

# **MEMBER REPORT**

## **Lao PDR**

ESCAP/WMO Typhoon Committee  
15<sup>th</sup> Integrated Workshop  
Video Conference –Vietnam  
1-2 December 2020

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2. [Activity or title of project and description]
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# I. Overview of tropical cyclones which have affected/impacted

## Member's area since the last Committee Session

### 1. Meteorological Assessment (highlighting forecasting issues/impacts)

From January to early May 2020, there were less rain in each region, then during middle to late May was influenced by southwest monsoon which make moderate to heavy rain in some areas, but comparing to normal rain (onset), the onset this year is starting later than normal (normal starting mid-May). The southwest monsoon continued to cover and change intensity periodically, resulting there was dry spell in some areas and heavy rain in some areas caused of flash flood. By early of August tropical storm passed over Lao PDR and continuing until November 2020.

In 2020, there were seven (7) tropical cyclones direct impacted to Lao PDR, namely SINLAKU, NOUL, LINFA, NAGKA, SAUDEL, MOLAVE and VAMCO, and one (1) tropical cyclone indirect impacted namely GONI

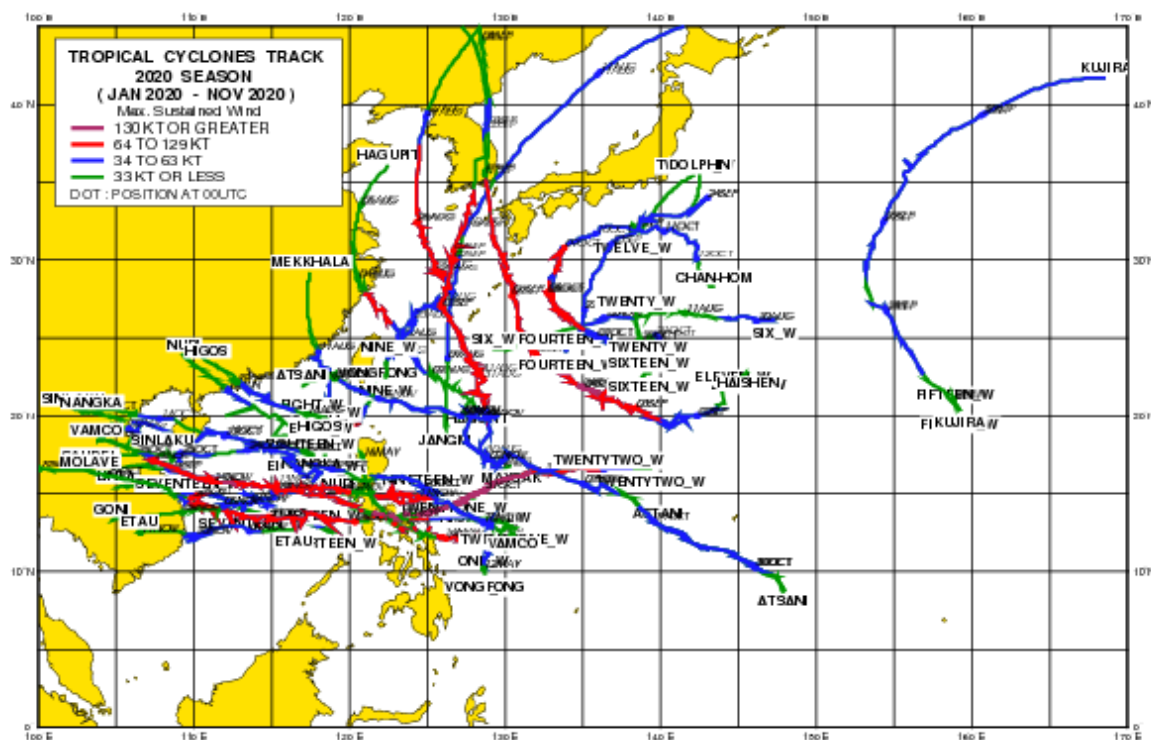


Fig 1: Tropical Cyclones best track in 2020

#### 1.1. Direct impact from Tropical Storm 1.1.1. Tropical Storm SINLAKU (TS2003)

SINLAKU was the first tropical storm has direct impacted to Lao PDR in 2020. SINLAKU formed as a tropical depression on 31 July 2020 at South China Sea with latitude 16.6° north and longitude 114.0°

east, SINLAKU was intensified to tropical storm (TS SINLAKU) on 01 August 2020 as number 3 in 2020 over Western North Pacific Ocean. SINLAKU made landfall over the northern part of Vietnam on the afternoon of 02 August 2020 and weakened into Tropical Depression (TD) on 18 UTC of 02 August 2020 moved to northern part of Lao PDR (Bolikhamxay province to Luanprabang province) and then continued to weaken into low pressure cover northern part of Lao PDR. During the passage of SINLAKU, there was heavy rainfall with strong wind in some areas of Lao PDR and caused landslides in northern part and affected to life and properties of the people.

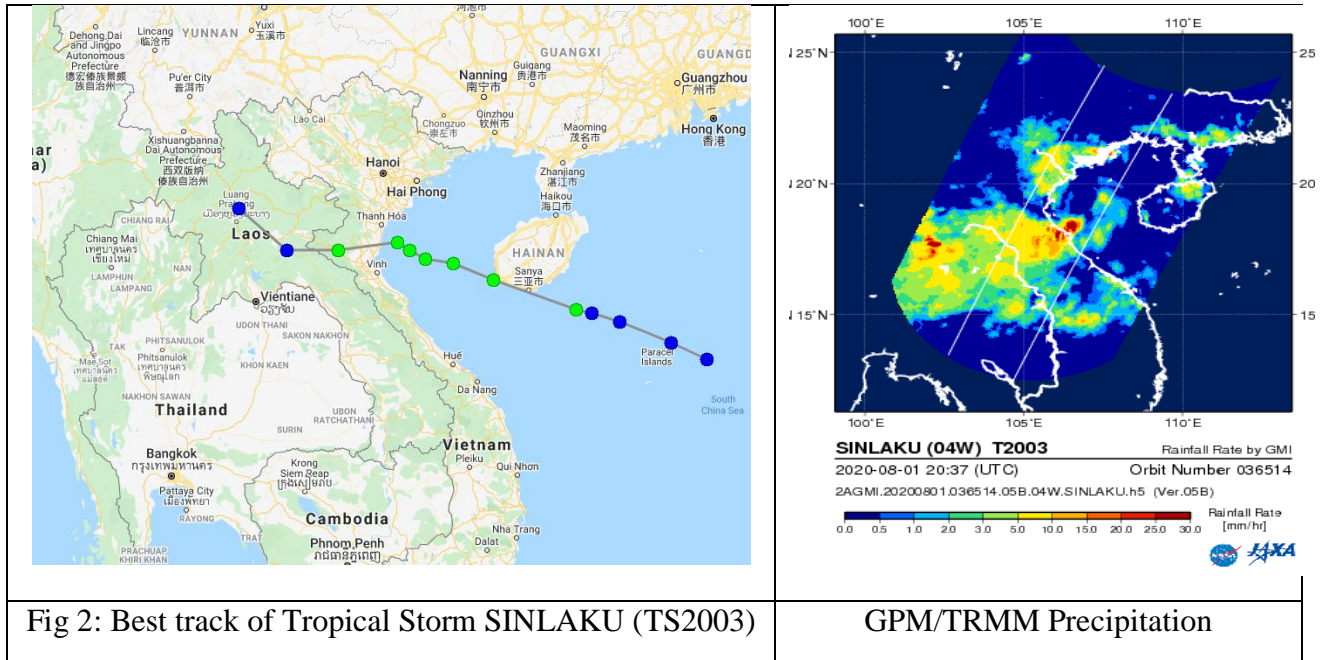


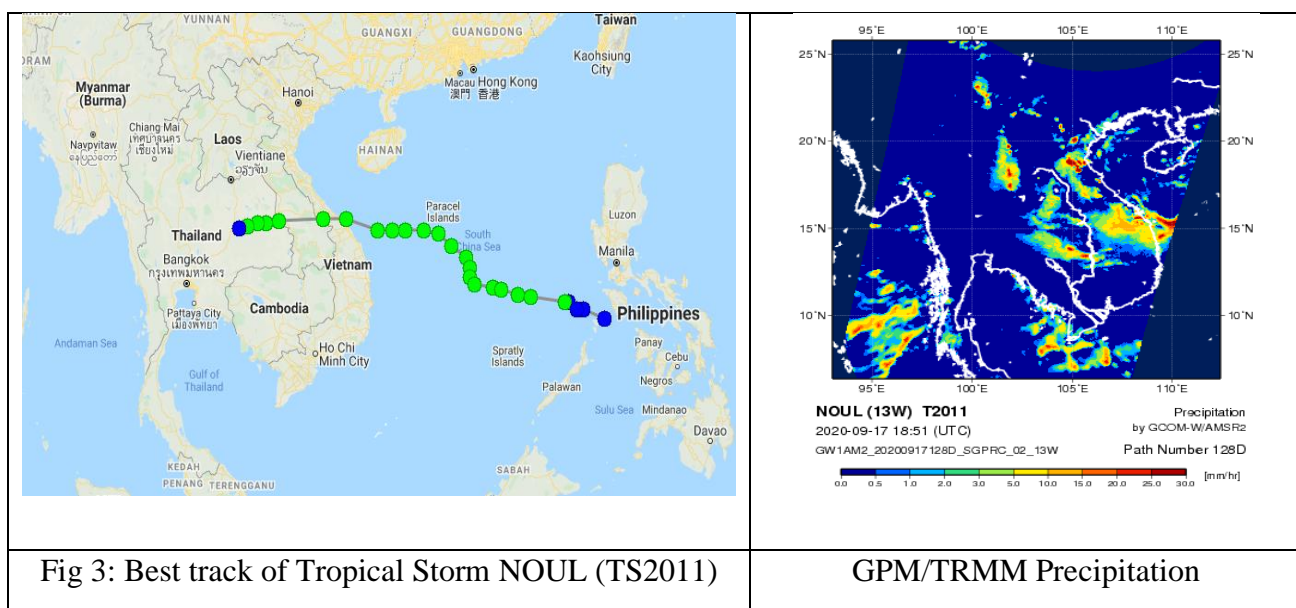
Table 3: Daily rainfall recorded during the passage of SINLAKU over Lao PDR from 1 - 5 Aug 2020

Station	1-Aug-20	2-Aug-20	3-Aug-20	4-Aug-20	5-Aug-20	Total (mm)
Phongsaly	1.3	NT	22.8	2.5	25.8	52.4
Viengxay	20.1	27.4	65.1	6.6	13.0	132.2
Xamnua	76.6	22.1	5.2	28.2	8.1	140.2
Xiengkhuang	13.4	65.9	33.9	13.1	1.9	128.2
Luangnamtha	23.5	5.7	39.5	24.9	1.2	94.8
Oudomxay	2.7	3.4	15.2	6.1	51.3	78.7
Bokeo	1.8	52.7	19.7	19.9	4.8	98.9
Luangprabang	31.4	51.2	10.6	47.4	52.5	193.1
Xaiyabouly	31.9	49.8	19.2	40.9	6.9	148.7
Vientiane Cap	66.9	31.6	NT	2.5	29.9	130.9
Xaysomboun	27.8	32.3	12.1	22.6	31.7	126.5
Phonhong	75.1	123.7	13.4	66.0	8.7	286.9
Paksan	2.3	35.5	95.3	17.4	176.5	327.0
Muang Mai	0.0	56.2	212.0	34.5	287.2	589.9
Muang Kao	0.0	62.2	215.2	185.2	438.2	900.8
Lak 20	170.2	62.0	12.5	62.7	6.0	313.4
Viengthong	49.6	60.5	11.6	25.8	27.9	175.4
Thakhek	104.5	7.4	0.9	24.9	17.8	155.5
Nakay	165.3	24.3	27.5	24.5	2.3	243.9

Savannakhet	59.0	5.8	3.4	28.5	NT	96.7
Seno	19.5	2.6	4.1	23.3	0.4	49.9
Salavan	68.3	42.4	11.4	NT	0.8	122.9
Sekong	31.6	77.1	4.2	4.0	3.5	120.4
Thateng	22.8	9.1	1.0	1.2	1.5	35.6
Pakse	42.4	4.2	5.6	NT	NT	52.2
Paksong	139.0	224.2	35.5	19.9	0.0	418.6
Nikhom 34	65.4	43.1	13.1	12.3	7.9	141.8
Dakjung	30.7	27.5	12.5	4.7	1.5	76.9
Attapeu	99.4	29.5	11.4	NT	0.3	140.6

### 1.1.2. Tropical Storm NOUL (TS2011)

NOUL was the second tropical storm has direct impacted to Lao PDR in 2020. NOUL formed as a tropical depression over the southern part of the South China Sea near Philippines on the night of 15 September. It moved west-northwestward and intensified gradually. NOUL developed into a tropical storm on the morning of 16 September. It further intensified into a severe tropical storm the next day and reached its peak intensity with an estimated maximum sustained wind of 90 km/h near its centre. NOUL moved across the central part of Vietnam on 18 September and kept moving through central part of Lao PDR (Salavan and Savannakhet Provinces) and Thailand in the afternoon of 18 September. It finally degenerated into an area of low pressure over the Thailand of the next day.



During the passage of NOUL, there was moderate to heavy rainfall with strong wind in some areas of central and southern part of Lao PDR, the summary of rainfall as table 4.

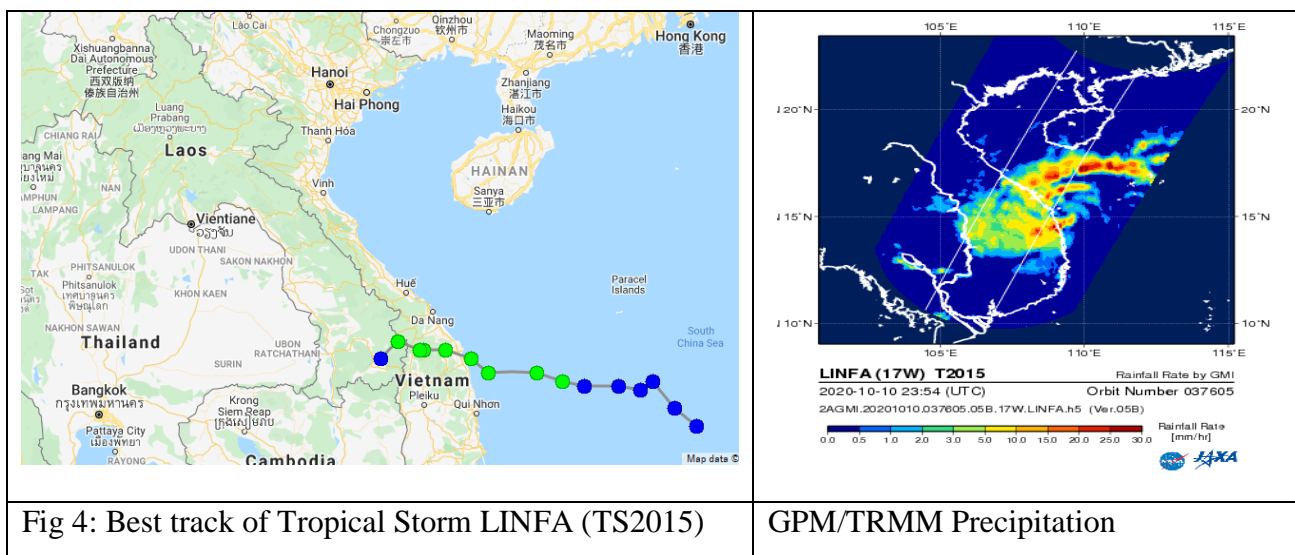
Table 4: Daily rainfall recorded during the passage of NOUL over Lao PDR from 17 - 21 Sep 2020

