



Indian National Centre for Ocean Information Services (INCOIS)
Ministry of Earth Sciences (MoES), Govt. of India
Hyderabad

Press Release

**Swell Surge (Kallakadal) Warning to South Kerala, South Tamil Nadu and
Lakshadweep Islands for 15–16 October 2024**

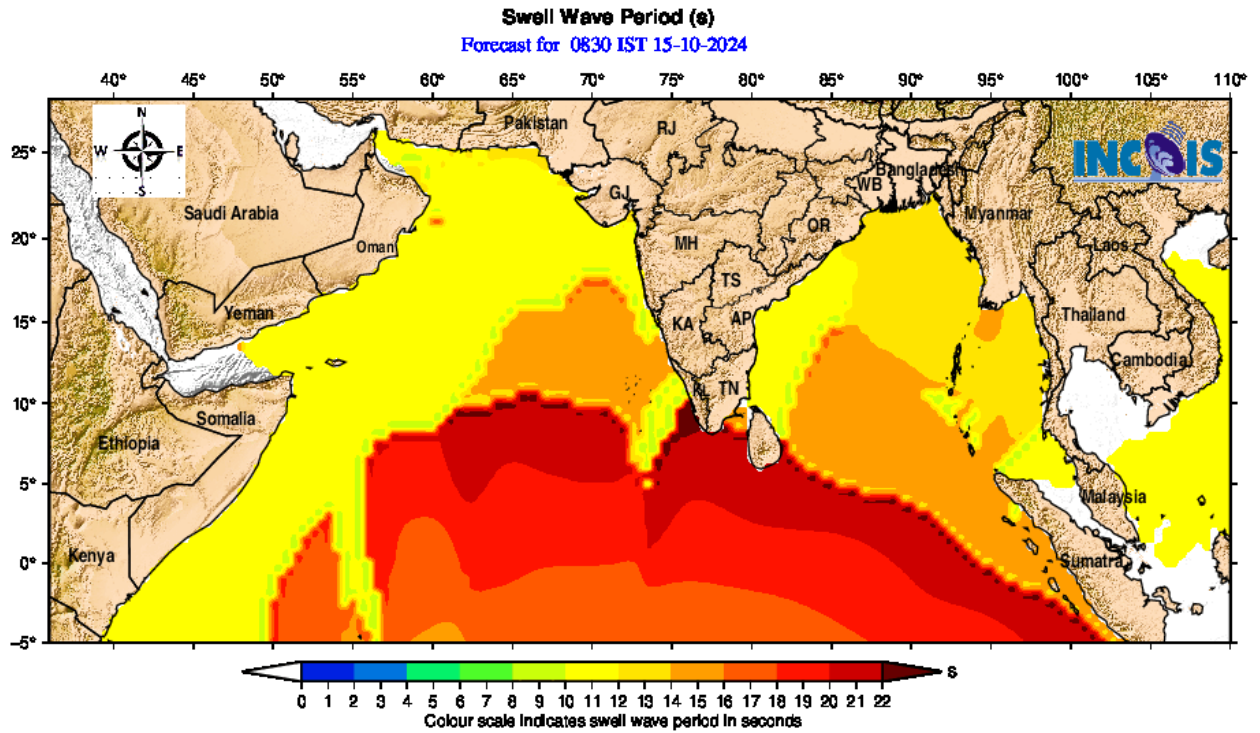
INCOIS provides forecasts on the state of the ocean for the seas surrounding India during extreme weather conditions like high wave/swell conditions, cyclones, etc. based on multi-model operational forecasting system built upon numerical ocean models assimilated with real time data from buoys deployed in the coastal waters as well as in the open ocean, even deep south in the southern Indian Ocean.

Swell Surge (Kallakadal) Warning/Alert to South Kerala and South Tamil Nadu for 15–16 October 2024 due to high energy swell waves that are approaching the Indian coast from distant southern Indian Ocean. The event started at approximately 10,000 km away from Indian coast on 11 October 2024 in the southern Indian Ocean (around 45°S and 60°E) and slowly moving towards northern Indian Ocean. This has caused the high energy swell propagation (~23 s) towards the Indian coastal regions which is expected to hit southern tip of India in the afternoon hours of 15 October 2024, with the maximum around evening hours. These long period swells combined with high tide conditions can cause coastal flooding in the low-lying areas of south Kerala, particularly districts of Thiruvananthapuram (Between *Pozhiyoor* to Anchuthengu) and Kollam (Between Iravipuram to *Alappad*) and South Tamil Nadu, particularly districts of Kanyakumari (Kolachel, Kurumpaynai), Thoothukudi (Between Periyathalai to Vembar) and Tirunelveli (Between Kuttapulli to Kooduthalai) and Lakshadweep islands starting from 02:30 pm of 15 October till 11:30 pm of 16 October 2024 peaking around 05:30 pm of 15 October 2024. The remaining coastal regions are under swell surge alert. The low-lying coastal areas are particularly vulnerable. We are presently monitoring the situation, and the updates will appear on the INCOIS website. The public is advised to check the INCOIS website at www.incois.gov.in/portal/osf/osf.jsp for further information and updates on the event.

Fishermen and coastal population are cautioned to be alert on surging of waves (gushing of sea water) intermittently in the nearshore/beach region, particularly in the low-lying areas. Small vessels not to ply nearshore. Boats may be anchored at a fair distance from each other, to avoid collision and damage. Total suspension of operational/recreational (all tourism) activities at beach/nearshore regions.

14th October 2024
INCOIS, Hyderabad

Swell Wave Periods:



Swell Wave Heights:

