



ONE ASEAN  
ONE RESPONSE

# SITUATION UPDATE

No. **2**

## TROPICAL CYCLONE YAGI AND SOUTHWEST MONSOON LAO PDR, PHILIPPINES, THAILAND, AND VIET NAM

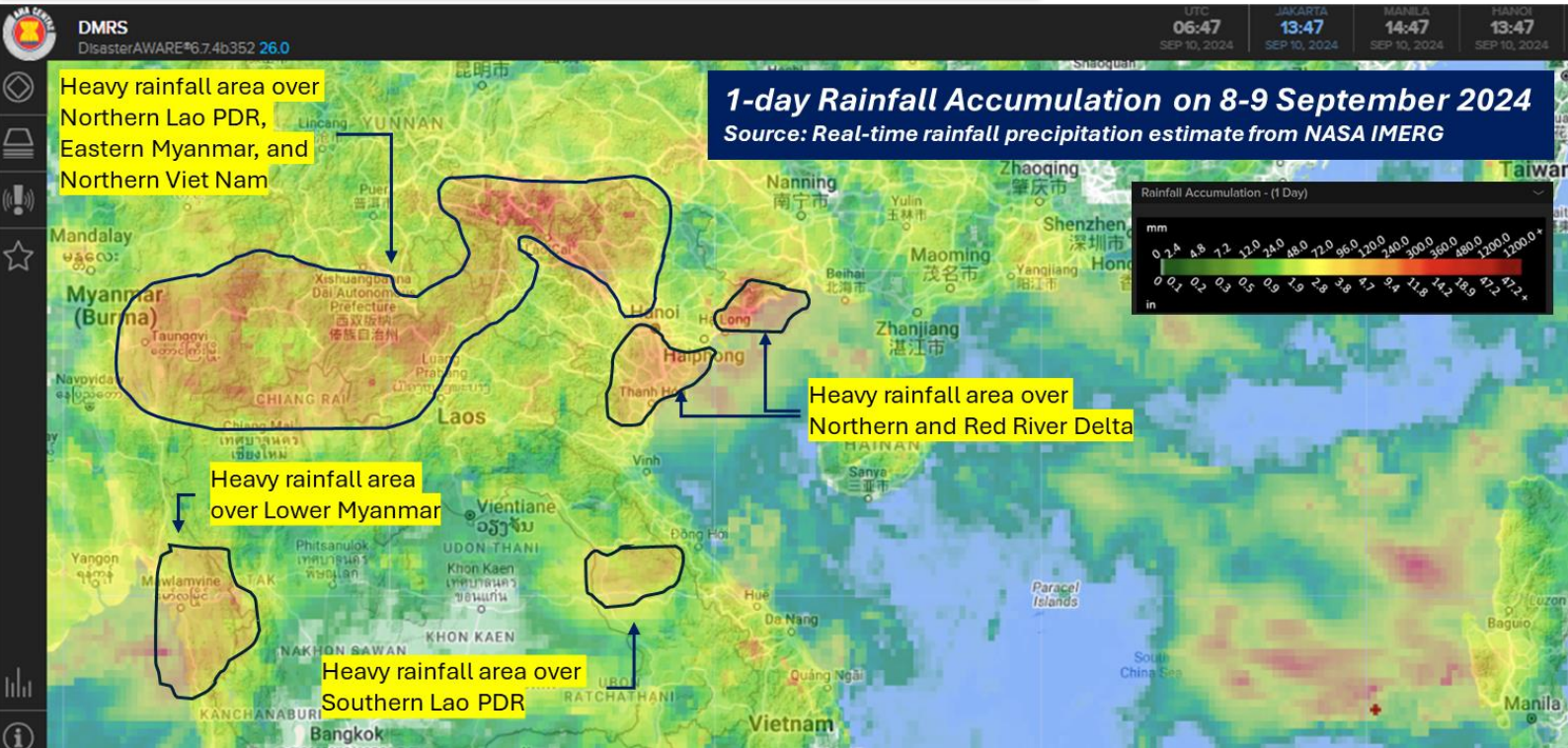
Tuesday, 10 September 2024, 1800 HRS (UTC+7)

This Situation Update is provided by the AHA Centre for use of the ASEAN Member States and relevant stakeholders. The information presented is collected from various sources, including but not limited to ASEAN Member States' Government Agencies, UN, IFRC, NGOs, Humanitarian and Dialogue Partners, and News Organisations.



### Tropical Cyclone YAGI & Southwest Monsoon

Disclosure(s): Figures are the updates from NDMO Lao PDR, NDRRMC Philippines Situation Report No. 17, DDPM Thailand, and VDDMA Viet Nam Report on 10 September 2024



	<b>20</b> Dead in the Philippines		<b>26</b> Missing in the Philippines		<b>22</b> Injured in the Philippines		<b>7.6K</b> Houses damaged in the Philippines
	<b>24</b> Dead in Thailand		- Missing in Thailand		<b>19</b> Injured in Thailand		<b>13K</b> Houses still flooded in Thailand
	<b>65</b> Dead in the Viet Nam		<b>39</b> Missing in Viet Nam		<b>752</b> Injured in Viet Nam		<b>48.3K</b> Houses damaged in Viet Nam

\*Data Collection area ongoing by relevant Authorities in Lao PDR, the Philippines, Thailand, and Viet Nam



Note: Information contained in this document are additional information since the AHA Centre Situation Update #1 (8 September 2024) and until today (10 September 2024 at 1800 HRS UTC+7). You may refer to [Situation Update #1](#) (8 September 2024) for the previous information

## 1. SUMMARY

### UPDATED IMPACTS.

**In Lao PDR**, NASA IMERG rainfall precipitation estimate shows high precipitation during the period of 8-9 September caused by the remnants of Tropical Cyclone YAGI and the Southwest Monsoon. **NDMO Lao PDR reported flooding situations in Northern Lao PDR**, including in Luang Prabang. Data collection and validation are ongoing by relevant government agencies in Lao PDR.

