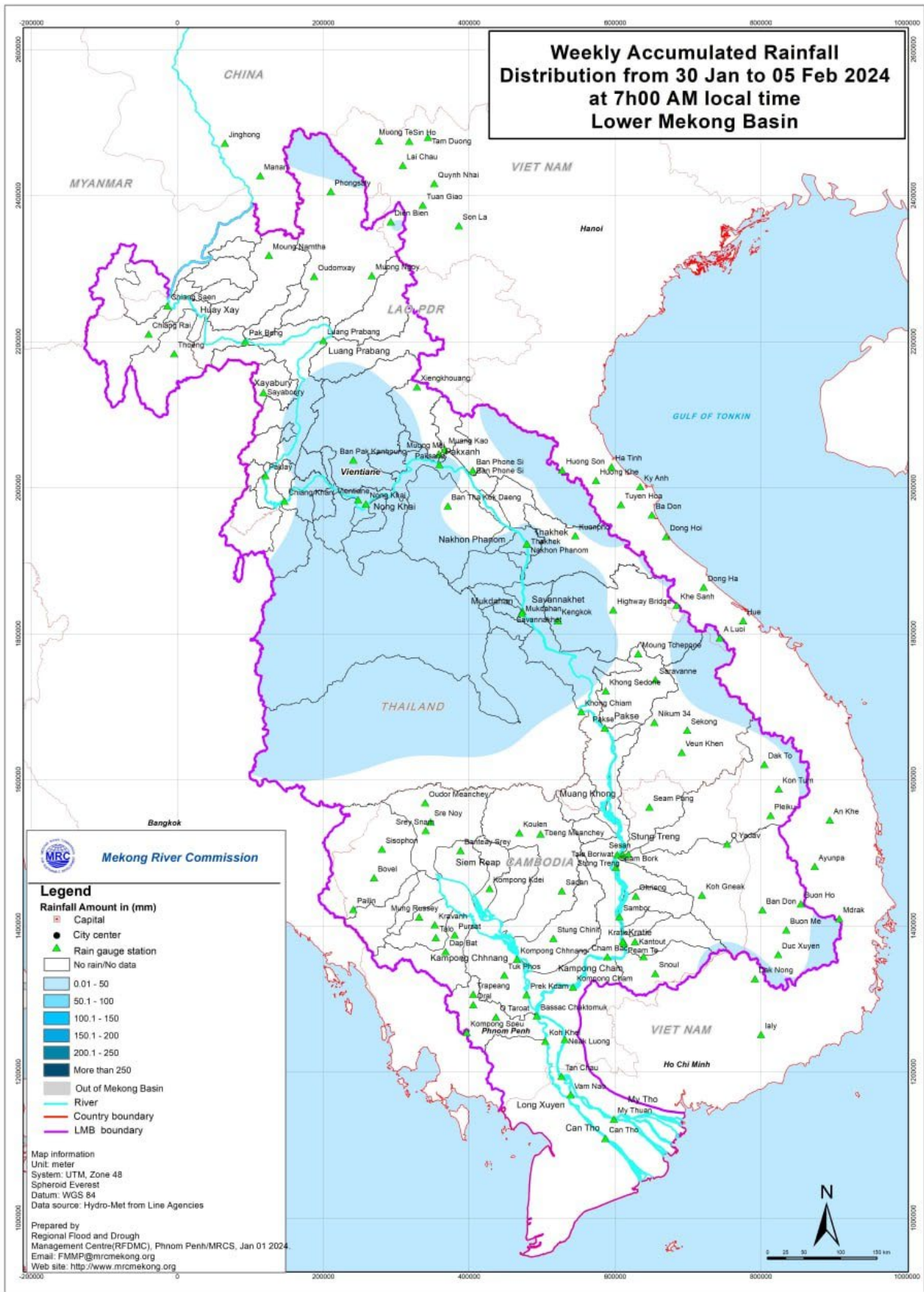


Figure 4: Weekly rainfall distribution over the LMB during 30 January-05 February 2024

### 3.2. Water level monitoring

The hydrological regimes of the Mekong mainstream are illustrated by recorded water levels and flows at key mainstream stations: at Chiang Saen to capture mainstream flows entering from the Upper Mekong Basin (UMB); at Vientiane to present flows generated by climate conditions in the upper part of the LMB; at Pakse to investigate flows influenced by inflows from the larger Mekong tributaries; at Kratie in Cambodia to capture overall flows of the Mekong Basin; and at Viet Nam's Tan Chau and Chau Doc to monitor flows to the Delta.

The key stations along the LMB and their respective model application for River Flood Forecasting during the wet season from June to October and River Monitoring during the dry season from November to May are presented in **Figure 5**. The hydrograph for each key station is available from the MRC's River Flood Forecasting: <http://ffw.mrcmekong.org/overview.php>.

During 30 January-05 February 2024, the observed water level (WL) at Jinghong hydrological station<sup>1</sup>, was slightly fluctuated between 535.23 m and 535.27 m, which are corresponding to the outflow between 827.00 m<sup>3</sup>/s to 853.00 m<sup>3</sup>/s (recorded on 7:00 am), respectively (**Figure 6**). The water level in Chiang Saen station also indicated a slight fluctuation ranging from 1.92 m to 1.72 m with a decreasing trend. At the same period, the water level in Luang Prabang station also slightly decreased with an approximate value of 0.4 m as compared to the previous week.

During the same period, the water level observed in Chiang Khan showed a decreasing trend ranging from 4.44 m to 3.9 m. Similarly, the water level at Vientiane monitoring station indicated a slight decreasing trend, while in Nong Khai has increasing trend ranging from 1.22 m to 4.0 m as compared from previous week. In Paksane monitoring station, the water level decreased from 1.98 m to 1.90 m.

Further downstream, water levels from Nakhon Phanom to Pakse slightly changed with increasing trends. From the previous week, the water levels at the Nakhon Phanom, Thakhek, Mukdahan, Savannakhet, Khong Chiam, and Pakse slightly varied in range of 1.21-1.53 m, 2.54-2.85 m, 1.70-1.95 m, 0.84-1.04 m, 2.13-2.28 m, and 1.10-1.20 m, respectively.

The water levels at Stung Treng, and Kratie stations slightly increased approximately 0.3 m and 0.25 m, respectively from the previous week. However, at Kampong Cham station, water level decreased approximately 0.50 m.

The water level at Phnom Penh (Bassac), Phnom Penh Port, and Koh Khel (Bassac), Prek Kdam and Neak Luong stations decreased from 2.26 to 2.10 m, 1.33 to 1.27 m, 2.42 to 2.24 m, 1.57 to 1.26 m, and 1.70 to 1.52 m respectively during 30 January-05 February 2024.

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<sup>1</sup> Near-real time data of hydro-meteorological monitoring at the Jinghong hydrological station is available at <https://portal.mrcmekong.org/monitoring/river-monitoring-telemetry>.

