



No. F.2 (E)/2023-NDMA (TC Alert-VII)
Government of Pakistan
Prime Minister's Office
National Disaster Management Authority
Islamabad



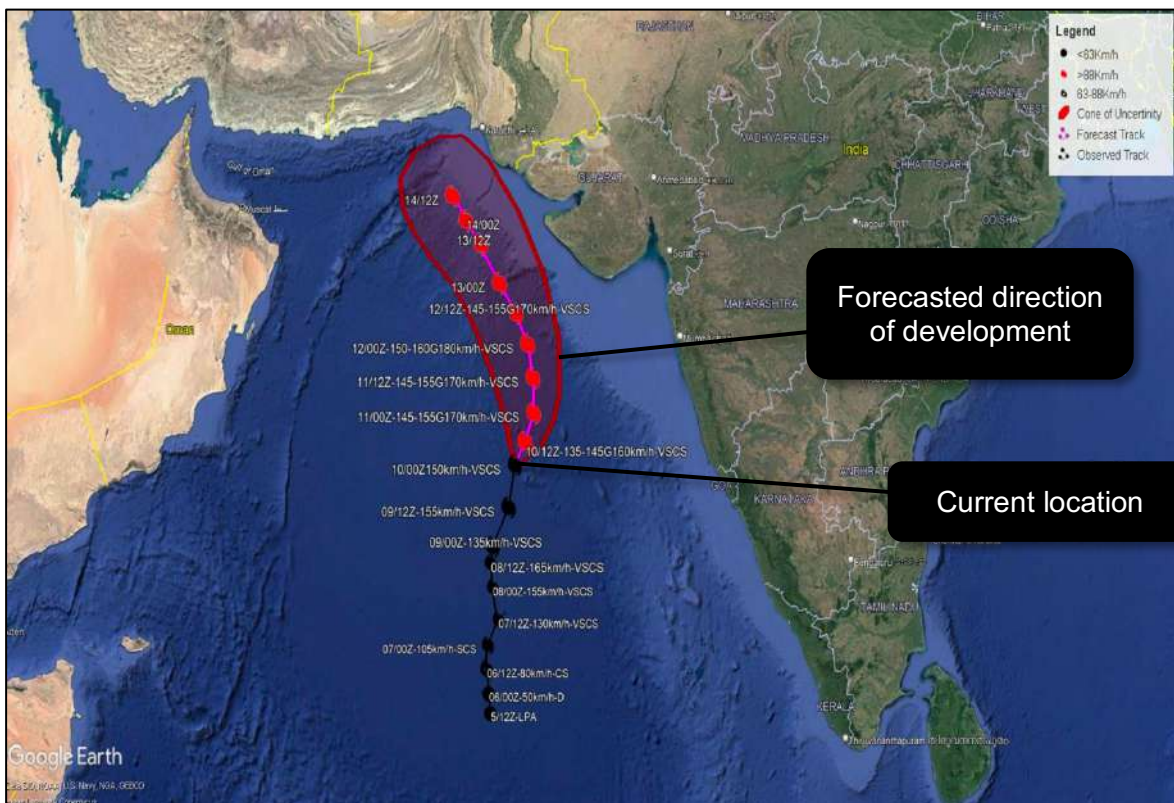
Dated: 10 June 2023
1015 hours

Subject: **Tropical Cyclone "BIPARJOY" Formed Over East-Central Arabian Sea**

Reference: NDMA's TC Advisory No. F.2 (E)/2023-NDMA (TC Alert I-VI) dated 6 – 9 June 2023.

Further to NDMA's above referred TC Advisories, PMD has released following updates of **Very Strong Cyclonic Storm "BIPARJOY"** (press release is attached as **Annex A**): -

- a. Location - Latitude 16.7°N & Longitude 66.4°E
- b. Distance from Karachi - 910 km south of Karachi
- c. Wind Speed - 120-130 km/h gusts, 150 km/h center
- d. Forecasted direction - North-northeast



2. Likely development path based on international weather applications/ models are enclosed (as **Annex-B**) for proactive preparations against likely impacts. **It must be highlighted that this is an evolving situation and the impact will only be certain with further development of the system.**

3. Possible impacts under the current forecast are as under: -
 - a. Arabian Sea conditions may get very rough/high accompanied with high tides along the coast from 11 June 2023.
 - b. Rain-thunderstorm with some heavy falls and gusty winds are expected in Sindh-Makran coast from 13 June (evening/night) 2023 onwards.
 - c. Squally / high intensity winds may damage loose structures, under construction buildings, trees and hoardings/ billboards.
 - d. Possible risk of storm surge activity in coastal areas as cyclonic system progresses.
 - e. Sea conditions expected to be very high / phenomenal with maximum wave height 25-28 feet around the system center.