**In the Philippines**, as of 10 September 2024, around **2.83M people (751.6K families) have been affected** by Tropical Cyclone YAGI and the Southwest Monsoon. **Regions 5, 3, and NCR account for approximately 85.14%** (42.39%, 32.29%, and 10.46%) of the total affected population. In terms of casualties, NDRRMC Philippines reported **20 people dead** (19 for validation), **26 missing** (26 for validation), and **22 injured** (20 for validation) over Regions 1, 2, CALABARZON, 5, 6, 7, and 8. Regarding displaced populations, as of 10 September at 0700 HRS UTC+7, internally displaced persons within evacuation centres are concentrated in the following areas: CALABARZON – 67.6% (14.6K persons in 161 ECs), Region 3 – 30.4% (6.6K persons in 94 ECs), NCR – 1% (208 persons in 4 ECs), Region 1 – 0.9% (205 persons in 8 ECs), Region 5 – 0.1% (21 persons in 1 EC), and CAR (5 persons in 1 EC). Regarding flood conditions, Region 3 still has approximately 198 or 54% of reported flooding areas inundated (169 areas subsided), while other regions have mostly subsided or are receding. **The estimated cost of damages, including houses, agriculture, infrastructure, and other assets, stands at around 45.99M USD.** Data collection and validation are ongoing by relevant government agencies in the Philippines.

**In Thailand**, the combined effects of the monsoon and the tropical disturbances caused flooding and flash floods between 16 August - 9 September 2024. The widespread flooding situation extended in **26 provinces** (Chiang Rai, Chiang Mai, Phayao, Nan, Lamphun, Lampang, Phrae, Uttaradit, Sukhothai, Phitsanulok, Nakhon Sawan, Phetchabun, Loei, Udon Thani, Nong Khai, Nong Bua Lamphu, Prachin Buri, Ang Thong, Phra Nakhon Si Ayutthaya, Rayong, Phuket, Yala, Nakhon Si Thammarat, Phang Nga, Trang, Satun) 119 districts, 532 sub-districts, 2,811 villages. As of 9 September 2024, a total of **82,087 households (approximately 410,435 persons)** were affected. A total of **24 deaths** (11 flood related deaths in Chiang Rai, Phayao, Nan, Phrae, and 13 landslide related deaths in Phuket) and **19 injuries** were reported by DDPM Thailand. Currently, the flooding situation **persists in 6 provinces** (Chiang Rai, Sukhothai, Phitsanulok, Nakhon Sawan, Ang Thong, Phra Nakhon Si Ayutthaya) 15 districts, 93 sub-districts, 422 villages with **13,010 households (estimated about 65,050 persons)**.

**In Viet Nam**, as of 10 September 2024, a total of **104 people were reportedly dead or went missing and 752 people injured** in Cao Bang, Lao Cai, Quang Ninh, Hai Phong, Hai Duong, Hanoi, Hoa Binh, Yen Bai, Lang Son, Bac Giang, Tuyen Quang, Ha Giang, Lai Chau, Phu Tho, Bac Ninh, Bac Kan, Hoa Binh, Vinh Phuc, and Thanh Hoa. VDDMA Viet Nam also reported several damages to agriculture including **148.6K ha of rice, 26.2K ha of crops, 11K ha of fruit trees, and 1.6K aquaculture cages were damaged / flooded / swept away, as well as 1.1K livestock, and 680K poultry** caused by Tropical Cyclone YAGI. Quang Ninh, Hai Phong, Thai Binh, Hai Duong, and Hanoi also suffered **widespread power and communication outages**. Due to the long duration and the



sustained intensity of YAGI, **very strong gusts of wind damaged 48.34K houses, power lines and many low-voltage power poles were broken, many shops, offices, schools were damaged; many advertising signs, telecommunication poles, mobile broadcasting stations were broken; urban trees were uprooted and broken on the roads in Quang Ninh, Hai Phong, Hai Duong, Hanoi, and other provinces.** According to NASA IMERG data for 1-day rainfall accumulation, several provinces including those in mountainous areas experienced heavy rainfall on 8 September: Yen Bai, Lao Cai, Lai Chau, Bac Kan, Cao Bang, Tuyen Quang, and Ha Giang. Data collection and validation are ongoing by the relevant government agencies in Viet Nam.

### **Preparedness and Response.**

From the period of 7-10 September, NDMO Lao PDR has conducted coordination meeting, including meeting with Minister of Labour and Social Welfare of Lao PDR for the ongoing disaster situations including the impacts of Tropical Cyclone YAGI and Southwest Monsoon. The military has been deployed to flooding areas to conduct search and rescue operations. EOC NDMO Lao PDR is in close coordination with the affected provinces in Northern Lao PDR.

In the Philippines, as of 10 September, the Philippines' National Disaster Risk Reduction and Management Council (NDRRMC) Emergency Operations Center remains on **Blue Alert** for the Combined Effects of Tropical Cyclone YAGI and Southwest Monsoon.

In Thailand, DDPM is in close coordination with affected provinces by the flooding situations, especially in the six provinces that are currently still having flood situations (Chiang Rai, Sukhothai, Phitsanulok, Nakhon Sawan, Ang Thong, and Phra Nakhon Si Ayutthaya). The provincial governments currently mobilise resources to the affected communities.

In Viet Nam, on September 9, Prime Minister Pham Minh Chinh signed Official Dispatch No. 89/CD-TTg requesting ministries, branches and localities to respond to the impact of Tropical Cyclone YAGI over Viet Nam, including in the mountainous and midland provinces of the North. The Department of Dyke Management and Natural Disaster Prevention and Control has strengthened its 24/7 on-duty work to respond to the impact of Tropical Cyclone YAGI in Viet Nam.

The AHA Centre has received request of assistance from the NDRRMC – OCD Philippines on 6 September and DDPM Thailand on 10 September for mobilisation of ASEAN relief items. The AHA Centre also sent offer of assistance to VDDMA on 8 September and NDMO Lao PDR on 10 September. The AHA Centre has received the acceptance of support by VDDMA on 9 September for mobilisation of ASEAN relief items. As of 10 September, the AHA Centre remains at the EOC alert level **ORANGE** – Day 4.

### **Disaster Emergency Logistics System for ASEAN (DELSA).**

As of 10 September, a total of 1,000 personal hygiene kits and 1,500 family kits were retrieved and mobilised by NDRRMC Philippines for distribution to affected communities in the Philippines (dispatched on 3 September and 6 September). The AHA Centre will continue to liaise with NDRRMC Philippines for the dispatch of the remaining requested ASEAN relief items from the DELSA Satellite Warehouse in Camp Aguinaldo.

The AHA Centre will liaise with DDPM Thailand for the dispatch of the requested ASEAN relief items from the DELSA Satellite Warehouse in Chainat, Thailand to be distributed to the affected community.





The AHA Centre is currently preparing the mobilisation of the requested ASEAN relief items located at DELSA Regional Warehouse in Subang, Malaysia and DELSA Satellite Warehouse in Chainat Thailand for deployment to Lao PDR and Viet Nam.

## **2. ASSESSMENT OF IMPACT AND HUMANITARIAN NEEDS**

### **Impacts in Lao PDR – as of 10 September 2024**

- a. NDMO Lao PDR reported that widespread flooding occurred in northern parts of Lao PDR, includes Luang Prabang Province.
- b. Data collection on impacts and damages are ongoing by the relevant government agencies in Lao PDR.

### **Impacts in the Philippines – as of 10 September 2024**

- a. Casualties and Affected Population
  - 751,569 families (2,828,792 persons) affected from Regions 1, 2, 3, CALABARZON, 5, 6, 7, 8, CAR, and NCR
  - 71,659 currently internally displaced persons (5,453 families or 21,648 persons inside 269 evacuation centres; and 18,790 families or 50,011 persons outside evacuation centres)
  - 20 dead (19 of which are still for validation), 22 injured (20 of which are still for validation), and 26 missing (26 of which are still for validation)
- b. Damages
  - An estimated 45.99M USD worth of damages (houses, agriculture, infrastructure, and other assets)
  - 7,623 houses damaged (7,125 partially, 498 totally)
- c. Lifelines
  - 175 road sections and 32 bridge sections affected, 77% of the total of both passable to all types of vehicles
  - 1 of 1 (100%) affected airports already resumed operations
  - 17 of the 22 (77%) affected seaports already resumed operations
  - 64 of the 65 (98%) power-affected cities/municipalities restored
  - 3 of the 3 (100%) water supply-affected cities/municipalities restored
  - 1 of the 1 (100%) telecommunications-affected cities/municipalities restored
- d. Related incidents
  - 738 flooded areas, and 20 other related incidents (rain-induced landslides, collapsed structures, and others) were reported.
  - As of reporting, a total of 238 areas remains inundated, primarily in Region 3 (198), 1 (39), and CALABARZON (1). According to the report, the remaining 500 areas already subsided.
  - After the recent Sentinel Asia activations for Luzon to assess the extent of the floods. Geoinformatics Center of Asian Institute of Technology (GIC-AIT) assessed widespread flooding in Camarines Sur Province using images on 5 September, as indicated by the blue pixels (Annex 1).

### **Impacts in Thailand – as of 9 September 2024**

- a. Casualties and Affected Population
  - 24 people dead (11 dead from flooding and 13 dead from landslides)



- 19 people injured
- 82,087 households (approximately 410K persons) were affected in 26 provinces. As of 10 September, at 0600 HRS UTC+7, flooding still persists in six provinces (Chiang Rai, Sukhothai, Phitsanulok, Nakhon Sawan, Ang Thong, Phra Nakhon Si Ayutthaya) with of 13,010 households (approximately 65K persons) affected.

### **Impacts in Viet Nam – as of 10 September 2024**

#### **a. Casualties and Affected Population**

- 104 people died or went missing (65 dead 39 missing)
- 752 people injured

#### **b. Damages**

- 48,337 houses damaged
- 148,632 hectares of rice were flooded and damaged
- 26,186 hectares of crops were flooded and damaged
- 11,083 hectares of fruit trees were damaged
- 1,577 aquaculture cages were damaged and swept away
- 1,111 livestock and 680,243 poultry died
- 85 ships of various types sank in Quang Ninh
- Shops, offices, and schools were damaged

#### **c. Lifelines**

- Quang Ninh, Hai Phong, Thai Binh, Hai Duong, and Hanoi suffered widespread power and communication outages.
- 12 (500kV) power lines, 36 (220kV) power lines, 173 (110kV) power lines had problems and 5,305 power poles were broken; telecommunication poles and mobile broadcasting stations were damaged; and urban trees were uprooted and broken on the roads in the provinces and cities of Quang Ninh, Hai Phong, Hai Duong, Hanoi, etc.

#### **d. Related incidents**

- Flooding and landslides are reported in several areas over Viet Nam.
- According to VDDMA report, several provinces are reported experienced flood situations includes Yen Bai, Thai Nguyen, Bac Giang, and Lao Cai.
- After the recent Sentinel Asia activations for Viet Nam to assess the extent of the floods. Geoinformatics Center of Asian Institute of Technology (GIC-AIT) assessed widespread flooding in Northern Viet Nam using images on 8 September. As indicated by the blue pixels around 424 area were flooded over some areas over Northern Viet Nam (Annex 2).

