

Voluntary Report – Voluntary - Public Distribution

Date: June 04,2020

Report Number: IN2020-0058

Report Name: Timely Arrival of Southwest Monsoon Promising for Kharif Crop

Country: India

Post: Mumbai

Report Category: Agriculture in the News, Agricultural Situation, Climate Change/Global Warming/Food Security, Cotton and Products, Grain and Feed, Oilseeds and Products, Market Development Reports, Agriculture in the Economy

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Report Highlights:

On June 1, the India Meteorological Department (IMD) announced that the Southwest Monsoon had set over Kerala coinciding with its historically normal date. IMD also published its second long-range forecast predicting a normal Southwest Monsoon (June to September) for 2020. The rainfall is likely to be 102 percent of the long period average (LPA). The impact of super cyclone Amphan on crops in Eastern India is under assessment by government agencies, as Western India prepares for Cyclone Nisarga.

General Information

Southwest Monsoon Onset

On June 1, the India Meteorological Department (IMD) announced that the Southwest Monsoon had set over the coast of the southern state of Kerala coinciding with its normal date. The IMD had earlier forecast the arrival of monsoon rains over Kerala on June 5, four days later than usual. The timely arrival of monsoon bodes well for the *Kharif 2020* crop that has faced delays due to labor shortages. The timely rains should provide adequate moisture, and accelerate the pace of planting across India as states gradually ease lockdown restrictions. For more details, please refer [IMD press release dated June 1, 2020](#).

