



DBCP Capacity Building Workshop on Ocean Observations for Operational Services in the Indian Ocean Region

National Report- Sri Lanka

05 - 07 August 2025 Hyderabad, India

SACHITH WICKRAMASURIYA

Meteorologist

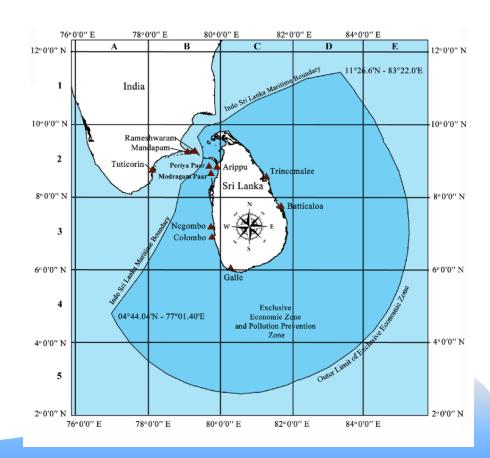
Department of Meteorology Sri Lanka





Basic Marine Environment of Sri Lanka

- Main island of Sri Lanka has an area of 65,268 Km²
- The Exclusive Economic Zone (EEZ) covers an area about 510,000 Km²
- The Sri Lankan coastline is 1,340 km long
- It has 5 major ports and lots of minor ports.





WEATHER FORECAST FOR SEA AREAS AROUND THE ISLAND

~ 2 times per day



කාලගුණ විදාහ දෙපාර්තමේන්තුව

வளிமண்டலவியல் திணைக்களம் Department of Meteorology P : 011 2686686 ax : 011 2691443

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ශීී ලංකාව සඳහා සාමානාය කාලගුණ අනාවැකිය

GENERAL WEATHER FORECAST FOR SRI LANKA

ජාතික කාලගුණ විදාා මධාාස්ථානයේ, අනාවැකි අංශය මගින් නිකුත් කරන ලදි Issued by Forecasting Division, National Meteorological Centre

WEATHER FORECAST FOR SEA AREAS AROUND THE ISLAND DURING NEXT 24 HOURS Issued at 2.00 p.m. on 25 July 2025

Condition of Rain:

Showers will occur at times in the sea areas off the coast extending from Puttalam to Matara via Colombo and Galle.

Winds:

Winds will be westerly to south-westerly and wind speed will be (35-45) kmph.

Wind speed can increase up to **(60-65) kmph** at times in the sea areas off the coast extending from Kalpitiya to Kankasanthurai via Mannar.

Wind speed can increase up to **(50-55) kmph** at times in the sea areas off the coast extending Hambantota to Pottuvil and from Kankasanthurai to Trincomalee via Mullaittivu.

State of Sea:

The sea areas off the coast extending from Kalpitiya to Kankasanthurai via Mannar will be rough or very rough at times. Naval and fishing communities are advised not to venture into these sea areas for next 24 hours.



8 DAY FORECAST FOR COASTAL AREAS AROUND SRI LANKA

~ 1 time per day

ශ් ී ලංකාවේ වෙරළ තීරයට දින 8 ක් සඳහා කාලගුණ අනාවැකිය

8 DAY FORECAST FOR COASTAL AREAS AROUND SRI LANKA

Issued at 4.00 p.m. on 03 December 2023 Marine Weather Division, National Meteorological Centre, Department of Meteorology. 2023 දෙසැම්බර් මස 03 දින ප. ව 4.00 ට නිකුත් කරන ලදි. සමුදුීය කාලගුණ විදහා අංශය, කාලගුණ විදහා දෙපාර්තමේන්තුව.

