



REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI TROPICAL CYCLONE ADVISORY BULLETIN NO. 10

FROM: RSMC -TROPICAL CYCLONES, NEW DELHI

TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, KARACHI (PAKISTAN)
METEOROLOGICAL OFFICE, MALE (MALDIVES)
OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)
YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)
NATIONAL CENTRE FOR METEOROLOGY, UAE (THROUGH RTH JEDDAH)
PRESIDENCY OF METEOROLOGY AND ENVIRONMENT, SAUDI ARABIA (THROUGH RTH JEDDAH)
IRAN METEOROLOGICAL ORGANISATION, (THROUGH RTH JEDDAH)
QATAR METEOROLOGICAL DEPARTMENT (THROUGH RTH JEDDAH)

TROPICAL CYCLONE ADVISORY NO. 10 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 1030 UTC OF 03.06.2020 BASED ON 0900 UTC OF 03.06.2020.

SUB: SEVERE CYCLONIC STORM 'NISARGA' OVER COASTAL MAHRASHTRA

THE **SEVERE CYCLONIC STORM 'NISARGA'** OVER EASTCENTRAL ARABIAN SEA MOVED NORTHEASTWARDS WITH A SPEED OF ABOUT 23 KMPH DURING PAST 06 HOURS, CROSSED MAHARASHTRA COAST CLOSE TO SOUTH OF ALIBAGH WITH A MAXIMUM SUSTAINED WIND SPEED OF 100-110 KMPH GUSTING TO 120 KMPH BETWEEN 0700-0900 UTC OF TODAY, THE 03RD JUNE. IT LAY CENTRED AT 0900UTC OF TODAY THE 03RD JUNE, 2020 OVER COASTAL MAHARASHTRA, NEAR LATITUDE 18.5°N AND LONGITUDE 73.2°E, CLOSE TO EAST-SOUTHEAST OF ALIBAGH (43058), 75 KM SOUTHEAST OF MUMBAI (43003), AND AND 65 KM WEST OF PUNE (43063).

IT IS VERY LIKELY TO MOVE NORTHEASTWARDS AND WEAKEN GRADUALLY INTO A CYCLONIC STORM TILL 1500UTC

THE SYSTEM IS BEING CONTINUOUSLY TRACKED BY THE DOPPLER WEATHER RADARS (DWRS) AT MUMBAI (43003).

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

DATE/TIME(UTC)	POSITION	MAXIMUM SUSTAINED	CATEGORY OF CYCLONIC
, ,	(LAT. ⁰ N/ LONG.	SURFACE WIND SPEED	DISTURBANCE
	⁰ E)	(KMPH)	
03.06.20/0900	18.5/73.2	90-100 GUSTING TO 110	SEVERE CYCLONIC
			STORM
03.06.20/1200	18.8/73.4	80-90 GUSTING TO 100	CYCLONIC STORM
03.06.20/1800	19.4/73.9	50-60 GUSTING TO 70	DEEP DEPRESSION
04.06.20/0000	20.2/74.6	40-50 GUSTING TO 60	DEPRESSION
04.06.20/0600	20.8/75.1	30-40 GUSTING TO 50	DEPRESSION

AS PER INSAT-3D SATELLITE IMAGERY BASED ON 0900 UTC OF 03RD JUNE, THE SYSTEM HAVE ENTERED OVER THE LAND AND EYE HAS DISTORTED.

PROBABILITY OF CYCLOGENESIS (FORMATION OF DEPRESSION)
NIL: 0%, LOW: 1-25%, FAIR: 26-50%, MODERATE: 51-75% AND HIGH: 76-100%

INSAT 3D FURTHER SHOWS ASSOCIATED BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER EASTCENTRAL ARABIAN SEA BETWEEN LATITUDE 12.5°N TO 20.0°N AND LONGITUDE 70.0°E TO 75.0°E. MINIMUM CLOUD TOP TEMPERATURE (CTT) IS MINUS 93°C.

AT 0900 UTC OF 02nd JUNE, ALIBAGH(43110) REPORTED MEAN SEA SEA LEVEL PRESSURE OF 985.0 HPA AND SURFACE WIND SPEED OF 005°/10.2 KNOTS.

