

# Typhoon Usagi Disaster Response Report – 2nd Report

Central Emergency Operation Center  
Data as of 20.09.2013 20:00:00

## I. Typhoon Summary (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 20:00 on September 20, the typhoon was located at 20.0 degree north latitude and 123.8 east longitude. This placed the typhoon out at sea 370 km southeast of Cape Eluanbi. The Force 7 storm radius is 280 km and the Force 10 storm radius is 120 km. 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 southeast of Cape Eluanbi and continuing to move in the west-northwest direction. The storm circle has been off the coast southeast of Taiwan, and will pose a threat to Hualien, Taitung, Hengchun Peninsula, Nantou, areas south of Taichung, and Penghu. Lanyu, Lyudao, Taitung, Hengchun Peninsula, Pingtung, Hualien, Kaohsiung, Tainan, Nantou, Chiayi, Yunlin, Changhua, Taichung, and Penghu should stay vigilant and take precautions against strong winds and heavy rains. Shipping sailing or operating of Bashi Channel, Taiwan's north coast, southeast coast, northeast coast, Taiwan Strait, and Dongsha Island should also take extra precautions. Long waves have appeared along Taiwan's eastern coast as well as in Hengchun Peninsula, seas east of Taiwan, and Lanyu, Lyudao. Strong winds have also occurred along Taiwan's coastal regions so please stay away from the coastal areas. Spring tide is currently in effect so low-lying areas should take precautions against flooding and storm surges. Due to the effects of Typhoon Usagi, 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 tonight (9/20) and tomorrow night (9/21). Localized torrential rains and torrential rains are expected in the mountains north of Taichung. Heavy rains and torrential rains are expected in southern and northern Taiwan. Central Taiwan 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. Extremely torrential rains: Taitung County, Hualien County, Yilan County, Pingtung County, Kaohsiung City, and Nantou County. Torrential rains: New Taipei City, Taoyuan County, Hsinchu County, Miaoli County, and Taichung City. Rainfall warning areas: Yilan should take extra precautions. 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.

## II. Disaster Profile

A. Rainfall (Source: Central Weather Bureau, Ministry of Transportation and Communications)

(Data from 9/20 00:00 to 9/20 20:00)

Area	Rainfall (mm)
Wenshan, Wenshan District of Taipei City	131.5
Taiping shan, Datong Township of Yilan County	108.5
Tucheng, Tucheng District of New Taipei City	86.5

## 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	13	Level 1: Nantou County, Changhua County, Chiayi County, Chiayi City, Yunlin County, Kaohsiung City, Pingtung County, Hualien County, Taitung County, Level 2: Tainan City, Yilan County, Penghu 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)

16 low lying areas, 358 mountain areas, 145 coastal sites, 399 river areas, and 428 other sites (1,346 in total). 0 warnings issued.

County/City	Number of danger areas					Enforcement	
	Low-lying area	Mountain	Coast	River	Other	Warnings issued	Penalty notices issued
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	7	23	0	0	0	0
Chiayi County	0	6	3	27	0	0	0
Pingtung County	0	8	1	15	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
Chiayi City	0	0	0	2	1	0	0
Total	16	358	145	399	428	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	Remarks
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: 20:00, 20/09/2013

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	5696	975	5054	92	462	0	0	0	0	0	37	180	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 20:00	1014	886	1900

F. Suspension of school of and work (Source: National Fire Agency, Ministry of the Interior)  
School and work suspended in Lanyu Township and Ludao Township, Taitung County at night.

## 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	80	45	45
Taitung County	8	8	8
Hualien County	22	22	22
Tainan City	72	70	70
Kaohsiung City	79	79	79
Total	423	309	309

B. Shelters

(1) Emergency shelters (Source: Department of Social Affairs, Ministry of the Interior)

Up to 5 shelters were opened, housing a cumulative total of 25 people. There are currently 5 shelters in operation holding 25 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		
Kaohsiung City	Yanchao District	4	Gangshan Veterans' Home Taoyuan District - 11 people	2013/09/20 12:43	2013/09/20 12:43	11	4	7	11	4	7	0	0	No	
	Yanchao District		Gangshan Veterans' Home Namaxia District - 6 people	2013/09/20 13:13	2013/09/20 13:13	6	2	4	6	2	4	0	0	No	0
	Mituo District		Mituo District Office	2013/09/20 18:00		2	2	0	2	2	0	2	10	No	2
	Qishan District		Neimen Sui Man Buddha Nursing Home	2013/09/20 18:35		1	1	0	1	1	0	0	0	No	0
Chiayi County	Fanlu Township	1	Retirement & Assisted Living Facility	2013/09/20 17:14		1	1	0	1	1	0	0	0	No	
Taitung County	Chenggong Township	1	Chenggong Town Office	2013/09/20 17:46	2013/09/22 17:46	4	1	3	4	1	3	10	10	Yes	



Vehicles (missions)	13(13)	326(326)	0(0)	0(0)	0(0)	339(326)
Vessels (incl. rubber boats) (vessels)	0(0)	3(3)	0(0)	0(0)	0(0)	3(3)
Machinery (pcs)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
People Rescued (persons)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Transported Supplies (Tonnes)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Transported Rations (pcs)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Debris & Rubbish Removal (Tonnes)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Disinfected Area (sq. m.)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)

Notes: Table data represents cumulative total (addition of single entries)

**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			

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

The military has pre-deployed a total of 0 servicemen and 20 vehicles in 3 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	Linkou District of Taoyuan, Su-ao Township of Yilan	Shuishang of Chiayi	Guantian of Tainan, Pingtung		
Pre-deployed Personnel	0 people	0 people	0 people	0 people	0 people
Pre-deployed vehicles	1 types, 10 vehicles	1 types, 2 vehicles	1 types, 8 vehicles	0 types, 0 vehicles	3 types, 20 vehicles