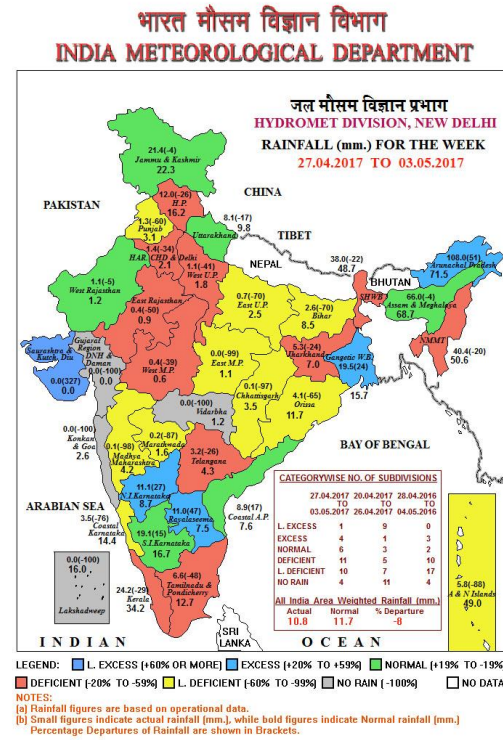


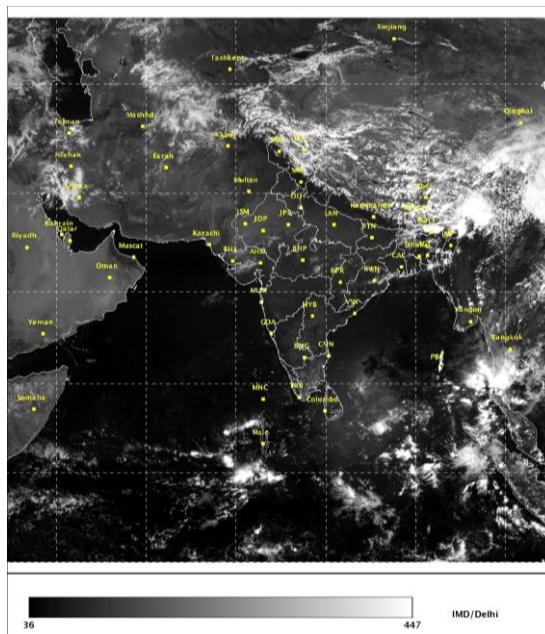
## Inputs for Krishi Darshan, New Delhi dated 05.05.2017

### Rainfall map for the week ending 03.05.2017



- ◆ **Large Excess Rain:** Saurashtra & Kutch.
- ◆ **Excess Rain:** Arunachal Pradesh, Gangetic West Bengal, North Interior Karnataka and Rayalaseema.
- ◆ **Normal Rain:** Assam & Meghalaya, Jammu & Kashmir, Uttarakhand, West Rajasthan, Coastal Andhra Pradesh and South Interior Karnataka.
- ◆ **Rainfall was Deficient / Low Deficient / Dry:** Rest of the region.

### Satellite image 0600 UTC Dated 05.05.2017



## Weather Forecast for next 5 days valid upto 0830 hours of 10<sup>th</sup> May, 2017

- Meteorological sub-division wise detailed 5 day rainfall forecast is given below.
- Maximum temperatures very likely to rise by about 2°C over northwest and central India during next 2-3 days.
- Duststorm/Thunderstorm likely at isolated places over Rajasthan during next 24 hours.
- No significant change in maximum temperatures over rest parts of country during next 2-3 days.