The Deep Depression over Southwest Bay of Bengal has intensified in to a Cyclonic storm located near latitude 11.8°1 and longitude 82.2°E, at 1330 hrs of 03 December and about 170 km northeast of Point Pedro, Jaffna. The Cycloni storm has named "MICHAUNG" (PRONOUNCED AS "MIGJAUM"). The system is expected to move northwestwar near North coast of Sri Lanka towards North Tamil Nadu coast of India. Thereafter, it would move northwards and cros South Andhra Pradesh coasts around December 05, 2023. Fishing and naval community are requested to be attentive t future forecasts issued by the Department of Meteorology in this regard.

නිරිකදිග බෙංගාල බොක්ක මූහුදු පුදේශයේ වායුගෝලයේ පැවති ගැඹුරු පීඩන අවපානය, දෙසැම්බර් 03 දින පැය 1330 වන විට සු කුණාටුවක් දක්වා වර්ධනය වි උතුරු අක්ෂාංග 11.4" සහ නැගෙනහිර දේශාංශ 82.5" ආසන්න පුදේශයේ , යාපනයේ පේදුරු තුඩුවේ සි කිම්. 170 ක් පමණ ඊසාග දෙයින් පැවතුනි. මෙම සුදු කුණාටුව "මිජවුම්" (MICHAUNG) ලෙස නම් කර ඇති අතර එය ශී ලංකාවේ උතුරු වෙරළට ආසන්නයෙන් වයඹ දෙසට ගමන් කරමින් උතුරු නම්ල්නාඩුව දෙසට ගොස් පසුව උතුරු දෙසට ගමන් කර 2023 දෙසැම්බර් 05 දි? වන විට දකුණු අන්ද්රා පුදේශයේ වෙරළ තීරයෙන් ගොඩබ්මට ඇතුළුවනු ඇතැයි බලාපොරොත්තුවේ. කාලගුණ විදා දෙපාරිකමේන්තු. මේ සම්බන්ධයෙන් නිකුත් කරන ඉදිරි අනාවැකි පිළිසුවද වචනාකයෙන් සිටින ලෙක බීවර සහ නාවික පුජාවගෙන් ඉල්ලා සිටියි.

දිනය Date	සුළඟ සහ වර්ෂාපතනය Wind and Rainfall Forecast (පැය 24 සඳහා වර්ෂාපතනය) (Total precipitation for 24hrs)	මුහුදු රළ උස Significant wave height (මීටර් වලින්) (in meters)	විටින් විට වැඩිවිය හැකි සුළං වේගය Wind Gust (කන්පරයෙ මීටර්) (m/s)
	10m wind layer: "Black word fags in heats Total precipitation over the last 24 hour	Mean wave direction and height Block wird wave notes Significant wave height	10m wind layer Milack wind lags (inheats) 10m maximum wind goat in the last 24 Pour
	Showers or thundershowers will occur at times in the sea areas around the island. දවයින වටා වන මුහුදු පුදේශවල විරින් විට වැසි හෝ ගිගුරුම සහිත වැසි ඇතිවේ. Wind speed will be 30-40 kmph in the sea areas around the island. Wind speed can be increase up to 60 at times and sea condition can be very rough at times in the sea areas off the coast extending from Kankasa to Batticaloa via Trincomalee. Wind speed can be increase up to 50 kmph at times and sea condition of rough at times in the other sea areas around the island.		
2023.12.04	දිවයින වටා වන මූහුදු පුදේශවල සුළගේ වේගය පැකි.මී. 30-40 පමණ වේ. කන්කසන්තුරය සිට, තීකුණාමලය හරහා මඩකලපුව දක්වා මුහුදු පුදේශවල සුළගේ වේගය විරින් විට පැකි.මී. 60 දක්වා වැඩි විය හැකි අතර එම මුහුදු පුදේශ විරිත් විට ඉතා රළු විය හැක. දිවයින වටා වන සෙසු මූහුදු පුදේශවල සුළගේ වේගය විරින් විට පැකි.මී. 50 දක්වා වැඩි විය හැකි අතර එම මුහුදු පුදේශ විරින් විට රළු විය හැක.		
72			



Multi-day Boats Forecast ~ 1 time per day



කාලගුණ විදහා දෙපාර්තමේන්තුව

வளிமண்டலவியல் திணைக்களம்

Department of Meteorology

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Arabian Sea

Weather:

10N - 20N, 70E-78E : Showers or thundershowers at most places.
02N-10N, 60E-80E : Showers or thundershowers at several places.
: Showers or thundershowers at a few places.

