



**Summary of Agromet Advisory Services for different States of the country**  
**Issued by**  
**Agricultural Meteorology Division, India Meteorological**  
**Department, Pune, India**

**Thursday, 3<sup>rd</sup> May, 2007**

(For the period 3<sup>rd</sup> May to 7<sup>th</sup> May, 2007)

The extended version of the bulletin is also available at <http://imdagramet.org>

**North West India (Haryana, Punjab, Rajasthan, Uttar Pradesh, Delhi, Himachal Pradesh, Jammu & Kashmir and Uttarakhand)**

**Punjab**

Heat wave conditions prevailed over many parts of the State on 30<sup>th</sup> May, in some parts on 1<sup>st</sup> and 2<sup>nd</sup> May. Weather remained dry in the State during the period.

Isolated duststorm / thunderstorms are likely over the State.

**Advisories**

- Heat wave conditions prevailed over many parts of the State on 30<sup>th</sup> April, in some parts on 1<sup>st</sup> and 2<sup>nd</sup> May, weather remained dry in most of the districts for the last two weeks and only isolated duststorm / thunderstorm is likely over the State for the next three days. Hence, apply light and frequent irrigation to summer sunflower, sugarcane and Horticultural crops.
- Farmers are advised to continue harvesting of matured wheat crops. Harvested produce can be sun dried before taking them indoor / safer places.
- Complete the sowing of cotton as early as possible as late sowing may lead to increased attack of bollworm.

**Haryana**

Heat wave prevailed over the State during the period. Weather remained dry in the State during the period.

Isolated duststorm / thunderstorms are likely over the State.

**Advisories**

- Heat wave conditions prevailed over some parts of the State, weather remained dry in most of the districts for the last two weeks and only isolated duststorm / thunderstorm is likely over the State for the next three days. Hence, apply light and frequent irrigation to summer sunflower, sugarcane and Horticultural crops.
- Farmers are advised to continue harvesting of matured wheat crops. Harvested produce can be sun dried before taking them indoor / safer places.
- Complete the sowing of cotton as early as possible as late sowing may lead to increased attack of bollworm.

**Rajasthan**

Weather remained dry in all the divisions of the State. Heat wave conditions prevailed over the State.

Isolated duststorm / thunderstorm is likely over the State during next 48 hrs.

**Advisories**

- Heat wave conditions prevailed over the State during last week and only isolated duststorm / thunder storm is likely over the State for the next three days. Under the circumstances, apply light and frequent irrigation in early sown moong crop in view of prevailed heat wave conditions.
- After the harvest of rabi crops, summer ploughing may be undertaken in order to conserve moisture during summer showers and to control soil borne pests and diseases.

- Continue sowing of *desi cotton* in irrigated areas. Undertake seed treatment with chemicals before sowing. Select among LHH-144, RG-8, RG-18, Bikaneri Narma, RS-810, RS-875, RST-9, Ganganagar Ageti, RHH-16, RS-2013 etc. before sowing.

## Uttar Pradesh

Heat wave conditions prevailed over some parts of West U.P. Very light rain occurred at isolated places in Gorakhpur division on 30<sup>th</sup> April and in Bareilly on 2<sup>nd</sup> May. Weather was mainly dry in remaining divisions of the State on 30<sup>th</sup> April and 2<sup>nd</sup> May. Weather was mainly dry in all divisions of the State on 1<sup>st</sup> May.

Isolated duststorm / thunderstorms are likely over West U.P. Isolated rain / thundershowers are likely over East U.P.

### Advisories

- As mainly dry condition prevailed in most of the districts in the State during last three weeks with heat wave conditions over some parts of West U.P during last week and only isolated duststorm / thunderstorm over West Uttar Pradesh and isolated rain / thundershowers over East U.P. are likely for the next three days, apply irrigation to summer maize, sunflower, pulses and vegetable crops.
- To control borer insect in sugarcane, spray the solution of Endosulphan 35 EC @ 1.25 litre / ha in water.
- To control mosaic disease in ladies finger, spray the solution of Dimethoate 30EC @ 1.6 ml / litre of water.
- Continue harvesting of matured crops of Onion and garlic.
- The blossoms of Mango (30-45 cm in length) are affected with malformation disease. Destroy it & to save the fruits spray Naphthalene Acetic Acid 15 ppm or 4ml Planofix / 9 litre water.
- Complete sowing of summer sugarcane. Field preparation and sowing of maize may be continued.

## Himachal Pradesh

Precipitation occurred at isolated places in the state.