### 5 Day Rainfall Forecast (Mid day)

5<sup>th</sup> May 2017

Met-Sub-Division	05 May	06 May	07 May	08 May	09 May
1. Andaman & Nicobar Islands	SCT	SCT	FWS	SCT	SCT
2. Arunachal Pradesh	WS	FWS	SCT	SCT	SCT
3. Assam & Meghalaya	WS	FWS	FWS	SCT	SCT
4. N. M. M. & T.	SCT	FWS	FWS	SCT	SCT
5. S.H. West Bengal & Sikkim	SCT	SCT	FWS	FWS	FWS
6. Gangetic West Bengal	ISOL	ISOL	ISOL	SCT	FWS
7. Orissa	ISOL	ISOL	ISOL	ISOL	ISOL
8. Jharkhand	ISOL	ISOL	DRY	ISOL	ISOL
9. Bihar	DRY	ISOL	ISOL	SCT	ISOL
10. East Uttar Pradesh	DRY	DRY	DRY	ISOL	SCT
11. West Uttar Pradesh	DRY	DRY	DRY	ISOL	ISOL
12. Uttarakhand	ISOL	ISOL	ISOL	ISOL	SCT
13. Haryana, Chd & Delhi	DRY	DRY	DRY	ISOL	ISOL
14. Punjab	DRY	DRY	DRY	ISOL	ISOL
15. Himachal Pradesh	ISOL	ISOL	ISOL	SCT	SCT
16. Jammu & Kashmir	ISOL	ISOL	ISOL	SCT	SCT
17. West Rajasthan	DRY	DRY	DRY	ISOL	ISOL
18. East Rajasthan	DRY	DRY	DRY	ISOL	ISOL
19. West Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
20. East Madhya Pradesh	ISOL	ISOL	DRY	DRY	DRY
21. Gujrat Reaion	DRY	DRY	DRY	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	ISOL	ISOL	DRY	DRY	DRY
24. Madhya Maharashtra	ISOL	ISOL	ISOL	DRY	DRY
25. Marathwada	SCT	ISOL	ISOL	DRY	ISOL
26. Vidharbha	ISOL	ISOL	ISOL	ISOL	ISOL
27. Chhattisgarh	ISOL	ISOL	ISOL	ISOL	ISOL
28. Coastal Andhra Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
29. Telangana	ISOL	ISOL	DRY	DRY	ISOL
30. Rayalaseema	ISOL	DRY	DRY	ISOL	ISOL
31. Tamilnadu & Puducherry	ISOL	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	ISOL	ISOL	ISOL	ISOL	ISOL
33. North Interior Karnataka	ISOL	ISOL	ISOL	ISOL	ISOL
34. South Interior Karnataka	SCT	SCT	SCT	SCT	SCT
35. Kerala	SCT	SCT	SCT	SCT	SCT
36. Lakshadweep	DRY	DRY	DRY	DRY	DRY

% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

### Weather Warning during next 5 days

- **05 May (Day 1):**
  - Thunderstorm accompanied with squall and hail very likely at isolated places over Marathwada and Assam & Meghalaya.
  - Thunderstorm accompanied with squall very likely at isolated places over South Interior Karnataka, Kerala, South Madhya Maharashtra and Nagaland, Manipur, Mizoram & Tripura.
  - Thunderstorm accompanied with gusty winds very likely at isolated places over Chhattisgarh, Vidarbha, Odisha, Coastal Karnataka, north Interior Karnataka, north Coastal Andhra Pradesh, Telangana, Rayalaseema and Interior Tamilnadu.
  - Heavy rainfall very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- **06 May (Day 2):**
  - Thunderstorm accompanied with squall very likely at isolated places over South Interior Karnataka and Kerala.
  - Thunderstorm accompanied with gusty winds very likely at isolated places over North Interior Karnataka, Coastal Karnataka, North Coastal Andhra Pradesh, South Madhya Maharashtra, Marathwada, Chhattisgarh and Vidharbha.
  - Heavy rain very likely at isolated places over Assam & Meghalaya.
- **07 May (Day 3):**
  - Thunderstorm accompanied with squall and hail very likely at isolated places over Sub Himalaya West Bengal & Sikkim.
- **08 May (Day 4):**
  - Thunderstorm accompanied with squall and hail very likely at isolated places over Sub Himalayan West Bengal & Sikkim and Jharkhand.
  - Thunderstorm accompanied with squall very likely at isolated places over Odisha, Gangetic West Bengal, Bihar and East Uttar Pradesh.
- **09 May (Day 5):**
  - Thunderstorm accompanied with squall very likely at isolated places over Uttar Pradesh.

### Weather Outlook for subsequent 2 days from 10<sup>th</sup> to 12<sup>th</sup> May, 2017

- Rain/thundershower very likely at many places over northeastern states; at a few places over adjoining East India and over south Peninsular India and at isolated places over western Himalayan region.

### Executive Summary

- **SOUTH INDIA**
  - As thunderstorm accompanied with squall very likely at isolated places over **South Interior Karnataka and Kerala** on 5<sup>th</sup> and 6<sup>th</sup> May, provide support to banana, young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds. Keep harvested produce at safer places.
  - As thunderstorm accompanied with gusty winds very likely at isolated places over **North Interior Karnataka, Coastal Karnataka and North Coastal Andhra Pradesh** on 5<sup>th</sup> and 6<sup>th</sup> and over **Telangana, Rayalaseema and Interior Tamilnadu** on 5<sup>th</sup> May, provide support to young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds. Undertake propping up in sugarcane.
  - In High Altitude Tribal Zone of **Andhra Pradesh**, as there is forecast of rainfall, undertake summer ploughings and sowing of green manure crops and continue providing irrigation to maize crop (silking to cob development stage).