3. The guidelines are reiterated once again as under: -
 - a. Ensure **close monitoring of system development and proactive coordination** through respective emergency operation centers.
 - b. Ensure that **early warning systems** are in place and functioning effectively to disseminate **timely and accurate information for at-risk communities**.
 - c. Utilize **various communication channels** such as **television, radio, social media**, and **SMS alerts** to reach the coastal communities.
 - d. Individuals living in “kacha” or unsecured mud houses are advised to **find shelter in sturdier / more secure buildings** to ensure personal safety.
 - e. Conduct **awareness campaigns** for masses on the **cyclone's potential impacts, evacuation procedures, and safety measures**.
 - f. Respective PDMA's/ DDMA's, **Rescue agencies** (1122, fire department and paramedics) and concerned departments may **identify high-risk areas prone to storm surges, flooding, and landslides, and develop evacuation plans accordingly**.
 - g. **Collaborate** with relevant authorities, including **law enforcement agencies** and **transportation departments**, to facilitate the **safe evacuation of people** from **vulnerable coastal areas/ low lying areas**.
 - h. **Conduct mock exercises for at-risk communities** to rehearse **evacuation** drills and for DM responders to practice **timely and coordinated response** to any developing situation.

- i. Respective PDMA's/ DDMA's shall develop **contingency plans for identification of safe locations** and **adequate equipment** with essential supplies, including food, water, medical aid, and sanitation facilities.
 - j. Advise fisherman to exercise **appropriate caution** while in **coastal areas**.
 - k. **Continuously update fishermen** about the **weather conditions** and advise them **not to venture into the open sea until the situation improves**.
 - l. Establish a **system for regular communication** with **fishing communities**, providing them with **real-time weather updates and guidance**.
 - m. Coordinate with relevant departments, such as the National Highway Authority(NHA), Frontier Works Organization (FWO), Communication and Works (C&W),and line departments to **assess and prepare for any potential damage to roads, bridges, and other critical infrastructure**.
 - n. Ensure that necessary equipment and **resources are readily available** for rapid response and recovery operations, including road clearance and restoration of utility services.
 - o. Share **regular updates** on the cyclone's progress, potential impacts, and response measures with the National Disaster Management Authority (NDMA)and other stakeholders.
4. **Three hourly updates on developing weather system will be uploaded on NDMA's website and social media handles for reference of all stakeholders.** All concerned are requested to ensure continuous monitoring and proactive preparations against likely impacts.
5. Forwarded for your further necessary action, please.



(Muhammad Ali Khan)
Director (Response)
Tel No: 051-9030924
Fax No: 051-9030729

To: Chief Secretary, Government of Balochistan, Quetta
Chief Secretary, Government of Sindh, Karachi
Secretary, Ministry of Interior, Islamabad
Secretary, Ministry of Communications, Islamabad
Secretary, Directorate General Ports & Shipping, Ministry of Maritime Affairs, Karachi
Chairman, National Highway Authority, Islamabad
Inspector General, National Highways & Motorway Police, Islamabad
Chairman, Pakistan Telecommunications Authority, Islamabad
Principal Information Officer, Press Information Department, Islamabad
Headquarters, Pakistan Maritime Security Agency, Karachi
Staff Duties Directorate (SD Coord), COAS Sectt, GHQ, Rawalpindi
Headquarters, Pakistan Coast Guards, Karachi
Director General, PDMA Balochistan, Quetta
Director General, PDMA Sindh, Karachi
Director Generals, Rescue 1122, Provincial Governments, GB & AJ&K
Headquarters, Frontier Works Organization (FWO), Rawalpindi
Commissioner Karachi
Chief Meteorologist, Pakistan Metrological Department, Karachi
Director, NIO (National Institute of Oceanography)
Chairman, Balochistan Coastal Development Authority, Gwadar
Chairman, Sindh Coastal Development Authority, Karachi
Managing Director, K-Electric Karachi
Country Coordinator, UNOCHA, Islamabad
Coordinator Welthungerhilfe, (WHH), Islamabad
Country Coordinator, PHF, Islamabad
Chairperson, National Humanitarian Network, Islamabad