### **Anticipated Risks**

#### **a. Tropical Cyclone Advisories**

According to [PAGASA](#) (Annex 3) and [JTWC](#) (Annex 4) as of 10 September 2024 at 1300 HRS UTC+7, there are two active tropical disturbances located in the West Pacific Ocean. INVEST 92B, previously monitored in the Bay of Bengal has dissipated as of this reporting period.

- Tropical Disturbance INVEST 94W



- i. INVEST 94W was located near 26.0N 125.2E approximately 675 km north northeast of Itbayat, Batanes.
  - ii. Maximum sustained surface winds are around 27–37 km/h. Minimum sea-level pressure is estimated to be near 1,002 hPa.
  - iii. Global model guidance indicates a generally northwestward track with slow development.
  - iv. Potential development of a significant tropical cyclone within the next 24 hours according to JTWC is MEDIUM. Meanwhile, PAGASA's 24-hr tropical cyclone formation potential indicates "HIGH" potential for INVEST 94W to develop into a significant tropical cyclone.
- Tropical Cyclone 14W (previously INVEST 95W)
    - v. INVEST 95W intensified into Tropical Cyclone 14W (currently a tropical depression) located at 10.7N,147.0E, approximately 2,320km east of Eastern Visayas (outside Philippine Area of Responsibility).
    - vi. Maximum sustained surface winds of about 45 km/h with gusts up to 55 km/h.
    - vii. PAGASA TC-threat potential forecasts that TC14W will cross the northeastern part of the Philippine Area of Responsibility.
    - viii. PAGASA forecasts TC 14W to enhance the prevailing Southwest Monsoon in the next days until next week.

**b. Southwest Monsoon and Weather Forecast in ASEAN Member States**

Cambodia

MOWRAM advises of potential heavy rainfall with thunderstorms, lighting, and wind gust over several provinces in Lowlands (Banteay Meanchey, Battambang, Pursat, Siem Reap, Kampong Chhnang, Kampong Thom, Kampong Cham, Tbong Khmum, Prey Veng, Svay Rieng, Kandal, Takeo, and Phnom Penh), Highlands (Kampong Speau, Pailin, Oddar Meanchey, Preah Vihear, Stung Treng, Kratie, Ratanakkiri, Monduliri, Cardamom Mountains), and Coastal (Koh Kong, Sihanoukville, Kampot, Kep, and Bokor) areas in Cambodia.

Lao PDR

- The Department of Meteorology and Hydrology has issued a severe weather warning due to anticipated heavy rainfall across northern and central provinces of Laos. The alert is effective immediately, with concerns extending through the coming days.
- A persistent low-pressure system combined with strong southwest winds is expected to bring substantial rainfall to the region.
- In the Northeast (Phongsaly, Houaphan, and Xiengkhouang): Thunderstorms are forecasted with light to moderate intensity overall, but some areas may experience heavy rainfall and gusty winds, with temperatures ranging from 18 to 25 degrees Celsius.
- In the Northwest (Luang Namtha, Bokeo, Oudomxay, Luang Prabang, and Xayaboury): This area is likely to see thunderstorms and heavy rain, with strong winds. Temperatures are expected to range from 22 to 31 degrees Celsius.
- In Vientiane Capital: Thunderstorms are predicted with light to moderate intensity, and some areas may experience heavy rain and gusty winds, with temperatures between 25 and 32 degrees Celsius.



- In the Central Region (Vientiane Province, Bolikhamxay, Khammouane, and Savannakhet): Thunderstorms will be prevalent, with light to moderate rain expected across most areas. Heavy rainfall in some areas, combined with strong winds, is anticipated. Temperatures will range from 23 to 32 degrees Celsius.
- In the South (Salavanh, Champasak, Sekong, and Attapeu): Thunderstorms are expected, with light to moderate rain in most areas and heavy rainfall in isolated cases.
- The heavy rain is anticipated to cause significant flooding, landslides, and flash floods. The Department urges all local governments, communities, and relevant organizations in the affected provinces to remain vigilant and take necessary precautions. Residents should prepare for potential flooding, landslides, and other weather-related hazards.
- According to MRC, in the next 24 hours, heavy to very heavy rainfall is expected in Bokeo, Phongsali, Luang Prabang, Xayaboury, and Oudamxay; high risk of flooding, flash floods, and landslides (Annex 5)

### Philippines

- According to PAGASA, the Southwest Monsoon is currently affecting Ilocos Region, Zambales, Bataan, Metro Manila, and the rest of Luzon. Flooding or landslides are possible due to moderate to heavy rains, and during severe thunderstorms.
- The development of Tropical Cyclone 14W is expected to enhance the prevailing Southwest Monsoon which will bring moderate to heavy rainfall over Southern Luzon and Visayas, and cloudy skies with occasional rainshowers over the rest of the country starting tomorrow and may extend until the next week.

### Thailand

- From 9-11 September 2024, the monsoon trough will pass through the upper part of the North and the upper Northeast, along with a strong low-pressure cell covering the upper part of Laos and the upper part of Myanmar, while the moderate southwest monsoon will cover the Andaman Sea, Thailand and the upper Gulf of Thailand. This will cause thunderstorms and heavy rain in some areas of Thailand.
- From 12-15 September 2024, the monsoon trough will move down to cover the North, the upper Central and the Northeast, while the moderate southwest monsoon covering the upper Andaman Sea, Thailand and the upper Gulf of Thailand will start to strengthen. This will cause more rain in Thailand and some areas will experience heavy to very heavy rain.

