

# 4<sup>th</sup> Disaster Response Report of Typhoon Nesat and Typhoon Haitang

Report Unit: Central Disaster Emergency Operation Center

Data Statistics Deadline: 07/30/2017 20:00

## I. Typhoon Status (Data source: Central Weather Bureau, Ministry of Transportation and Communications)

The sea and land warnings of Typhoon Haitang were in effect on July 29<sup>th</sup>, 2017 at 17:30. The eye of the storm at 19:00 today (30<sup>th</sup>) was at 22.6 Lat (N), 120.7 Lon (E), the 80 kilometers north-north-west sea of Eluanbi; the radius with 7 wind level was 100 km, heading to north-north-east, turning to north-north-west at the speed of 17 to 12 kilometers per hour. The maximum sustained wind near the center was 20 meter per sec. (approx. 72 km/h.), which equaled to level 8 wind. The transient wind was 28 meter per sec. (approx. 101 km/h.), which equaled to level 10 wind. According to the latest weather information, No 10 typhoon of the season has launched the land near Fengkung in Pingtung County around today (30<sup>th</sup>) at 16:40. At present, the center is at northeast land of Eluanbi, heading to north-north-east, turning to north-north-west, and the storm cycle has entered south and southeast land of Taiwan and threatens to Nantou, south area of Chiayi and Hualien and Taitung areas. The estimation position tomorrow (31<sup>th</sup>) 17:00 is at 25.1 Lat (N), 120.7 Lon (E), about the 80 kilometers at west sea of Taipei. As estimated, the strength of this typhoon has the tendency to decrease and become tropical low pressure.

Hualien, Taitung, Nantou, Chiayi, Tainan, Kaohsiung, and Pingtung should take extra caution and prevent for strong winds and heavy rains. Sails and fishing boats at seas of Bashi Channel should be alert. From this afternoon (30<sup>th</sup>) to tomorrow (31<sup>th</sup>), Pingtung area and Kaohsiung mountain area will have local heavy or super heavy rain; Chiayi, Tainan, Kaohsiung and Yunlin, Nantou and Taitung mountain areas will have local heavy rain or torrential rain; Miaoli, Taichung, Changhua, Yunlin, Nantou, Yilan, Hualien, Taitung, Penghu, Kinmen areas will have the possibilities of local strong rain and heavy rain. Please pay attention to landslide, falling rocks, mudslides and flash floods. For low-lying coastal area, please be alert for flooding. People shall avoid entering mountain areas and river activities. Besides, for the effect of typhoon the its peripheral circulation, all places in Taiwan (including Lanyu, Green Island), coasts at Penghu, Kinmen and Matsu will experience strong winds with strong gusts and the possibility of long wave occurrence. The activities on or nearby the sea should be avoided. For the effect of typhoon and its peripheral circulation, the coasts at all places in Taiwan (including Lanyu and Green Island), Penghu, Kinmen and Matsu have strong wind and waves along with strong gusts and the occurrence of long waves. The activities on or nearby the sea should be avoided. Eastnorth and north areas of Taiwan sill have the probabilities of level 8-9 strong gusts.

## II. Basic information of disaster (Data source: Central Weather Bureau, Ministry of Transportation and Communications)

### 1. Rainfall (Statistics from July 28<sup>th</sup>, 2017 at 08:00 to July 30<sup>th</sup>, 2017 at 19:40) (Unit: mm)

Regions	Rainfall ( mm )
Dahan Mt. Top, Chunzi Township, Pingtung County	693.0
Chiachung, Chiatung Township, Pingtung County	689.5
Lili, Chunzi Township, Pingtung County	659.0
Nanho, Laiyi Township, Pingtung County	637.0
Chijia, Chunzi Township, Pingtung County	623.5
Shiwen, Chunzi Township, Pingtung County	615.0

### 2. Wind Speed Maximum transient wind occurred at each region (Statistics on July 30<sup>th</sup> 2017 at 19:45)

Regions	Transient wind (level)
Lanyu	12
Penjiayu	10
Yushan	10
Anbu	9
Kaohsiung	9
Cherngkung	9

## III. Response

### 1. The established situation of Disaster Respond Centers in countries (Data source: National Fire Agency, Ministry of the Interior)

Category	Established	Names of country(ies) or county(ies)
Country and County	15	Level 1 : Taipei City, Tainan City, Kaohsiung City, Nantou City, Changhua County, Yunlin County, Chiayi County, Pingtung County, Yilan County, Hualien County, Taitung County Level 2 : Keelung City, Taoyuan City, Taichung City, Chiayi City
Harbor	4	Level 1 : Keelung Port, Taichung Port, Hualien Port, Kaohsiung Port
Total	19	