Isolated rain / thundershowers are likely over the State.

### Advisories

- As there was no significant rain in all the districts of the State during last week and isolated rain / thundershowers are likely for next three days, apply irrigation to vegetables and onion.
- Continue land preparation and nursery sowing and transplanting of cauliflower and cabbage in low and mid hills and planting of potato.
- Harvest already matured crops of wheat and barley on bright sunny days. Wheat is ready for harvest when grain will produce cracking sound while pressed between the teeth.
- There is mild chance of attack of powdery mildew in vegetables. If attack crosses economic threshold level, spray carbendazime 0.5 % to control the disease.
- There is mild chance of attack of purple blotch disease in onion. If attack crosses economic threshold level, spray mancozeb 0.25 % to control the disease.
- Damage of apple crop is reported from Kullu and Shimla districts due to hails. Where the fruits are damaged due to hails, farmers are advised to spray urea 1.5 kg + Babstin 100 gm + Biozyme or Boon or Biobeta (500 ml) in 200 litres of water.

## Uttarakhand

Light to moderate rain was recorded at many places on 2<sup>nd</sup> May and light rain was recorded at isolated places on 1<sup>st</sup> May. Mainly dry weather prevailed during rest of the week. Sky remained mainly clear to generally cloudy (in the later half) during the period.

Isolated rain / thundershowers are likely over the State.

## Advisories

- As there was excess rainfall in Almorah and Garhwal tehris for the last two weeks, apply light irrigation in these districts depending on profile stored soil moisture. There was no significant rainfall during last week in the remaining districts and isolated rain / thundershowers are likely over the State for next three days. Under the circumstances, apply irrigation to **mango, litchi, apple, potato** and **sugarcane** crops.
- Continue harvesting of matured crops of **wheat**.
- Maintain cleanliness in the **orchards**. Undertake mulching to conserve soil moisture and to prevent weeds in **apple** and **potato**.

## Jammu & Kashmir

Weather remained mainly dry over the State.

Isolated rain / thundershowers are likely over Jammu & Kashmir state.

## Advisories

- Weather remained dry during last week and rain / thundershower is likely to occur only at isolated places for the next three days. Under the circumstances, apply irrigation to **wheat, brown sarson** and **vegetable** crops in Kashmir division.
- Continue harvesting of **wheat** at proper maturity stage in Jammu division. After the harvest of wheat, undertake sowing of **Daincha** in the fallow land.
- Weather conditions are congenial for the occurrence of **fruit fly** in **cucurbits** in Jammu division. Monitor the crop for the pest and if the pest population crosses ETL, spray Endosulphan 35 EC @ 2 ml / litre of water.
- Undertake land preparation and sowing of **rice** in the nursery in Jammu and Kashmir divisions. Undertake seed treatment with *Azospirillum* before sowing.
- Continue land preparation and planting of **Gladiolus, Dahia** and **Cana bola** in Jammu division. Undertake thinning of excess saplings in **peach, plum, grapes** and **papaya** in Kashmir division as more population leads to poor growth.

## Delhi

Weather remained dry.

Isolated duststorm / thunderstorm is likely over the State.

## Advisories

- As there was no significant rainfall during last few weeks over the State and only isolated duststorm / thunderstorm is likely for next three days, apply irrigation to **vegetables**.
- Prepare land and perform sowing of **radish, chilli** and **arhar**.
- Use Pusa Chetki variety for sowing of **radish**.
- Select varieties from UPA - 120 and T 21 for sowing of **arhar**.
- Complete harvesting of matured crops of **wheat** on bright sunny days. **Wheat** is ready for harvest when grain will produce cracking sound while pressed between teeth.

## Southern Region (AP, Tamilnadu, Karnataka and Kerala)

### Kerala

Rainfall occurred in some parts of the State on 30<sup>th</sup> April, 1<sup>st</sup> and 2<sup>nd</sup> May.

Rain / thundershowers are likely at a few places over the State.

## Advisories

- There was no significant rainfall in most of the districts during last week except in Idukki, Kottayam, Kozhikode, Pathanamthitta, Thrissur and Wayanad districts. Under the circumstance, apply irrigation to plantation crops viz., **coconut, arecanut, rubber** and **banana**. Postpone irrigation in the above mentioned districts as there was excess rainfall during last week.