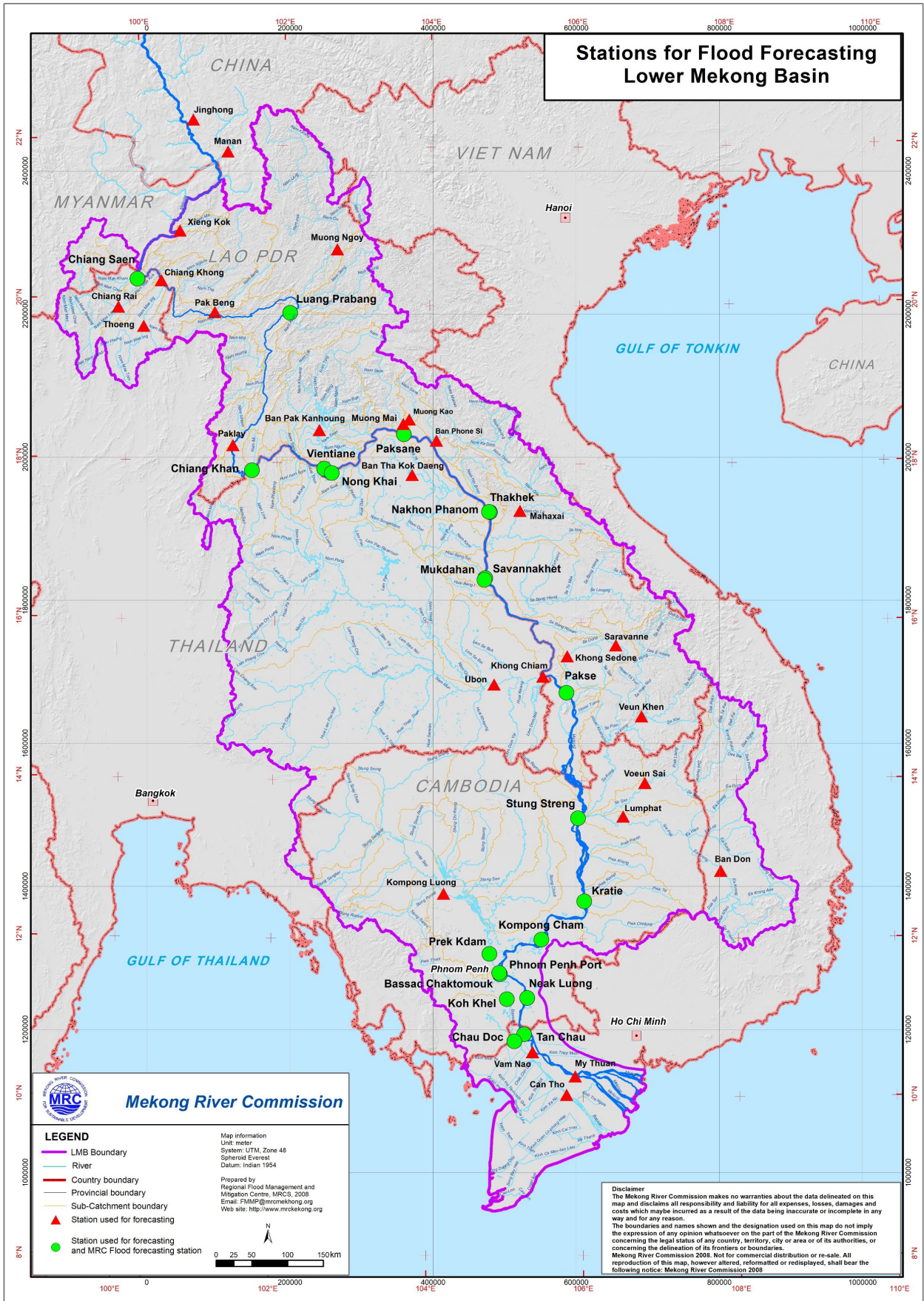
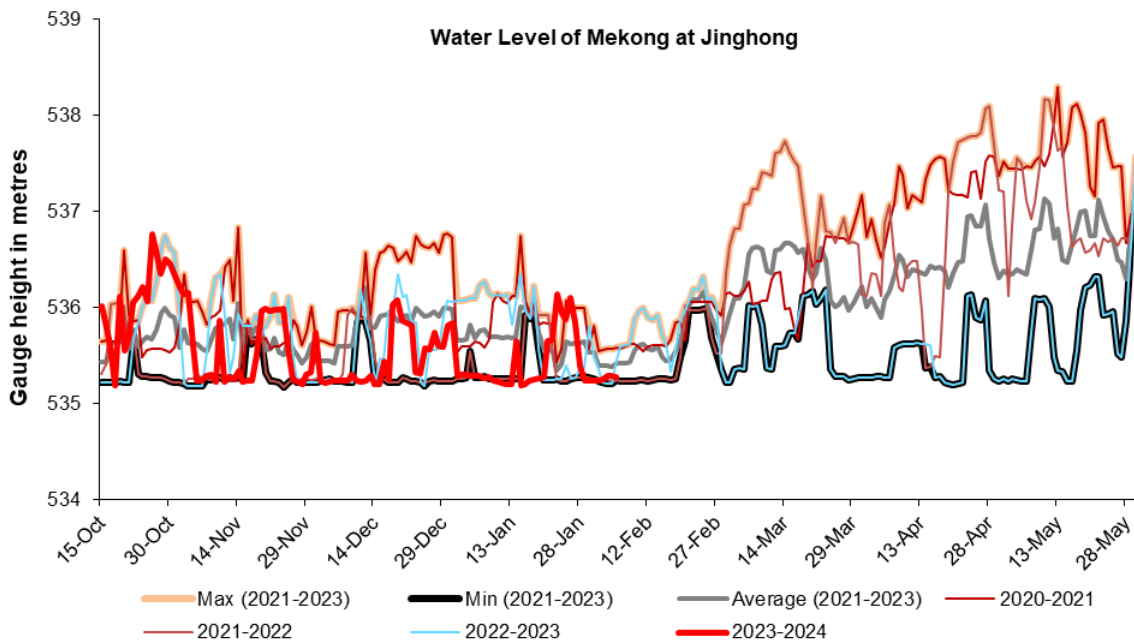


Figure 5: The key stations along LMB for river flood forecasting

Similar to the previous week, the water levels from 30 January to 05 February 2024 at Viet Nam’s Tan Chau and Chau Doc fluctuated between their LTA values due to daily tidal effects from the sea. At the Tan Chau station, the water levels varied between 0.74 m and 0.19 m, while at the Chau Doc station, they ranged from 0.89 m to 0.30 m.

It should be noted that the water levels in all key monitoring stations on 05 February 2024 are below their long-term averages (LTAs) except for the Luang Prabang, Viettiane, Khong Chiam, Stung Treng, and Kratie monitoring stations. The graphics of water level monitoring in all key stations are presented in **Annex A** and the weekly water levels and rainfall at each key station are summarised in **Annex B**.



**Figure 6. Water level at the Jinghong hydrological station up to 05 February 2024.**

At the end of the wet season, when water levels along the Mekong River subside, the outflow of the Tonle Sap Lake (TSL) returns to the Mekong River and then to the Delta. This phenomenon normally takes place between September and October. Based on flow observation at Prek Kdam monitoring station, the outflow of the Tonle Sap Lake took place since 28 September 2023.

The outflow flow is calculated based on a formula of rating-curves using by difference of water levels at Kompong Luong and Phnom Penh Port stations for slop and Prek Kdam as cross-section of the Lake. The formula of flow is as follows:

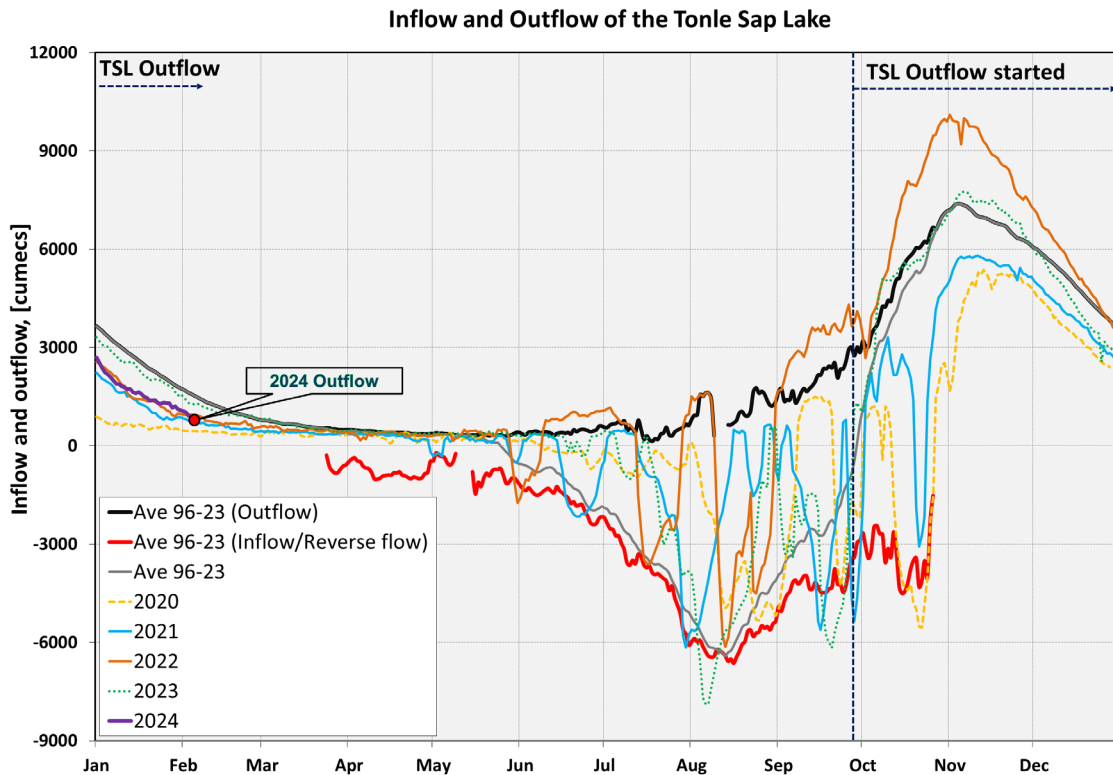
$$Flow = WL_{Prek\ Kdam}^{1.2} \times \sqrt{|WL_{Phnom\ Penh\ Port} - WL_{Kompong\ Luong}|}$$

Where, WL is water level in m (msl).

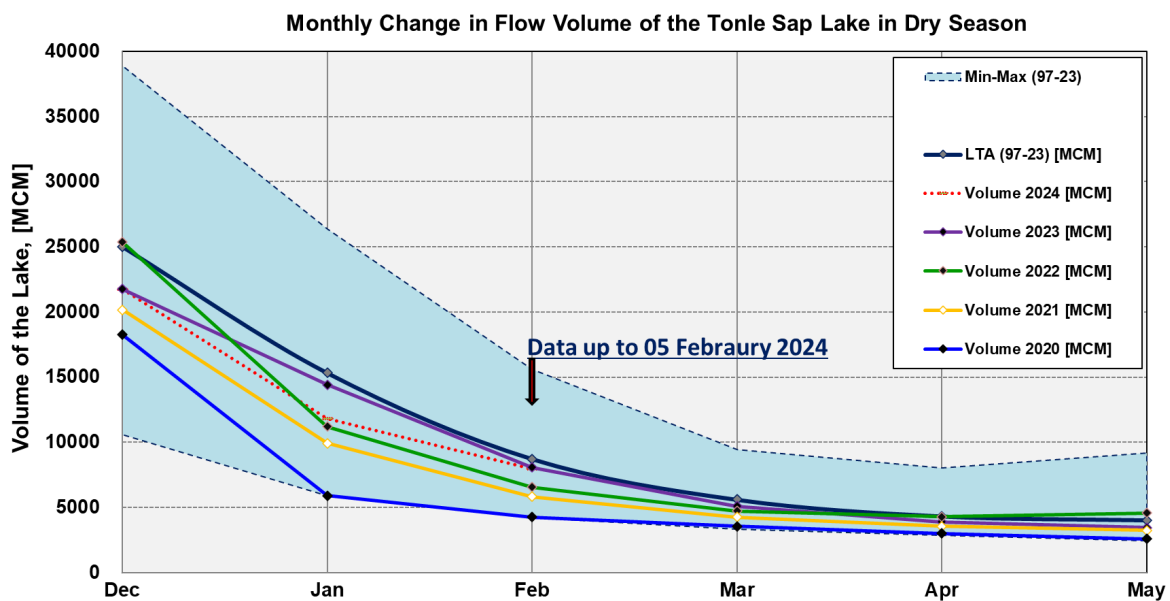
The seasonal changes of the inflow/reverse flow and the outflow of the TSL at Prek Kdam in comparison with the flows of 2020, 2021 and 2022, 2023 and their LTA level (1997-2023) are

illustrated in **Figure 8**. Up to 05 February 2024, it was observed that the main outflow to Tonle Sap Lake decreased due to no rainfall and less inflows from upstream (**Figure 8**). This decreased outflow of Tonle Sap Lake was most likely caused by low inflows from its tributaries.

The seasonal changes in monthly flow volumes up to 05 February 2024 for the Tonle Sap Lake compared with that in 2020, 2021, 2022, 2023 and their LTAs, and the fluctuation levels (1997–2023) are presented in **Table 8**. The mean monthly water volume of the Tonle Sap Lake in January 2024 is lower than its LTA (about 77.17 %) and 2023 but higher than that in 2019, 2020, 2021 and 2022 during the same period (**Figure 8 and Table 1**).



**Figure 7: Seasonal change of inflows and outflows of Tonle Sap Lake.**



**Figure 8. The seasonal change in monthly flow volume of Tonle Sap Lake.**

**Table 1. The monthly change in the flow volume of Tonle Sap Lake.**

Month	LTA (97-22) [MCM]	Max Volume [MCM]	Min Volume [MCM]	Volume 2019 [MCM]	Volume 2020 [MCM]	Volume 2021 [MCM]	Volume 2022 [MCM]	Volume 2023 [MCM]	Volume 2024 [MCM]	Volume in 2024 [%], compared with its LTA
Jan	15322.86	26357.53	5906.80	10285.31	5906.80	9923.80	11214.32	14422.11	11824.86	77.17
Feb	8723.39	15596.22	4198.60	6019.30	4264.19	5832.97	6558.79	8069.29	7962.77	91.28
Mar	5602.68	9438.24	3347.07	4354.62	3553.99	4264.88	4736.52	5080.64		
Apr	4327.36	8009.14	2866.91	3667.47	2992.61	3556.68	4288.31	3884.16		
May	4027.82	9176.93	2417.81	3266.43	2594.92	3240.78	4556.83	3438.66		
Jun	5699.50	13635.01	2468.70	3517.06	2641.88	3798.29	7489.04	3689.97		
Jul	11188.79	28599.56	2925.86	4001.99	2925.86	5346.73	9703.79	9953.41		
Aug	24070.98	39015.12	4433.46	7622.71	5941.07	10547.80	19554.70	13694.57		
Sep	38787.47	65632.35	12105.31	24194.19	12105.31	16382.34	32860.34	23550.60		
Oct	46562.09	73757.23	19705.50	30358.38	20799.13	27318.21	48199.12	37141.40		
Nov	37739.30	60367.33	18534.61	19112.65	27546.80	28982.93	39452.53	33929.52		
Dec	25009.52	38888.95	10563.49	10577.29	18251.65	20170.76	25346.65	21757.70		
	Critical situation: lower than long-term minimum values (LTMIN)									
	Normal condition: within the range of long-term min (LTMIN) and max (LTMAX) values									
	Low volume situation: lower than long-term average (LTA)									
Unit: Million Cubic Meter (1 MCM= 0.001 Km <sup>3</sup> )										

## 4. Flash Flood in the Lower Mekong Basin

During the weekly monitoring period from 30 January to 05 February, the LMB received no rain to light rain in some areas.

According to the MRC-Flash Flood Guidance System (MRC-FFGS) and analysis, flash flood events were not detected during the reporting period over the LMB.