### 2. Designation of warning areas (Data source: National Fire Agency, MOI)

Country and County	Designation						Executed Situation	
	Low-lying areas	Mountain areas	Shores	River basins	Building	Others	Issued warning ticket	Issued fine ticket
Keelung City	0	0	0	0	0	0	0	0

New Taipei City	0	1	14	1	0	0	0	0
TaipeiCity	0	0	0	0	0	0	0	0
Taoyuan City	0	0	1	0	0	0	0	0
Hsinchu County	2	6	5	73	0	0	0	0
Hsinchu City	0	0	8	0	0	0	0	0
Miaoli County	0	0	0	0	0	0	0	0
Taichung City	0	5	6	19	0	0	0	0
Changhua County	0	0	0	0	0	0	0	0
Nantou County	0	289	0	73	0	249	0	0
Yunlin County	0	0	5	12	0	0	0	0
Chiayi County	0	6	3	27	0	0	0	0
Chiayi City	0	0	0	0	0	0	0	0
Tainan City	0	17	14	0	0	0	0	0
Kaohsiung City	0	4	15	11	1	0	71	0
Pingtung County	0	8	1	15	0	0	0	0
Yilan County	0	143	5	59	0	12	0	0
Hualien County	0	0	0	0	0	0	0	0
Taitung County	20	16	27	166	0	0	39	0
Penghu County	0	0	0	0	0	0	0	0
Kinmen County	0	2	6	0	0	0	0	0
Total	22	497	110	456	1	261	110	0

**3. Mudslide danger area distribution situation (Data source: Soil and Water Conservation Bureau, Council of Agriculture, Executive Yuan)**  
(statistics: on July 30, 2017 19:30)

- (1) Red warning mudslide potential river: 15 rivers, located at 2 counties/cities, 3 townships, 10 villages
- (2) Yellow warning mudslide potential river: 643 rivers, located at 12 counties/cities, 41 townships, 219 villages

**4. Mountain climber contact (Data Source: National Police Agency, Ministry of the Interior)** Date Table made: July 30, 2017 at 08:00

Applied For Entering Mountain Area		Persuaded not to Enter Mountain Areas		People who have entered mountains and contact made with (367 cases 2,252 persons)								Entered mountain area but no contact made with as yet	
				Already left mountains		In safe accommodation in mountain area		Taking shelter on the spot		Currently leaving mountain area			
case	person	case	person	case	person	case	person	case	person	case	person	case	person
1,361	7,983	994	5,731	365	2,132	2	120	0	0	0	0	0	0

(Note: “Haven’t responded” referred to the hikers in the mountain haven’t connected with personnel, family or police for over 48 hours. The form is filed and reported by National Police Agency and Construction and Planning Agency.)

**5. Work and class suspension (Data source: Water Resources Agency, Ministry of Economic Affairs) :** On today (30<sup>th</sup>), suspended class and work at all Taiwan

- (1) Today (30<sup>th</sup>): suspended class and work at all Taiwan
- (2) Tomorrow (31<sup>th</sup>): Pingden Elementary School at Heping Dist., Taichung City, Kindergarten Pingden Class at Heping Dist., Taichung City, Lishan Elementary School at Heping Dist., Taichung City: suspended class and work.

**6. Ensconced foreign fishermen (including fishermen from Mainland China)**

Persons already settled ashore	Persons already settled on board	Persons took Sheltered	Total
907 (incl. China crew 223 persons, foreign crew 684 persons)	7,078 (incl. China crew 1,024 persons, foreign crew 6,054 persons)	98 (incl. China crew 98 persons, foreign crew 0 persons)	8,083

**IV.Capacity and Evacuation Situations**

**1. Evacuation (Data source: Interior ministry civil affairs department)**

Accumulated evacuation for 14 cities and counties, total 12,703 persons

No	Municipal Cities/Countries	Townships, Cities (Districts)	Villages, Tribes	Evacuated Persons
1	New Taipei City	7	32	1,457
2	Taoyuan City	1	10	457
3	Taichung City	1	1	3
4	Tainan City	8	18	341
5	Kaohsiung City	9	37	5,103
6	Hsinchu County	2	2	247
7	Miaoli County	1	1	10
8	Nantou County	3	3	156
9	Yunlin County	1	3	80
10	Chiayi County	7	21	209
11	Pingtung County	9	24	639
12	Yilan County	5	14	891
13	Hualien County	13	60	2,824
14	Taitung County	5	13	286
Total		72	239	12,703

## 2. Refuge shelter (Data source: Ministry of Health and Welfare)

At present, 47 sites at 12 counties/cities established and accommodated 1,332 persons right now.