### Viet Nam

- Northern mountainous and midland regions: there will be moderate rain, heavy rain, very heavy rain in some places and thunderstorms with common rainfall of 40-80mm, some over 150mm; Lao Cai and Yen Bai will have heavy to very heavy rain with common rainfall of 50-120mm, some over 250mm.
- On September 11, there will be moderate rain, heavy rain, and in some places very heavy rain and thunderstorms with common rainfall of 30-60mm, some over 120mm.
- Northern Delta region, Hoa Binh, Thanh Hoa and Nghe An: there will be heavy to very heavy rain and scattered thunderstorms with common rainfall of 50-120mm, some over 300mm.



- On September 11, there will be moderate rain, heavy rain, and in some places very heavy rain and thunderstorms with common rainfall of 40-90mm, some over 200mm.
- From Ha Tinh to Thua Thien Hue, there will be scattered showers and thunderstorms, locally heavy rain with rainfall from 15-30mm, locally over 70mm. In the evening and night of September 10, in the area from Da Nang to Khanh Hoa, the Central Highlands and the South, there will be scattered showers and thunderstorms, locally heavy rain with rainfall from 10-30mm, locally over 60mm. During thunderstorms, there is a possibility of tornadoes, lightning and strong gusts of wind.
- Heavy rain and localized heavy rain are likely to cause flooding in low-lying areas; flash floods on small rivers and streams, landslides on steep slopes
- From 9-11 September, VDDMA warns that there will be flooding on other rivers in the Northern region. During this flood, the flood peak on small rivers in the northern mountainous provinces, especially in Lang Son, Cao Bang, Bac Kan, Bac Giang, Lao Cai, Yen Bai, Hoa Binh, Son La provinces will reach level 2-3, with some rivers above level 3

c. **The El Niño-Southern Oscillation (ENSO) and Indian Ocean Dipole (IOD)**

According to ASMC, La Niña conditions are predicted to develop during September-October 2024. The IOD is currently neutral, with either neutral or negative IOD conditions during September-November 2024. Both La Niña and negative IOD events tend to bring wetter than average rainfall to parts of the ASEAN region.

**Humanitarian Needs.** Following the nature of the tropical cyclone which brought heavy to heavy rainfall and strong winds resulting to flooding, rain-induced landslides, storms and winds, provision of basic necessary logistics and humanitarian are important in view of severe impacts such as Family Kits, Personal Hygiene Kit, Tool Kits, Water Filtration, Shelter Tool Kits, Lighting Equipment, Kitchen Sets, Water Storage (including jerry can), and Mosquito Nets. Additionally, as of rainfall observation by using NASA IMERG data to see 1-day accumulated rainfall on 8-9 September, it is identified that several provinces include mountainous provinces in the Northern Viet Nam, Northern Lao PDR, and Northern Thailand are experiencing heavy to very heavy rainfall events.

### 3. ACTIONS TAKEN AND RESOURCES MOBILISED

#### Response by the Government of Lao PDR

- a. Military from National went to the flooding area to conduct search and rescue operations
- b. NDMO Lao PDR is closely coordinating with the provincial governments for the damage assessment and emergency response operations
- c. Authorities are currently conducting damage assessments and data collection
- d. DMH of Lao PDR are closely monitoring the development of weather and issue regular weather updates.
- e. Early warning information and advisories are proactively provided to the public and communities at risk of the potential effects of the monsoon rains and TC YAGI.
- f. NDMO Lao PDR closely monitors the development of TC YAGI and proactively coordinates with relevant agencies to prepare for potential effects of TC YAGI.
- g. The Minister of Labour and Social Welfare and NDMO Lao PDR conducted a briefing regarding the potential impacts and preparedness measures for TC YAGI.

#### Response by the Government of the Philippines





a. **Operational**

NDRRMC **Blue Alert** for the Tropical Cyclone YAGI and Southwest Monsoon in the Philippines.

A total of 39 cities/municipalities were declared under State of Calamity over Regions 5 (37), 8 (1), and CALABARZON (1).

b. **Costs of Humanitarian Assistance**

Around 3.7 M USD worth of assistance has been provided to those affected from DSWD, OCD, AHA Centre, LGUs, other partners, and NGOs.

c. **Response Cluster EEIs**

**Food and Non-Food Items (F/NFI).** 304,128 FNFI provided (303,336 of which are FFPs, 792 pcs family kits, family tent, hygiene kits, kitchen sets, shelter kits, and sleeping kits among others) were provided to affected families in Regions 2, 5, 6, and 8.

**Search Rescue and Retrieval (SRR).** A total of 712 Search, Rescue, and Retrieval (SRR) personnel deployed to Regions 1, 2, 3, CALABARZON, MIMAROPA, BARMM, CAR, and NCR. 139 SRR assets deployed (land, water, and air assets).

**Emergency Telecommunications.** 522 emergency telecommunications equipment/resources standby and ready for deployment.

**Law and Order.** 818 personnel and 135 resources deployed in evacuated areas conducting visibility patrols in Regions 2, 3, CALABARZON, 5, and NCR.

**Education.** 19 schools used as evacuation centres in Regions 3 and CALABARZON.

**Health.** A total of 9.2K USD worth of augmented health commodities to CHDs and LGUs in Regions 3, 5, CALABARZON, and NCR; 953 health consultations conducted in evacuation centres in Central Luzon; and 640K USD worth of prepositioned medical logistics in CHDs 2, 7, 8, CALABARZON, and BARMM.

**Response by the Government of Thailand**

- a. TMD are closely monitoring the development of weather and issue regular weather updates.
- b. Early warning information and advisories are proactively provided to the public and communities at risk of the potential effects of the monsoon rains and TC YAGI.
- c. DDPM Thailand closely monitor the development of TC YAGI and proactively coordinates with relevant agencies to prepare for potential effects of TC YAGI, as well as respond to ongoing flooding and landslides situations over 26 provinces. As of the report on 10 Sep at 0600 HRS UTC+7, flooding still persists in six provinces.

**Response by the Government of Viet Nam**

- a. On 9 September, the Politburo and the Secretariat convened to focus on addressing the aftermath of the floods caused by Tropical Cyclone YAGI and to proactively respond to potential floods and landslides.
- b. On 8 September, the Prime Minister and Deputy Prime Ministers held both online and in-person meetings with Ministers, Secretaries, and Chairmen of People's Committees from Northern provinces and cities to Thanh Hoa. The meetings aimed



- to direct urgent efforts to mitigate the consequences of Tropical Cyclone YAGI. Following the meetings, the Prime Minister and Deputy Prime Ministers visited and provided guidance in the heavily affected areas.
- c. On 9 September, Deputy Prime Minister Ho Duc Phoc personally oversaw the search and rescue operations following the Phong Chau bridge collapse in Phu Tho province.
  - d. On 9 September, Deputy Prime Minister Le Thanh Long and Minister Le Minh Hoan directed flood response and recovery efforts in Lao Cai.
  - e. On 8 September, Deputy Minister of Agriculture and Rural Development Nguyen Quoc Tri coordinated with Hoa Binh province to manage landslide recovery efforts in Da Bac district.
  - f. Between 8-10 September, the Ministry of Agriculture and Rural Development issued nine telegrams and nine documents to ensure downstream safety during the operation of hydroelectric reservoirs.
  - g. On 8-9 September, the Department of Dyke Management and Natural Disaster Prevention and Control issued three documents (No. 890/DD-QLDD, No. 891/DD-QLDD, No. 895/DD-QLDD) to address the safety of the dike system in response to floods caused by Tropical Cyclone YAGI.
  - h. Various ministries and local branches have issued directives and organised working groups to inspect and provide guidance at key locations.
  - i. On 8-9 September, the Ministry of Public Security issued two official dispatches (No. 12/CD-BCA-V01 and No. 13/CD-BCA-V01) directing forces to focus on flood, landslide, and flash flood response and recovery efforts, as well as addressing the collapse of the Phong Chau bridge span in Phu Tho province.
  - j. The Ministry of National Defense and the Ministry of Public Security mobilised 48,485 officers and soldiers, along with 970 vehicles, to support localities in search and rescue operations and to mitigate the impact of storms and floods.
  - k. The Department of Dyke Management and Natural Disaster Prevention and Control has enhanced its 24/7 duty operations, provided advice and direction, and organised the urgent dissemination of 9.3 million “Urgent Flood News” messages to high-risk areas in 14 provinces/cities and 7.2 million “Safety Warnings against Flash Floods and Landslides” messages to people in 17 provinces/cities.
  - l. The Departments of Irrigation, Fisheries, and Crop Production have conducted field inspections and provided guidance on response and recovery measures for storms and floods.

### **Response by the AHA Centre**

- a. On 31 August, the AHA Centre EOC started to monitor the development of INVEST 92W, which later evolved into Tropical Cyclone YAGI. Information was subsequently disseminated internally within the AHA Centre.
- b. On 1 September, the AHA Centre EOC start to coordinate with EOC focal points from NDMO Lao PDR, the Philippines’ NDRRMC-OCD, DDPM Thailand, and VDDMA Viet Nam.
- c. On 1, 4, and 6 September, the AHA Centre issued Flash Updates 1, 2, and 3 on the combined impacts of the Southwest Monsoon and Tropical Cyclone YAGI.
- d. A total of 1,000 personal hygiene kits and 1,500 family kits were retrieved and mobilised by the NDRRMC for distribution to affected communities in the Philippines (dispatched on 3 September and 6 September).
- e. On 8 September, the AHA Centre issued Situation Update 1 the combined impacts of the Southwest Monsoon and Tropical Cyclone YAGI.



- f. On 8 September, the AHA Centre sent a letter of sympathy and an offer of assistance to Viet Nam Disaster and Dyke Management Authority (VDDMA).
- g. On 10 September, the AHA Centre sent a letter of sympathy and an offer of assistance to the National Disaster Management Office (NDMO) of Lao PDR.
- h. The AHA Centre is also preparing the letter of sympathy and offer of assistance addressed to the Department of Disaster Mitigation and Prevention (DDPM) Thailand.

## RECOMMENDATIONS AND PLAN OF ACTIONS

### Recommendations

- a. General public and humanitarian partners are advised to monitor information on the hazards and disaster impacts from official government sources through the National Disaster Management Office (NDMO Lao PDR), Philippines's National Disaster Risk Reduction and Management Council (NDRRMC), Department of Disaster Prevention and Mitigation (DDPM) Thailand, and Viet Nam Disaster and Dyke Management Authority (VDDMA).
- b. Information on the early warning of the weather and climate conditions from official government sources can be accessed through the National Hydrological and Meteorology Services (NHMS) from ASEAN Member States, such as Department of Meteorology and Hydrology (DMH) Lao PDR, the Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA), Thailand Meteorological Department (TMD), and National Centre for Hydro - Meteorological Forecasting (NCHMF) of Viet Nam.

### The AHA Centre's Plan

- a. The AHA Centre will continue to liaise with NDRRMC-OCD of the Philippines for the dispatch of the remaining requested ASEAN relief items from the DELSA Satellite Warehouse in the Philippines for affected communities by TC YAGI and the Southwest Monsoon.
- b. In close coordination with NDMO Lao PDR and VDDMA Viet Nam, the AHA Centre is preparing ASEAN relief items located at DELSA Regional Warehouse in Subang, Malaysia and Satellite Warehouse in the Chainat Thailand for mobilisation to Lao PDR and Viet Nam.
- c. The AHA Centre will liaise with DDPM Thailand for the dispatch of the requested ASEAN relief items from the DELSA Satellite Warehouse in Chainat, Thailand for affected communities by TC YAGI and the Southwest Monsoon.
- d. The AHA Centre will continue to closely coordinate with NDMO Lao PDR, NDRRMC Philippines, DDPM Thailand, and VDDMA Viet Nam, and stands ready to provide support should other needs arise.
- e. The AHA Centre will continuously update the impact information in the ASEAN Disaster Information Network (ADINet).