Cc: Secretary to Prime Minister, Prime Minister's Office, Islamabad
Secretary, Cabinet Division, Islamabad
Chairman, Federal Flood Commission, Islamabad
Joint Crises Management Cell, Joint Staff Headquarters, Chaklala Cantt
Military Operations Directorate (MO-4), General Headquarters, Rawalpindi Cantt
ACNS (Operations), Naval Headquarters, Islamabad
ACAS (Operations), Air Headquarters, Islamabad
GSO-1, Inter Services Public Relations, General Headquarters, Rawalpindi Cantt



Government of Pakistan
 Ministry of Aviation
 Marine Meteorology and Tropical Cyclone Warning Centre
Pakistan Meteorological Department
 University Road Karachi-75270

Tel: 021-99261417
 Fax: 021-99261405

TC-Alert 9

Date: 10 June 2023
 Time: 1000 PST

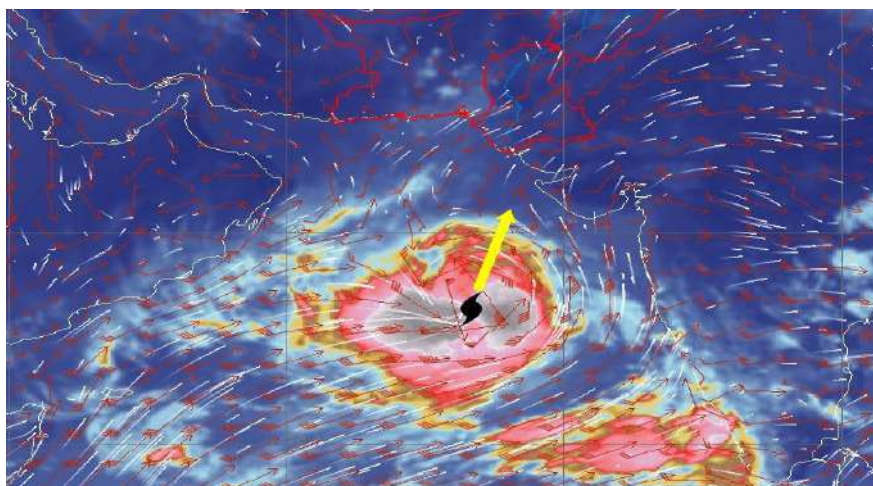
Very Severe Cyclonic Storm (BIPARJOY) over East-central Arabian Sea

The Very Severe Cyclonic Storm (VSCS) “BIPARJOY” over eastcentral Arabian Sea maintaining its intensity further tracked north-northeastward during past 12 hours and now lies near Latitude 16.7°N & Longitude 66.4°E at a distance of about 910km south of Karachi, 890km south of Thatta & 990km southeast of Ormara. Maximum sustained surface winds are 120-130 Km/hour gusts 150 Km/hour around the system center. The favorable environmental conditions (sea surface temperature of 30-32°C, low vertical wind shear & upper-level divergence) are in support to intensify the system further.

Owing to shift in upper-level steering winds, the uncertainty in global models’ final track forecast of VSCS “BIPARJOY” still persists with some taking it to Makran-North Oman coast and others indicating towards Indian Gujarat-Sindh coast. Given this uncertainty, the system is predicted to keep tracking further north/northeastward during next 18-24 hours and then slightly recurve to North-northwest. PMD’s cyclone warning center, Karachi is monitoring the system and will issue update accordingly.

Possible Impacts:

- Fishermen are advised not to venture in open sea from tomorrow, 11 June 2023 onwards till the system is over as the Arabian Sea conditions may get very rough/high accompanied with high tides along coast.
- With its probable north-northeast track, the rain-thunderstorm with some heavy falls & squally winds are expected in Sindh-Makran coast from 13 June evening/night onwards.
- Squally (high intensity) winds may cause damage to loose & vulnerable structures.
- Sea conditions are very high/phenomenal around the system center with maximum wave height 25-28 feet.



Satellite imagery. 10 June 2023, 1000PST

FORECASTED PATH OF TC BIPARJOY BY INTERNATIONAL WEATHER MODELS

