

# Typhoon Kong-Rey Disaster Response Report – 3rd Report

Central Emergency Operation Center  
Data as of 29.08.2013 13:30

## I. Typhoon Summary (Source: Central Weather Bureau)

The Central Weather Bureau issued the sea warning for mild Typhoon Kong-Rey at 11:30 on August 27, 2013, followed by the sea and land warning at 11:30 on August 28. At 12:00 August 29 the center of the typhoon was located at 25.7 degrees north latitude and 122.2 degrees east longitude, putting it out at sea 100 km northeast-north of Taipei. The Force 7 storm radius is 120 km and the typhoon is moving north then north-east at a rate of 25 km/h with 18 rotations per hour. The latest weather data showed that Typhoon Kong-Rey has weakened slightly over the past 3 hours. The storm circle now covers Yilan and parts of Taiwan north of Hsinchu. There is significant rainfall south of central Taiwan and heavy rainfall is continuing. The rainfall area is also gradually expanding towards northern Taiwan. Yilan, New Taipei, Taipei, Keelung, Taoyuan and Hsinchu should therefore take extra precautions. Shipping sailing or operating off Taiwan's north and northeast coast should also take extra precautions. Long waves have been detected along Taiwan's southwest coast, the Hengchun Peninsula, the east coast as well as Lyudao and Lanyu so please stay away from the coast; Taiwan's coastal regions will also experience strong wind gusts. Strong winds and high waves remain along Taiwan's southeast coast (including Lanyu and Lyudao) and in the Bass Strait, so please stay alert. Due to the effects of the typhoon and its outer circulation, southern and central Taiwan can expect torrential rain and extremely torrential rain today (8/29). Northern Taiwan as well as the mountain areas of Yilan will experience extremely heavy rain or torrential rain; Yilan, Taitung and the mountains of Hualien will experience heavy rain or extremely heavy rain, while Hualien and Penghu have a chance of experiencing heavy rain. Please watch out for landslides, falling rocks, debris flows and flash foods. Low-lying areas should take precautions against flooding.

## II. Disaster Profile

### Rainfall (Source: Central Weather Bureau)

(Data from 8/29 00:00 to 8/29 13:00)

Area	Rainfall (mm)
Dahanshan, Chunri Township, Pingtung County	609
Shanshang, Shanshang District, Tainan City	461
Zuozhen, Zuozhen District, Tainan City	434
Liuqiu Islet, Liuqiu Township, Pingtung County	434
Huanhu, Da'nei District, Tainan City	432

## 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	17	Level 1: Taipei City, New Taipei City, Taichung City, Tainan City, Kaohsiung City, Keelung City, Taoyuan County, Hsinchu City, Chiayi City, Chiayi County, Nantou County, Yunlin County, Yilan County, Hualien County, Pingtung County Level 2: Hsinchu County, Miaoli County

### B. Danger areas declared (Source: National Fire Agency, Ministry of the Interior)

County/City	Number of danger areas					Enforcement	
	Low-lying area	Mountain	Coast	River	Other	Warnings issued	Penalty notices issued
New Taipei City	0	1	14	11	12	0	0
Taichung City	0	5	6	17	0	0	0
Taoyuan County	0	1	5	0	0	0	0
Yilan County	0	143	5	35	13	0	0
Chiayi County	0	6	0	27	0	0	0
Pingtung County	0	8	1	15	0	0	0
Hualien County	0	25	18	69	166	0	0
Taitung County	16	16	78	165	0	0	0
Total	16	205	127	339	191	0	0

### C. Distribution of debris flow danger areas (Source: Soil and Water Conservation Bureau, Council of Agriculture)

County/City	Debris Flow Danger Areas							Remarks
	Yellow Alert			Red Alert			Total	
	Potential debris flow rivers	Township	Village	Potential debris flow rivers	Township	Village	Potential debris flow rivers	
Taichung City	61	2	16	0	0	0	61	
Tainan City	9	2	3	38	6	12	47	
Kaohsiung City	7	3	4	77	6	28	84	
Nantou County	139	7	44	45	6	19	184	
Yunlin County	0	0	0	12	1	4	12	
Chiayi County	1	1	1	79	6	35	80	
Pingtung County	33	5	18	13	3	8	46	
Total	250	20	86	264	28	106	514	-

Note:

Response to alert:

1. Yellow Alert (predicted rainfall higher than debris flow warning threshold): Local governments should advise residents to evacuate.
2. Red Alert (actual rainfall has reached debris flow warning threshold): Local government may issue mandatory evacuation orders based on local rainfall and actual conditions.

### D. Mountain climber contact (Source: National Police Agency, Ministry of the Interior)

Table created: 29/08/2013

Mountain Climbing Applications		Persuaded to not enter mountain areas		Climbers contacted								Climbers out of contact	
				Already left the mountains		Safe accommodation in the mountains		Shelter in place		Leaving the mountains			
Case	Persons	Case	Persons	Case	Persons	Case	Persons	Case	Persons	Case	Persons	Case	Persons
921	4891	574	2941	344	1884	3	66	0	0	0	0	0	0

(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
2013/08/29 06:20	1173	563	1736

#### F. Suspension of school and work (Source: Directorate-General of Personnel Administration, Executive Yuan)

On August 29, Tainan City, Kaohsiung City and Pingtung County suspended school in the afternoon; Chunri Township, Shizi Township and Mudan Township suspended work and school in the afternoon; Chiayi County, Chiayi City, Yunlin County, Yilan County, Hualien County and Taitung County's Lanyu Township suspended all work and school; Lyudao Township suspended work and school in the afternoon. All work and school continued as normal in other counties and cities.