- In **North Telangana Zone**, continue harvesting of matured rice and sesamum. Apply light irrigation to all vegetables, mango.
- In the Western Zone of **Tamil Nadu**, since dry weather is continuing with high temperature, provide adequate irrigation to recently sown sorghum and other irrigated crops. Undertake weeding in irrigated cumbu and provide irrigation after two days. Considering the present dry weather and based on the capsule maturity of sesame, harvest may be done.
- In Thiruvananthapuram district of the Southern Zone of **Kerala**, undertake nursery preparation for kharif rice crop, planting of brinjal, bhindi and chilli and continue planting of bananas (poovan, njalippoovan, robusta, and palayankodan varieties).
- In North Dry Zone of **Karnataka**, undertake mulching using dry leaves and grass in sugarcane to conserve soil moisture. Undertake hoeing in inter row spacing to create dust mulch to break soil capillaries for checking surface moisture loss. If there is scarcity of water, apply irrigation in alternate furrows in sugarcane.

- **NORTH EAST INDIA**

- As thunderstorm accompanied with squall and hail very likely at isolated places over **Assam & Meghalaya** on 5<sup>th</sup> May, use hail net or hail cap for orchard crops and fruit vegetables to protect from mechanical damage, provide support to banana, young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds. Keep harvested produce at safer places.
- As thunderstorm accompanied with squall very likely at isolated places over **Nagaland, Manipur, Mizoram & Tripura** on 5<sup>th</sup> May, provide support to banana, young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds. Keep harvested produce at safer places.
- As rain/thundershowers likely at most/many places over **Arunachal Pradesh** on 5<sup>th</sup> and 6<sup>th</sup>, over **Assam & Meghalaya** from 5<sup>th</sup> to 7<sup>th</sup> and at many places over **Nagaland, Manipur, Mizoram & Tripura** on 6<sup>th</sup> and 7<sup>th</sup> May, along with heavy rain very likely at isolated places over **Assam & Meghalaya** on 5<sup>th</sup> and 6<sup>th</sup> and over **Arunachal Pradesh** on 5<sup>th</sup> May, postpone irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Provide adequate drainage in standing crops and vegetables to avoid water stagnation..
- In **Arunachal Pradesh**, continue planting of ginger/turmeric, sowing of maize, pea and nursery sowing/transplanting of *jhum* rice after current spells of heavy rain. Adopt sowing of leguminous crops like cowpea, French bean, soybean etc. at 2-3 rows across the slope of *jhum* field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. Undertake sowing of finger millet after current spells of heavy rain.
- In Hill Zone of **Assam**, there is chance of attack of borer pest in sugarcane, summer green gram and black gram. Undertake precautionary measures against borer pest.
- In Lower Brahmaputra Valley Zone of **Assam**, spray Carbendazim @ 1 g/litre at tillering stage followed by two sprayings of Ediphenphos @ 1ml/litre at panicle initiation against blast attack in summer rice (early *ahu*) after current spell of rain.
- In **Nagaland**, continue transplanting of brinjal. Continue sowing of green manure crop is advised in those field where harvesting of *rabi* crop is completed. Sowing of cluster bean, daincha, etc. may be done for green manure. For proper germination and growth of the crop soil should have sufficient moisture.
- In **Manipur**, continue main land preparation for main *kharif* rice and *kharif* maize. Continue nursery raising for main *kharif* rice. Raise community nursery in upland area/terrace so that it may be least affected with the heavy rains. Continue land preparation for sowing of soybean, groundnut and blackgram and harvesting of matured cob of *rabi* maize. Undertake land preparation and sowing of *kharif* maize and planting of ginger/turmeric.
- In **Mizoram**, continue sowing of maize (*jhum*), nursery sowing of pre-*kharif* rice, *jhum* rice, okra, cow pea and planting of ginger and turmeric.
- In **Tripura**, complete land preparation of *jhum* rice at the earliest. Maintain standing water level in the fields of *boro*

rice and maintain moisture in the field of cowpea at pod formation stage, *rabi* maize, urd/green gram at grain filling stage.