Station	17-Sep-20	18-Sep-20	19-Sep-20	20-Sep-20	21-Sep-20	Total (mm)
Phongsaly	24.8	NT	NT	9.8	0.1	34.7
Viengxay	6.6	31.7	4.7	2.9	3.6	49.5

Xamnua	7.1	24.1	6.3	0.7	NT	38.2
Xiengkhuang	1.3	9.1	8.8	14.5	NT	33.7
Luangnamtha	NT	5.9	NT	19.5	0.4	25.8
Oudomxay	2.4	NT	NT	8.1	0.2	10.7
Bokeo	0.6	3.6	3.6	4.5	NT	12.3
Luangprabang	9.8	NT	NT	14.9	NT	24.7
Xaiyabouly	27.4	NT	6.0	10.2	0.4	44.0
Vientiane Cap	22.7	4.8	56.0	2.3	13.5	99.3
Xaysomboun	12.8	10.4	31.0	23.2	3.2	80.6
Phonhong	43.8	13.7	20.7	15.6	2.9	96.7
Paksan	42.3	33.9	18.3	5.2	NT	99.7
Lak 20	25.3	112.5	30.0	4.4	NT	172.2
Viengthong	16.3	23.5	25.0	9.5	NT	74.3
Thakhek	16.7	33.8	7.7	2.5	NT	60.7
Nakay	23.9	35.6	30.5	8.0	NT	98.0
Savannakhet	7.6	53.2	10.0	5.2	NT	76.0
Seno	12.3	29.3	7.9	0.0	NT	49.5
Salavan	54.9	117.7	18.8	1.2	NT	192.6
Sekong	43.4	76.1	16.6	NT	NT	136.1
Thateng	38.0	66.8	18.1	3.7	NT	126.6
Pakse	38.0	129.4	36.7	NT	NT	204.1
Paksong	13.2	130.7	41.9	0.0	26.2	212.0
Nikhom 34	30.1	72.8	42.3	1.5	0.5	147.2
Dakjung	67.7	23.5	16.7	NT	NT	107.9
Attapeu	46.0	31.4	47.6	NT	NT	125.0

### 1.1.3. Tropical Storm LINFA (TS2015)

LINFA was the third tropical storm has direct impacted to Lao PDR in 2020. LINFA formed as tropical depression over the Southern part of South China Sea on morning of 10 October 2020 at the position 13.5° North and 114.3° East with central pressure 1004 hPa and movement speed 15 km per hour. LINFA intensified into tropical storm on 18 UTC of 10 October at position 14.5° North and 111.2° East, LINFA made landfall over the central of Vietnam on 11 October then kept moving to southern part of Lao PDR in the afternoon of the same day then finally weakened into tropical depression and an area of low pressure respectively during the night of 11 October 2020.



During the passage of LINFA, there was moderate to heavy rainfall with strong wind in some areas of central and southern part of Lao PDR, the summary of rainfall as table 5.

Table 5: Daily rainfall recorded during the passage of LINFA over Lao PDR from 11 - 15 Oct 2020

Station	11-Oct-20	12-Oct-20	13-Oct-20	14-Oct-20	15-Oct-20	Total (mm)
Phongsaly	NT	NT	NT	4.0	5.7	9.7
Viengxay	NT	NT	NT	53.6	19.4	73.0
Xamnua	NT	NT	NT	64.5	13.5	78.0
Xiengkhuang	NT	NT	NT	5.9	0.8	6.7
Luangnamtha	NT	NT	NT	4.8	1.1	5.9
Oudomxay	NT	NT	NT	0.8	0.4	1.2
Bokeo	NT	NT	NT	NT	0.6	0.6
Luangprabang	NT	NT	NT	NT	NT	0.0
Xaiyabouly	NT	NT	NT	NT	1.5	1.5
Vientiane Cap	NT	NT	NT	0.0	18.5	18.5
Xaysomboun	NT	0.5	NT	0.9	2.1	3.5
Phonhong	NT	NT	NT	NT	0.5	0.5
Paksan	NT	NT	NT	11.3	1.9	13.2
Lak 20	1.9	2.0	NT	0.7	0.8	5.4
Viengthong	NT	NT	NT	NT	6.0	6.0
Thakhek	NT	3.2	NT	NT	NT	3.2
Nakay	NT	1.6	NT	NT	1.2	2.8
Savannakhet	3.2	18.0	1.2	NT	NT	22.4
Seno	3.5	4.3	NT	NT	NT	7.8
Salavan	29.0	49.6	1.4	13.9	2.6	96.5
Sekong	25.8	1.2	17.4	9.4	1.4	55.2
Thateng	36.4	2.4	1.3	2.0	2.5	44.6
Pakse	37.9	10.2	3.6	NT	8.1	59.8
Paksong	40.7	14.9	6.9	4.6	9.7	76.8
Nikhom 34	25.9	19.5	6.9	5.4	12.8	70.5
Dakjung	60.0	6.7	3.3	30.7	17.5	118.2

Attapeu	49.4	7.4	0.6	4.8	15.1	77.3
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#### 1.1.4. Tropical Storm NANGKA (TS2016)

NANGKA was the fourth tropical storm has direct impacted to Lao PDR in 2020. NANGKA formed as tropical depression on 11 October 2020 near the northwestern part of Philippines at the position 16.9° North and 119.6° East with the central pressure 1002 hPa and movement speed 15 meters per second. NANGKA intensified into tropical storm on 12 October at the position 17.6° North and 115.9° East with central pressure 966 hPa, NANGKA passed over Hainan island on 13 October then kept moving westward, NANGKA made landfall to northern part of Vietnam on 14 October then weakened into tropical depression passing Huaphan Province of Lao PDR in the evening of 14 October 2020.

