

24/7 Emergency Operation Center for Flood, Storms and Landslide

DATE: Saturday, November 19, 2011	TIME: 09.00	LOCATION: Disaster Relief Operation Center at Energy Complex
Source: Secretariat of the EOC gathered information from the concerned agencies for daily update		

1. CURRENT SITUATION

- 1.1 Current flooded provinces:** there are **18** recent flooded provinces: **North:** Nakhon Sawan; **Centra:** Chai Nat, Ang Thong, Phra Nakhon Si Ayutthaya, Lopburi, Saraburi, Suphan Buri, Nakhon Pathom, Pathumthani, Nonthaburi, Samutsakhon, Samut Prakarn and Bangkok; **Northeast:** Ubon Ratchathani, Roi-et, and Kalasin; **Eastern:** Chacheongsao, Nakhon Nayok. The total of **130** Districts, **936** Sub-Districts, **6,563** Villages, **1,921,263** families and/or **5,146,285** people are affected by the flood. The total fatalities are **595** deaths and **2** missing. (Missing: 1 in Mae Hong Son, and 1 in Uttaradit)
- 1.2 Amount of Rainfall:** The heaviest rainfall in the past 24 hours is in La Han Sub-District, Sai Buri District of Phattani Province at 29.0 mm.
- 1.3 Estimate Losses and Damages:**
- 1.3.1 Agricultural impact : Farming areas which would be affected are estimated at 11,200,000 rai; 211,319 rai of fish/shrimp ponds and over 28.74 million livestock (source: Ministry of Agriculture and Cooperatives).
- 1.3.2 Transportation Routes :
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| Highway | 53 main highways in 9 provinces are flooded and cannot be passed. For more information, contact 1568 or DDPM Hotline 1784. |
| Rural roads | 166 rural roads in 28 provinces are not passable. Additional inquiry, call 1146. |
| Expressway Authority of Thailand | The EXAT together with The Royal Thai Police moved the cars, shelters, street vendors and taxi motorcyclists that parked and obstructed traffic on the express way out off the way. In addition, the EXAT keeps exempted fare for 6 routes, namely (1) Kanchanaphisek Express Way (Bang Phli-Suksawas) (2) Buraphawithi Express Way (3) Chalongraj Express Way (4) Sri Ratch Express Way (5) Chalong Ratch Express Way and (6) Chalerm Mahanakorn Express way until 24.00 p.m. of 20 November 2011. For more information, contact EXAT Call Center 1543 24 hrs. |
| State Railway of Thailand | 10 routes affected from floods as the followings;
Northern Routes: (1) Don Mueang – Rangsit; (2) Rangsit – Chiang Rak and (3) Chaing Rak – Chiang Rak Noi |

Southern Route (1) Bang Sue Junction – Bang Bam Ru ; (2) Taling Chan Junction – Sala Thammasop ; (3) Salaya – Wat Suwan ; (4) Wat Suwan – Ngew Rai ; (5) Bang Bon – Rang Po and (6) Nong Pla Duk Junction – Suphan Buri

Additional inquiry Call State Railway of Thailand Information Center 1690, 24 hrs.

The Transport Co.Ltd.

Flood affected provinces caused impassable for parts of routes in Phra Nakorn Si Ayutthaya, Pathumthani and Nonthaburi Province.

Northeast Route (In-Out bound) starts from Bangkok Bus Terminal (Chatuchak) – Sri Ratch Express Way – Ram In Tra Express Way – Lam Luk Ka District, Pathum Thani Province – Nakhon Nayok Province – Ban Na District of Nakhon Nayok Province – Hin Kong District of Saraburi Province – Nakhon Nayok Province – Mittrapap Road – Take regular roads.

Northern Routes (In-Out bound) starts from Bangkok Bus Terminal (Chatuchak) and takes regular roads.

For more information, contact 24 Hr-Hotline 1490.

1.4 Important Assistance Provision

1.4.1 The Military mobilized a wide range of resources to the flood affected areas, including;

The Royal Thai Armed Force: support manpower and heavy equipment to assist people in disaster affected areas, including BMA, Samutprakarn, Nonthaburi, Pathumthani, Chachoengsao, Phranakhon Si Ayutthaya, Uthaithani, and Uttaradit Province. They assisted in retrofitting 4 flood embankments at the area of local road, Don Mueang Airport, Chantarubeksa Road, and Paholyotin Road. They also are ordered to safeguard and repair the embankments at the areas. The RTAF supported water pumps to drain water in Chaeongsao Province and Bangkhunthian Bangkok.

Royal Thai Army: dispatched a cadre of manpower and heavy equipment for land, marine and air operation, together with 15 specialist mobile units for medical and mental health care to the affected areas. They also provided transportation for the public in 44 routes of Nonthaburi Province (35 routes for road, and 9 for boats) and 9 routes in BMA. They also provided food, drinking water and facilitated victim assistant together with provided water weed and garbage disposal in Bangkok and Chaeongsao province.

The Royal Thai Navy: dispatched officers and heavy equipment for water operation to help people affected by flooding. They also retrofitted 4 flood embankments in Thaweewattana District of BMA and pushed out water from major rivers and canals around BMA. The RTN provided transportation for the public in 10 routes in Bangkok, Nonthaburi and Nakhon Prathom Province and distributed cooked food to many temples in Nonthaburi Province and Bangkok.

The Royal Thai Air Force: dispatched officers and aircrafts as well as boats to help the flood victims in BMA, Pathumthani, and Nonthaburi Province. They assisted in pumping out water in the inundated areas. They also provide transportation for the public in many areas and secure the flood walls.