### Prepared by:

The AHA Centre - Emergency Operations Centre (EOC)

## ABOUT THE AHA CENTRE

The AHA Centre - ASEAN Coordinating Centre for Humanitarian Assistance on disaster management - is an inter-governmental organisation established by 10 ASEAN Member States –



Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand and Viet Nam - to facilitate the cooperation and coordination among ASEAN Member States and with the United Nations and international organisations for disaster management and emergency response in the region.

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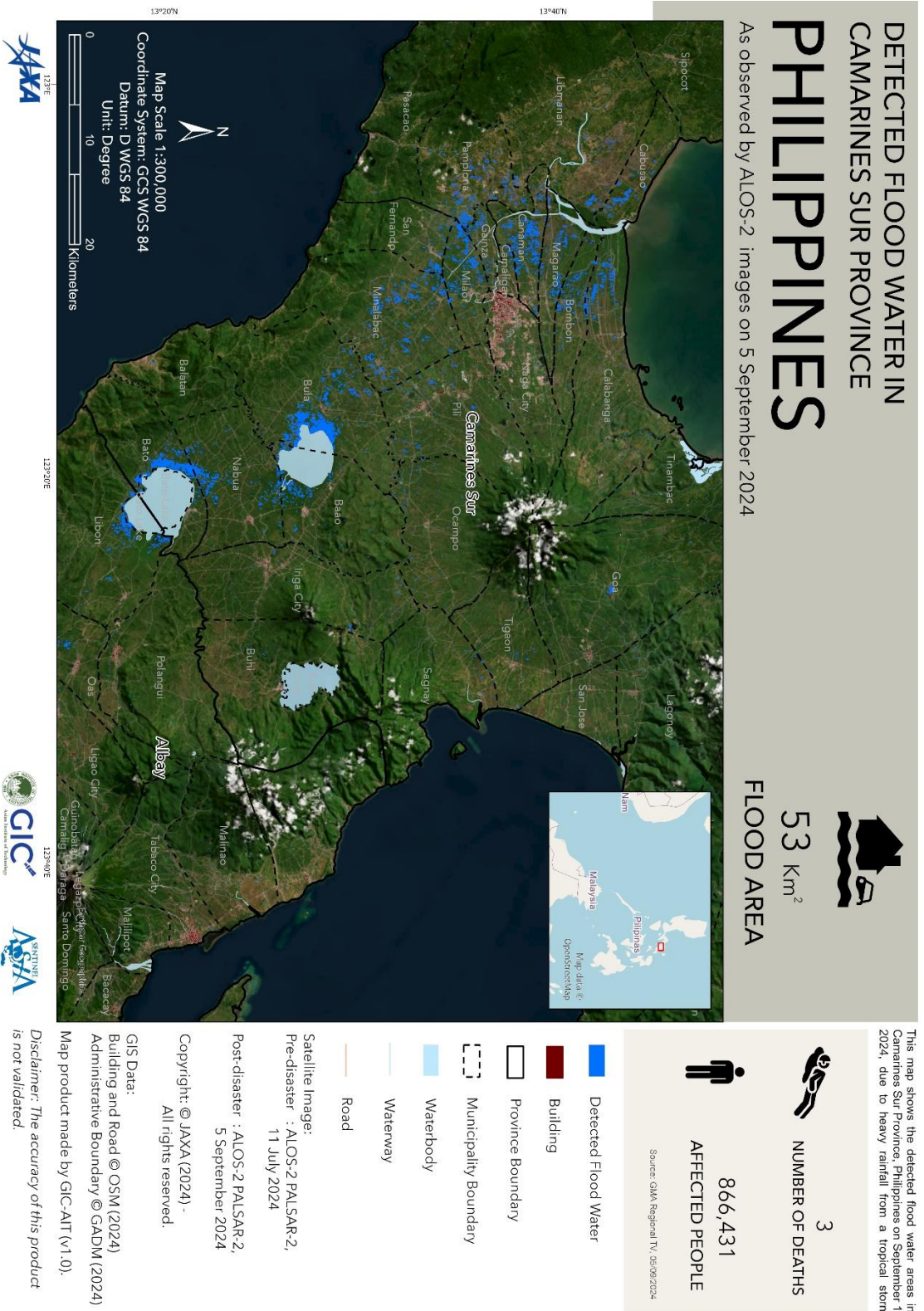
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Annex 1. Flood Proxy Map from GIC-AIT for Camarines Sur, the Philippines



## Annex 2. Flood Proxy Map from GIC-AIT for Northern Viet Nam



This map shows the detected flood water areas in Northern Vietnam Region, Vietnam, on September 8, 2024, caused by heavy rains from Typhoon Yagi.

 **82**  
NUMBER OF DEATHS

 **50,000**  
AFFECTED HOUSEHOLDS

 **64**  
MISSING PERSONS

Source: Reuters News Agency, 10/09/2024

 Detected Flood Water

 Building

 Province Boundary

 Waterbody

 Waterway

 Road

Satellite Image:  
Pre-disaster : ALOS-2 PALSAR-2,  
16 January 2022

Post-disaster : ALOS-2 PALSAR-2,  
8 September 2024

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GIS Data:  
Building and Road © OSM (2024)  
Administrative Boundary © GADM (2024)  
Map product made by GIC-AIT (v1.0).