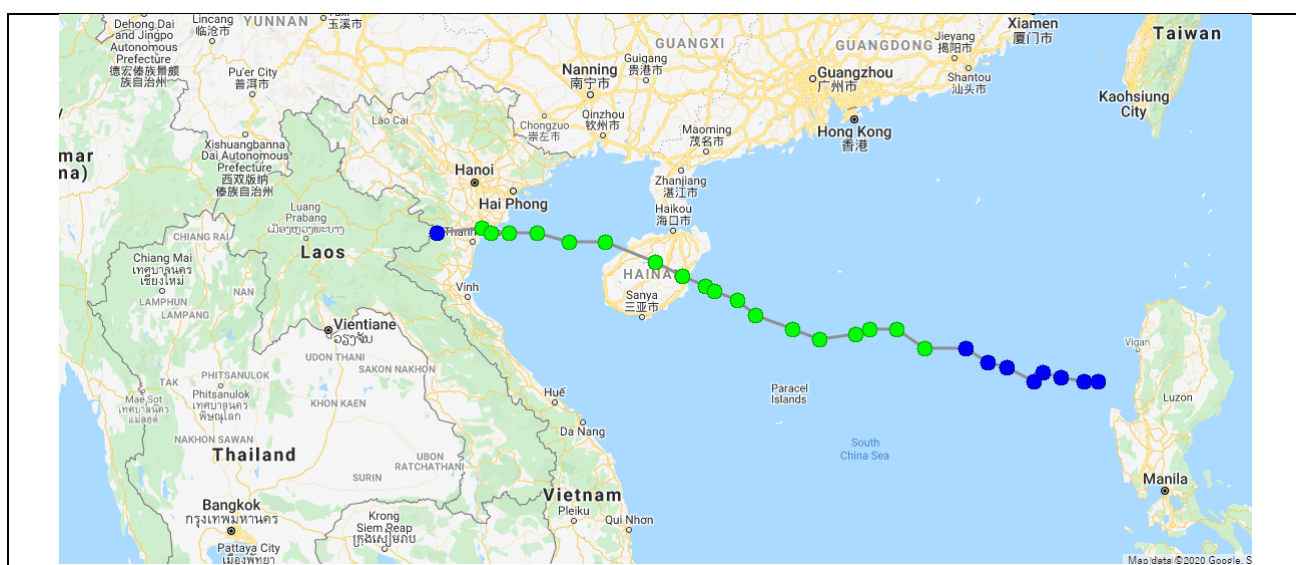


Fig 5: Best track of Tropical Storm NANGKA (TS2016)

During the passage of NANGKA, there was light to moderate rainfall with strong wind in some areas of central and northern part of Lao PDR, the summary of rainfall as table 6.

Table 6: Daily rainfall recorded during the passage of NANGKA over Lao PDR from 14 - 18 Oct 2020

Station	14-Oct-20	15-Oct-20	16-Oct-20	17-Oct-20	18-Oct-20	Total (mm)
Phongsaly	4.0	5.7	3.0	NT	2.1	14.8
Viengxay	53.6	19.4	19.5	3.6	11.3	107.4
Xamnua	64.5	13.5	16.9	5.0	10.7	110.6
Xiengkhuang	5.9	0.8	2.6	0.9	3.2	13.4
Luangnamtha	4.8	1.1	0.7	NT	1.9	8.5
Oudomxay	0.8	0.4	0.1	NT	NT	1.3
Bokeo	NT	0.6	0.7	0.3	0.4	2.0
Luangprabang	NT	NT	NT	NT	1.3	1.3
Xaiyabouly	NT	1.5	10.0	NT	0.3	11.8
Vientiane Cap	0.0	18.5	0.0	0.5	4.9	23.9
Xaysomboun	0.9	2.1	4.2	NT	2.6	9.8
Phonhong	NT	0.5	2.4	NT	1.9	4.8
Paksan	11.3	1.9	1.2	0.1	2.6	17.1

Lak 20	0.7	0.8	42.2	10.3	17.4	71.4
Vienthong	NT	6.0	8.1	0.8	12.5	27.4
Thakhek	NT	NT	18.0	4.8	11.4	34.2
Nakay	NT	1.2	55.0	0.4	26.5	83.1
Savannakhet	NT	NT	32.8	68.9	13.5	115.2
Seno	NT	NT	25.6	58.8	16.2	100.6
Salavan	13.9	2.6	18.2	62.7	9.4	106.8
Sekong	9.4	1.4	7.5	49.7	20.2	88.2
Thateng	2.0	2.5	10.0	36.0	47.8	98.3
Pakse	NT	8.1	NT	18.4	37.0	63.5
Paksong	4.6	9.7	0.8	42.3	57.3	114.7
Nikhom 34	5.4	12.8	1.5	97.8	80.2	197.7
Dakjung	30.7	17.5	19.3	70.0	12.7	150.2
Attapeu	4.8	15.1	3.4	30.2	15.8	69.3

### 1.1.5. Tropical Storm SAUDEL (TS2017)

SAUDEL was the fifth tropical storm has direct impacted to Lao PDR in 2020. SAUDEL formed as tropical depression on 19 October 2020 at the position 13.3° North and 129.4° East with the central pressure 1004 hPa, SAUDEL intensified into tropical storm on 20 October at the position 15.6° North and 124.7° East with the central pressure 1000 hPa, SAUDEL made landfall to the northern part of Philippines on 20 October and then it intensified into severe tropical storm on 21 October, SAUDEL increased intensity into Typhoon on 22 October then weakened into severe tropical storm on 24 October then kept moving westward and weakened into tropical storm on 25 October. SAUDEL made landfall to central part of Vietnam in early morning of 26 October then weakened into tropical depression passing central part of Lao PDR (Savannakhet and Khammoune Provinces) the same day.

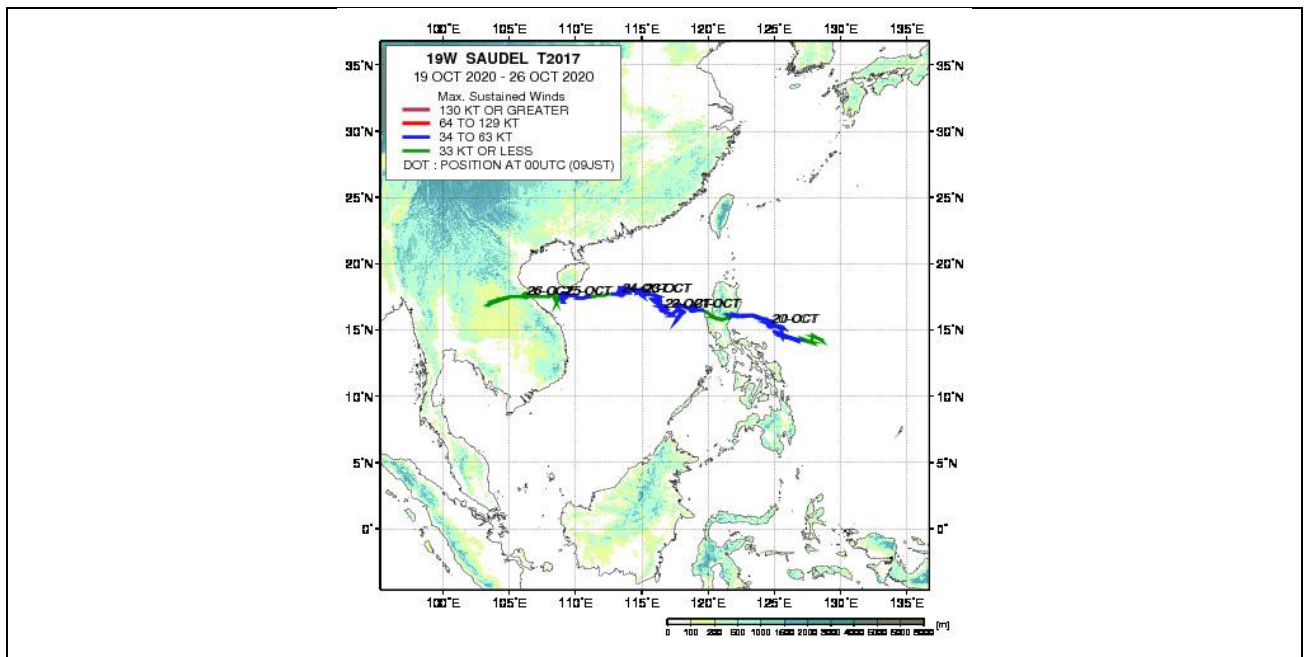


Fig 6: Best track of Tropical Storm SAUDEL (TS2017)

During the passage of SAUDEL, there was moderate to heavy rainfall with strong wind in some areas of central and southern part of Lao PDR, the summary of rainfall as table 7.

