

# Typhoon Usagi Disaster Response Report – 3rd Report

Central Emergency Operation Center  
Data as of 21.09.2013 09:40:00

## I. Rainfall (Source: Central Weather Bureau)

The Central Weather Bureau issued the sea warning for Severe typhoon Usagi at 23:30 on September 19 2013, followed by the sea and land warning at 20:30 on September 20. At 09:00 on September 21, the typhoon was located at 20.7 degree north latitude and 121.6 east longitude. This placed the typhoon out at sea 150 km south by southeast of Cape Eluanbi. the Category 4 storm has a storm radius of 280km and Category 5 storm has a storm radius of 120km. The typhoon is moving at 19 km/h in the west-northwest direction. The latest update indicated that the typhoon center is out at the sea south-southeast of Cape Eluanbi and continuing to move in the west-northwest direction. The storm circle has entered Hengchun Peninsula, as well as the eastern, southeastern, and southern parts of Taiwan, and will pose a threat to Hualien, Taitung, Hengchun Peninsula, Nantou, areas south of Taichung, Penghu, and Kinmen. Rain will continue to strengthen in all parts of Taiwan. Lanyu, Lyudao, Taitung, Hengchun Peninsula, Pingtung, Hualien, Kaohsiung, Tainan, Nantou, Chiayi, Yunlin, Changhua, Taichung, Penghu, and Kinmen should stay vigilant and take precautions against strong winds and heavy rains. Shipping sailing or operating of Bashi Channel, Taiwan's southeast coast, northeast coast, Taiwan Strait, and Dongsha Island should also take extra precautions. Taitung, Hualien, Yilan, Hengchun Peninsula, and the mountains in Pingtung, Kaohsiung, and Nantou have a chance of experiencing localized torrential rains or extremely torrential rains between today (9/21) and tomorrow morning (9/22). Localized extremely heavy rains and torrential rains are expected in southern Taiwan and the mountains north of Taichung. Heavy rains and extremely heavy rains are expected in northern Taiwan. Central Taiwan and Penghu has a chance of experiencing heavy rains. Please watch out for landslides, falling rocks, debris flows or flash floods. Low-lying regions should take precautions against flooding. Wind and wave activity has strengthened significantly along the coast of Taiwan, so please keep away from the coast. Due to the outer circulation of the typhoon and terrains, the Greater Taipei area has a chance of experiencing gusts above Force 10 so please be careful. Spring tide is currently in effect so low-lying areas should take precautions against flooding and storm surges.

## II. Disaster Profile

### A. Rainfall (Source: Central Weather Bureau)

(Data from 9/19 0:00 to 9/21 09:00)

Area	Rainfall (mm)
Gulu, Datong Township, Yilan County	343.5
Chiduan, Datong Township, Yilan County	247
Taiping shan, Datong Township of Yilan County	222.5
Xiqiusi Mountain, Jianshi Township of Hsinchu County	213
Long Jian, Xiulin Township of Hualien County	210
Galahe, Fuxing Township of Taoyuan County	208
Hongye, Wanrong Township of Hualien County	192
Jiuzhuang, Nangang District of Taipei City	183.5
Wenshan, Wenshan District of Taipei City	183
Yuli, Yuli Township of Hualien County	177

### B. Wind Speed (Source: Central Weather Bureau)

Area	Instantaneous maximum gust speed (Wind category)
Lanyu, Lanyu Township, Taitung County	17

### 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	15	Level 1: Taichung City, Changhua County, Nantou County, Yunlin County, Chiayi City, Chiayi County, Tainan City, Kaohsiung City, Pingtung County, Hualien County, Taitung County, Penghu County Level 2: New Taipei City, Yilan County, Hsinchu City
Port	3	Level 1: Taichung Port, Kaohsiung Port, Hualien Port

#### 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	0	3	1	8	0	0
Taichung City	0	5	5	19	0	0	0
Tainan City	0	0	6	0	27	0	0
Kaohsiung City	0	7	11	13	0	0	0
Nantou County	0	289	0	73	234	0	0
Changhua County	0	8	30	0	0	0	0
Yunlin County	0	13	13	0	0	0	0
Chiayi County	0	6	3	27	0	0	0
Pingtung County	2	8	2	17	0	0	0
Yilan County	0	0	5	35	0	0	0
Hualien County	0	25	18	69	166	0	0
Taitung County	16	16	78	165	0	0	0
Penghu County	0	0	6	0	0	0	0
Chiayi City	0	0	0	2	1	0	0
Total	18	377	180	421	436	0	0

