

Typhoon Trami Disaster Response Report – 2nd Report

Central Emergency Operation Center
Data as of 21.08.2013 11:00:00

I. Typhoon Summary (Source: Central Weather Bureau)

The Central Weather Bureau issued the sea warning for Typhoon Trami at 11:30 on August 20, 2013. The sea and land warning was subsequently issued at 20:30 on the same day. At 10:00 on August 21 the typhoon was located at 25.2 degrees north latitude and 123.8 degrees longitude, or out at sea 230km east of Taipei. Force 7 storm radius was 180 km, Force 10 storm radius was 50 km and the typhoon is continuing to move west at a rate of 25 km/h. The latest update indicated that the center of the typhoon is now out at sea east of Taipei and the storm circle is gradually landing in the north and eastern half of Taiwan so the wind and rain will gradually increase in strength. The typhoon is expected to continue moving west and will pose a threat to Yilan, Hualien, all regions north of Chiayi as well as Mazu and Kinmen. Yilan, Hualien, Taipei, Keelung, New Taipei, Taoyuan, Hsinchu, Miaoli, Taichung, Changhua, Yunlin, Chiayi and Nantou as well as Mazu and Kinmen should take extra precautions as well as prepare for strong winds and heavy rain. Shipping sailing or operating off Taiwan's north coast, northeast coast, southeast coast and in the northern part of the Taiwan Strait should take extra precautions. Due to the effects of the typhoon and its outer circulation, the mountains in Taiwan's western half and northeast experienced torrential or extremely torrential rains today (21); the mountains in the northeast, Hualien and Taitung as well as Penghu, Kinmen and Mazu also experienced extremely heavy rain or torrential rain; Hualien and Taitung may experience heavy rain or extremely heavy rain. Please watch out for landslides, falling rocks, debris flows and flash floods. Low-lying areas should take precautions against flooding. Long waves are very likely along Taiwan's northern and eastern coasts as well as in Lyudao, Lanyu and Hengchun Peninsula so please be careful near the coast. Spring tide is currently in effect so low-lying areas should take precautions against flooding and storm surges.

II. Disaster Profile

Rainfall (Source: Central Weather Bureau) ●

(Data from 8/20 0:00 to 8/21 09:00)

Area	Rainfall (mm)
Guanyin, Guanyin Township of Taoyuan County	272
Bali, Bali District of New Taipei City	247.5
Linkou, Linkou District of New Taipei City	246
Luzhu, Luzhu Township of Taoyuan County	245
Xinwu, Xinwu Township of Taoyuan County	237

III. Typhoon Response

A. City-county emergency operation centers established (Source: National Fire Agency, Ministry of the Interior)

Type	Number of EOCs established	Location
County/ City	16	Level 1: Taipei City, New Taipei City, Taichung City, Taoyuan County, Hsinchu County, Miaoli County, Nantou County, Changhua County, Yunlin County, Yilan County, Hualien County, Keelung City, Hsinchu City, Chiayi City Level 2: Chiayi County, Lienchiang County

853	4778	646	3580	204	1175	3	23	0	0	0	0	0	0	0
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(Note: Climbers out of contact refers to climbers that have not contacted rangers, family members or the police for more than 48 hours after entering the mountain areas. This table was compiled by the MOI National Police Agency and the MOI Construction and Planning Agency)

E. Accommodation of fishermen from Mainland China (Source: Council of Agriculture, Executive Yuan)

Time	Accommodated on boats	Accommodated on shore	Total
2013/08/21 07:14	1020	726	1746
2013/08/20 21:11	1020	726	1746
2013/08/20 17:44	755	191	946

F. Suspension of school of and work (Source: National Fire Agency, Ministry of the Interior)
 For August 21 (today), Taipei City, New Taipei City and Keelung City suspended all work and school. Yilan County: work as normal in the morning and suspended in the afternoon, school suspended for the whole day; Hsinchu County: work and school suspended for Wufeng Township and Jianshi Township only.

IV. Evacuation and Emergency Shelters

A. Number of people evacuated (Source: Department of Civil Affairs, Ministry of the Interior)

Municipalities	Estimated number of evacuees	Actual number of additional evacuees	Cumulative number of evacuees
New Taipei City	532	532	532
Total	532	532	532

B. Shelters

(1) Emergency shelters (Source: Ministry of Health and Welfare)

Up to 2 shelters were opened, housing a cumulative total of 72 people. There are currently 2 shelters in operation holding 72 people.

County/City	Township/City	Emergency Shelter		Setup	Closed	Current number of evacuees			Cumulative total of evacuees			Remaining food supplies		Hot food provided on a continuous basis via open contract or non-government organization	Remarks
		Subtotal	Name			Total	Male	Female	Total	Male	Female	Persons	Days		
New Taipei City	Xindian District	2	Dafeng Community Center	2013/08/20 22:00		8	4	4	8	4	4	0	0		
	Yingge District		Nanjing Vil. Activity Center	2013/08/20 21:00		64	37	27	64	37	27	0	0	No	0

(2) Civilians housed in military camps (Source: Ministry of National Defense)

Military camps were prepared to provide emergency shelter for 51478 civilians at 102 locations.

Table of Military Camps Prepared as Emergency Shelters				
Area	3rd Combat Zone (North)	5th Combat Zone (Central)	4th Combat Zone (South)	2nd Combat Zone (East)
Military Camp Shelters	35	35	24	8
Subtotal	102			
Capacity	16322 people	15653 people	15174 people	4329 people
Subtotal	51478 people			

V. Disaster statistics

A. Deaths and injuries (Source: National Fire Agency, Ministry of the Interior)

County/City	Deaths	Missing	Injured	Remarks
Taipei City	0	0	1	At 21:39 on August 20, a 33 year-old female (O-ting Su) was riding a motorcycle opposite the animal shelter at No. 773 Tanmei St. in Neihu when she hit a pothole. The woman suffered contusions in the crash and was taken to the Neihu Tri-Service General Hospital. She was later released at 00:05 on August 21, 2013.
Total	0	0	1	-

Remarks:

- The media reported that a 70 year-old woman in Hsinchu County is missing after being allegedly washed away while riding a motorcycle across a bridge. Nurse Chen at the Hsinchu County Fire Department Command Center provided the following response: The caller reported that the woman (Chang-Peng O-mei, approximately 70-years old, suspected to be a handicapped person) had fallen into the Dongyang Fish Pond at Zhonglun Village in Xinfeng Township. The Department immediately dispatched 11 personnel and 6 vehicles to the scene at 7:46 on August 20 and conducted a search along Degui River. The victim was at 12:02 and was handed over to the police and family for identification at 14:50. The Hsinchu County Fire Department explained that the typhoon warning had not yet been issued and the emergency operations center had not been established at the time so it was not listed under Typhoon Trami casualties.
- The media reported that a motorcyclist in New Taipei City (O-sheng, Shi, approximately 60-years old) was crossing the river levee at around 10 AM on August 20 when he crashed into the metal barrier gates. The crash may have been due to the rider not noticing that the gates were closed in the heavy rain. The rider suffered intra-cranial bleeding and was declared dead at the hospital. The New Taipei City Fire Department explained that the typhoon warning had not yet been issued and the emergency operations center had not been established at the time so it was not listed under Typhoon Trami casualties.

B. Transportation

(1) Transportation damage and repairs (Source: Ministry of Transportation and Communications)

Item	Disaster affected sites (sites)	Repaired (sites)	Not repaired (sites)	Remarks
National Highway	0	0	0	
Provincial Highway	2	0	2	1. Provincial Highway 7 032K+600 cut by roadside landslide. All traffic has been blocked by the landslide and can't be cleared at the moment as debris has continued to fall. Traffic safety measures have been put into place and the road closed. 2. Provincial Highway 7 049K+900 ~ 049K +950 cut by roadside landslide. All traffic has been blocked by the landslide and debris has continued to fall. Traffic safety measures have been put into place and the road closed.
(Self) Adopted County Roads	0	0	0	
Township Road	0	0	0	
Main road access for indigenous area	0	0	0	
Agricultural road	0	0	0	
City road	0	0	0	
Total	2	0	2	

(Note: Summary of road damage provided in separate attachment)

(Note: This table was compiled by the Ministry of Transportation Communications based on statistics provided by the EY Council of Indigenous Peoples, EY Council of Agriculture and MOI Construction and Planning Agency)

(2) Suspension of railway services (Source: Ministry of Transportation and Communications)

No.	Date and Time	Line	Service	Reason	Remarks	Reported Time
1	08/21 10:06	All line	Train services before 18:00	Due to effects of Typhoon Trami	<p>Train services before 18:00 on August 21 (Wed):</p> <p>(1) All express trains on Western Line, Huadong Line and Southern Loop Line running as normal on August 21.</p> <p>(2) Express trains on Yilan Line and Northern Line suspended from 13:00:</p> <p>Southbound: For the Taipei-Hualien section, all services after Limited Express 288 (Shulin-Hualien-New Zuoying, departing from Taipei at 13:20 and arriving in Hualien at 16:15) suspended.</p> <p>Northbound: For the Hualien-Taipei section, all services after Limited Express 175 (Hualien-Taipei-Kaohsiung, departing from Hualien at 13:03 and arriving in Taipei at 16:00) suspended.</p> <p>(3) Local train services on Pingxi Line suspended from 13:00:</p> <p>All services after Local Train services 4722 (Badu-Jingtong, departing from Badu at 12:30 and arriving in Jingtong at 12:30) and 4723 (Jingtong-Badu, departing from Jingtong at 12:40 and arriving in Badu at 13:41) suspended.</p> <p>(4) Alishan Forest Railway service suspended from 13:00 due to closure of Alishan Forest Recreation Area.</p> <p>(5) Local services on all main lines and branch lines (excluding Pingxi Line) running as normal. Services may be suspended depending on the wind and rain.</p>	08/21 10:12
2	08/21 05:57	Taipei—Yilan—Hualien	Cruise train services 5832	Due to effects of Typhoon Trami	1. TRA has cancelled "Lanyang" cruise train	08/21 07:06