## 5. Drought Monitoring in the Lower Mekong Basin

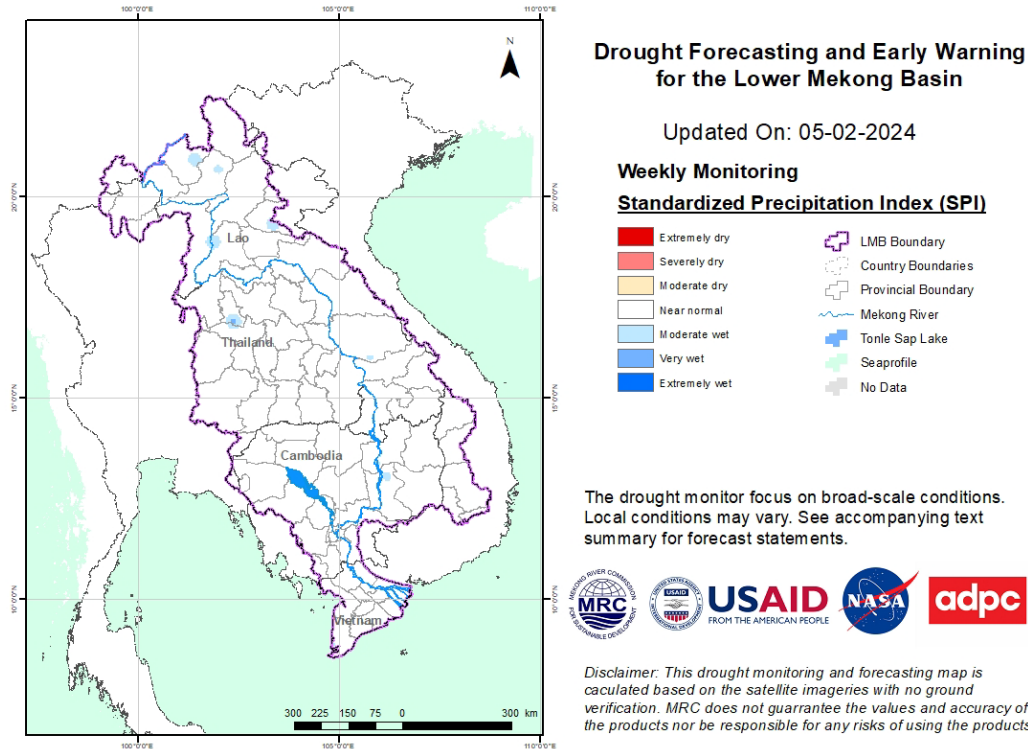
### 5.1. Weekly drought monitoring from Jan 30 to Feb 5

Drought monitoring data for 2024 are available from Monday to Sunday every week; thus, the reporting period is normally delayed by one day compared to Flood and Flash Flood reports. We adopt the Index of Soil Water Fraction (ISWF) data obtained from FFGS to represent soil moisture of agricultural indicator for both dry and wet seasons.



- **Weekly Standardised Precipitation Index (SPI1)**

Meteorological drought conditions of the LMB from 30 January to 5 February, as shown in **Figure 9**, were normal in all parts of the region. The conditions were similar to those of last week from Jan 23 to 29.

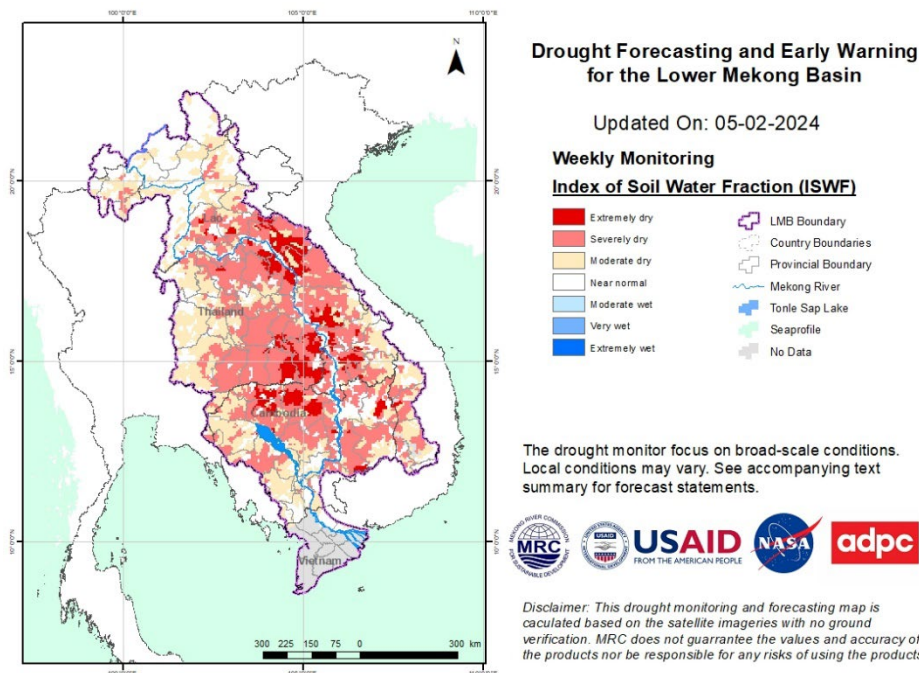


**Figure 9: Weekly standardised precipitation index from 30 January to 5 February.**

- **Weekly Index of Soil Water Fraction (ISWF)**

Soil moisture conditions from 30 January to 5 February, as displayed in **Figure 10**, were severely dry from the north to the south due to absence of rainfall. The conditions were similar to those of the previous week.

**Note:** The index of soil water fraction presents the current soil water fraction conditions compared with normal month; therefore, it normally shows extremely dry during dry season which is completely different from SPI that is standardized to its specific month of the years. However, this does not mean that the areas are threatened by agricultural drought as generally during transition period of wet and dry seasons and dry season only the irrigated areas are used for agricultural plantation.



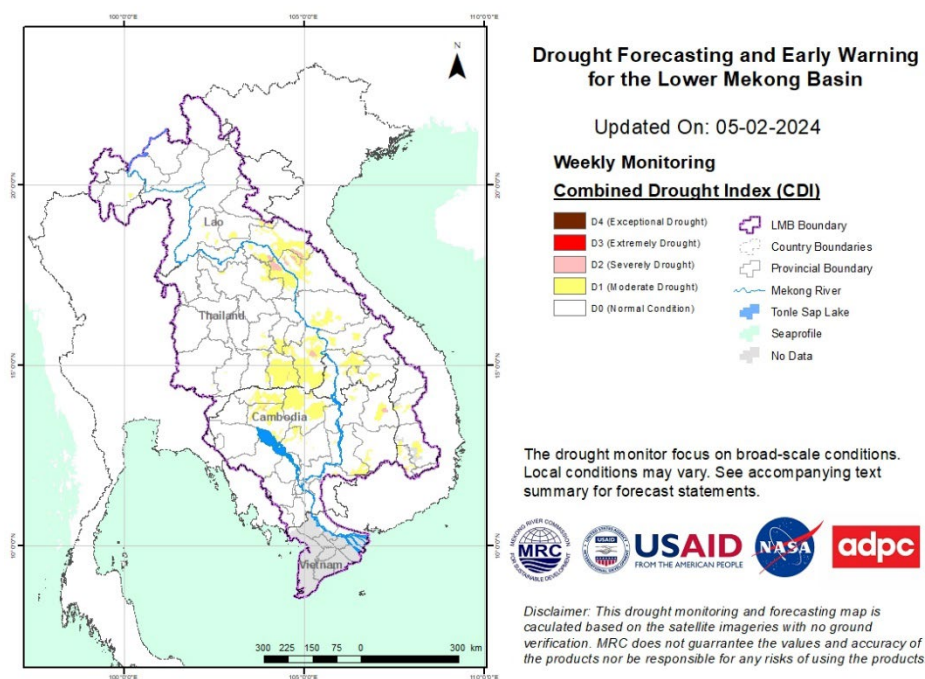
**Figure 10: Weekly Index of Soil Water Fraction from 30 January to 5 February.**

- Weekly Combined Drought Index (CDI)**

With the dry conditions of soil moisture, the combined drought indicator (displayed in **Figure 11**) reveals that during 30 January to 5 February, the LMB was facing from moderate to severe drought over the middle and southern parts. They covered Chiang Rai, Vientiane, Xaisomboun, Xiangkhouang, Bolikhamxai, Khammouan, Bueng Kan, Nakhon Phanom, Sakon Nakhon, Udon Thani, Savannakhet, Salavan, Xekong, Champasak, Attapeu, Roi Et, Yasothon, Amnat Charoen, Ubon Ratchathani, Sa Sa Ket, Surin, Otdar Meanchey, Siem Reap, Preah Vihear, Kampong Thom, Kratie, Stung Treng, Tbong Khmum, Mondulkiri, Ratanakiri, Gia Lai, Dak Lak, and Dak Nong. The impacted areas are listed in the table below:

**Table 2: List of the impacted areas by the CDI during 30 January-5 February.**

Number	Country	Province	Mderate	Severe	Extreme	Exceptional	Number	Country	Province	Mderate	Severe	Extreme	Exceptional
1	Cambodia	Otdar Meanchey					19	Thailand	Chiang Rai				
2	Cambodia	Siem Reap					20	Thailand	Bueng Kan				
3	Cambodia	Preah Vihear					21	Thailand	Nakhon Phanom				
4	Cambodia	Stung treng					22	Thailand	Surin				
5	Cambodia	Ratana Kiri					23	Thailand	Si Sa Ket				
6	Cambodia	Mondulkiri					24	Thailand	Ubon Ratchathani				
7	Cambodia	Tbong Khmum					25	Thailand	Roi Et				
8	Cambodia	Kampong Thom					26	Thailand	Yasothon				
9	Cambodia	Kratie					27	Thailand	Amnat Charoen				
10	Laos	Vientiane					28	Viet Nam	Kon Tum				
11	Laos	Xaisomboun					29	Viet Nam	Gia Lai				
12	Laos	Borikhamxai					30	Viet Nam	Dak Lak				
13	Laos	Khammouan					31	Viet Nam	Dak Nong				
14	Laos	Svannakhet					32	Viet Nam	Kien Giang				
15	Laos	Salavan					33	Viet Nam	Dong Thap				
16	Laos	Xekong							Moderate		Severe		
17	Laos	Champasak							Severe		Exceptional		



**Figure 11: Weekly Combined Drought Index from Jan 30 to Feb 5.**

More information on Drought Forecasting and Early Warning (DFEW) as well as the explanation is available here: <http://droughtforecast.mrcmekong.org/templates/view/our-product>. DFEW provides not only weekly monitoring and forecasting information but also a three-month forecast of drought indicators with seasonal outlook which are updated every month based on international weather forecast models. Details on drought forecast are described in section 6.4 of this report.

## 6 Weather and Water Level Forecast and Flash Flood Information

### 6.1 Rainfall forecast

During 30 January-05 February 2024, the accumulated rainfall over the Lower Mekong Basin is distributed with no rain to light rain based Global Forecast System (GFS) (**Figure 12**).

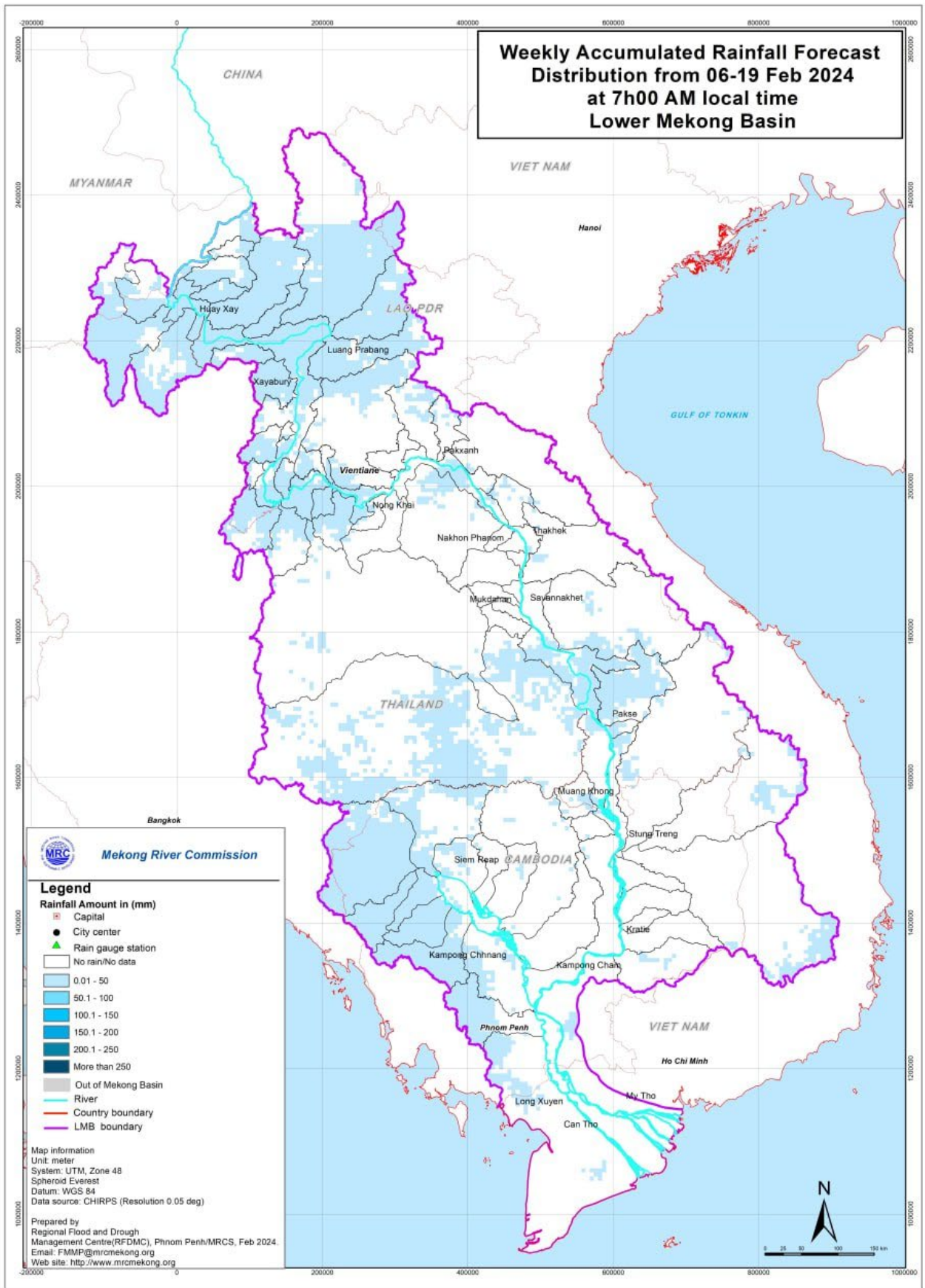


Figure 12: Accumulated rainfall forecast from CHIRP-GFS (06-19 February 2024)

## 6.2 Water level forecast

In Chiang Saen monitoring station, the water level is expected to be fluctuated over the forecasting period of 06 - 12 February 2024. However, it will slightly decrease from 1.72 m to 1.65 m. The water level in Luang Prabang stations affected by backwater is likely slightly decreasing from 8.68 to 8.62 m. Similarly, at Chiang Khan monitoring station, the water level likely decreases approximately 0.10 m in the next seven days. Moving down to the monitoring stations at Vientiane, Nong Khai, Paksane, Nakhon Phanom, thakhek, Mukdahan, Savannakhet, the water levels are expected to slightly decrease during the forecast period with values of 0.13 m, 0.18 m, 0.04, 0.16 m, 0.19 m, 0.11 m, and 0.01 m, respectively. However, at monitoring stations starting from Khong Chiam to Stung Treng, the water levels are predicted to slightly increase in the next seven days ranging from 0.01 m to 0.08 m. The remaining monitoring stations in Cambodia including Kampong Cham, Phnom Penh (Bassac), Phnom Penh Port, Koh Khel, Prek Kdam, the water levels are expected to decrease with values of 0.04 m, 0.13 m, 0.12 m, 0.12 m, 0.14 m, and 0.19 m, respectively. For the Tan Chau station on the Mekong River and Chau Doc station on the Bassac River, water levels will slightly rise approximately 0.00 m and 0.08 m, respectively, following daily tidal effects from the sea.

