

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

Mae Klong Route - Wong Wien Yai – Mahachai of Samutsakorn Province Route

(1) Bang Bon station – Bang Po Station ; (2) Wong Wien Yai – Bang Bon; and (3) Mahachai Station

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 in the Morning and Afternoon) starts from Bangkok Bus Terminal (Chatuchak) – Sri Ratch Express Way – Don Mueang Toll Way – Exit at Phaholyothin Road at the Royal Thai Mint Factory – Bang Pa In Grade Separation – Asia Highway and takes regular roads.

Northern Routes (In-Out bound in the Evening and the Night Time) starts from Bangkok Bus Terminal (Chatuchak) – Sri Ratch Express Way – Dao Kanong Express Way – Rama II – Mahachai District – Ban Peaw District of Samutsakorn Province – Nakhon Pathom Province – Suphan Buri Province – Singburi Province – Asia Highway and Take Regular roads.

Southern Routes – Southern Bus Terminal has moved to Holland Beer Garden on Rama 2 road.

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, Uthaitхани, and Uttaradit Province. They assisted in retrofitting 4 flood embankments at the area of local road, Don Mueang Airport, and Paholyotin Road. They also ordered to safeguard and repair the embankments around

the clock. Canal excavation is also executed in many areas such as south of Rama 2 road (Rajamontree canal, and Sanamchai canal

Royal Thai Army: dispatched a cadre of manpower and heavy equipment for land, marine and air operation, together with specialist mobile unit for medical and mental health care to the affected areas. They also provided transportation for the public.

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 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.

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 (23 people), Territorial Defence Volunteers (48 people) to safeguard the area at all time. They also are able to produce additional 270 big sand bags and 80,000 small sand bags for flood fighting activities, provided 63,900 sand bags to many organizations/agencies.

The Department of Provincial Administration received 16,280 petitions from 17 provinces and 16,146 of which have already been solved since 9 October to 15 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, Prawes and Nong Jog Water Pump Station, Lower Hok Wa Canal, Underneath of Rang Sit Elevated Bridge and assisted FROC's activities.

1.4.3 Ministry of Natural Resources and Environment

Department of Water Resources (DWR) provided 2,228,594 Dasta Balls and 172,099 bottles of liquid EM to the public. They also pumped out 667,350 m³ of flood water. They can pump out altogether 9,637,727 m³ of flood water since 26 Oct. – 15 Nov. 2011. They installed water purification distributor at Thaweewattana District and National Stadium for the public.

Department of Forestry dispatched 607 officials and supported 3 boats and 11 trucks to assist victims in Taweewattana, Lad Lum Keaw, Chatuchak, Bang Khane, Don Muang, Lak Si, Sai Mai, Bang Sue, Bang Kok Noi, Bangkokpi, Bang Bua Thong and Paholyothin and Suvannabhumi Airport.

Department of Marine and Coastal Resources supported aircraft for the distribution of survival kits of Her Royal Highness Princess Soamsawali, together with Ministry of Public Health and The Medical Institute of Thailand.

Department of Groundwater Resources provided drinking water. Victims can bring their own containers for drinking water, the list of water drinking distribution sites can be obtained at Tel. 02299 3900 or www.dgr.go.th/flood.

1.4.4 **Ministry of Public Health** dispatched medical care mobile units to assist flood victims in BMA, including districts of Saimai, Bang Plad, Nongkham, Bangkae, Thaweewattana, Don Mueang, Saphansung, and Chatuchak.

1.4.5 **National Public Relations Department** disseminated daily warning messages, FROC operation, victim assistance, knowledge issues and live broadcast from flood affected areas via T.V., Radio Stations and www.prd.go.th.

2. SITUATION ASSESSMENT/FORECAST

2.1 **Thai Meteorological Department (TMD):** During 16-18 November, high pressure area covered upper Thailand will weaken. Increasing temperature over upper Thailand but still cool to cold weather and fog in the morning. For the Northeast monsoon winds covered the South and the Gulf of Thailand has weakened. Widely scattered to scattered thundershowers in the South and weakening the wind-wave. After that during 19-22 November, another high pressure area from China will extend its ridge to upper Thailand. The rain in the first phase, starting from the east before. And decrease in temperature 3-5 degree.

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 0.50 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), Suphanburi (Song Phi Nong District) and Nakhonpathom Province (Banglen, Samphran, 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 0.76 m. below river bank and of Rangsit Prayulsak at 1.03 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:** 120.00 m³/day
- **Capacity of water pumping:** Total amount is 40.87 m³/day, in which the eastern side of the river can pump water out at 29.58 m³/day and 11.29 m³/day of the western side of the river.
- **Capacity of water draining:** Total amount is 79.13 m³/day. The eastern side of the river can drain 15.18 m³/day and 79.13 m³/day at the western side of the river.

- **The capacity of Major Dams:**

- **Bhumibol Dam:** it reached 99.0 Percent of retention capacity. 21 million cubic meters received, 23 million cubic meters discharged. The additional retention is 105 million cubic meters.
- **Sirikit Dam:** it reached 99 Percent of retention capacity. 11 million cubic meters received, 13 million cubic meters discharged. The additional retention is 51 million cubic meters.
- **Kwae Noi Dam:** it reached 100 Percent of retention capacity. 0.98 million cubic meters received, 0.86 million cubic meters discharged.
- **Pasak Dam:** it reached 128 Percent of retention capacity. 2.38 million cubic meters received, 1.8 million cubic meters discharged.

2.3 **Bangkok Metropolitan Administrative (BMA)** On 16 November, the highest water level in Chao Phraya River at Pak Khlong Talad Station was 2.23 meters at 10.00 a.m.

- **Flood in Western part of BMA:** Water level of Mahasawas Canal is still high because water runoff from Salaya district of Nakhonpathom Province keeps running to BMA and inundating the Thonburi areas.
- **Flood in Eastern part of BMA:** The overflow in Donmuang and Chatuchak District is still high while the inundation at Bang Sue District remained stable. The removal of big sand bags will affect to BMA inner areas, it is necessary to monitor water level closely. In Sai Mai District and upper Lad Praw Canal (Soi Senanikom, Lad Praw Temple, Soi Lad Praw 56), water level decreased a little amount while Bang Sue Canal (Ratchapisek Road) decreased rapidly.

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 16 Nov 2011, high-low tide of the sea can be expected twice. The first round of low-high tide will be at 04.46 a.m. with the lowest at 1.31 m, and the highest at 12.04 a.m. at 2.25 m. The second round will be at 04.14 p.m. with the lowest at 1.97 m. and the highest at 07.45 p.m. at 2.02 m.