

Group Exercise

Very Severe Cyclonic Storm (25- 31 October, 2014)

'NILOFAR'

SDMC (IU)

Groups



- 8 Groups – Country Wise

First Warning – 4 days before

Time of issue: 0800 hours IST

Dated: 27.10.2014

Sub: Severe Cyclonic Storm 'NILOFAR' over westcentral and adjoining southwest Arabian Sea. Cyclone Alert for north Gujarat coast (Yellow Message)

The cyclonic storm, 'NILOFAR' over westcentral and adjoining southwest Arabian Sea moved northwards, intensified into a severe cyclonic storm and lay centred at 0530 hours IST of 27th October, 2014 near latitude 14.80 N and longitude 62.00 E, about 1180 km southwest of Naliya (Gujarat), 1245 km southsouthwest of Karachi (Pakistan) and 885 km east-southeast of Salalah (Oman). It would intensify further into a very severe cyclonic storm during next 24 hrs. It would move initially northwards during next 24 hrs and then recurve northeastwards and cross north Gujarat and adjoining Pakistan coast around Naliya **by 31st October morning.**

First Warning – 4 days before

Warnings:

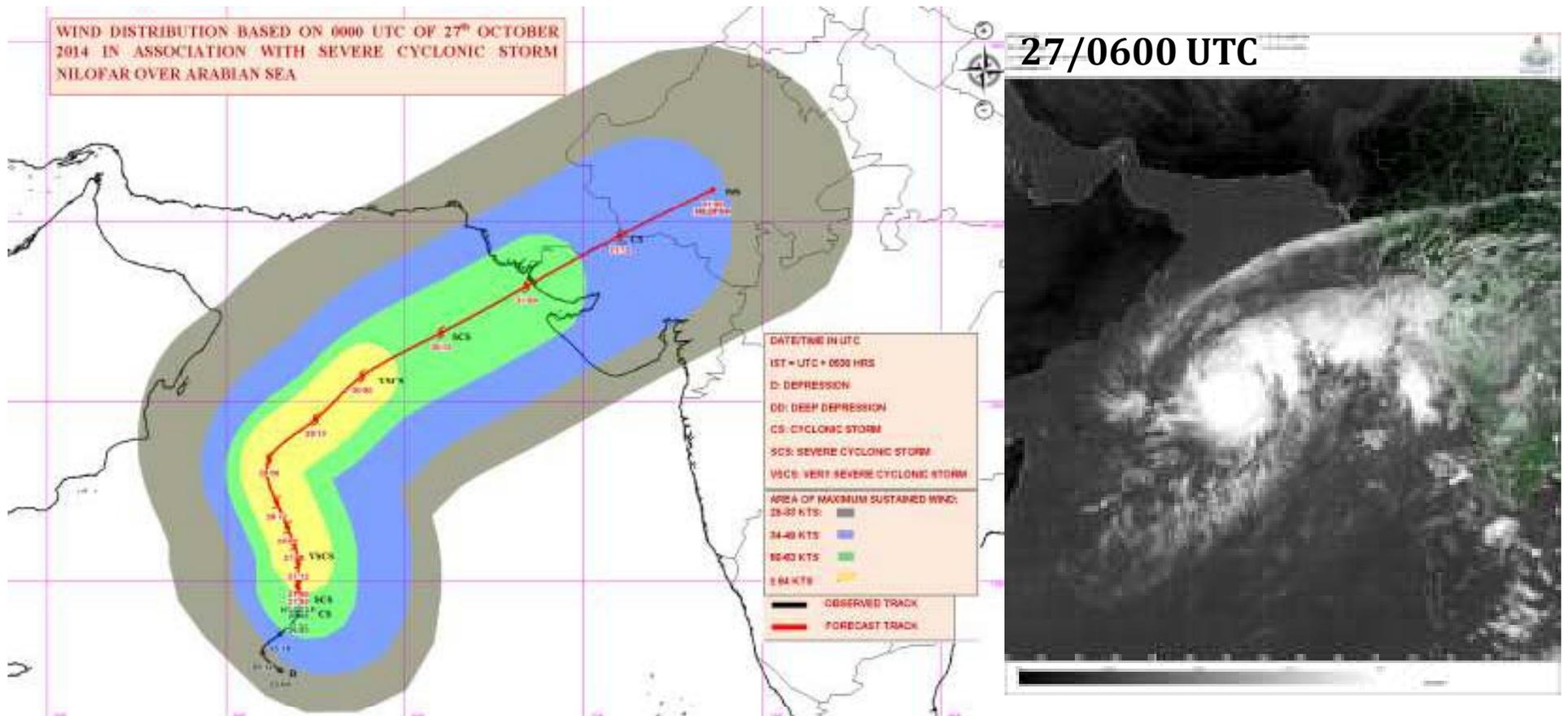
Under the influence of this system, rainfall at most places with isolated heavy to very heavy falls would commence along coastal districts of Saurashtra and Kutch from 30th October morning. Intensity would increase gradually with heavy to very heavy fall at a few places and isolated extremely heavy falls from night of 30th. Squally winds speed reaching 45-55 kmph gusting to 65 kmph would commence along and off Gujarat coast from 30th October morning and would become 100-110 kmph gusting to 125 kmph at the time of landfall. Sea condition along and off Gujarat coast will be rough to very rough from 30th October morning and would become very high to phenomenal from afternoon of 30th October.