Table 7: Daily rainfall recorded during the passage of SAUDEL over Lao PDR from 25 - 29 Oct 2020

Station	25-Oct-20	26-Oct-20	27-Oct-20	28-Oct-20	29-Oct-20	Total (mm)
Vientiane Cap	NT	NT	NT	0.6	18.0	18.6
Xaysomboun	NT	NT	NT	NT	15.5	15.5
Phonhong	NT	NT	NT	NT	29.3	29.3
Paksan	0.9	NT	NT	0.3	11.5	12.7
Lak 20	0.6	NT	NT	24.7	4.5	29.8
Viengthong	NT	NT	NT	NT	6.2	6.2
Thakhek	3.7	NT	NT	23.3	1.0	28.0
Nakay	NT	NT	NT	8.2	1.1	9.3
Savannakhet	18.0	1.0	NT	30.1	3.7	52.8
Seno	14.6	0.3	NT	19.7	1.4	36.0
Salavan	11.4	NT	6.2	83.1	0.4	101.1
Sekong	1.1	NT	10.4	31.1	NT	42.6
Thateng	1.0	NT	12.3	92.2	2.3	107.8
Pakse	NT	NT	3.0	63.4	1.9	68.3
Paksong	0.3	NT	5.8	59.7	38.9	104.7
Nikhom 34	1.4	NT	13.7	68.4	6.0	89.5
Dakjung	2.3	1.0	24.5	131.3	5.7	164.8
Attapeu	NT	NT	16.0	24.9	3.4	44.3

### 1.1.6. Tropical Storm MOLAVE (TS2018)

MOLAVE was the sixth tropical storm has direct impacted to Lao PDR in 2020. MOLAVE formed as tropical depression on 23 October 2020 at the position 10.7° North and 133.3° East with the central pressure 1006 hPa. MOLAVE intensified into tropical storm on 24 October and continued intensifying into severe tropical storm on 25 October then increased intensity into typhoon the same day and moved over central part of Philippines up to 26 October then moving westward over the Southern part of South China Sea. Typhoon MOLAVE made landfall to central part of Vietnam on 28 Oct then weakened into tropical storm and tropical depression passing southern part of Lao PDR respectively.

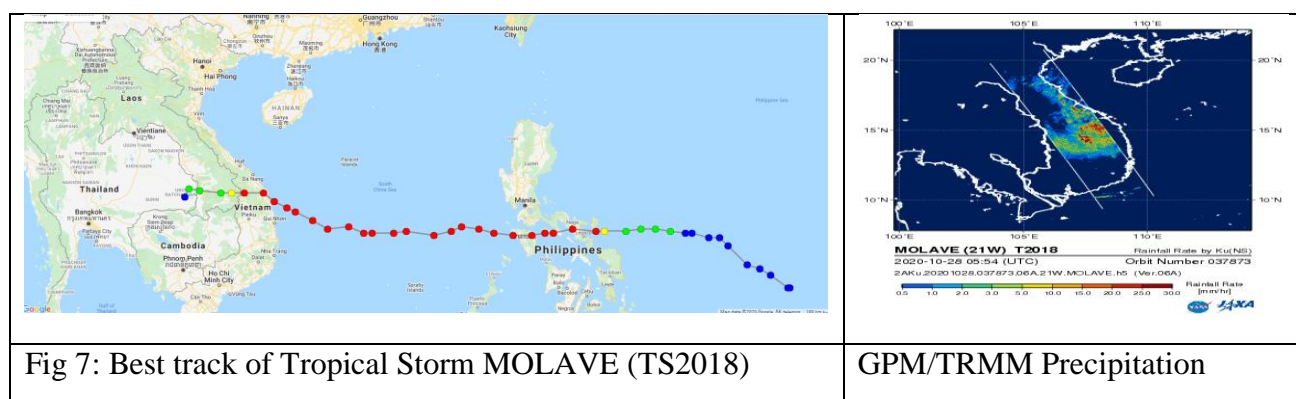


Fig 7: Best track of Tropical Storm MOLAVE (TS2018)

GPM/TRMM Precipitation

During the passage of MOLAVE, there was moderate to heavy rainfall with strong wind in some areas of central and southern part of Lao PDR, the summary of rainfall as table 8.

Table 8: Daily rainfall recorded during the passage of MOLAVE over Lao PDR from 28 Oct to 1 Nov 2020

Station	28-Oct-20	29-Oct-20	30-Oct-20	31-Oct-20	1-Nov-20	Total (mm)
Thakhek	23.3	1.0	NT	NT	NT	24.3
Nakay	8.2	1.1	NT	NT	NT	9.3
Savannakhet	30.1	3.7	NT	NT	NT	33.8
Seno	19.7	1.4	NT	NT	NT	21.1
Salavan	83.1	0.4	NT	4.4	NT	87.9
Sekong	31.1	NT	NT	0.6	NT	31.7
Thateng	92.2	2.3	0.7	0.6	NT	95.8
Pakse	63.4	1.9	0.8	4.0	NT	70.1
Paksong	59.7	38.9	NT	NT	NT	98.6
Nikhom 34	68.4	6.0	NT	0.1	NT	74.5
Dakjung	131.3	5.7	NT	5.3	NT	142.3
Attapeu	24.9	3.4	NT	2.4	NT	30.7

### 1.1.7. Tropical Storm VAMCO (TS2022)

VAMCO was the seventh tropical storm has direct impacted to Lao PDR in 2020. VAMCO formed as tropical depression on 8 November 2020 at the position 8.8° North and 133.8° East with the central pressure 1008 hPa and moved northwestward, VAMCO intensified into tropical storm on 9 November then become severe tropical storm on 10 November. VAMCO intensified into typhoon on 11 Nov then made landfall to northern part of Philippines on 12 November and then decreased intensity into severe tropical storm the same day moving over South China Sea. VAMCO become into typhoon again on 13 November moved westward then downgrade to severe tropical storm then made landfall to central part of Vietnam on 15 November and weakened into tropical depression passed over central part of Lao PDR (Boilkhamxay Province) on 15 November 2020.

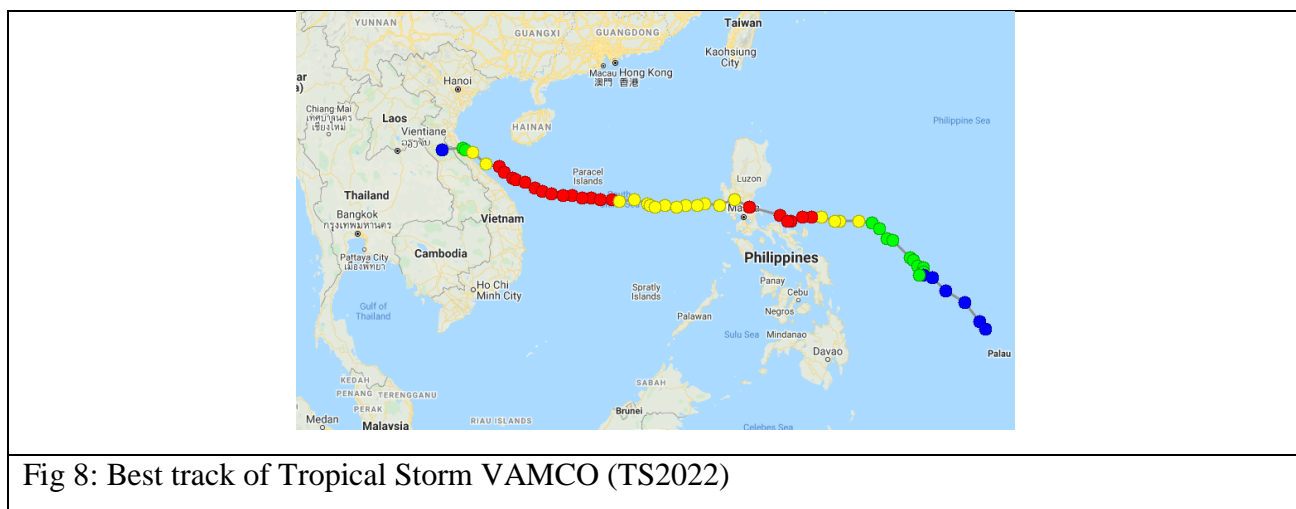


Fig 8: Best track of Tropical Storm VAMCO (TS2022)

During the passage of VAMCO, there was light to moderate rain with strong wind in some areas of central and southern part of Lao PDR.

