

Government of India Earth System Science Organization Ministry of Earth Sciences India Meteorological Department

> Press Release Date: 9th June, 2021 Time of Issue: 1630 hrs IST

Subject: Southwest Monsoon advance and intense wet spell over east & adjoining central India and along the west coast during next 6-7 days.

Southwest Monsoon 2021:

- Southwest Monsoon has further advanced into entire central and some parts of north Arabian Sea, entire Konkan including Mumbai and most parts of interior Maharashtra, some parts of south Gujarat region, some more parts of Telangana and Andhra Pradesh, most parts of central Bay of Bengal and some more parts of North Bay of Bengal today, the 9th June, 2021.
- The Northern Limit of Monsoon (NLM) passes through lat. 21.5°N/ Long. 65°E, lat. 22.0°N/ Long. 70°E, Bulsar, Malegaon, Nagpur, Bhadrachalam,Tuni, lat. 19°N/ Long. 87.0°E, 22.5°N/89.5°E and 24.0°N/89.5°E and Bagdogra (Annexure 1).
- Southwest Monsoon is likely to advance into remaining parts of Arabian Sea and Maharashtra, some more parts of Gujarat and remaining parts of Telangana, Andhra Pradesh, some parts of Madhya Pradesh and East Uttar Pradesh, entire Odisha, West Bengal, Jharkhand, Chhattisgarh and Bihar during next 2-3 days.

Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today) (7 cm or more): Patan (Durg)-14; Nichlaul(Maharjganj),Tuting-13 each; Magarlod(dhamtari), Chanpaia, Hanamkonda-12; Ratnagiri, Chidambaram(Cuddalore), Panvel and Gangtok-11 each; Mathunagari, Paramaxudi (Ramanathapuram), Kankavli, Shriwardhan, Neora, Long Islands-10 each; Forbesganj, Port Blair, Gyaraspur (Vidisha), Tamta (Chindwara), Jintur(Parbhani), Vasai, Hut Bay-9 each; Alipurduar, Goalpara, Knnod(Dewas), Sehore(Dewas), Kesli (Sagar), South Binajpur, Sonepur, Colaba, and Multai-8; Harnai, Tadong, North Lakhimpur, Angul, Himdol, Khategaon(Dewas), JuJumura, Murud, Mormugaon and Bhainsdehi(Betul), Pangarh, Konni-7 each.

- A cyclonic circulation lies over Eastcentral & adjoining Northeast Bay of Bengal at middle tropospheric levels, under its influence, a Low Pressure Area is likely to form over North Bay of Bengal & neighbourhood around 11th June, 2021. It is likely to become more marked and move west-northwestwards across north Odisha, Jharkhand and north Chhattisgarh during subsequent 3 days. Under its influence; fairly widespread to widespread rainfall activity with isolated to scattered heavy to very heavy falls very likely over most parts of East India & adjoining Central India from 10th June onwards. Isolated extremely heavy falls (≥ 20 cm) also very likely over Odisha on 11th & 12th; over Chhattisgarh during 11th-13th; over Vidarbha & Telangana on 12th & 13th, June 2021.
- Due to the strengthening of westerly winds along the west coast in association with Low Pressure area;
 widespread rainfall activity with heavy to very heavy falls likely to continue over coastal districts of

Maharashtra during 9th to 15th June and likely over coastal Karnataka during 12th to 15th June, 2021. Isolated **heavy rainfall** is very likely over Kerala during 11th to 15th June, 2021. Isolated **extremely heavy falls** also very likely over Konkan on 9th and during 12th to 15th June, 2021.