### 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
Yilan County	116	84	84
Hualien County	15	1	1
Tainan City	54	49	49
Kaohsiung City	39	39	39
Total	224	173	173

#### B. Shelters

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

Up to 6 shelters were opened, housing a cumulative total of 67 people. There are currently 6 shelters in operation holding 67 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		
Tainan City	Nanhua District	2	Nanhua District office	2013/08/29 08:03		1	1	0	1	1	0	0	0	NO	
	Guanmiao District		Guanmiao District Office	2013/08/29 08:04		6	2	4	6	2	4	0	0	NO	0
Kaohsiung City	Yanchao District	1	Gangshan Veterans' Home	2013/08/28 21:32		26	10	16	26	10	16	0	0	NO	
Yilan County	Nan'ao Township	2	Ao'hua Elementary School	2013/08/28 22:15		7	7	0	7	7	0	0	0		
	Nan'ao Township		Nan-ao Town Office 2F	2013/08/28 22:15		26	12	14	26	12	14	0	0		0

Hualien County	Zhuoxi Township	1	Zhuole Activity Center	2013/08/28 22:14		1	0	1	1	0	1	0	0		
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- (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)

#### 1 Injured

At 6:29 AM on August 29, a motorcyclist (Shi O-jin) was injured after a crash at No. 146-48 Jiamin Village, Houpi District, and taken to the Chimei Hospital at Liuying for treatment.

### 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	8	0	8	<ol style="list-style-type: none"> <li>1. Provincial Highway 9's Su'ao - Chongde section (104K + 700 ~ 179K+100): Road closed to new traffic from 6PM, 8/28 (only outgoing traffic permitted). Preventive road closure will be implemented along the whole route at 9PM.</li> <li>2. Provincial Highway 20's Gaozhong section (84K + 100) in Taoyuan District, Kaohsiung City: Preventive closure implemented at 6:30PM, 8/28.</li> <li>3. Provincial Highway 18's Alishan section (35K+000 ~ 88K+000): Preventive closure from 6AM, 8/29.</li> <li>4. Provincial Highway 20's Fuxing Temporary Bridge on Qinhe Rd. in Taoyuan District, Kaohsiung City (102K+361): Preventive closure from 7AM, 8/29.</li> <li>5. Provincial Highway 20's Talala-Lufu Temporary Bridge on Gaozhong Rd. in Taoyuan District, Kaohsiung City (86K+374): Preventive closure from 8AM, 8/29.</li> <li>6. Provincial Highway 24's Yila River Temporary Bridge on Yila Rd. in Pingtung County (32K+890): Preventive closure from 8AM, 8/29.</li> <li>7. Provincial Highway 1's Dalin-Minxiong Rd. section, Chiayi (253K+000 ~ 262K+000): Road cut by flooding, traffic controls in effect.</li> <li>8. Provincial Highway 82 between Chiayi's Shuishang</li> </ol>

				Interchange and Chiayi Interchange (025K+900 ~ 032K+500): Road flooded, traffic controls in effect.
(Self) Adopted County Roads	5	0	5	1. County Road 169's No.3 Daban Bridge in Daban Village (27K+600): Preventive closure from 6AM, 8/29. 2. County Road 169's Daban Village (34K+100 ~ +600): Preventive closure from 6AM, 8/29. 3. County Road 149A between Quanzishe Bridge and Jiucenglong Bridge (43K+500 ~ 51K+400): Preventive closure from 6AM, 8/29. 4. County Road 159A's Guanghua Village (40K+500 ~ 41K +300): Preventive closure from 6AM, 8/29. 5. County Road 174 in Liujia District, Tainan City (048K+300 ~ 048K+350): Road cut by debris flow; closed to all vehicle and pedestrian traffic.
Township Road	1	0	1	1. Township Road Yilan 51 in Datong Township (12K+000 ~ 16K+500): Preventive closure at 8AM, 8/28.
Main road access for indigenous area	0	0	0	
Agricultural road	0	0	0	
City road	0	0	0	
Total	14	0	14	

(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	08/29 11:30	Branch Line (Jiji Line)	All services suspended	Track cut		08/29 12:11
2	08/29 11:30	Zhunan-Changhua (Coast Line)	Express trains rerouted through Mountain Line	Track cut		08/29 12:12
3	08/29 09:00	Western Line	Express trains between Changhua-Kaohsiung	Obstruction in both directions between Linnei-Linfengying		08/29 10:17
4	08/29 06:00	Alishan Forest Railway	All services suspended	Alishan Forest Recreation Area closed due to typhoon		08/29 10:21

(3) Flight cancellations (Source: Ministry of Transportation and Communications)

**A total 36 flights were cancelled or delayed due to Typhoon Kong-Rey. (See attachment 1 for details)**

**(4) Regional flooding (Source: Ministry of Economic Affairs) (See attachment 2 for details)**

**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)	Police (incl. Volunteer Police and Civil Defense)	Air Crew	Coast Guard	Total
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Personnel Dispatched (persons)	2145	1324	4579	0	40	8488
Vehicles (missions)	148		2501	0	11	2660
Vessels (incl. rubber boats) (vessels)	0	14	0	0	3	17

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			