1.4.2 Ministry of Interior

Department of Disaster Prevention and Mitigation assigned Deputy Director General (Mr. Prateep Kiratirheka) to run the joint mission for sand bags production by mobilizing manpower from DDPM Emergency Response Team (ERT) together with DDPM officials (33 people), Territorial Defence Volunteers (51 people) to secure the area at all time. They also are able to produce additional 138 big sand bags and 49,960 small sand bags for flood fighting activities, provided 32,040 sand bags and 307 big sand bags to many organizations/agencies.

The Department of Provincial Administration received 16,469 petitions from 17 provinces and 16,414 of which have already been solved since 9 October to 18 November 2011. They also dispatched a cadre of the Territorial Defence Volunteers from the non-flood affected province to help flood victims in 5 provinces, 21 districts, and assisted FROC's activities.

1.4.3 Ministry of Natural Resources and Environment

Department of Water Resources (DWR) provided 2,681,217 Dasta Balls and 201,952 bottles of liquid EM to the public. They can pump out water at the west side of Tha Chine River altogether 10,979,088 m³ of flood water since 26 Oct. – 18 Nov. 2011. They also installed water purification distributors near Thaweewattana Canal, Department of Water Resources and National Stadium, 31,958 people received 159,790 liters of drinking water.

Department of Groundwater Resources provided 102,085 liters of drinking water on Nov 18, 2011. Since 8 Oct – 18 Nov, 2011 the amount of 4,095,198 liters of drinking water were provided to the public in 52 flood affected locations. (24 areas in BMA and nearby ; 28 other provinces). **For more information, contact 02 2993900 or www.dgr.go.th/flood.**

1.4.4 Ministry of Public Health dispatched medical care mobile units to visit 310 flood fatality families for mental health care.

Emergency Medical Institute of Thailand dispatched aircrafts and boats to transfer 10 patients. **For more information, contact 24-hr hotline 1669.**

2. SITUATION ASSESSMENT/FORECAST

2.1 Thai Meteorological Department (TMD): Another active high pressure from China will reach upper Thailand during 20-24 November. The rain in the first phase and drop of temperature at 3-5 degree can be expected. The stronger northeast monsoon across southern Thailand and the Gulf brings more rain with the stronger wind waves in the areas.

During 20-24 November 2011, the Northeast monsoon winds covered the South and the Gulf of Thailand become stronger. Wind waves with 2-3 meters high can be expected.

2.2 Royal Irrigation Department (RID):

- Water situation in major basins:

- **The North Basins (Ping, Yom and Nan basin):** Water level in most areas is below the river bank, except in Bang Rakum District of Phitsanulok Province where water level is 0.03 m. above river bank. However, the water level is likely to decrease.
- **The Central Basins (Thachine and Chao Phraya basin):** Water level in the river at Nakhon Sawan, Chainat, and Ang Thong Province are below river bank. But water level is still higher than the river bank in some districts of Phra Nakhon Si Ayutthaya (Phra Nakhon Si Ayutthaya District and Bang Sai District), Suphanburi (Song Phi Nong District) and Nakhonpathom Province (Banglen and Nakhonchaisi District). However, the water level in the basins is likely to decrease.
- **Chulalongkorn Watergate, Pathum Thani Province** the water level at Chao Phraya River side is decreasing at 0.89 m. below river bank and of Rangsit Prayulsak canal at 1.15 m. below river bank. They are likely to decrease.
- **The Northeastern Basins (Mun and Chi basin):** River overflow is reported in many areas, but likely to decrease.

- Capacity of water pumping and draining of the Lower Chao Phraya Basin:

- **Total amount of water pumping and draining:** 120.11 m³/day
- **Capacity of water pumping:** Total amount is 44.78 m³/day, in which the eastern side of the river can pump water out at 29.80 m³/day and 14.98 m³/day of the western side of the river.
- **Capacity of water draining:** Total amount is 75.33 m³/day. The eastern side of the river can drain 14.93 m³/day and 60.40 m³/day at the western side of the river.

- The capacity of Major Dams:

- **Bhumibol Dam:** it reached 99.0 Percent of retention capacity. 15 million cubic meters received, 23 million cubic meters discharged. The additional retention is 118 million cubic meters.
- **Sirikit Dam:** it reached 99 Percent of retention capacity. 12 million cubic meters received, 11 million cubic meters discharged. The additional retention is 56 million cubic meters.
- **Kwae Noi Dam:** it reached 100 Percent of retention capacity. 0.77 million cubic meters received, 0.86 million cubic meters discharged.
- **Pasak Dam:** it reached 128 Percent of retention capacity. 2.37 million cubic meters received, 1.8 million cubic meters discharged.

2.3 Bangkok Metropolitan Administrative (BMA) On 19 November, the highest water level in Chao Phraya River at Pak Khlong Talad Station was 1.98 meters at 10.00 a.m. The following are overall canals water situation of BMA:

- **Premprachakorn Canal:** water level is decreasing around 2-4 cm.
- **Lad Prao Canal:** water level is decreasing around 2-4 cm.
- **Bang Sue Canal:** water level is decreasing around 2-3 cm.

- **Maha Sawat Canal** run off water to many areas toward Taweewattana Canal.

For more information, contact BMA's EOC at 0-2248-5115 or 24-hr hotline 1555 or visit BMA website at www.bangkok.go.th.

- 2.4 **Hydrographic Department of the Royal Thai Navy:** On 19 Nov 2011, high-low tide of the sea can be expected at 05.57 a.m. for the lowest at 1.47 m. and the highest at 01.46 p.m. at 2.10 m.