- **WEST INDIA**

- As thunderstorm accompanied with gusty winds very likely at isolated places over **Vidarbha** on 5<sup>th</sup> and 6<sup>th</sup>, over **South Madhya Maharashtra and Marathwada** on 6<sup>th</sup> May, provide support to young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds. Undertake propping up in sugarcane.
- As thunderstorm accompanied with squall very likely over **South Madhya Maharashtra** on 5<sup>th</sup> May, provide support to banana, young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds.
- As thunderstorm accompanied with squall and hail very likely at isolated places over **Marathwada** on 5<sup>th</sup> May, use hail net or hail cap for orchard crops and fruit vegetables to protect from mechanical damage, provide support to banana, young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds.
- In **Konkan**, plough the fields and make arrangement for cultural operations for *kharif* season and preparation of rice nursery. Harvest the mature mango fruits before 1000 hours in the morning and after 1600 hours in the evening at 80 to 85% maturity. As dry weather is prevailing and likely to prevail for next 5 days provide shade and support to newly planted mango grafts. Also give frequent water to nursery grafts/plants.
- In **Madhya Maharashtra**, as dry weather is prevailing and likely to continue apply irrigation in vegetables and orchards. Also apply mulch with crop residue or plastic sheet to vegetables and orchards. Summer groundnut is at grain filling and maturity stage. Reduce the intervals between two irrigation & irrigation should be given during evening hours. As dry weather is prevailing irrigate sugarcane crop at an interval of 8 to 10 days. If there is shortage of water irrigate the alternate furrow. Cultivation of ginger should be continued upto last week of May.
- In **Marathwada**, as dry weather is likely to continue, irrigation should be done in orchards. Also apply organic mulch in orchards. Earthing-up should be done in 16 to 18 weeks old sugarcane crop. Apply fertilizer dose and irrigate the crop. In vegetable crops use shade net around the field to protect the crop from scorching sun. Irrigation should be done in summer bajra, sown as fodder crop.
- In **Vidarbha**, summer rice is at flowering and panicle initiation stage. Apply 25 kg urea per hectare at this stage and maintain water level upto 2 to 3 cm in the field. Groundnut crop is at flowering and pegging stage, avoid water stress in those stages otherwise yield may be affected. Summer moong bean is at flowering and pod formation stage, irrigate the crop at an interval of 6-9 days.
- In **South Gujarat Zone**, to control water evaporation from sugarcane field, spread dry leaves of sugarcane in between two rows of sugarcane. Deep ploughing of fields is advised to destroy eggs and pupating stages of insects and weed seeds.
- In **North Saurashtra Zone of Gujarat**, in view of prevailing high temperature, apply irrigation in groundnut (pegging /pod formation stage), vegetable crops and fodder crops at regular intervals.

- **EAST INDIA**

- As thunderstorm accompanied with gusty winds very likely at isolated places over **Chattisgarh** on 5<sup>th</sup> May, provide support to young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds.
- As thunderstorm accompanied with squall and hail very likely at isolated places over **Sub-Himalayan West Bengal & Sikkim** on 7<sup>th</sup> and 8<sup>th</sup> and over **Jharkhand** on 8<sup>th</sup> May, use hail net or hail cap for orchard crops and fruit vegetables to protect from mechanical damage, provide support to banana, young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds. Keep harvested produce at safer places.
- As thunderstorm accompanied with squall very likely at isolated places over **Odisha, Gangetic West Bengal and Bihar** on 8<sup>th</sup> May, provide support to banana, young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds.

- As rain/thundershowers likely at many places over **Sub-Himalayan West Bengal & Sikkim** from 7<sup>th</sup> to 9<sup>th</sup> and over **Gangetic West Bengal** on 9<sup>th</sup>, over **Andaman & Nicobar Islands** on 7<sup>th</sup> May, postpone irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Postpone harvesting of crops and keep harvested produce at safer places.
- In **Odisha**, due to dry weather and rise in temperature, apply irrigation in maize and sunflower in North Eastern Coastal Plain Zone, complete sowing of cowpea in North Eastern Ghat Zone and in East and South Eastern Coastal Plain Zone, continue sowing of summer vegetables.
- In the Hill Zone of **West Bengal**, continue planting of turmeric and ginger on raised bed to avoid stagnation of water and continue pit preparation for orchards and for existing trees of mandarin orange, foliar spraying of Zinc sulphate 0.5% and Borax @ 0.25% should be given at least three times at 10-15 days intervals.
- In North East Alluvial Zone of **Bihar**, due to frequent rainfall, irregular eye to boat shaped darker lesions may appear on the leaf sheath, spray of Validamycin @ 2.5 ml/L of water. If leaves are yellowish with rusted surface then spray of mixture of ZnSo<sub>4</sub> (21%) @ 0.5% + urea (2%).
- In Central and North Eastern Plateau Zone of **Jharkhand**, summer rice crop is now in flowering to milking stage at this stage water should be maintained in the field. To prevent from Gundhi bug insect apply @ Quinalphos 1.5% dust 10 kg/acre.