Damage expected: Extensive damage to thatched roofs and huts. Minor damage to power and communication lines due to uprooting of large avenue trees. Flooding of escape routes.

Action suggested: Fishermen out at sea along and off Gujarat coast should return to the coast. Total suspension of fishing operations. Coastal hutment dwellers to be moved to safer places. People in affected areas to remain indoors.

The next bulletin will be issued at 1130 hrs IST of today 27th October, 2014

First Warning – 4 days before



Vulnerability



- Population in and around Naliya – 50,000
- Population in and around Dwarka – 40,000
- Fishermen
- Saltpan Workers
- Kandla, Mandvi, Mundra, Jakhau – Ports
- Tourists – Dwarka

Warnings – 4 days before



Time of issue: 1130 hours IST	Dated: 27.10.2014
--------------------------------------	--------------------------

Time of issue: 1430 hours IST	Dated: 27.10.2014
--------------------------------------	--------------------------

Time of issue: 1730 hours IST	Dated: 27.10.2014
--------------------------------------	--------------------------

Every Three Hour	Dated: 27.10.2014
-------------------------------	--------------------------

Groups



Task

1. Communication Plan
2. Information Dissemination Plan (Last mile)
3. Awareness Generation
4. Evacuation Plan
5. Resource Mobilization
6. Disaster Preparedness
7. Cyclone Tracking

Cyclone Warning – 3 days before

Time of issue: 0530 hours IST

Dated: 28.10.2014

Sub: Severe Cyclonic Storm 'NILOFAR' over westcentral and adjoining southwest Arabian Sea. Cyclone Alert for north Gujarat coast (Yellow Message)

It would intensify further into a Very Severe Cyclonic Storm (130-140 kmph gusting to 155 kmph) during next 24 hrs. It would move initially northwards during next 24 hrs and then recurve northeastwards and cross North Gujarat and adjoining Pakistan coast around Naliya by 31st October as a severe cyclonic storm with wind speed of 100-110 kmph.

Time of issue: 1730 hrs

Dated: 28.10.2014

Maximum wind speed: 200-210 kmph gusting to 230 kmph.

28/0600 UTC



Warning from INCOIS – 3 days before

Time of issue: 1400 hours IST

Dated: 28.10.2014

Ocean State Forecast for 29 Oct 2014: for Gujarat coast

Waves in the range of 1.6 – 2.1 meters are forecasted during 02:30 hours on 29-10-2014 to 23:30 hours of 29-10-2014 along the coast of Gujarat between Kachchh to Amreli. Current speeds vary between 0.1-0.5 m/sec.

Ocean State Forecast for 30 Oct 2014: for Gujarat coast

Waves in the range of 1.6 – 2.2 meters are forecasted during 02:30 hours on 30-10-2014 to 23:30 hours of 30-10-2014 along the coast of Gujarat between Kachchh to Amreli. Current speeds vary between 0.1-0.4 m/sec.

Groups



- Actions

Cyclone Warning – 2 days before

Time of issue: 1130 hours IST

Dated: 29.10.2014

Sub: Severe Cyclonic Storm 'NILOFAR' over westcentral and adjoining southwest Arabian Sea. Cyclone Alert for north Gujarat coast (Yellow Message)

Maximum wind speed would be 160-170 kmph gusting to 185 kmph. It would cross North Gujarat and adjoining Pakistan coast around Naliya by 01st November Forenoon. As the system would come closer to Gujarat coast, it would weaken and cross the coast as a Cyclonic Storm (80-90 kmph).