Second stage Long Range Forecast

On June 1, 2020, the IMD published its [second long-range forecast](#) predicting a normal Southwest Monsoon for 2020. The rainfall is likely to be 102 percent of the long period average (LPA) with a model error of plus/minus four percent. There is a 41 percent probability for the monsoon to be normal (refer table 1). The fifty-year (1961-2010) LPA for the Southwest Monsoon rainfall is 88 cm (34.65 inches).

The monthly rainfall over the country is likely to be 103 percent of its LPA during July, and 97 percent of LPA during August, both with a model error of plus/minus 9 percent. IMD had issued the [first stage operational long-range](#) forecasts for the southwest monsoon season (June-September) rainfall over the country as a whole on April 15, 2020.

IMD forecasts rainfall to be 107 percent of the LPA over North-West India, 103 percent of LPA over Central India, 102 percent of LPA over South Peninsula, and 96 percent of LPA over North-East India, all with a model error of plus/minus 8 percent. Thus, monsoon rainfall is expected to be spatially well distributed.

Table 1. Probability Forecast for Southwest Monsoon 2020

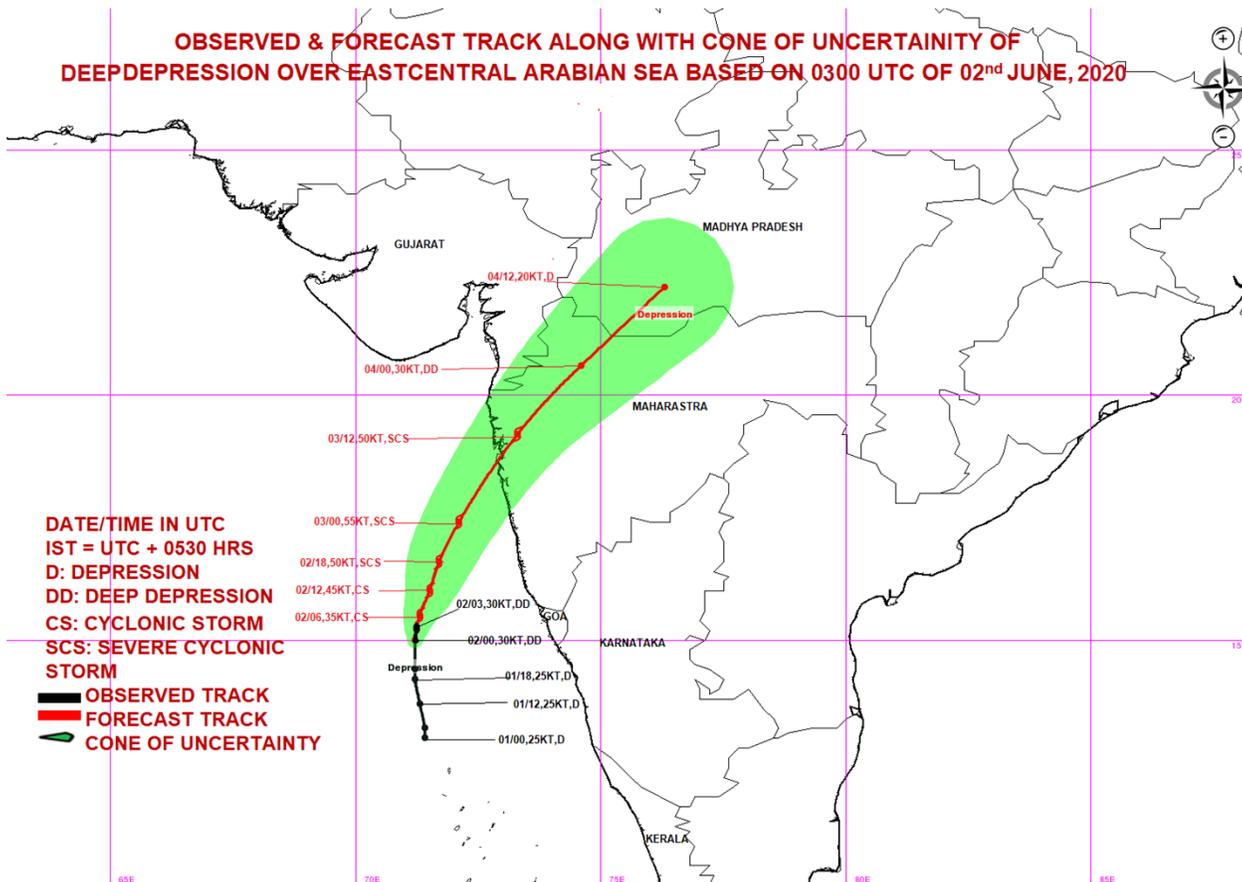
Category	Rainfall Range (% of LPA)	Forecast Probability (%)
Deficient	Less than 90	5
Below Normal	Between 90 - 96	15
Normal	Between 96 -104	41
Above Normal	Between 104 -110	25
Excess	Greater than 110	14

