



Ministry of Earth Sciences

India Meteorological Department

Meteorological Centre, Goa

NOWCAST ISSUED AT 2050 HRS IST DATED 23.11.2021 BY IMD GOA

Light to Moderate rainfall spells accompanied with thunder/lightning are very likely at isolated places over North Goa & South Goa districts during the next 3-4 hours.

At 2050 hrs, clouds are present over the taluka of Sattari . Clouds are generally moving in the Southwest direction.

Please avoid open areas/fields, finding shelter under trees, or other tall structures while lightning is taking place.

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Intensity of Rainfall		Probability of Occurrence (%)		Distribution of Rainfall		Intensity of Rainfall Spells	
Type	Amount (mm)			Category	% of stations	Terminology	Rainfall rate
Very Light	0.1 to 2.4	Likely	26- 50	Most Places	76 - 100%	Light Spell	<1 cm/hr
Light	2.5 - 15.5	Very Likely	51- 75	Many Places	51-75%	Moderate Spell	1-2 cm/hr
Moderate	15.6 - 64.4			A Few Places	26-50%	Intense Spell	2-3 cm/hr
Heavy	64.5 - 115.5	Most Likely	> 75	Isolated places	1-25%	Very Intense Spell	3-5 cm/hr
Very Heavy	115.6 - 204.4			Dry	0	Extremely Intense Spell	5-10 cm/hr
Extremely Heavy	≥ 204.5					Cloud Burst	>10 cm/hr

Suggested Actions

- Avoid working in open areas and fields during thundershowers.
- Avoid taking shelter under trees or tall structures in the time of thundershowers.
- Stay away from electric poles and weak structures while lightning and gusty wind is there along with rain.
- Turn off electrical-electronic appliances while lightning/gusty winds taking place.
- Please be updated with the forecasts/Nowcast issued by IMD.

Impact & Response matrix for Thunderstorm

Category/Wind Speed	Structures	Communication & Power	Road/Rail	Agriculture	Suggested Actions
Light Thunderstorm < 41 kmph (21 knots)	Nil	Nil	Nil	Nil	Nil
Moderate thunderstorms 41-61 kmph (22-33 knots)	Minor damage to loose/unsecured structures	Nil	Some breaches in Kutcha road due to flooding	Minor damage to Banana trees. Damage to ripe paddy crops	People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
Severe Thunderstorms 62-87 kmph (34-47 knots)	Damage to thatched huts	Minor damage to power and communication lines due to breaking of branches	Major damage to Kutcha and minor damage to Pucca roads	Some damage to paddy crops, banana, papaya trees and orchards	People are advised to take shelter in pucca structures and avoid taking shelter under trees. Farming operations to be temporarily suspended during occurrence of events. Also move away from electric poles and wires.
Very severe Thunderstorms	Major damage to thatched houses/hut. Roof tops may blow off. Unattached metal sheets may fly.	Minor damage to power and communication lines.	Major damage to Kutcha and some damage to Pucca roads. Flooding of escape routes.	Breaking of tree branches, uprooting of large avenue trees. Moderate damage to banana and papaya trees. Large dead limbs blown from trees.	People are advised to stay away from weak walls and structures and take shelter in pucca structures. Peoples in affected areas to remain indoors and avoid water bodies and flying projectiles. Farming operations to be temporarily suspended during occurrence of event.

Impact matrix for Lightning

Low cloud to ground Lightning probability (< 30% probability of lightning occurrence).

Moderate cloud to ground Lightning probability (30 - 60% probability of lightning occurrence)

High cloud to ground Lightning probability (> 60% probability of lightning occurrence)

Lightning Threat Level	Threat Level Descriptions
High	<p>"An high Threat to Life and Property from Lightning."</p> <p>Within 12 miles of a location, a moderate likelihood of CG lightning (or 60% thunderstorm probability), with storms capable of excessive CG lightning.</p> <p>AND/OR...a high likelihood of CG lightning (or 60% to 70% thunderstorm probability), with storms capable of frequent CG lightning.</p> <p>AND/OR...a very high likelihood of CG lightning (or 80% to 90% thunderstorm probability), with storms capable of occasional CG lightning.</p>
Moderate	<p>"A moderate Threat to Life and Property from Lightning."</p> <p>Within 12 miles of a location, a low likelihood of CG lightning (or 50% thunderstorm probability), with storms capable of excessive CG lightning.</p> <p>AND/OR...a moderate likelihood of CG lightning (or 50% thunderstorm probability), with storms capable of frequent CG lightning.</p> <p>AND/OR...a high likelihood of CG lightning (or 60% to 70% thunderstorm probability), with storms capable of occasional CG lightning.</p>
Low	<p>"A low Threat to Life and Property from Lightning."</p> <p>Within 12 miles of a location, a very low likelihood of CG lightning (or 40% thunderstorm probability), with storms capable of excessive CG lightning.</p> <p>AND/OR...a low likelihood of CG lightning (or 30% to 40% thunderstorm probability), with storms capable of frequent CG lightning.</p> <p>AND/OR...a moderate likelihood of CG lightning (or 50% thunderstorm probability), with storms capable of occasional CG lightning.</p>