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

County/City	Debris Flow Danger Areas							
	Yellow Alert			Red Alert			Total	
	Potential debris flow rivers	Township	Village	Potential debris flow rivers	Township	Village	Potential debris flow rivers	Status
Kaohsiung City	77	4	24	0	0	0	77	
Pingtung County	29	5	19	0	0	0	29	
Yilan County	87	4	32	0	0	0	87	
Hualien County	82	5	27	0	0	0	82	

Taitung County	113	8	43	0	0	0	113	
Total	388	26	145	0	0	0	388	-

Notes: 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: 21/09/2013

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
1104	5687	985	5099	119	588	0	0	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
2013/09/20 19:13	1014	886	1900

- F. Suspension of school of and work (Source: National Fire Agency, Ministry of the Interior)  
 School and work suspended in Taichung City, Tainan City, Kaohsiung City, Changhua County, Yunlin County, Chiayi County, Hualien County, Taitung County, Pingtung County, Penghu County, and Hsinchu County (Jianshi Township, Wufeng Township. 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	152	75	75
Chiayi County	10	10	10
Pingtung County	352	107	107
Taitung County	138	105	105
Hualien County	2116	1126	1126
Tainan City	72	71	71
Kaohsiung City	907	907	907
Total	3747	2401	2401

#### B. Shelters

- (1) Emergency shelters (Source: Ministry of Health and Welfare)  
 Up to 45 shelters were opened, housing a cumulative total of 837 people. There are currently 45 shelters in operation holding 837 people. (See attachment 1 for details)
- (2) Civilians housed in military camps (Source: Ministry of National Defense)  
 Military camps were prepared to provide emergency shelter for 49213 civilians at 102 locations.

Table of Military Camps Prepared as Emergency Shelters				
Area	3rd Combat Zone	5th Combat Zone	4th Combat Zone	2nd Combat Zone

	(North)	(Central)	(South)	(East)
Military Camp Shelters	35	35	24	8
Subtotal	102			
Capacity	16322 people	15653 people	15174 people	2064 people
Subtotal	49213 people			

## V. Disaster statistics

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

No injuries or deaths have been reported so far.

### B. Lifeline damage (Source: Ministry of Economic Affairs, National Communications Commission)

Unit	Item	Scale of impact	Emergency repairs completed (Households, Sites)	Awaiting repairs (Households, Sites)	Remarks
Ministry of Economic Affairs	Electricity	22706	10708	11998	Power outage areas: Changzhi Township, Checheng Township, Hengchun Township, Manzhou Township, Mudan Township, and Yanpu Township in Pingtung County, as well as Daren Township, Luda Township, Dawu Township, Taimali Township, Lanyu Township, and Jinfeng Township in Taitung County. The personnel can be dispatched to restore power only after the storm has weakened.

### C Transportation

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

No.	Date and Time	Line	Service	Reason	Remarks	Reported Time
1	09/20 19:59	Southern Loop Line	Train services on Southern Loop Line suspended on September 21.	Cancelled due to typhoon		09/20 20:00
2	09/20 19:58	Taitung Line, Northern Loop Line, Trunk Line	655 Services	Cancelled due to typhoon		09/20 19:59
3	09/20 19:57	Southern Loop Line	313.5628 Services	Cancelled due to typhoon		09/20 19:58
4	09/20 19:55	Northern Loop Line, Taitung Line	606.5628 Services	Cancelled due to typhoon		09/20 19:57

#### (2) Flight cancellations (Source: Ministry of Transportation and Communications)

A total of 36 flights were cancelled or delayed due to the effects of Typhoon Usagi.(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
Personnel Dispatched (persons)	266	584	4473	0	2632	7955

Helicopter (sorties)	0	1087	0	0	1087
Aerial Surveillance (sorties)	0	0	0	0	0
Vehicles (missions)	32	0	0	0	551
Vessels (incl. rubber boats) (vessels)	0	3	0	0	70
Machinery (pcs)	3	0	0	0	3
People Rescued (persons)	0	10	0	0	10

Note: Table data represents cumulative total

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

The first emergency response force of 800 people can be deployed with 10 minutes' notice.

The second emergency response force of 1200 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	200 people	200 people	200 people	200 people
Location				
Subtotal	800 people			
2nd Emergency Response Force	300 people	300 people	300 people	300 people
Location				
Subtotal	1200 people			