Source: Indian Meteorological Department, Ministry of Earth Sciences, Government of India

IMD Issues Cyclone Nisarga Warning for South Gujarat-North Maharashtra Coasts

The India Meteorological Department issued a warning for Cyclone Nisarga, which has turned into a depression in the Arabian Sea. It is expected to become a severe cyclonic storm before making landfall near Maharashtra and Gujarat on Wednesday June 3, 2020. Currently, the states of Maharashtra (Mumbai, Thane, Palghar, Raigad, Dhule, Nandurbar and Nashik districts), Gujarat, and Goa have been put on high alert. IMD forecasts light to moderate rainfall at most places, and extremely heavy falls at isolated places over north Konkan and north Madhya Maharashtra between June 3- 4, 2020.

On June 3, IMD forecasts light to moderate rainfall at most places, with isolated heavy to very heavy rainfalls very likely over south Gujarat state, Daman, Dadra, and Nagar Haveli, and with heavy to very heavy falls at a few places and extremely heavy falls at isolated places over south Gujarat state, Daman, Dadra, and Nagar Haveli on June 4. For more details, please refer [IMD Press Release dated June 1, 2020](#) and [IMD Bulletin dated June 2, 2020](#)



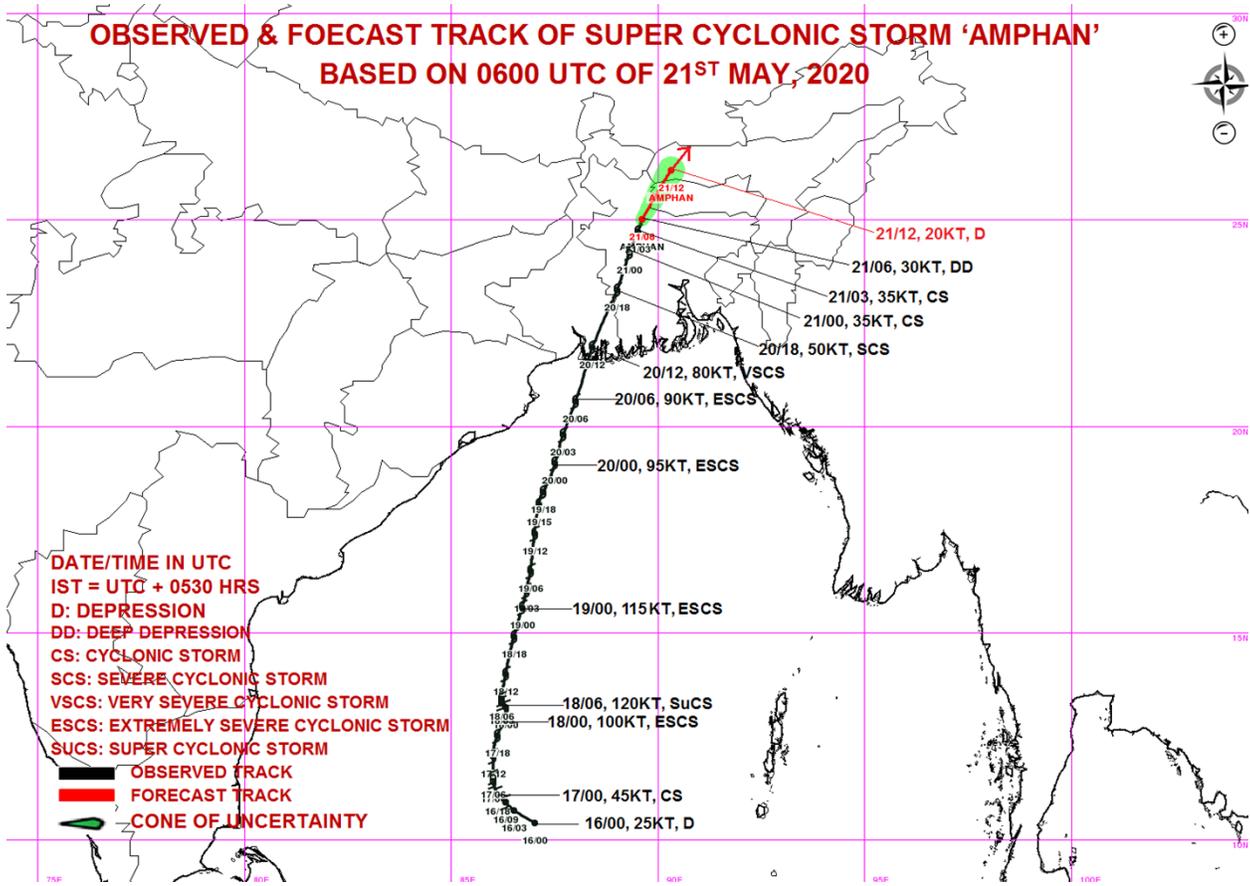
Source: Indian Meteorological Department, Ministry of Earth Sciences, Government of India

Super Cyclone Amphan

On May 20, the super cyclone *Amphan* made landfall in the state of West Bengal. Amphan rapidly weakened once inland and dissipated shortly thereafter. The coastal areas in Odisha and the state of West Bengal were affected by the cyclone. West Bengal, the epicenter of the cyclone's landfall, saw the most widespread damage from the cyclone. The storm is considered to be the strongest to have developed in the Bay of Bengal since 1999. The cyclone was categorized as a “Very Severe Cyclonic Storm” with wind speed of 75 – 80 miles per hour (120-130 kilometer per hour) gusting to 90 miles per hour (145 kilometer per hour). The storm also caused significant destruction in Bangladesh.

In the early hours on May 21, 2020, the storm continued to move North-northeastwards and crossed the West Bengal –Bangladesh border. The deep depression (remnant of Super Cyclonic Storm ‘AMPHAN’) had further weakened into a depression over Bangladesh and subsequently into a low-pressure area. As of May 21, 2020, the severe weather associated with the system had ceased. The Ministry of Home

Affairs planned to send teams to carry out an early assessment of damages and submit a report. Initial expectations are potential widespread damage to standing crops, plantations, orchards, falling of green coconuts, tearing of palm fronds, and blowing down of bushy trees like mango.



Source: Indian Meteorological Department, Ministry of Earth Sciences, Government of India



India Meteorological Department
Hydromet Division, New Delhi

STATE-WISE RAINFALL DISTRIBUTION

S NO	MET. SUBDIVISION/UT/STATE/DISTRICT	Day:31-05-2020				Period:01-03-2020 To 31-05-2020			
		ACTUAL (mm)	NORMAL (mm)	%DEP.	CAT.	ACTUAL (mm)	NORMAL (mm)	% DEP.	CAT.
REGION : EAST AND NORTH EAST INDIA									
1	ARUNACHAL PRADESH	1.1	12.8	-91%	LD	599.0	772.9	-22%	D
2	ASSAM	8.7	12.3	-29%	D	489.9	543.6	-10%	N
3	MEGHALAYA	18.0	17.7	2%	N	1291.4	754.1	71%	LE
4	NAGALAND	1.4	4.3	-68%	LD	270.5	374.5	-28%	D
5	MANIPUR	1.9	9.4	-79%	LD	216.2	358.8	-40%	D
6	MIZORAM	14.4	9.0	60%	LE	222.8	578.6	-61%	LD
7	TRIPURA	7.2	10.9	-34%	D	562.6	677.7	-17%	N
8	SIKKIM	4.9	9.8	-50%	D	664.3	609.9	9%	N
9	WEST BENGAL	12.0	5.2	130%	LE	382.2	235.8	62%	LE
10	JHARKHAND	4.8	1.7	185%	LE	218.6	83.3	162%	LE
11	BIHAR	9.4	1.8	422%	LE	182.5	81.7	123%	LE
REGION : NORTH WEST INDIA									
1	UTTAR PRADESH	6.1	0.4	1413%	LE	94.0	31.4	199%	LE
2	UTTARAKHAND	2.1	1.9	11%	N	238.4	155.3	54%	E
3	HARYANA	8.5	0.7	1113%	LE	118.5	38.8	205%	LE
4	CHANDIGARH (UT)	4.9	0.5	880%	LE	170.1	81.2	109%	LE
5	DELHI (UT)	4.7	0.6	687%	LE	102.1	51.0	100%	LE
6	PUNJAB	7.0	0.5	1292%	LE	131.6	55.1	139%	LE
7	HIMACHAL PRADESH	18.1	1.7	963%	LE	271.1	243.4	11%	N
8	JAMMU & KASHMIR	6.5	2.0	225%	LE	330.5	336.1	-2%	N
9	RAJASTHAN	6.5	0.8	711%	LE	44.9	21.0	114%	LE
REGION : CENTRAL INDIA									
1	ODISHA	1.4	1.6	-14%	N	265.4	128.4	107%	LE
2	MADHYA PRADESH	0.6	0.4	57%	E	51.4	17.5	194%	LE
3	GUJARAT	0.0	0.4	-100%	NR	2.6	5.0	-49%	D
4	DADAR & NAGAR HAVELI (UT)	0.0	3.3	-100%	NR	0.0	9.0	-100%	NR
5	DAMAN & DIU (UT)	0.0	2.1	-100%	NR	0.0	6.5	-100%	NR
6	GOA	0.3	8.6	-97%	LD	15.4	91.4	-83%	LD
7	MAHARASHTRA	0.0	1.3	-99%	LD	33.5	29.5	14%	N
8	CHHATTISGARH	0.1	0.5	-86%	LD	119.5	41.0	192%	LE
REGION : SOUTH PENINSULA									
1	ANDAMAN & NICOBAR (UT)	15.4	13.7	13%	N	266.1	466.8	-43%	D
2	ANDHRA PRADESH	0.7	1.9	-64%	LD	75.2	91.9	-18%	N
3	TELANGANA	0.1	0.9	-92%	LD	62.2	58.9	6%	N
4	TAMIL NADU	0.7	2.1	-64%	LD	77.6	126.5	-39%	D
5	PUDUCHERRY (UT)	1.6	0.5	213%	LE	56.5	100.4	-44%	D
6	KARNATAKA	3.0	3.5	-14%	N	149.6	116.8	28%	E
7	KERALA	15.0	11.3	33%	E	386.5	361.5	7%	N
8	LAKSHADWEEP (UT)	37.0	14.7	152%	LE	237.3	203.3	17%	N
COUNTRY :		3.9	2.4	62%		158.5	131.7	20%	

CATEGORYWISE DISTRIBUTION OF NO.OF STATES

CATEGORY	Day:31-05-2020	Period:01-03-2020 To 31-05-2020
	NO.OF STATES	NO.OF STATES
Large Excess	14	13
Excess	2	2
Normal	5	10
Deficient	3	7
Large Deficient	9	2
NoRain	3	2
NoData	0	0