			and 5834		<p>service 5832 and "Hualien" cruise train service 5834. All other train services on all lines and the Alishan Forest Railway is expected to operate as normal before 12 noon on August 21 (Wed).</p> <p>2. Passengers that booked services 5832 and 5834 mentioned above may apply for a refund at all TRA stations before September 4, 2013. The refund processing fee will be waived.</p> <p>Information on train services after 12 noon on August 21 will be announced at 09:00 on August 21.</p>	
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(3) Transportation: Flight delays and cancellations (Source: Ministry of Transportation and Communications)

A total of 104 international flights and 39 domestic flights were cancelled due to the effects of Typhoon Trami.

(4) Regional flooding (Source: Ministry of Economic Affairs)

County/City	Location	Start of flooding	End of flooding	Water depth (m)	Surface area (m ²)	No. of households flooded	Remarks
Taipei City	Sanjiao Du, Tonghe E. St., Shilin District	08/21 00:03		0.45		0	<p>The riverside car park was flooded to a depth of 45 cm. Approximately 50 cars and 20 motorcycles were counted at the scene.</p> <p>The Traffic Police Corps dispatched 6 car tow trucks and 1 motorcycle tow truck to the scene at 00:44 on August 21. Traffic Police dispatcher reported that all cars and motorcycles have been relocated as of 03:50.</p>
Taipei City	Sec. 2 Tonghe W. St., Shilin District	08/20 23:37	08/21 00:28	0		0	
Taipei City	Heping W. Rd. under Huajiang Bridge, Wanhua District	08/21 05:41		0.5	1	0	Water has built up to half a car tire in height on Heping W. Rd. under Huajiang Bridge.
Taoyuan County	No. 570 Sec. 2 Xinsheng Rd. Zhongli District	08/20 21:29	08/20 21:55	0.3		0	<p>Flooded to a depth of 30cm, reducing the road width to two lanes.</p> <p>Local police station have been dispatched to</p>

							secure the scene and provide traffic control. Flooding reported to have receded and traffic returned to normal at 21:55 on August 20.
Total	-	-	-	-	-	0	-

VI. Support for City-County Emergency Operations

A. Emergency rescue manpower, equipment and operations (Source: Ministry of National Defense, MOI National Fire Agency, MOI National Airborne Service Corps, MOI National Police Agency, Coast Guard Administration)

Personnel, Equipment and Operations	Armed Forces	Firefighter (including Volunteer Firefighters)	Air Crew	Police (incl. Volunteer Police and Civil Defense)	Coast Guard	Total
Personnel Dispatched (persons)	140	489	0	0	0	629
Helicopter (sorties)	0	0	0	0	0	0
Aerial Surveillance (sorties)	0	0	0	0	0	0
Vehicles (missions)	6	1907	0	0	0	1913
Vessels (incl. rubber boats) (vessels)	0	0	0	0	0	0
Machinery (pcs)	0	0	0	0	0	0
People Rescued (persons)	0	0	0	0	0	0
Transported Supplies (Tonnes)	0	0	0	0	0	0
Transported Rations (pcs)	0	0	0	0	0	0
Debris & Rubbish Removal (Tonnes)	0	0	0	0	0	0
Disinfected Area (sq. m.)	0	0	0	0	0	0

Remarks: Table data represents cumulative total

B. Emergency response readiness (Source: Ministry of National Defense)

The first emergency response force of 3200 people can be deployed with 10 minutes' notice.

The second emergency response force of 4800 people can be deployed with 3 hours' notice.

Table of Pre-Deployed Military Emergency Response Forces on Taiwan				
Area	3rd Combat Zone (North)	5th Combat Zone (Central)	4th Combat Zone (South)	2nd Combat Zone (East)
1st Emergency Response Force	800 people	800 people	800 people	800 people
Location				
Subtotal	3200 people			
2nd Emergency Response Force	1200 people	1200 people	1200 people	1200 people
Location				
Subtotal	4800 people			

C. Military personnel pre-deployed in high risk areas (Source: Ministry of National Defense)

The military has pre-deployed a total of 1989 servicemen and 243 vehicles in 32 types in high-risk areas.

Table of Pre-Deployed Military Emergency Response Forces on Taiwan					
Area	3rd Combat Zone (North)	5th Combat Zone (Central)	4th Combat Zone (South)	2nd Combat Zone (East)	Total

Location	Yilan, Taoyuan	Chiayi Airport AAV7 x 2	23 locations including Linbian, Pingtung	16 locations including Xiulin Township	
Pre-deployed Personnel	912 people	6 people	690 people	381 people	1989 people
Pre-deployed vehicles	10 types, 97 vehicles	1 types, 2 vehicles	12 types, 96 vehicles	9 types, 48 vehicles	32 types, 243 vehicles