- Due to west-northwestwards of Low Pressure area & its remnant, fairly widespread to widespread rainfall activity with isolated heavy falls is very likely over northwest India (excluding Rajasthan) during 1^{2th} to 1^{4th} June, 2021.
- Ahead of the monsoon onset, fairly widespread thunderstorm activity accompanied by frequent cloud to ground lightning is likely over Madhya Pradesh, Uttar Pradesh, Vidarbha, Chhattisgarh, Odisha, Bengal, Jharkhand and Bihar during the next 2-3 days.
- Multi-Hazard warnings for next 5 days are given at page 4:

Impact based warning & Action suggested for areas likely to be affected

Isolated to scattered heavy to very heavy falls very likely over most parts of East India & adjoining Central India from 10^{th} June onwards. Isolated extremely heavy falls (\geq 20 cm) also very likely over Odisha on 11^{th} & 12^{th} ; over Chhattisgarh during 11^{th} - 13^{th} ; over Vidarbha & Telangana on 12^{th} & 13^{th} , June 2021.

Isolated to scattered **heavy to very heavy falls** likely to continue over coastal districts of Maharashtra during 9th to 15th June and likely over coastal Karnataka during 12th to 15th June, 2021. Isolated **heavy rainfall** is very likely over Kerala during 11th to 15th June, 2021. Isolated **extremely heavy falls** also very likely over Konkan on 9th and during 12th to 15th June, 2021. Isolated **heavy falls** is also very likely over northwest India (excluding Rajasthan) during 12th to 14th June, 2021.

A. Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Mudslides(for plain areas) and Landslides (for hill and vulnerable areas)
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

B. Action Suggested

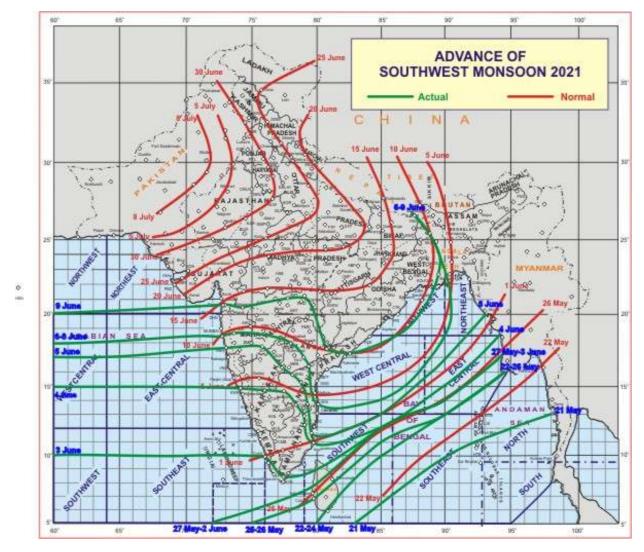
- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.

• Avoid staying in vulnerable structure.

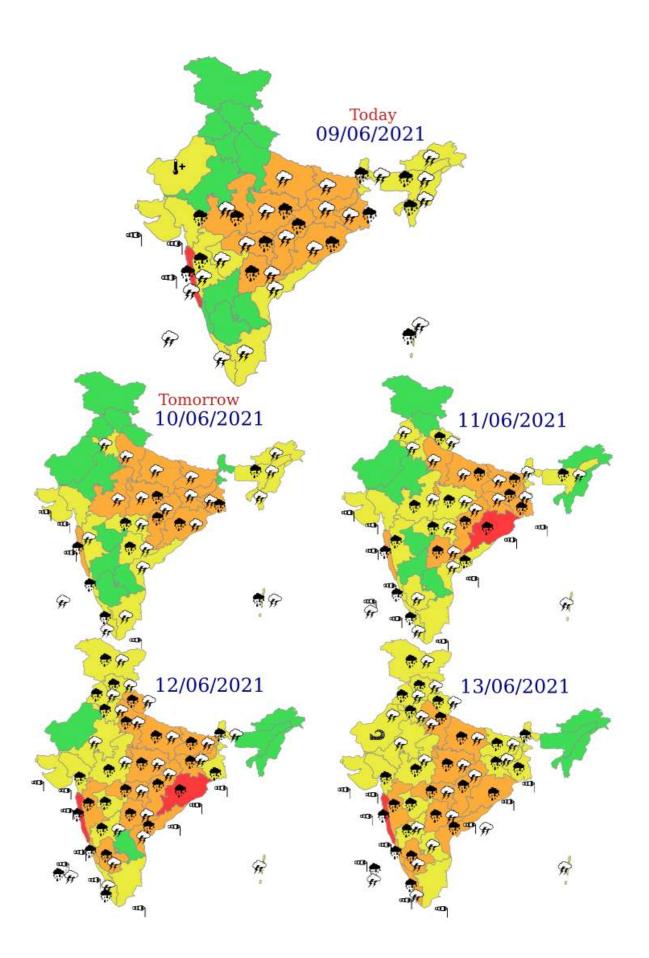
Ahead of the monsoon onset, fairly widespread thunderstorm activity accompanied by frequent cloud to ground lightning is likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Bengal, Jharkhand and Bihar during the next 2-3 days.

