

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

DATE: Tuesday, November 22, 2011	TIME: 09.00	LOCATION: Disaster Relief Operation Center at Energy Complex
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Source: Secretariat of the EOC gathered information from the concerned agencies for daily update

1. CURRENT SITUATION

1.1 Current flooded provinces: there are **17** recent flooded provinces: **North:** Nakhon Sawan; **Central:** Chai Nat, Ang Thong, Phra Nakhon Si Ayutthaya, Lopburi, Saraburi, Suphan Buri, Nakhon Pathom, Pathumthani, Nonthaburi, Samutsakhon, Samut Prakarn and Bangkok; **Northeast:** Ubon Ratchathani and Roi-et; **Eastern:** Chacheongsao, Nakhon Nayok. The total of **124** Districts, **867** Sub-Districts, **5,752** Villages, **1,886,062** families and/or **5,051,235** people are affected by the flood. The total fatalities are **606** 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 Pha La Mee Sub-District, Pak Pa Yun District of Phattalung Province at 194.0 mm.

1.3 Estimate Losses and Damages:

1.3.1 Agricultural impact : Farming areas which would be affected are estimated at 11,460,000 rai; 261,065 rai of fish/shrimp ponds and 29.34 million livestock (source: Ministry of Agriculture and Cooperatives).

1.3.2 Transportation Routes :

Highway **45** main highways in **9** provinces are flooded and cannot be passed. For more information, contact 1568.

Rural roads **169** rural roads in **28** provinces are not passable. Additional inquiry, call 1146.

State Railway of Thailand **Northern Routes:** Bangkok – Chiang Mai starts from Bangkok Terminal (Hua Lampong) and changes routes to Makkasan – Klong Tan – Hua Mak – Hua Takae – Chachongsao – Kang Koi – Saraburi – Pachi Junction – regular routes. The trains will stop at Chachongsao and Kang Koi Station only due to the overflow from Don Muang to Phra Nakhon Si Ayutthaya Station.

Southern Routes : Operate regular services from November 22, 2011 starts from Bangkok Terminal (Hua Lampong) and cancels shuttle bus service to Nakhon Pathom Station.

North Eastern Routes From Nov 12 – 26 Dec 2011, two railway lines cancelled namely ; 1) Train No. 141 : Bangkok - Ubon Ratchathani and 2) Train No. 142 Ubon Ratchathani – Bangkok

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. They also are ordered to safeguard and repair the embankments at the areas. The RTAF provided transportation for people in several areas, including Chacheongsao Province, Nakhon Pathom Province and BMA (Bangken and Sai Mai Districts). They also assisted in pushing water in many important canals such as The Lad Krabang, The Prawes Burirom, The Phra Ong Chao Chaiyanuchid, The Udomchonlajon, The Nakhon Nueangket, The Premprachakorn, the Bangken, and The Bang Bua.

The 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 in Nakhon Sawan, Lop Buri, Phra Nakorn Si Ayutthaya and Pathumthani Province They also provided transportation for the public in 51 routes.

The Royal Thai Navy: dispatched officers and heavy equipment for water operation to help people affected by flooding. They also pushed out water from major rivers and canals around BMA. The RTN provided vehicles for the public in 10 routes and boats in 3 routes in Bangkok, Nonthaburi and Nakhon Prathom Province. Together with BMA, the RTN and volunteers helped to clean the debris at Bang Phlad District of BMA.

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. The RTAF supported aircrafts for aerial photograph at Chulalongkorn Watergate, Don Muang, Lad Prao Junction, San Sap Canal, Sam Wa Canal and Hok Wa Canal.

1.4.2 Ministry of Interior

Department of Disaster Prevention and Mitigation provided water distributor unit to Sai Noi District of Nonthaburi Province by DDPM Regional Center 3, Prachinburi Province and dispatched Emergency Response Team (ERT)

together with DDPM officials to secure the sand bag loading area at all time. They also assigned officers to monitor and make an inventory for check-in/out of donation items at DDPM, Bangkok and supported 10 water pumps to Royal Thai Air Force.

The Department of Provincial Administration received 16,568 petitions from 17 provinces and 16,537 of which have already been solved since 9 October to 21 November 2011. They also dispatched a cadre of the Territorial Defence Volunteers from the non-flood affected province to help flood victims in 6 provinces, 44 districts, and assisted FROC's activities.

- 1.4.3 **Ministry of Public Health** Bureau of Epidemiology monitored of flu and influenza at the Rajamangala National Stadium Shelter and only found RSV and Adeno Virus. However, the patients did not in severe situation as the press releasing of "Metaneumo virus" spread out at this shelter.

2. SITUATION ASSESSMENT/FORECAST

2.1 **Department of Mineral Resources** monitored and updated of flashflood and landslide during 21-22 November 2011 at Sribanpot, Srinakarin, Kong Ra and Tamod of Phattalung Province; Rattapum, Had Yai, Na Mom, Sabayoi District of Song Kha Province; Na Yong, Yan Ta Kao and Pa Lien District of Trang Province and Manang, Kuang kalong and Kuan Doan District of Satun Province.

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, the water level is likely to decrease.
 - **The Central Basins (Thachine and Chao Phraya basin):** Water level in the river at Nakhon Sawan and Chainat, Province are below river bank. But water level is still higher than the river bank in some districts of Ang Thong (Muang District), 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 1.05 m. below river bank and of Rangsit Prayulsak canal at 1.25 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:** 111.11 m³/day_in which the eastern side of the river can pump water out at 43.37 m³/day and 67.74 m³/day of the western side of the river.
 - **Capacity of water pumping:** Total amount is 49.17 m³/day, in which the eastern side of the river can pump water out at 30.38 m³/day and 18.79 m³/day of the western side of the river.
 - **Capacity of water draining:** Total amount is 61.94 m³/day. The eastern side of the river can drain 12.99 m³/day and 48.95 m³/day at the western side of the river.

- **The capacity of Major Dams:**

- **Bhumibol Dam:** it reached 99.0 Percent of retention capacity. 18 million cubic meters received, 20 million cubic meters discharged. The additional retention is 127 million cubic meters.
- **Sirikit Dam:** it reached 99 Percent of retention capacity. 6 million cubic meters received, 11 million cubic meters discharged. The additional retention is 68 million cubic meters.
- **Kwae Noi Dam:** it reached 99 Percent of retention capacity. 0.83 million cubic meters received, 0.86 million cubic meters discharged.
- **Pasak Dam:** it reached 127 Percent of retention capacity. 0 million cubic meters received, 1.8 million cubic meters discharged.

2.3 **Bangkok Metropolitan Administrative (BMA)** On 21 November, the highest water level in Chao Phraya River at Pak Khlong Talad Station was 2.16 meters at 01.53 p.m. The following are overall canals water situation of BMA:

- **Western Side of BMA** the overflow from water leakage at Don Muang from Rang Sit decreased 2 c.m. and Lower Hok Wa Canal at Song Canal Watergate reduced around 3 c.m.. The overflow existed at Nam Keaw Canal at Ratchada Road and Premprachakorn Canal at Tawasunthorn.
- **Eastern Side of BMA** (Thonburi Area), the overflow towards many areas namely; Mahasawas Canal at Bhuttamonton Sai 2 Road, Bang Prom Canal at Kanchanapisek Road and Bhuttamonton Sai 3 Road, Bang Cheuk Nung at Bhuttamonton Sai 2 Road, Bang Wag at Bhuttamonton Sai 1 Road and Taweewatana 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 22 Nov 2011, high-low tide of the sea can be expected at 08.15 a.m. for the lowest at 1.56 m. and the highest at 02.25 p.m. at 2.14 m.

3. Warning / Advisory Messages

Department of Meteorological disseminated warning messages : During 22-24 Nov, the strong northeast monsoon prevails over the Gulf and the South of Thailand. Torrential and isolated heavy to very heavy rain is likely in the southern east coast from Surat Thani southward. People in the risky area in the foothill near waterway should beware of flash flood and flooding conditions. This areas are warned of Nakhon Si Thammarat, Phatthalung, Songkhla, Pattani, Yala, Narathiwat, Trang and Satun. The strong wind-waves in the Gulf of Thailand is expected 2-3 meters high. All ships should proceed with caution and small boats keep ashore during the period.

The high pressure area from China remains over Thailand. Cool to cold weather still continue over upper Thailand especially in the North and the upper Northeast.

24/7 Emergency Operation Center for Flooding, Storm and Landslide (Energy Complex)

TEL: 02 190 0155, 02 190 0151 **FAX:** 02 190 0153 **EMAIL:** dpm_eoc@yahoo.com

(24 hrs. line) **HOT LINE:** 1784 **EMAIL:** operation@nirapai.com **WEBSITE:** www.disaster.go.th