No.	Municipal Cities/Countries	Townships, Cities (Districts)	Shelter	Sheltered Person Right Now
1	Taitung County	3	6	148
2	Kaohsiung City	7	14	497
3	Chiayi County	3	3	3
4	Yilan County	2	2	86
5	Hualien County	2	2	63
6	New Taipei City	0	0	0
7	Nantou County	1	2	103
8	Pingtung County	7	8	233
9	Taoyuan City	0	0	0
10	Yunlin County	1	1	27
11	Hsinchu County	2	8	170
12	Tainan City	1	1	2
Total		29	47	1,332

## V. Disaster statistics

### 1. Death and injury ((Data source: National Fire Agency, MOI)

County/City	Dead (person)	Missing (person)	Injury (person)	Remark
Yilan County	0	0	41	One person in Wujiei Township was hit and sent to hospital. One person in Yilan

				City was blown by wind, injured and sent to hospital. At 33.4K section northward at National Highway No. 5 at Toucherng Township, a truck overturned; one injured and sent to hospital. The detailed information for the rest 38 persons are under checking.
Taipei City	0	0	47	20 persons fell down by strong wind and injured; 8 persons cut by glass; 3 persons pinched by doors; 10 persons hit by falling objects, iron sheet and trees; 1 person hit by iron bar; 4 motorcycle drivers fell and injured; 1 hurt by electric shock.
New Taipei City	0	0	3	2 persons hit by falling trees; 1 person crushed by light rail fence.
Taoyuan City	0	0	10	One person cut and injured; one person pinched by door; one fell from the roof, seriously injured; traffic accidents with 7 motorcycle drivers fell down, wound by electric wire.
Taichung City	0	0	9	2 persons fell and injured; 3 persons with traffic accident; 4 persons injured by falling objects.
Hsinchu County	0	0	1	One motorcycle driver was wound and hurt by electric wire.
Total	0	0	111	

**2. Lifelines Damage** (Data Source: Ministry of Economic Affairs, National Communication Commission)

Unit	Item	Number Affected	Has been repaired (household, location)	Waiting to be repaired (household, location)	Remark
Ministry of Economic Affairs	Tap Water	20	20	0	None
	Electricity	602,539	556,054	46,485	Except for New Taipei City and Yilan area, for normal users, estimated to be repaired before July 30, 2017 at 23:00; but still depends on weather condition. At present the repair staffs at all areas are handling actively.
	Gas	0	0	0	none

NCC	Telephone (Local Telephone)	2,301	2,301	0	none
	Telephone (Base Station)	2,708	2,104	604	Estimated to be repaired before August 1, 2017 at 10:14.

### 3. Transport Situation (Data Source: Ministry of Transportation and Communications)

- (1) National Highway: National Highway No. 3 Linbien interchange (430K) southward exit gate closure.
- (2) High Speed Rail: all line at normal operation
- (3) Provincial Highway: preventive closure at 8 sites, disaster closure at 2 sites.
- (4) TRA: Each level of the whole line will be at normal operation before July 30, 2017 at 24:00.  
Pingtung Line, South-link Line and Hualien-Taitung Line will be adjusted according to wind and rain condition.  
Alishan Forest Railway suspended on 30<sup>th</sup> and 31<sup>th</sup>.
- (5) Air Flight: cancelled 267 flights for national lines; 0 flight delayed. Canceled 138 international flights, 101 international flights delayed.
- (6) Sea Transportation: On 30<sup>th</sup>, 60 shifts suspended; on 31<sup>th</sup>, 76 shifts suspended.

### 4. Flood Disaster (Data source: Ministry of Economic Affairs)

39 drowned sites; 38 sites water retreated, 1 site under handling

## VI. City and County Emergency Operations Support situation Disaster relief personnel, equipment and mission implementation situation (Data source: Ministry of National Defence, National Fire Agency MOI, National Airborne Service Corps MOI, National Police Agency MOI, Coastguard Administration)

Personnel, equipment, mission	military	National Fire Agency, Police, Flight crew (incl. volunteers and civil defense)	Coastguard personnel	Total
Mobilized personnel (times)	8,926	22,959	5,360	37,245
Helicopter (flights)	0	0	0	0
Various vehicle (times)	729	777	1,237	2,743
Ships/boats(incl. inflatable boats)	46	29	35	110
Various types of equipment	34	0	0	34

Note: the table's data is the accumulated numbers.