

Swell surge red alert for Maharashtra, Goa, Tamil Nadu, Karnataka, Kerala, and Lakshadweep: Fishermen advised not to venture out

New Delhi, December 30, 2020 (Vigyan Samachar)

A **swell surge red alert** has been issued by the ESSO-Indian National Center for Ocean Information Services (INCOIS) for **Maharashtra, Goa, Tamil Nadu, Karnataka, Kerala, and Lakshadweep during the next 48 hours**. There is a possibility of surging of waves during the high tide times in the low-lying areas of the coasts during this period. Unlike normal wind waves, swell surges are surface gravity waves that frequently cause damage to the coastal region sometime causing flash floods and damage the boats and nets of the fishermen. **Fishermen are advised not to venture into this area during this period.**



What is Swell?

When wind blows across the water's surface usually far away from coastal region, friction occurs and energy is transferred from wind to water. The result is a rising crest that forms into a wave. Over time and distance, sustained wind strength and duration build up a large amount of energy beneath the ocean's surface, forming deeper waves known as swells. As they propagate along the interface between water and air they are referred to as surface gravity waves unlike wind waves, which are generated by the immediate local wind. Swell waves are generated by distant weather systems, where wind blows for a duration of time over a stretch of water.

INCOIS is also issuing a strong wind alert for **Comorin area on today, 30th December 2020** along with possibility of **surging of waves during the high tide times** in the low lying areas of the coasts during this period. **Fishermen are advised not to venture into this area during this period.**

As per INCOIS forecast, low lying areas of **Maharashtra** (Malvan, Munage, Phanase, Velas, Colaba, Gateway of India), **Goa** (Mormugoa, Panjim, Vasco da Gama), **Kerala** (Kollam, Alappuzha, Kochi, Ponnani, Kozhikode, Kannur, Kasargod), **Lakshadweep** (Amini, Kavaratti and Kiltan Islands), **Tamil Nadu** (Kanyakumari, Thoosthukudi, Ramanathapuram), and **Karnataka** (Udupi, Murudeswar, Gokarna, Mashem) to witness extremely **surges** during **next 48 hours**. INCOIS-IMD also issued an advisory that the **boats may be anchored at a fair distance from each other, to avoid collision and damage in above-mentioned areas.**

Fishermen are advised not to venture into these areas during this period.