Winds:

10N - 20N, 60E-65E : South-westerly / (50-60) kmph; gusting up to (70-80) kmph.

10N - 20N, 65E-80E : South-westerly to Westerly / (35-45) kmph; gusting up to (55-65) kmph.

05N - 10N, 60E-80E : South-westerly / (30-40) kmph; gusting up to (50-60) kmph.

Other sea areas : South-westerly / (30-40) kmph.

State of the Sea:

10N - 20N, 60E-65E : Rough; very rough at times.

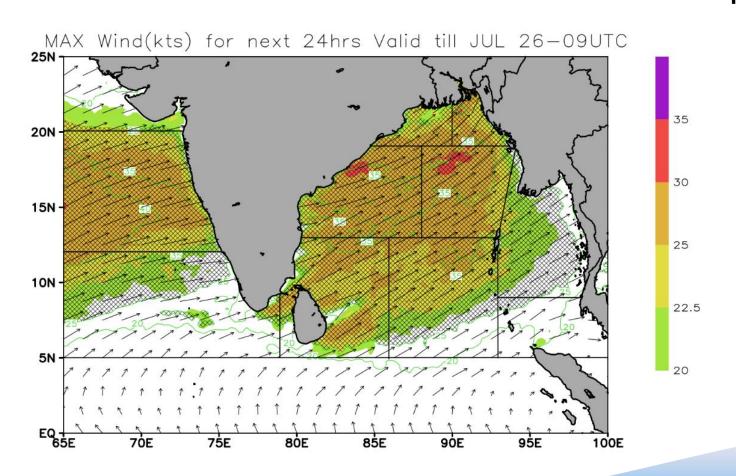
10N - 20N, 65E-80E : Fairly rough to rough; very rough at times.

05N - 10N, 60E-80E : Fairly rough, rough at times.

Other sea areas : Moderate.



► FISHERMEN BULLETIN FOR STRONG WINDS AND ROUGH SEAS
~ 1 time per day

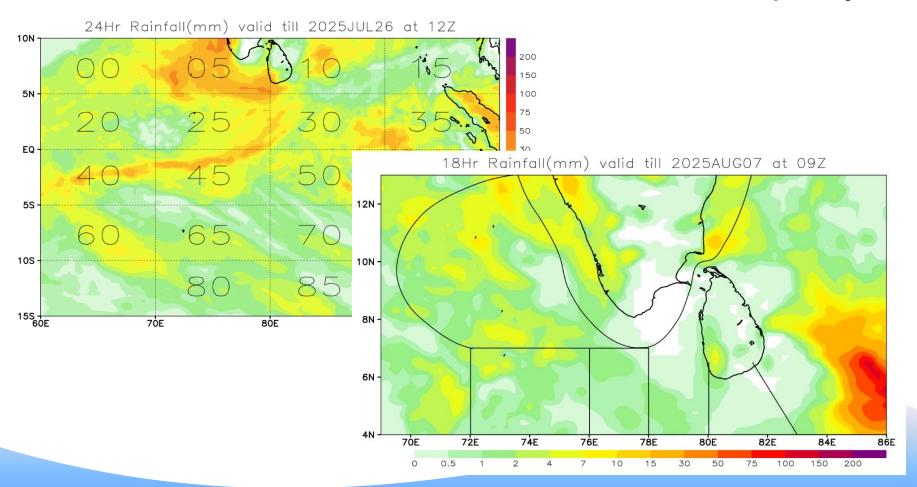




International FORECASTs

FLEET FORECAST and SHIPPING FORECAST

~ 2 times per day







කාලගුණ විදාහ දෙපාර්තමේන්තුව வளிமண்டலவியல் திணைக்களம் Department of Meteorology

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Bulletin No: 08 COLOR: Red WW/O/23/05/12/01

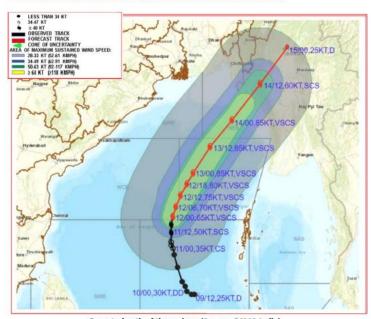
Warning for very severe cyclonic storm "Mocha" over South-East Bay of Bengal

Issued by the Natural Hazards Early Warning Centre Issued at 11:00 a.m. 12 May 2023, valid for 11:00 a.m. 13 May 2023

For Multi-day boats in the Bay of Bengal Sea area.

PLEASE BE AWARE!

cyclonic storm "Mocha"over Southeast Bay of Bengal has intensified into a very severe cyclonic storm and lay centered near 13.20N and 88.10E at 05.30 hours today (12th May). It is very likely to move north-northeastwards with further intensification and the system is very likely to cross southeast Bangladesh and north Myanmar coasts around noon of 14th May.



Expected path of the cyclone (Source: RSMC-India)

Warning forCyclonic storms





කාලගුණ විදාහ දෙපාර්තමේන්තුව ඛණ්ඩාමේ නිකෝස්සණේ Department of Meteorology TP: 011 2686686 Fax: 011 2691443 E-mail: metnmc@gmail.com Web: www.meteo.gov.lk

Bulletin No: 08 COLOR: Amber WW/TC/24/12/22/01

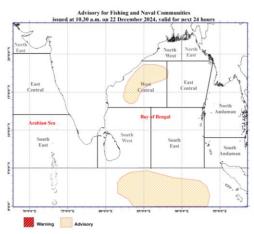
Weather Advisory

Issued by the Natural Hazards Early Warning Centre Issued at 10.30 a.m. 22 December 2024

For Multiday boats in the sea areas of West-central Bay of Bengal and deep sea areas to the Southeast of Sri Lanka

PLEASE BE AWARE!

The depression over west-central Bay of Bengal has weaken into a low-pressure area over the same region. This system is likely to weaken further over the same region. This is the final bulletin in this regard.



Advisories:

For Sea Area

- Sea areas in the West-central Bay of Bengal will be rough at times as the wind speed can increase up to (55-60) kmph at times. Heavy showers or thundershowers are likely in these sea areas.
- Deep sea areas to the South East of Sri Lanka will be rough or very rough at times as the wind speed can increase up to (55-65) kmph at times.

Action suggested for the Sea area:

Naval and fishing communities, engaging activities over West-central Bay of Bengal and the
deep sea areas to the Southeast of Sri Lanka are requested to be vigilant in this regard.

Advisory for strong winds and rough seas For Multi-day boats in deep sea areas





කාලගුණ විදහා දෙපාර්තමේන්තුව

வளிமண்டலவியல் திணைக்களம் Department of Meteorology TP: 011 2686686 Fax: 011 2691443 E-mail: metnmc@gmail.com

Web : www.meteo.gov.lk

Bulletin No: 16 COLOR: Red WW/O/25/07/25/01

Warning for strong winds and rough seas.

Issued by the Natural Hazards Early Warning Centre Issued at 10.00 a.m. on 25 July 2025 for the period until 10.00 a.m. on 26 July 2025

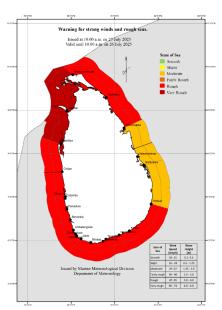
For the sea areas extending from Kalpitiya to Kankasanthurai via Mannar

PLEASE BE AWARE!

The sea areas extending from Kalpitiya to Kankasanthurai via Mannar will be rough or very rough with strong gusty winds up to (60-70) kmph.

Naval and fishing communities are advised not to venture into the sea areas extending from Kalpitiya to Kankasanthurai via Mannar for next 24 hours.

The sea areas off the coast extending from Kalpitiya to Pottuvil via Colombo, Galle and Hambantota and from Kankasanthurai to Trincomalee via Mullaittivu will be fairly rough at times with strong gusty winds up to 50 kmph. The naval and fishing communities engaged in fishing and naval activities in these sea areas are requested to be vigilant in this regard.



Naval and fishing communities are requested to be attentive to future forecasts issued by the Department of Meteorology in this regard.

Advisory for strong winds and rough seas around the island



➤ 'Sayuru' location-based free National Weather Alert and Warning Service for Day-boat Fishermen Users ~ 100, 000+







https://incois.gov.in/portal/osf/osf.jsp



Regional Specialized Meteorological Centre for Tropical Cyclones Over North Indian Ocean



Contact Us

India Meteorological Department Ministry of Earth Sciences, Government of India

https://rsmcnewdelhi.imd.gov.in/

SEA LEVEL STATION MONITORING FACILITY

Intro

Station lists

Station lest

Scalevel stations
Status at 2025-07-25 13:43 GMT

Disclaimer For Active stations
Show Status

Lagend:

Station is offline, or data is
prs (1.04m) - rad (4.62m) - rad (4.62m)

Relative sealevel at Colombo station - median
prs (1.04m) - rad (4.62m)

Relative sealevel at Colombo station - median
prs (1.04m) - rad (4.62m)

Teceived since and displayed and maintained by VIII for UNESCO/IDC

Lat: 3.76 Lon:90.54

State developed and maintained by VIII for UNESCO/IDC

Station lists

Station details
prior (1.04m) - rad (4.62m)

To use the Scroll of the Scroll

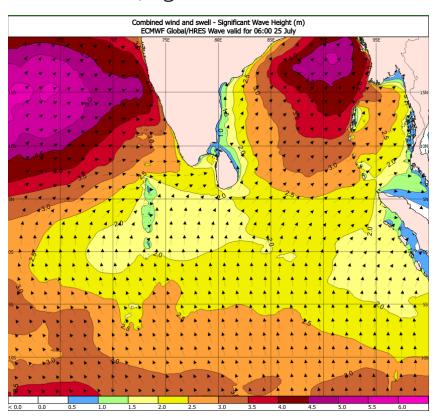
https://www.ioc-sealevelmonitoring.org/map.php

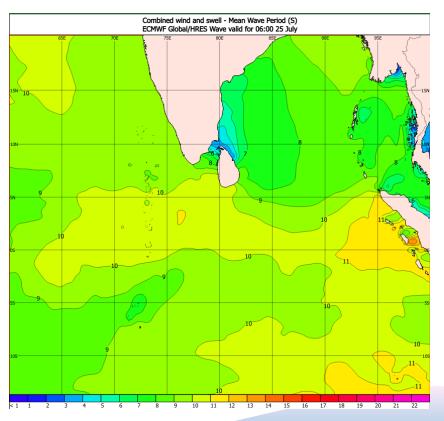






HRES-WAM (High RESolution WAve Model and wavewatch iii)





No observation networks ~ (only two tide gauges)

Need Observation Networks

No marine model/experts ~

Need Experts -> Trainings

No impacts thresholds for marine weather parameters ~

Need Studies -> Researches

Communication gap between DOM and ground level ~

Need Information -> Dissemination Procedure/

Mechanism



Thanks for Listening

SACHITH WICKRAMASURIYA

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