The weekly River Monitoring Bulletin and forecasting issued on 05 February 2024 can be found in **Table 2**. Results of the weekly river monitoring and forecasting bulletin are also available at <http://ffw.mrcmekong.org/bulletin.php>

**Table 3. Weekly River Monitoring Bulletin.**



## Mekong Bulletin

Mekong River Commission Secretariat (MRCS)  
 Regional Flood and Drought Management Centre (RFDMC)  
 P.O. Box 623 #576, National Road #2, Chak Angre Krom, Meanchey, Phnom Penh, Cambodia  
 Tel: (855-23) 425353, Fax: (855-23) 425363, Email: [floodforecast@mrcmekong.org](mailto:floodforecast@mrcmekong.org)  
 Forecast period from: 06 February to 12 February 2024

Date: 05 February 2024

LOCATION	Country	Observed Rainfall (mm)	Zero gauge above M.S.L (m)	Min water level against zero gauge (m)	Observed W. level against zero gauge (m)		Forecasted Water Levels (m)						
		04-Feb			04-Feb	05-Feb	06-Feb	07-Feb	08-Feb	09-Feb	10-Feb	11-Feb	12-Feb
Jinhong		0.0	-	-	535.28	535.27							
Chiang Saen		0.0	357.110	0.00	1.72	1.71	1.65	1.63	1.62	1.60	1.62	1.63	1.65
Luang Prabang		0.0	267.195	2.53	8.32	8.68	8.66	8.63	8.61	8.60	8.60	8.62	8.62
Chiang Khan		0.0	194.118	1.91	4.09	3.90	3.85	3.83	3.82	3.86	3.84	3.82	3.81
Vientiane		0.0	158.040	-0.28	1.71	1.63	1.56	1.53	1.51	1.50	1.54	1.52	1.50
Nongkhai		0.0	153.648	0.33	1.57	1.40	1.28	1.23	1.20	1.19	1.24	1.24	1.22
Paksane		0.0	142.125	0.10	1.92	1.90	1.88	1.86	1.85	1.83	1.83	1.87	1.86
Nakhon Phanom		0.0	130.961	0.18	1.50	1.53	1.52	1.48	1.44	1.42	1.40	1.39	1.37
Thakhek		2.3	129.629	1.38	2.82	2.85	2.84	2.80	2.75	2.73	2.70	2.68	2.66
Mukdahan		0.0	124.219	0.72	1.90	1.95	1.98	1.96	1.93	1.90	1.88	1.86	1.84
Savannakhet		0.0	125.410	-0.65	1.00	1.04	1.06	1.04	1.01	0.87	0.97	1.08	1.05
Khong Chiam		0.0	89.030	1.02	2.17	2.28	2.36	2.41	2.42	2.39	2.36	2.34	2.31
Pakse		0.0	86.490	0.03	1.08	1.20	1.28	1.32	1.34	1.31	1.28	1.25	1.22
Stung Treng		0.0	36.790	0.32	2.68	2.68	2.69	2.71	2.72	2.72	2.70	2.68	2.68
Kratie		0.0	-1.080	3.06	7.31	7.33	7.36	7.38	7.41	7.45	7.44	7.42	7.41
Kompong Cham		0.0	-0.930	0.65	2.55	2.40	2.39	2.38	2.38	2.39	2.39	2.38	2.36
Phnom Penh (Bassac)		0.0	-1.020	1.58	2.09	2.10	2.05	2.04	2.02	2.01	2.00	1.99	1.97
Phnom Penh Port		nr	0.000	0.14	1.28	1.27	1.23	1.22	1.20	1.19	1.18	1.17	1.15
Koh Khel		0.0	-1.000	1.52	2.18	2.24	2.21	2.18	2.17	2.15	2.14	2.13	2.12
Neak Luong		0.0	-0.330	0.81	1.57	1.52	1.47	1.44	1.42	1.41	1.40	1.39	1.38
Prek Kdam		0.0	0.080	0.58	1.34	1.26	1.22	1.19	1.16	1.14	1.12	1.10	1.07
Tan Chau		0.0	0.000	-0.37	0.12	0.19	0.12	0.20	0.24	0.24	0.23	0.21	0.19
Chau Doc		nr	0.000	-0.60	0.27	0.30	0.33	0.34	0.43	0.43	0.42	0.40	0.38

**REMARKS:**

- : not available.
- \*: reference stations without forecast.
- nr: no rain.

River Flood Forecaster

**NOTE:** Discharge at Luang Prabang may be influenced by hydropower operations (at both upstream and downstream).  
 For more info, please refer to this link:  
<http://www.mrcmekong.org/>; [http://ffw.mrcmekong.org/bulletin\\_wet.php](http://ffw.mrcmekong.org/bulletin_wet.php); <http://ffw.mrcmekong.org/reportflood.php>

### 6.3 Flash Flood Information

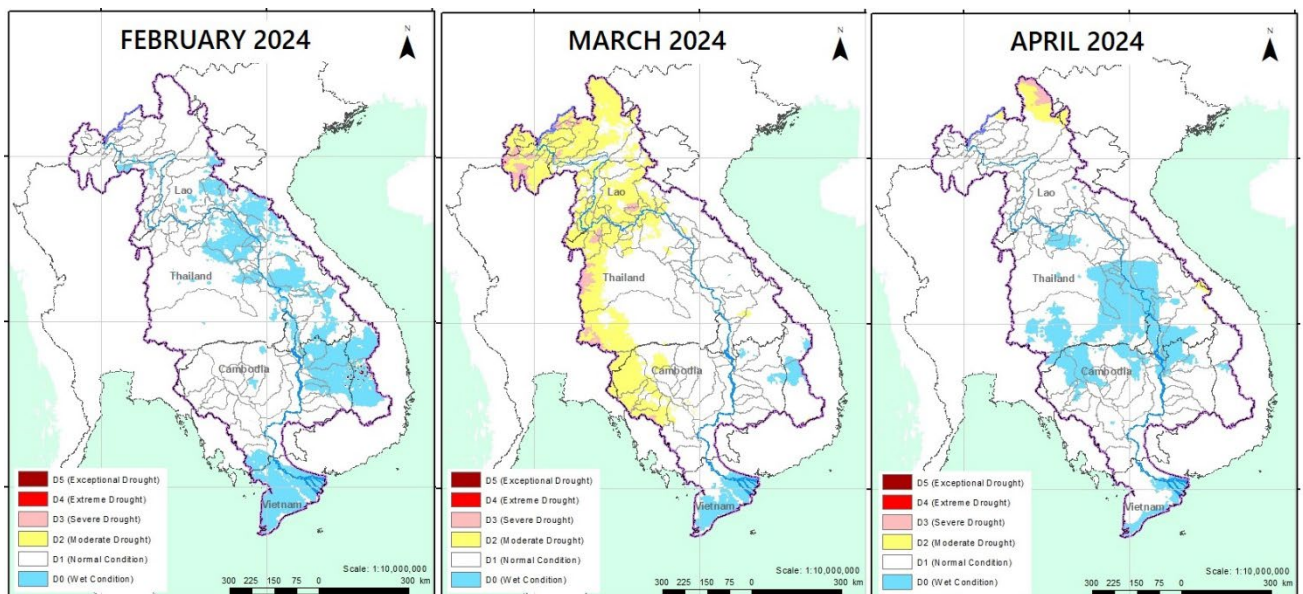
Flash flood events are not likely to happen in the LMB next week. However, local heavy rain in a short period of time might still be possible with unexpected short flash floods. During the dry season if extreme weather occurs, the information on flash flood guidance for the next one, three, and six hours is updated at <http://ffw.mrcmekong.org/ffg.php>.

Further detailed information on Flash Flood Information Warning, as well as on its explanation, is available for download [here](#).