## 1.2. Indirect impact from Tropical Storm

### 1.2.1. Tropical Storm GONI (TS2019)

GONI was the first tropical storm has indirect impacted to Lao PDR in 2020. GONI formed as tropical depression on 27 October 2020 at the position 16.1° North and 141.2° East, it intensified into tropical storm on 28 October then become typhoon on 29 October. Typhoon GONI made landfall to central part of Philippines on 31 October and kept moving till 1 November then continue moving over South China Sea then downgrade into tropical storm. GONI made landfall to central part of Vietnam on 6 November then weakened into tropical depression moved near the border between Lao PDR and Cambodia the same day.

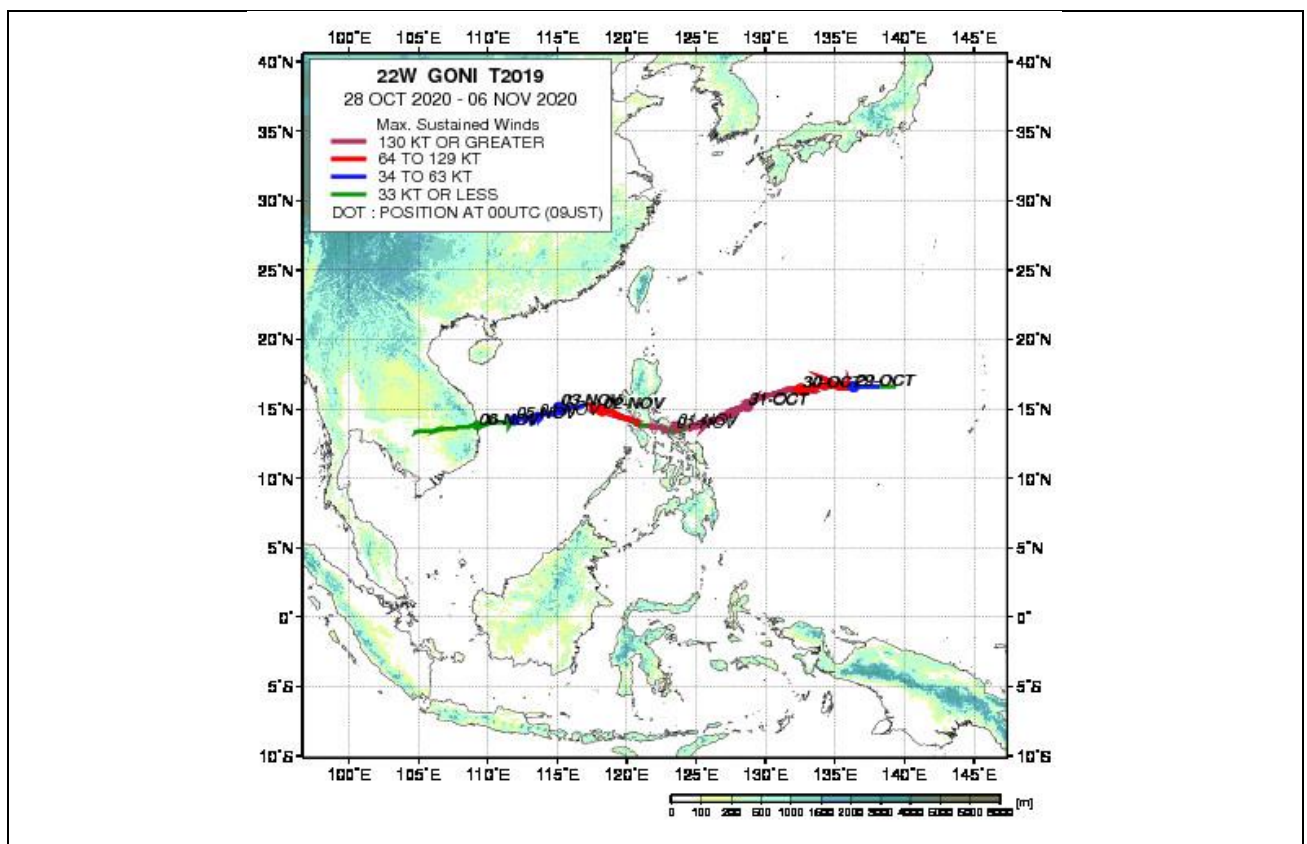


Fig 9: Best track of Tropical Storm GONI (TS2019)

During the passage of GONI, there was light rain with strong wind in some areas of southern part of Lao PDR.

## 1.3. TC prediction in Lao PDR

Based on the Guidance, Numerical Weather Prediction (NWP) and Typhoon Forecast from different centers such as RSMC-Tokyo, KMA, JMA, CMA, SWFDP-SeA, FFGs-SeA, etc. DMH has improved the accuracy of tropical storm warnings, more reliable and timely.

## 2. Hydrological Assessment (highlighting water-related issues/impact)

In term of rainfall, tropical storm SINLAKU was the wettest tropical storm affecting Lao PDR in 2020, it brought more than 400 millimeters of rainfall per day in central part of Lao PDR. About 200 – 900 millimeters of rainfall (5 days accumulate rainfall) was generally recorded over Lao PDR during the passage of SINLAKU. From mid-September to early November 2020, the tropical storms made landfall to central part of Vietnam and passed mostly central and southern part of Lao PDR, which brought lot of rainfall in these areas, resulted some Mekong’s tributaries reached over danger level (flood level) and lasted more than three weeks.

Table 9: water level during October 2020, flood in central part

<b>Water Level Condition in 2020</b>			
<b>D</b>	<b>17.00</b>	<b>15.00</b>	<b>8.50</b>
<b>W</b>	<b>16.00</b>	<b>14.00</b>	<b>7.50</b>
<b>River</b>	<b>Sebangfai</b>	<b>Sebanghieng</b>	<b>Sechamphone</b>
<b>Date/Station</b>	<b>M ahaxai</b>	<b>Sepol</b>	<b>Kengkok</b>
08/10/2020	5.53	14.89	4.48
09/10/2020	10.60	18.20	7.60
10/10/2020	10.38	18.30	7.78
11/10/2020	10.56	16.60	7.76
12/10/2020	11.23	13.88	7.42
13/10/2020	11.92	14.42	7.14
14/10/2020	11.52	14.20	7.36
15/10/2020	9.92	8.05	7.60
16/10/2020	8.30	5.30	7.59
17/10/2020	7.72	14.20	7.34
18/10/2020	10.46	18.00	7.97
19/10/2020	11.47	17.50	8.54
20/10/2020	12.25	16.60	9.40
21/10/2020	12.62	12.90	10.02
22/10/2020	13.09	7.15	10.18
23/10/2020	13.28	5.20	10.22
24/10/2020	13.17	5.00	9.80
25/10/2020	12.47	4.69	9.02
26/10/2020	10.79	5.05	8.16

For the Mekong River, the water level was lower than average from upstream to downstream