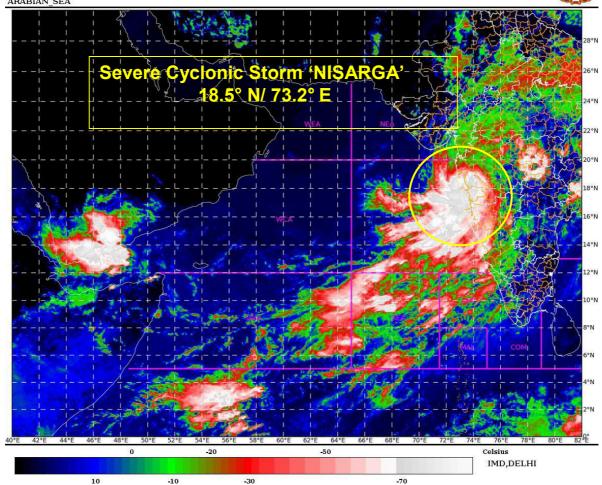
STORM SURGE GUIDANCE

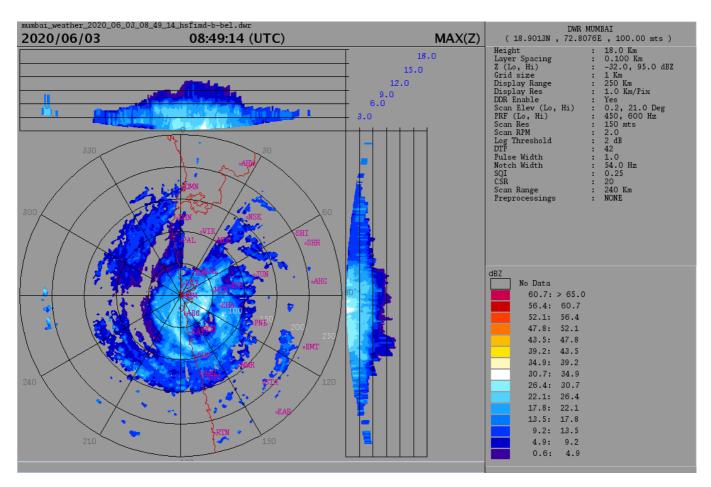
STORM SURGE OF ABOUT 0.5 TO 1 METER HEIGHT ABOVE ASTRONOMICAL TIDE IS VERY LIKELY TO INUNDATE LOW LYING AREAS OF MUMBAI, THANE AND RAIGAD DISTRICTS DURING NEXT 3 HOURS.

(RK JENAMANI) SCIENTIST-F RSMC NEW DELHI

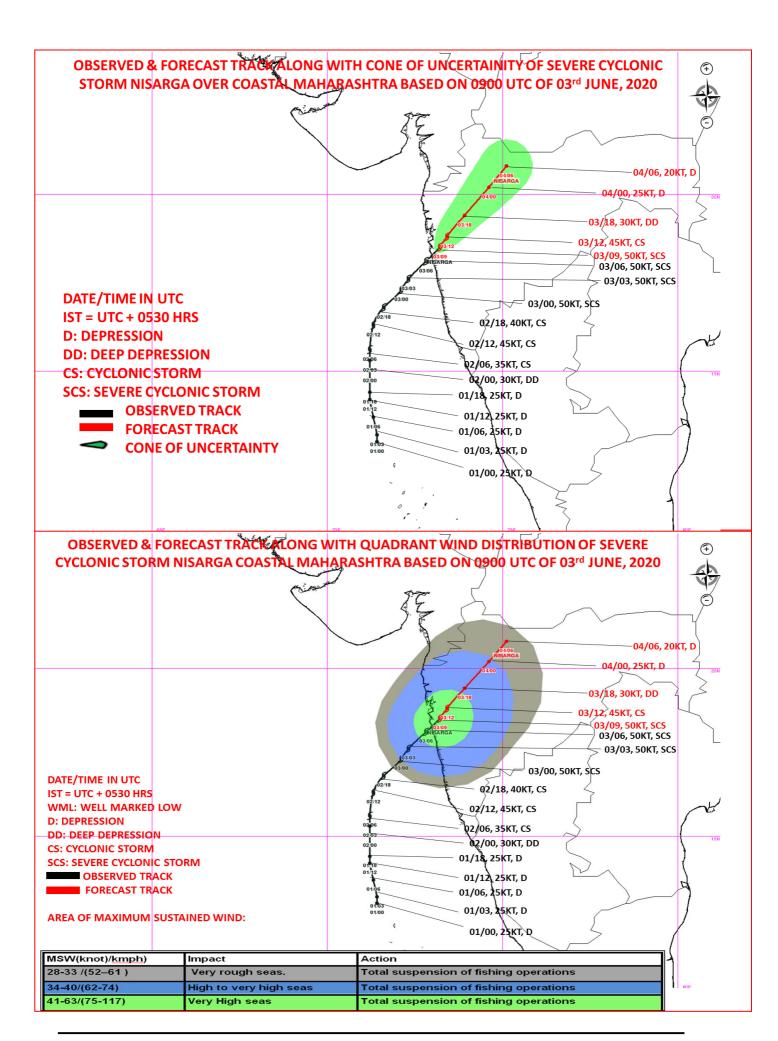
Legend: ECA- east-Central Arabian Sea



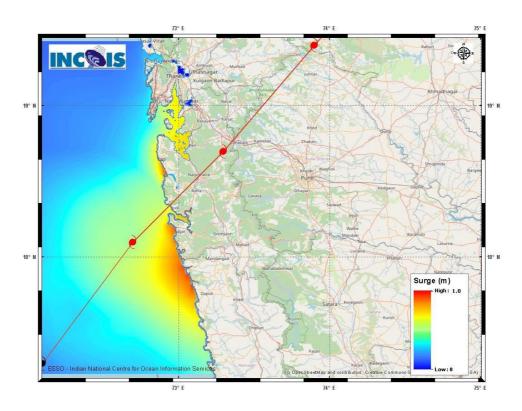




DOPPLER WEATHER RADAR MUMBAI AT 14:19 HOURS IST OF 03.06.2020



Storm surge Warning



The below listed surge heights over and above astronomical tide.

MANDAL/TALUK	DISTRICT	STATE / UNION	NEAREST	* STORM	* EXPECTED
		TERRITORY	PLACE OF	SURGE	INUNDATION
			HABITATION	(m)	EXTENT (km)
ALIBAG	RAIGAD	MAHARASHTRA	ALIBAG	0.5-1.3	Around 1.4
DAPOLI	RATNAGIRI	MAHARASHTRA	DAPOLI	0.6-0.9	Around 0.3
PEN	RAIGAD	MAHARASHTRA	PEN	0.7-0.9	Around 2.2
THANE	GREATER MUMBAI	MAHARASHTRA	THANE	0.7-0.9	Around 0.3