### 6.4 Drought forecast

There are several climate-prediction models with different scenarios in the upcoming months. The MRC’s DFEWS adopts an ensemble model called the North America Multi-Model Ensemble (NMME) with a downscaling method to 5km resolution.

**Figure 13** below shows the Combined Drought Indicator (CDI) forecast for February, March, and April 2024 over the LMB area.



**Figure 13. Monthly forecast of CDI for February, March, and April 2024.**

**Figure 18** above shows that in February the LMB is likely normal and wet all over the region; March is likely to be at moderate dry over the northern and western parts; while April is likely normal and wet except Phongsaly in the north that is forecasted to be at moderately and severely dry.

## 7 Summary and Possible Implications

### 7.1 Rainfall and its forecast

In the period of 29 January - 05 February 2024, there is no significant rainfall recorded at the key stations along the Mekong River. The light rainfall has been observed at the central part of Lower Mekong Basin, particularly in Thailand.

The Mekong region was influenced by north-easterly monsoon wind and the high-pressure push from China. There will be no rainfall to light rain accumulated for the next seven days over the lower part of the Mekong region from 06 to 12 February 2024.

### 7.2 Water level and its forecast

The water level monitoring at 22 key stations is below the long-term averages (LTAs) except for water level at Luang Prabang, Vientiane, Khong Chiam, Stung Treng and Kratie monitoring stations. However, the 9 monitoring stations remains in normal condition with respect to the flow threshold (PMFM for Observed Water Level) except for Tan Chau and Chau Doc monitoring stations, which significantly influenced by sea tidal fluctuation.

In the period of 06-12 February, the water level at 22 key stations is expected to slightly decrease at the upper stretch of the Mekong River starting from Chiang Saen to Mukdahan. However, the water levels from Savannakhet to Kratie are expected to slightly increase, while from Kampong Cham to Prek Kdam, it is predicted to be decreased. The two monitoring stations (Tan Chau and Chau Doc) are expected to increase.

### 7.3 Flash flood and its trends

With the predicted of rainfall for the coming week as mentioned earlier in [section 6.1](#), major flash floods are not likely to happen in the LMB.

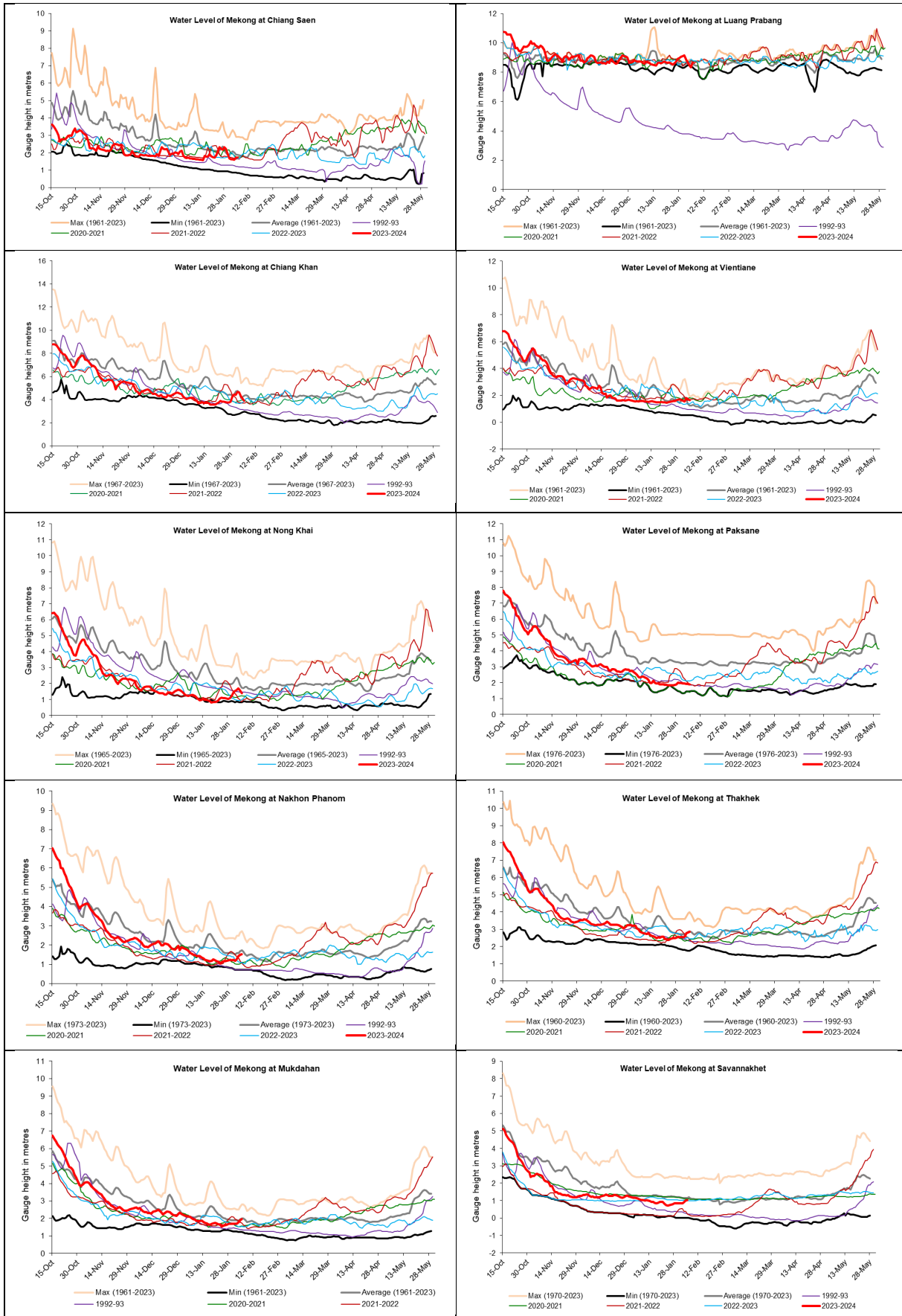
### 7.4 Drought condition and its forecast