Fig 10. Water level at Luangprabang station (Mekong River)

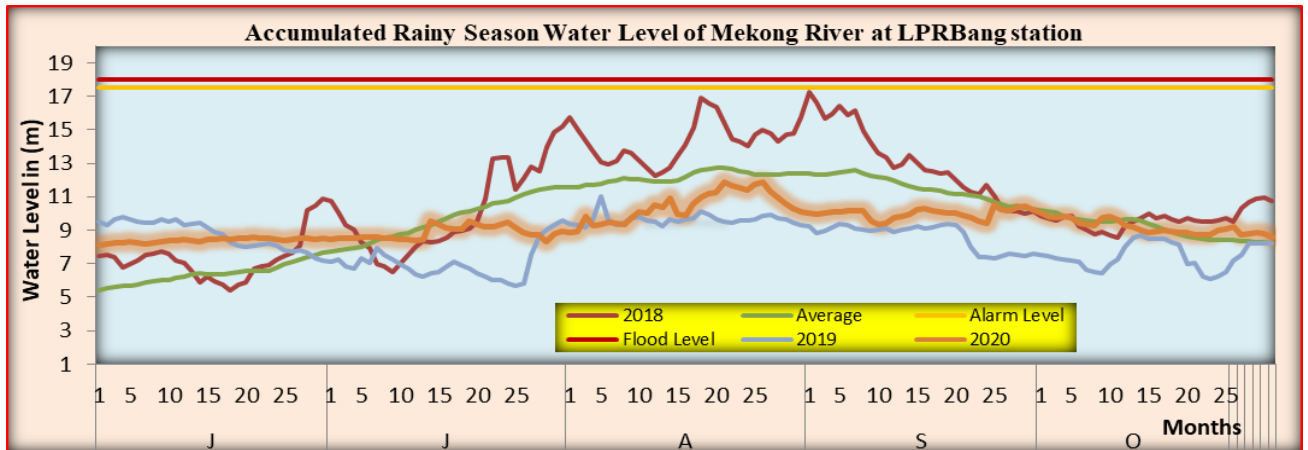


Fig 11. Water level at Vientiane Km4 station (Mekong River)

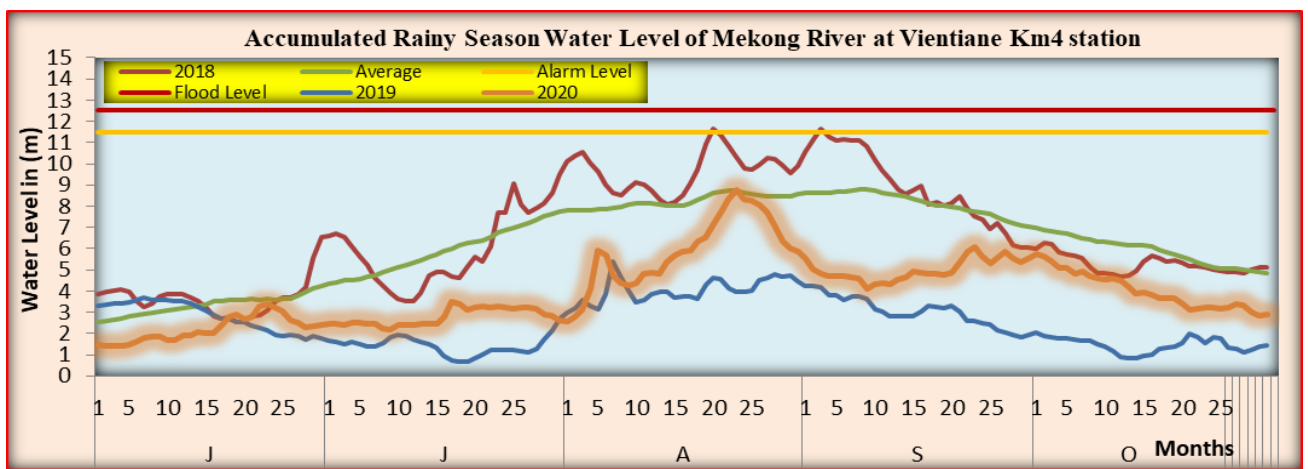


Fig 12. Water level at Paksan station (Mekong River)

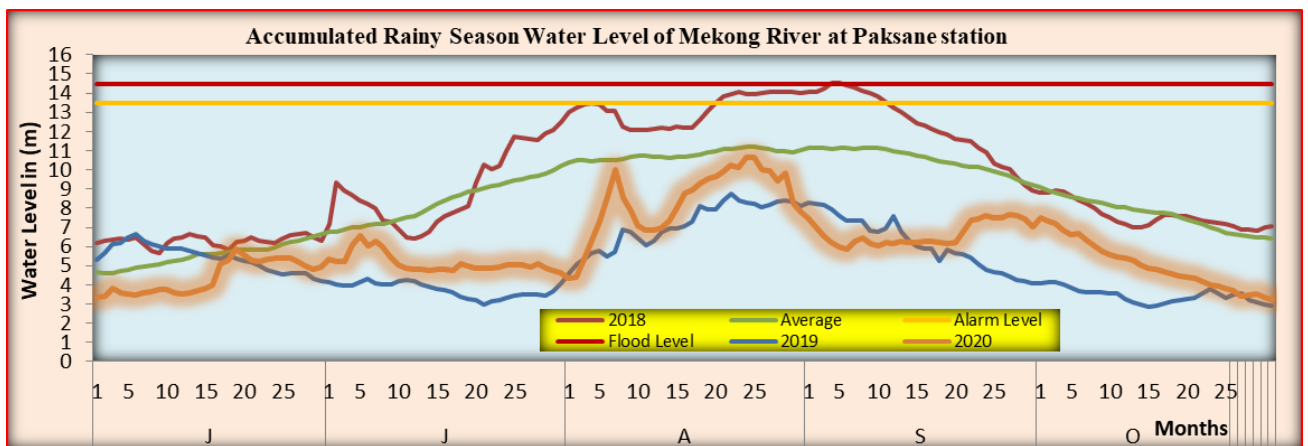


Fig 13. Water level at Thakhek station (Mekong River)

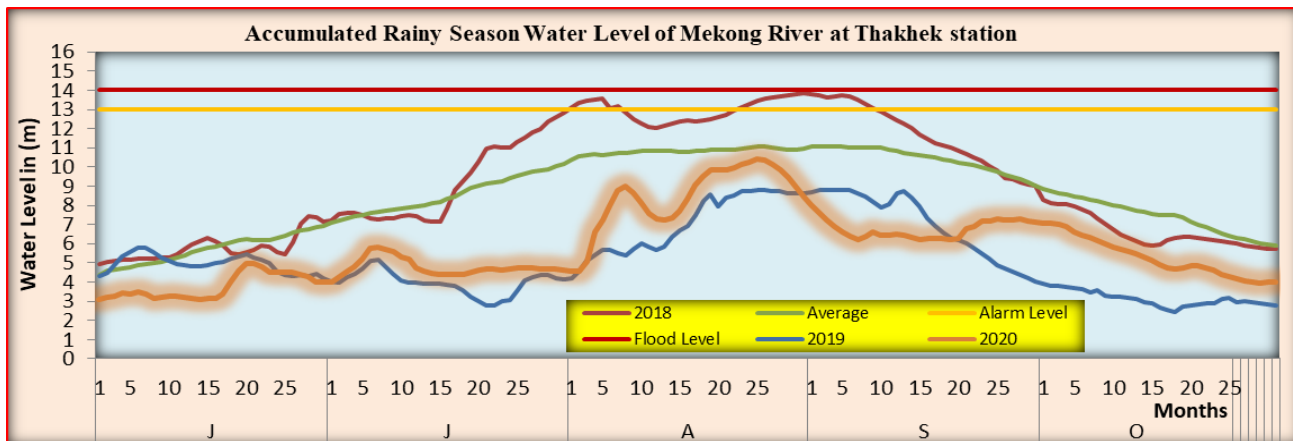


Fig 14. Water level at Savannakhet station (Mekong River)