#### • **CENTRAL INDIA**

- Thunderstorm accompanied with gusty winds very likely at isolated places over **Chhattisgarh** on 5<sup>th</sup> and 6<sup>th</sup> May, provide support to young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds. Keep harvested produce at safer places.
- In Satpura Plateau Zone of **Madhya Pradesh**, as dry weather would prevail, apply irrigation in moong and urad. Apply irrigation in sugarcane and continue weeding. Apply irrigation in vegetables in Nimar Valley Zone and in moong in Grid Zone.
- In Central Narmada Valley Zone of **Madhya Pradesh**, apply irrigation in vegetables and moong. Apply irrigation in sugarcane and undertake earthing up. Continue transplanting of chilli in main fields.
- In North Hill Zone of **Chhattisgarh**, as temperature is increasing, apply irrigation in summer rice, sugarcane and summer moong and vegetable crops as per requirement. Undertake intercultural operations in vegetables. Continue deep summer ploughing in vacant fields and keep inputs ready for *kharif* rice.

#### • **NORTH INDIA**

- As thunderstorm accompanied with squall very likely at isolated places over east **Uttar Pradesh** on 8<sup>th</sup> May and over **Uttar Pradesh** on 9<sup>th</sup> May, provide support to banana, young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds.
- In **Jammu, Kathua, Samba and Reasi districts** of Sub Tropical Zone, complete harvesting of wheat at the earliest to avoid loss due to shattering of grains. Apply irrigation in mash and moong as per requirement. Complete harvesting of *rabi* pulses (pea, gram, lentil etc.) in clear weather. Continue sowing of diancha for green manure @ 62.5 kg/ha in fields where rice has to be taken during *kharif* in order to maintain the soil fertility especially in rice –wheat system.
- In Udham Singh Nagar district of Bhabar and Tarai Zone of **Uttarakhand**, complete harvesting of matured crops like lentil, gram and wheat and barley in clear weather. If irrigation facility is available, then undertake sowing of dhaincha and Sanai, after harvesting the matured crops. Complete harvesting of matured pea and sowing of turmeric, ginger and arbi.
- In Mid Hills Sub-Humid Zone of **Himachal Pradesh**, in Solan, Shimla, Bilaspur, Sirmaur districts, undertake sowing of bitter gourd, cucumber and pumpkin. Undertake sowing of ginger at the distance of 30 x 20 cm. Undertake sowing of lady finger at the distance of 60 x 20 cm. Treat the soil from cut worm in tomato plantation, apply Chlorpyrifos @ 20

ml per 10 litres of water around the plantation area.

- In Western Plain Zone of **Punjab**, continue harvesting of matured wheat crop. Continue land preparation and sowing of cotton.
- In Western Zone of **Haryana**, continue harvesting of matured early sown mustard and wheat crop and apply the irrigation in late sown wheat crop. Continue sowing of ladyfinger, bottle gourd, cucumber, ridge gourd and summer radish and apply irrigation to planted vegetable crops. Continue sowing of Desi cotton.
- In **New Delhi**, continue sowing of okra. Seed rates should be 10-15 kilogram per acre. Continue sowing of French bean, cluster bean, summer radish as present temperature is suitable for germination of seeds. Continue transplanting of young seedlings of brinjal and chilli. Complete sowing of green gram and black gram. Continue harvesting of matured mustard and wheat. Continue direct sowing of amaranthus, bhindi, bottle gourd, hybrid cluster bean and summer radish.
- In Eastern plain Zone of **Uttar Pradesh**, undertake sowing of green fodder as dhaincha and in Western Plain Zone, apply light irrigation in all vegetable and fodder crops. Irrigation should be done in the morning or evening hours as per requirement. Apply light irrigation in the mature onion and garlic crops one week before digging. Keeping in view of forecasted high temperature, farmers are advised for harvesting of mature vegetables at morning and evening and after harvesting of crops keep it in the shade.
- In Jaipur, Ajmer, Tonk and Dausa districts of Semi-Arid Eastern Plain Zone of **Rajasthan**, Undertake picking of summer watermelon and muskmelon. Undertake field preparation for sowing of cotton crop.