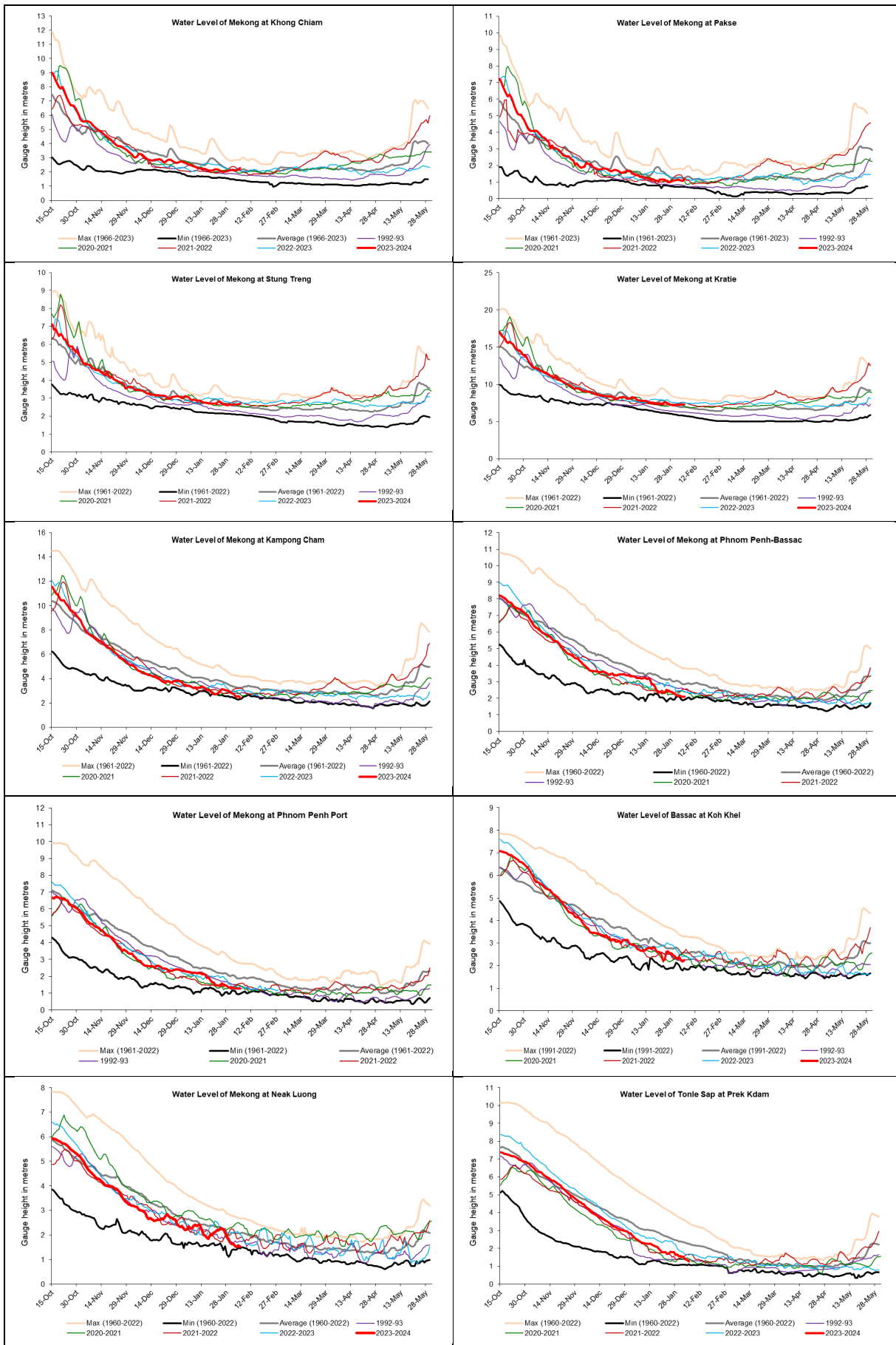
During Jan 30-Feb 5, the LMB was facing from moderate to severe drought over the middle and southern parts. They covered Chiang Rai, Vientiane, Xaisomboun, Xiangkhouang, Bolikhamxai, Khammouan, Bueng Kan, Nakhon Phanom, Sakon Nakhon, Udon Thani, Savannakhet, Salavan, Xekong, Champasak, Attapeu, Roi Et, Yasothon, Amnat Charoen, Ubon Ratchathani, Sa Sa Ket, Surin, Otdar Meanchey, Siem Reap, Preah Vihear, Kampong Thom, Kratie, Stung Treng, Tbong Khmum, Mondulkiri, Ratanakiri, Gia Lai, Dak Lak, and Dak Nong.

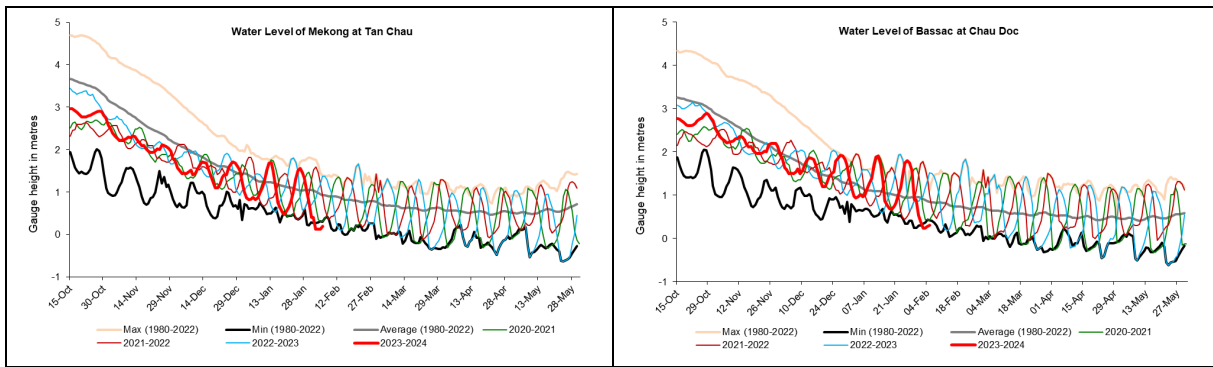
In February the LMB is likely normal and wet all over the region; March is likely to be at moderate dry over the northern and western parts; while April is likely normal and wet except Phongsaly in the north that is forecasted to be at moderately and severely dry.



# Annex A: Weekly water level monitoring at the 22 key stations







## Annex B: Tables for weekly updated water levels and rainfall at the Key Stations

Table A1: Weekly observed water levels

2024	Jinghong	Chiang Saen	Luang Prabang	Chiang Khan	Vientiane	Nongkhai	Paksane	Nakhon Phanom	Thakhek	Mukdahan	Savannakhet	Khong Chiam	Pakse	Stung Treng	Kratie	Kompong Cham	Phnom Penh (Bassac)	Phnom Penh Port	Koh Khel	Neak Luong	Prek Kdam	Tan Chau	Chau Doc
30-01-2024	535.23	1.92	9.10	4.44	1.72	1.22	1.98	1.21	2.54	1.70	0.84	2.13	1.10	2.65	7.18	2.90	2.26	1.33	2.42	1.70	1.57	0.74	0.89
31-01-2024	535.23	1.68	9.14	4.42	1.65	1.45	1.98	1.23	2.56	1.68	0.83	2.14	1.12	2.62	7.27	2.80	2.20	1.35	2.34	1.62	1.56	0.41	0.53
01-02-2024	535.24	1.63	8.88	4.65	1.60	1.52	1.95	1.19	2.53	1.69	0.83	2.13	1.14	2.64	7.24	2.74	2.15	1.30	2.28	1.62	1.54	0.41	0.37
02-02-2024	535.25	1.61	8.66	4.62	1.55	1.58	1.94	1.27	2.58	1.69	0.84	2.13	1.13	2.65	7.28	2.58	2.16	1.28	2.36	1.53	1.48	0.12	0.23
03-02-2024	535.28	1.59	8.46	4.28	1.79	1.69	1.92	1.42	2.78	1.77	0.92	2.13	1.10	2.66	7.29	2.52	2.11	1.27	2.23	1.50	1.38	0.12	0.24
04-02-2024	535.28	1.72	8.32	4.09	1.71	1.57	1.92	1.50	2.82	1.90	1.00	2.17	1.08	2.68	7.31	2.55	2.09	1.28	2.18	1.57	1.34	0.12	0.27
05-02-2024	535.27	1.71	8.68	3.90	1.63	1.40	1.90	1.53	2.85	1.95	1.04	2.28	1.20	2.68	7.33	2.40	2.10	1.27	2.24	1.52	1.26	0.19	0.30

Table A2: Weekly observed rainfall

2024	Jinghong	Chiang Saen	Luang Prabang	Chiang Khan	Vientiane	Nongkhai	Paksane	Nakhon Phanom	Thakhek	Mukdahan	Savannakhet	Khong Chiam	Pakse	Stung Treng	Kratie	Kompong Cham	Phnom Penh (Bassac)	Phnom Penh Port	Koh Khel	Neak Luong	Prek Kdam	Tan Chau	Chau Doc
30-01-2024	0	0	0	0	6.4	10.8	2.9	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-01-2024	0	0	0	0	0	0.9	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01-02-2024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02-02-2024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03-02-2024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04-02-2024	0	0	0	0	0	0	0	0	1.8	2.8	7.4	0	0	0	0	0	0	0	0	0	0	0	0
05-02-2024	0	0	0	0	0	0	0	0	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Sum</b>	0.0	0.0	0.0	0.0	6.4	11.7	3.4	0.0	4.2	2.8	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



## Mekong River Commission Secretariat

P. O. Box 6101, 184 Fa Ngoum Road, Unit 18 Ban Sithane Neua, Sikhottabong District, Vientiane 01000, Lao PDR  
Tel: +856 21 263 263. Fax: +856 21 263 264 [www.mrcmekong.org](http://www.mrcmekong.org)  
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