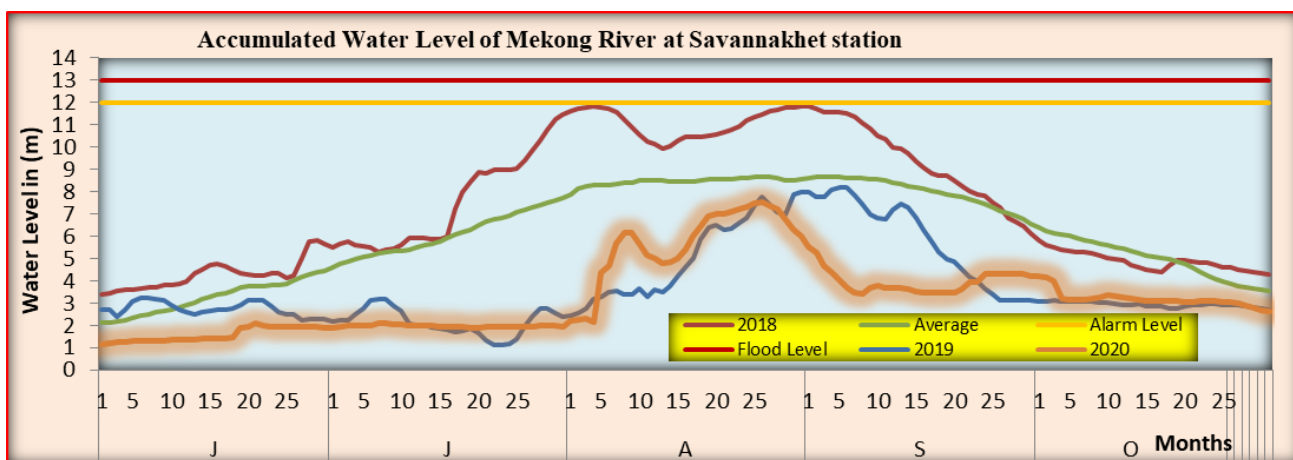
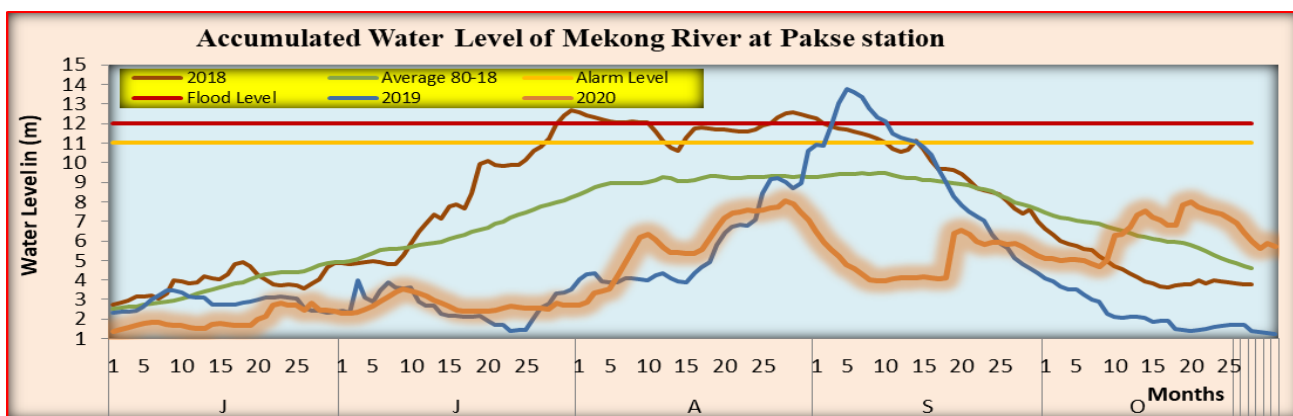


Fig 15. Water level at Pakse station (Mekong River)



### 3. Socio-Economic Assessment (highlighting socio-economic and DRR issues/impacts)

Lao PDR affected not only tropical storm but also localize weather phenomena such as local storm, hail storm, strong wind, lightning which impacted to socio-economic, properties and life of the people.

In March 2020, local storm with heavy rain occurred in Luangpranng Province caused of destroyed houses, trees and electricity poles fell down.



In May 2020, local storm occurred in Xaythani District, Vientiane Capital caused of the strong wind and many houses damages, trees and electricity poles broken down.



In July 2020, heavy rain lasted many hours caused of flash flood in Eng village, Viengphoukha District of Luangnamtha Province which affected to rice fields, livestock, housing and roads.



During the passage of SINLAKU, some districts of Xaiyabouly Province affected by flash flood, and severe flood in Xaiyabouly Capital, and other provinces



During the passage of tropical storms in September, October and November 2020, caused of inundation in central part and lasted more three weeks, which affected to properties, livestock, agriculture sector, roads and electricity.

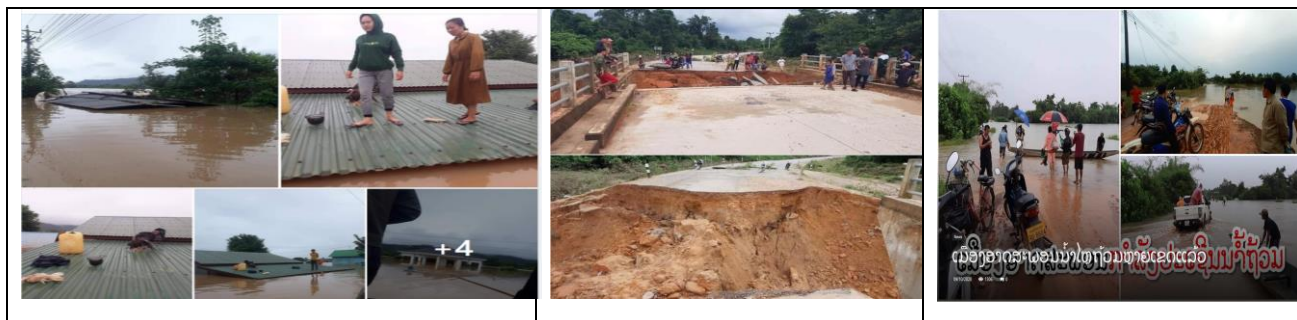


Table 11: Summarize the impact and damage from disasters from January to October 2020

No.	Province	District	Village	Household	People	Female	Missing	Death
1	Phongsaly							7
2	Luangnamtha							
3	Oudomxay							7
4	Borkeo							
5	Sayabouly							3
6	Luangprabang							
7	Heuphan							
8	Xiengkhoang							
9	Saysomboun							
10	Vientiane							
11	Vientain Capital							
12	Borlikhamxay							
13	Khamoune							
14	Savannakhet	8	90	2,874	15,764	4,333		
15	Saravan							
16	Champarsack							
17	Sekong	1	2	49	249	96	3	1
18	Attapeu							

### 3.1. Disaster Response

Throughout the period of disasters such as during and after disasters, the National Committee for Disaster Management (NDMC), headed by the Vice Prime Minister, has approached and directed the timely assistance to the affected people, as well as mobilized funds from the private sector and international organizations to provide assistance.



4. Regional Cooperation Assessment (highlighting regional cooperation success and challenges)