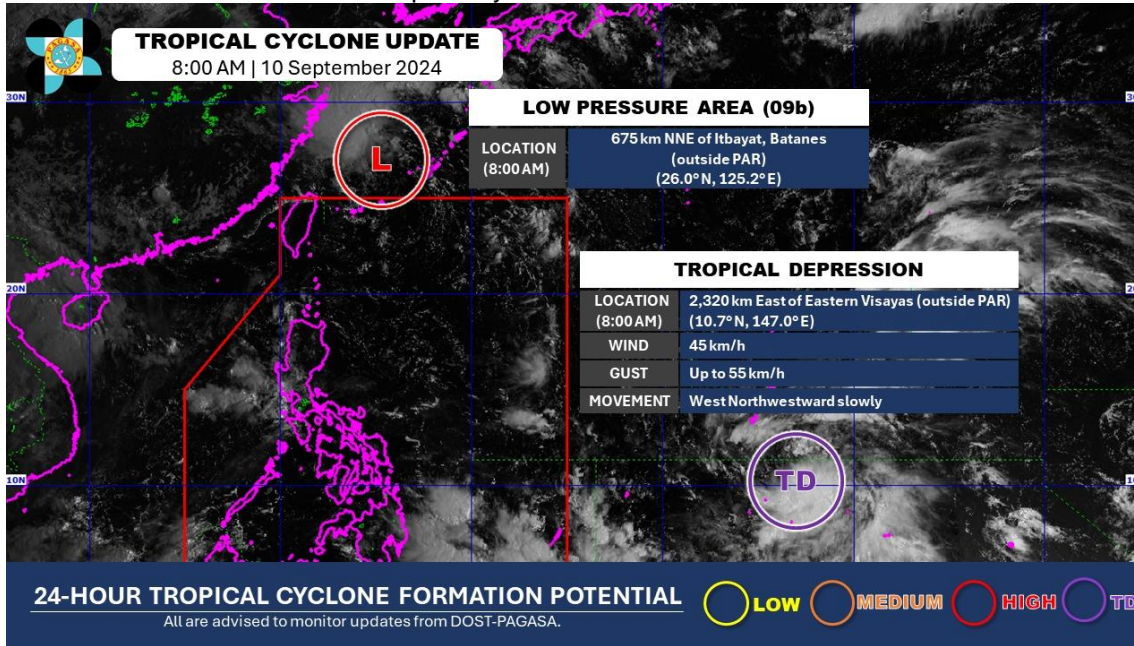
Disclaimer: The accuracy of this product is not validated.



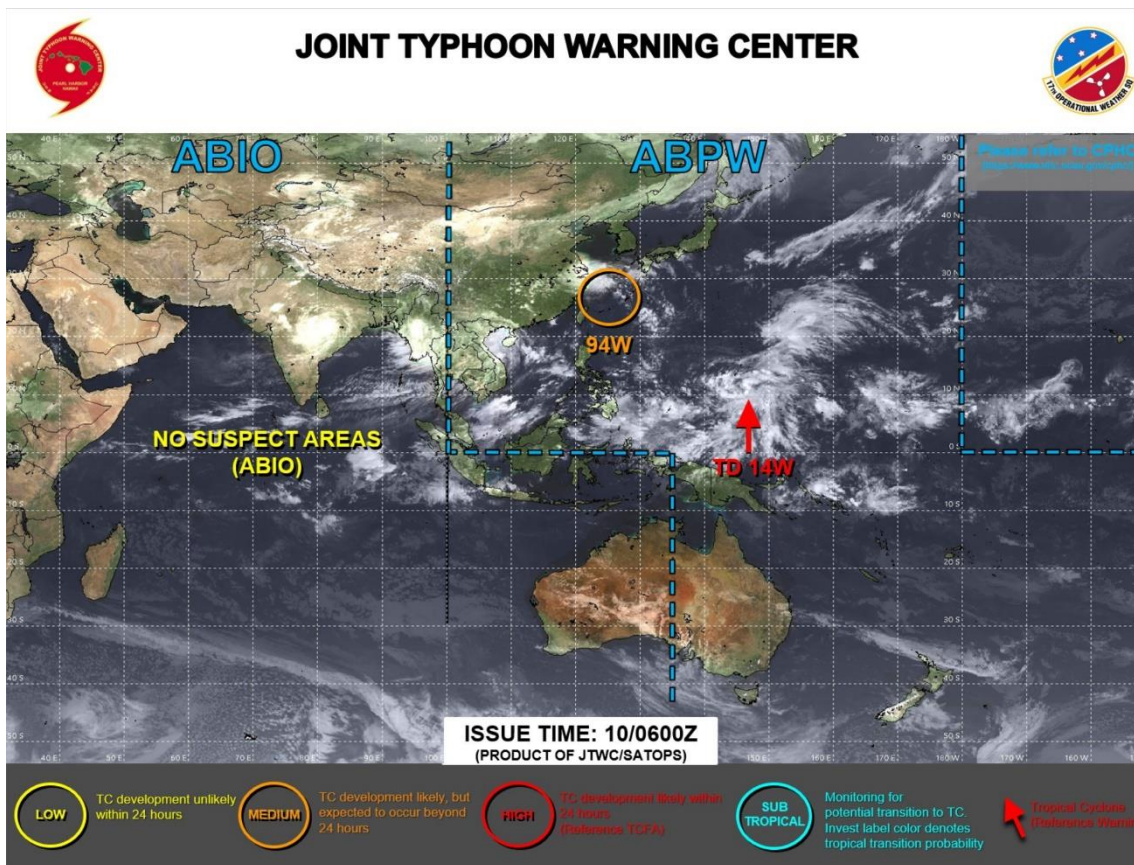
SITUATION UPDATE



Annex 3. 24-Hours Tropical Cyclone Formation Potential from PAGASA



Annex 4. JTWC Advisories as of 10 Sep at 1000 HRS UTC+7



Annex 5. MRC Accumulated Rainfall Forecast for 11 – 15 September