SUBDIVISION-WISE RAINFALL DISTRIBUTION

S NO	MET. SUBDIVISION/UT/STATE/DISTRICT	Day:31-05-2020				Period:01-03-2020 To 31-05-2020			
		ACTUAL (mm)	NORMAL (mm)	%DEP.	CAT.	ACTUAL (mm)	NORMAL (mm)	% DEP.	CAT.
	REGION : EAST AND NORTH EAST INDIA	7.4	7.4	1%		401.2	376.8	6%	
1	ARUNACHAL PRADESH	1.1	12.8	-91%	LD	599.0	772.9	-22%	D
2	ASSAM & MEGHALAYA	10.7	13.4	-20%	D	663.5	587.8	13%	N
3	N M M T	5.1	8.2	-37%	D	286.7	483.0	-41%	D
4	SHWB & SIKKIM	8.3	10.1	-17%	N	506.0	442.9	14%	N
5	GANGETIC WEST BENGAL	12.8	3.5	266%	LE	358.0	185.8	93%	LE
6	JHARKHAND	4.8	1.7	185%	LE	218.6	83.3	162%	LE
7	BIHAR	9.4	1.8	422%	LE	182.5	81.7	123%	LE
	REGION : NORTH WEST INDIA	6.9	1.1	530%		149.4	114.4	31%	
1	EAST UTTAR PRADESH	7.8	0.4	1843%	LE	97.6	32.4	201%	LE
2	WEST UTTAR PRADESH	3.5	0.4	785%	LE	88.5	29.9	196%	LE
3	UTTARAKHAND	2.1	1.9	11%	N	238.4	155.3	54%	E
4	HAR. CHD & DELHI	8.4	0.7	1102%	LE	118.3	39.3	201%	LE
5	PUNJAB	7.0	0.5	1292%	LE	131.6	55.1	139%	LE
6	HIMACHAL PRADESH	18.1	1.7	963%	LE	271.1	243.4	11%	N
7	JAMMU & KASHMIR	6.5	2.0	225%	LE	330.5	336.1	-2%	N
8	WEST RAJASTHAN	7.1	1.0	613%	LE	44.7	22.5	99%	LE
9	EAST RAJASTHAN	5.7	0.4	1318%	LE	45.2	19.0	138%	LE
	REGION : CENTRAL INDIA	0.4	0.9	-58%		76.5	37.5	104%	
1	ODISHA	1.4	1.6	-14%	N	265.4	128.4	107%	LE
2	WEST MADHYA PRADESH	0.9	0.5	81%	LE	27.4	12.9	113%	LE
3	EAST MADHYA PRADESH	0.3	0.3	-11%	N	82.7	23.6	250%	LE
4	GUJARAT REGION	0.0	0.6	-100%	NR	4.3	6.3	-31%	D
5	SAURASHTRA & KUTCH	0.0	0.3	-100%	NR	1.1	4.0	-73%	LD
6	KONKAN & GOA	0.0	5.2	-99%	LD	12.2	36.0	-66%	LD
7	MADHYA MAHARASHTRA	0.0	1.2	-100%	NR	32.6	32.5	0%	N
8	MARATHWADA	0.0	0.8	-100%	NR	32.7	27.4	19%	N
9	VIDARBHA	0.0	0.6	-94%	LD	41.8	27.4	53%	E
10	CHHATTISGARH	0.1	0.5	-86%	LD	119.5	41.0	192%	LE
	REGION : SOUTH PENINSULA	2.3	2.9	-20%		116.6	121.3	-4%	
1	A & N ISLAND	15.4	13.7	13%	N	266.1	466.8	-43%	D
2	COASTAL AP and YANAM	0.7	1.4	-48%	D	82.3	98.7	-17%	N
3	TELANGANA	0.1	0.9	-92%	LD	62.2	58.9	6%	N
4	RAYALASEEMA	0.6	2.4	-74%	LD	65.3	82.1	-20%	D
5	TN PUDU and KARAICAL	0.7	2.0	-63%	LD	77.5	126.4	-39%	D
6	COASTAL KARNATAKA	10.0	9.0	11%	N	171.9	155.7	10%	N
7	N. I. KARNATAKA	0.6	1.9	-66%	LD	111.8	80.0	40%	E
8	S. I. KARNATAKA	3.6	3.6	1%	N	177.5	140.4	26%	E
9	KERALA & MAHE	15.0	11.3	33%	E	386.5	361.5	7%	N
10	LAKSHADWEEP	37.0	14.7	152%	LE	237.3	203.3	17%	N
	COUNTRY :	3.9	2.4	62%		158.5	131.7	20%	

CATEGORYWISE NO.OF SUBDIVISIONS AND % AREA(SUBDIVISIONAL)OF THE COUNTRY

CATEGORY	Day:31-05-2020		Period:01-03-2020 To 31-05-2020	
	NO.OF SUBDIVISIONS	SUBDIVISIONAL %AREA OF COUNTRY	NO.OF SUBDIVISIONS	SUBDIVISIONAL %AREA OF COUNTRY
Large Excess	13	42%	13	46%
Excess	1	1%	4	10%
Normal	7	15%	11	26%
Deficient	3	8%	6	14%
Large Deficient	8	23%	2	4%
NoRain	4	11%	0	0%

Attachments:

No Attachments.