Impact information:

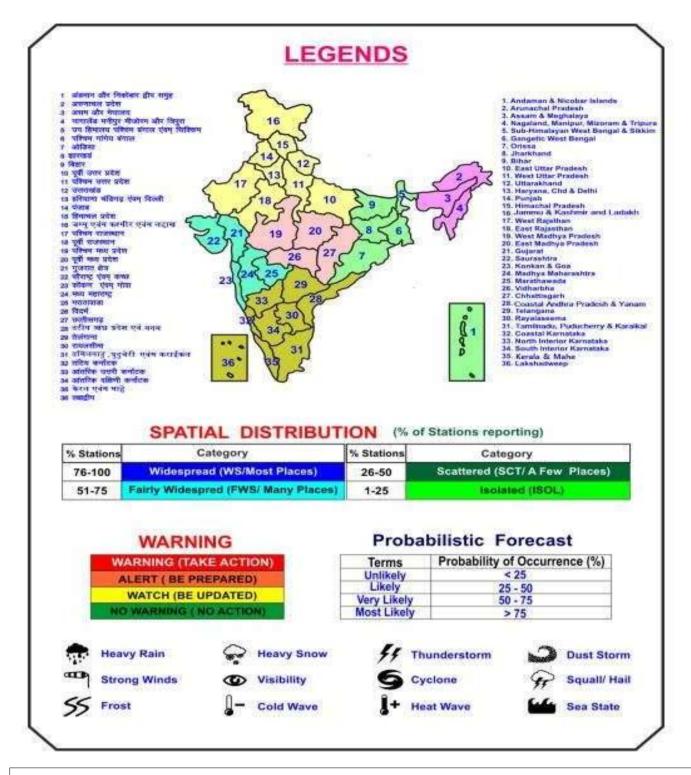
- > DO NOT take shelter under isolated trees.
- Immediately get out of and away from ponds, lakes, and outdoor watery area (e.g. paddy transplantation).
- Go indoors or seek safe pukka shelters after hearing thunder. Stay indoors for 30 minutes after hearing the last clap of thunder.
- > During travel, stay inside car or bus or train when thunderstorm occurs.
- Do not use electric/ electronic appliances.