Groups



- Actions

Cyclone Warning – 1 days before

Time of issue: 0830 hours IST

Dated: 29.10.2014

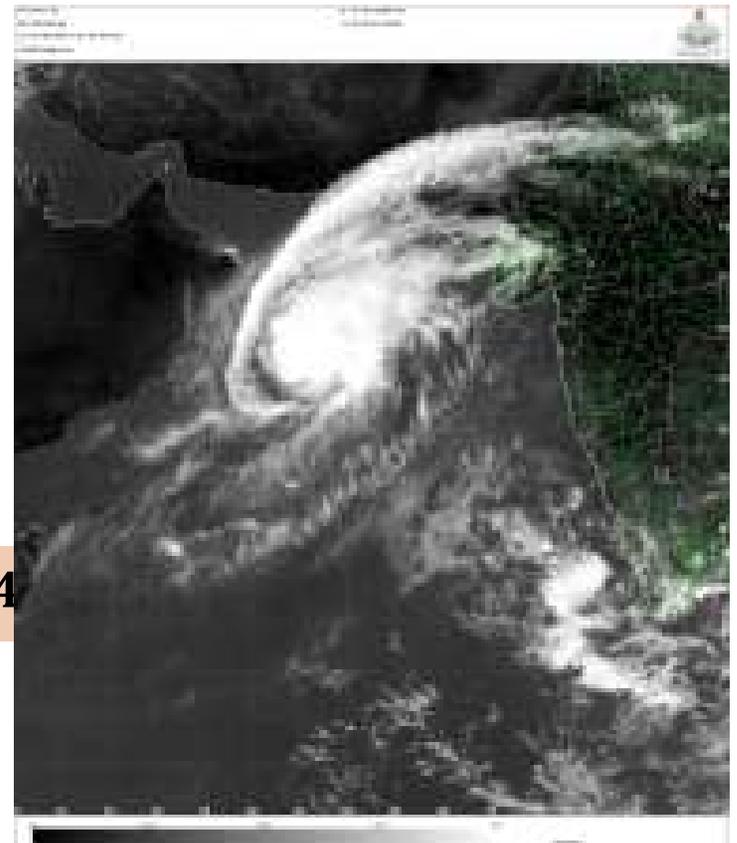
Sub: Severe Cyclonic Storm 'NILOFAR' over westcentral and adjoining southwest Arabian Sea. Cyclone Alert for north Gujarat coast (Yellow Message)

As the system would come closer to Gujarat coast, it would weaken and cross the coast as a marginal Cyclonic Storm with wind speed of 60-70 kmph gusting to 80 kmph. Moderate rainfall at most places with heavy to very heavy falls at isolated places over all districts of Saurashtra and Kutch and North Gujarat on 30th and 31st October.

Time of issue: 1730 hrs

Dated: 29.10.2014

As the system comes closer to Gujarat coast, it would weaken into a depression near North Gujarat coast by 31st October evening



Groups



- Actions

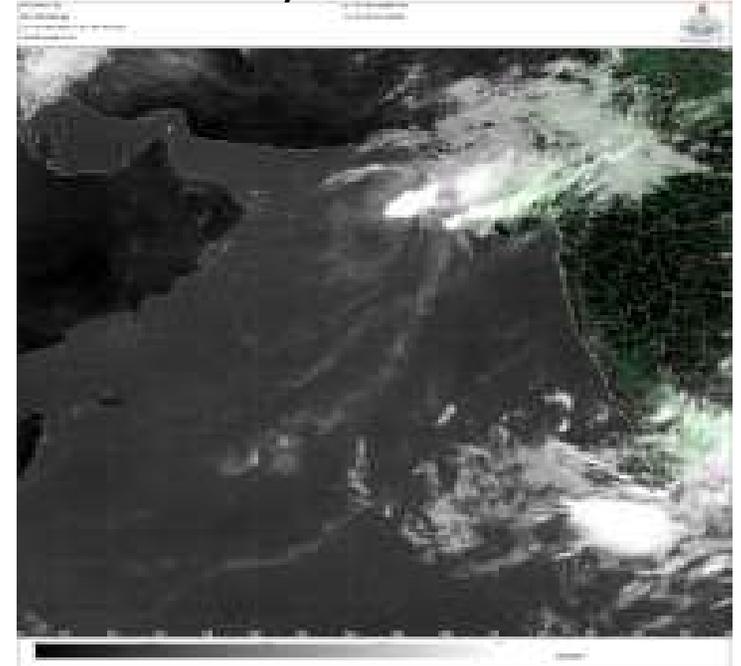
Cyclone Warning – 1 days before

30/0600 UTC



Moderate rainfall at most places with isolated heavy to very heavy falls over Kutch and coastal districts of Saurashtra during next 48 hrs. Light to moderate rainfall at many places with isolated heavy falls over remaining districts of Saurashtra, North Gujarat and Southwest Rajasthan during the same period.

31/0600 UTC



Moderate rainfall at many places over Kutch and Saurashtra during next 24 hrs

Thank You

Cyclone Terminology

Types of Disturbances	Associated wind speed in the circulation
Low Pressure Area	Less than 17 knots (< 31 km/h)
Depression	17 to 27 knots (31 to 49 km/h)
Deep Depression	28 to 33 knots (50 to 61 km/h)
Cyclonic Storm	34 to 47 knots (62 to 88 km/h)
Severe Cyclonic Storm	48 to 63 knots (89 to 118 km/h)
Very Severe Cyclonic Storm	64 to 89 knots (119 to 166 km/h)
Extremely Severe Cyclonic Storm	90 to 119 knots (167 to 221 km/h)
Super Cyclonic Storm	120 knots and above (222 km/h and above)