Annexure 1



		EGENDS		
	WARNING	Probabili	istic Forecast	
	WARNING (TAKE ACTION)	Terms Probability of Occurrence (%)		
	ALERT (BE PREPARED)	Unlikely	< 25	
	WATCH (BE UPDATED)	Likely Very Likely	25 - 50 50 - 75	
	NO WARNING (NO ACTION)	Most Likely	> 75	
-10	Heavy: 64.5 to 115.5 mm/cm *			
Rain/ Snow *	Very Heavy: 115.6 to 204.4 mm/cm* Extremely Heavy: > 204.4 mm/cm *			
	When maximum temperature of a stu	ation reaches >40° C	for plains and >30° C for billy region	
j+ Heat Wave	When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly region: (a) Based on Departure from normal			
	Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.			
	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C			
	(b). Based on Actual maximum temperature			
	Heat Wave: When actual maximum temperature ≥45°C. Severe Heat Wave: When actual maximum temperature ≥47°C			
	(c). Criteria for heat wave for coasta	Contraction of the second s	1	
	When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C			
	When maximum temperature remain	ns 40°C		
1+	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.			
Warm Night	Severe Warm Night: When minimum temperature departure >6.4 °C.			
0	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions. (a). Based on departure			
	Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.			
	Severe Cold Wave: Minimum Temperature Departure from normal ≥ -6.5 °C			
9 <u>–</u>	(b) Based on actual Minimum Temperature (for Plains only)			
Cold Wave	Cold Wave : When Minimum Temperature is ≤ 4.0 °C			
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C			
	(c) For Coastal Stations			
	When Minimum Temperature departure is ≤ -4.5 °C or actual Minimum Temperature is ≤ 15 °C			
	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure			
4-	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.			
Cold Day	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C			
	Bharman at a well download		a sha ha i sa sa sa sa sa shuka kula sa sa sa	
-	Moderate Fog: When the visibility betwee		nd the horizontal visibility < 1km	
G	Dense Fog: when the visibility between 50			
Fog	Very Dense Fog: when the visibility < 50 n	netres		
44	Sudden electrical discharges manife		t (Lightning) and a sharp rumbling	
//	sound (thunder)	sted by a flash of ligh		
hunderstorm	sound (thunder)	sted by a flash of ligh		
hunderstorm	sound (thunder)			
hunderstorm Dust/Sand	An ensemble of particles of dust or s		ed to great heights by a strong and	
2	Sound (thunder) An ensemble of particles of dust or s		ed to great heights by a strong and	
Dust/Sand Storm	Sound (thunder) An ensemble of particles of dust or s		ed to great heights by a strong and	
Dust/Sand Storm	Sound (thunder) An ensemble of particles of dust or s turbulent wind.		ed to great heights by a strong and	
Dust/Sand Storm	sound (thunder) An ensemble of particles of dust or s turbulent wind. Ice deposits on ground [Air temperature ≤4*C (over Plains)]	sand energetically lifte		
Dust/Sand Storm	Sound (thunder) An ensemble of particles of dust or s turbulent wind. Ice deposits on ground Air temperature ≤4*C (over Plains) A strong wind that rises sudder	sand energetically lifte		
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Dust/Sand Storm	Sound (thunder) An ensemble of particles of dust or s turbulent wind. Ice deposits on ground Air temperature ≤4*C (over Plains) A strong wind that rises sudder	sand energetically lifte		
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Dust/Sand Storm	Sound (thunder) An ensemble of particles of dust or sturbulent wind. Ice deposits on ground Air temperature ≤4*C (over Plains) A strong wind that rises sudder Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph Very Severe: Wind speed 52-81 kmph Effect of various waves in the sea or Rough to very rough: Wind speed 41-62	sand energetically liften nly, lasts for atleas ver specific area kmph (22-33 knots) & Wave	t 1 minute.	
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Dust/Sand Storm	Sound (thunder) An ensemble of particles of dust or sturbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises sudder Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph Very Severe: Wind speed 62-87 kmph Effect of various waves in the sea or Rough to very rough: Wind speed 41-82 High to very high: Wind speed 63-117 km	sand energetically lifts hly, lasts for atleas ver specific area kmph (22-33 knots) & Wa ph (34-63 knots) & Wave 3 knots) & Wave height >1 (34-47 knots)	t 1 minute.	
Dust/Sand Storm	Sound (thunder) An ensemble of particles of dust or a turbulent wind. Ice deposits on ground Air temperature ≤4*C (over Plains) A strong wind that rises sudder Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph Very Severe: Wind speed 62-87 kmph Effect of various waves in the sea or Rough to very rough: Wind speed 63-117 km Phenomenal: Wind speed 62-87 kmph Severe Cyclonic Storm: Wind speed 68- Very Severe Cyclonic Storm: Wind speed 88- Very Severe Cyclonic Storm: Wind speed 88-	sand energetically lifts hly, lasts for atleas ver specific area kmph (22-33 knots) & Wa ph (34-63 knots) & Wave 3 knots) & Wave height >1 (34-47 knots) 117 kmph (48-63 knots) id 118-165 kmph (64 - 89	t 1 minute.	
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