- Continue harvesting of *puncha rice* on bright sunny days. Continue land preparation and sowing of *virippu rice* in the nursery. Undertake seed treatment with *Azospirillum* before sowing.
- Attack of *mahali disease* is reported in *arecanut*. Spray 1% Bordeaux mixture on a non rainy day to control the disease.
- Attack of *Rhinoceros beetle* is reported in *coconut*. Fill leaf axil with 25 gm Sevidol 8G and fine sand 200 g on a non rainy day to control the pest.
- Monitor *rubber* for *powdery mildew* and spray Wettable sulphur @ 0.2% or Carbendazim @ 0.05% on a non rainy day to control the disease.
- Attack of *pseudostem weevil* is reported in *banana*. In endemic area, first remove the outer sheath of all infested and uninfested plants and spray Quinalphos @ 0.05% or Chlorpyrifos @ 0.03% or Carbaryl @ 0.2% on a non rainy day. Spraying / drenching may be done on leaf axils, rhizome, surrounding soil and all the bore holes of pseudo stem made by larvae. Repeat the treatment after three weeks if infestation persists.
- Undertake new planting of *tapioca, pepper, cashew* and *coconut* in view of realized summer showers.

### Tamilnadu

Rainfall occurred at one or two places over the State on 30<sup>th</sup> April, 2<sup>nd</sup> May and dry weather prevailed on 1<sup>st</sup> May. Rain / thundershowers are likely at a few places over the State.

### Advisories

- Apply irrigation to *rice, millets, sunflower, maize, sugarcane, pulses, cotton* and *groundnut* as there was no significant rainfall in the state during last week.
- Monitor *groundnut* for *aphids* and if the pests population crosses ETL, spray Dimecron 100EC or Metasystox 25EC @ 1 ml/ litre of water on a non rainy day to control the pest.
- Continue harvesting *rice* and *rice fallow pulses* on bright sunny days.
- Monitor *early sugarcane* for *shoot borer* and if the pest population crosses ETL, undertake spraying of Endosulphan 35 EC or Monocrotophos 40 EC @ 1.5 litres / ha on a non rainy day.
- Continue planting of *mid season sugarcane*. Adopt 30000 nos. of two budded setts for planting one acre. Undertake sett treatment with *Azospirillum* before planting.

### Karnataka

On 30<sup>th</sup> April, rainfall occurred at a few places over the State, on 1<sup>st</sup> May rainfall occurred at a few places over Coastal Karnataka and at isolated places over Interior Karnataka. On 2<sup>nd</sup> May rainfall occurred at many places over South Interior Karnataka, at isolated places over North Interior Karnataka and mainly dry weather prevailed over Coastal Karnataka.

Isolated rain / thundershower is likely over the State.

### Advisories

- Apply irrigation to *summer sugarcane* as there was no significant rainfall except in Dakshin Kannada and Udupi in Coastal Karnataka and Dharwad in North Interior Karnataka. Apply irrigation depending upon soil profile stored moisture in the above mentioned districts.
- Conserve moisture in *sunflower* as the crop is at maturity stage.
- Start harvesting *groundnut* on bright sunny days.
- Monitor *sugarcane* for *wooly aphids* in Mysore, Mandya and Hassan districts and if the pest population crosses ETL, release *Dipha* sp, adopt wider spacing, inter-cropping with soyabean and pulses of short duration.
- Monitor *rice* for *leaf roller, stem borer* and *thrips* and if the pests population crosses ETL, spray Methyl parathion 50 EC @ 350 ml / ha to control stem borer. Spray Dimecron 100 EC @ 0.5 ml / litre of water to control thrips and leaf roller.

## Andhra Pradesh

Rain occurred at a few places over coastal Andhra Pradesh on 1<sup>st</sup> May and isolated rain occurred over coastal Andhra Pradesh on 26<sup>th</sup>, 30<sup>th</sup> April & 2<sup>nd</sup> May, over Rayalseema on 26<sup>th</sup> April. Dry weather prevailed elsewhere over the State during the week.

Rain / thundershowers are likely at a few places over Rayalaseema, south Coastal Andhra Pradesh. Isolated rain / thundershower is likely over the rest part of the State.

### Advisories

- Continue summer ploughing after the harvesting of *rabi* crops in order to conserve moisture due to summer showers and to kill pathogen and eggs of pests.
- Continue land preparation and undertake sowing of nursery for *kharif* rice.

## Eastern Region (Assam, Arunachal Pradesh, Bihar, Jharkhand, Sikkim, West Bengal)

### Assam

Weather was dry during the period.

Rain / thundershower is likely at a few places over the state.

### Advisories

- As there was no significant rain during last week and rain / thundershowers are likely at a few places over the state for next three days, apply irrigation to **vegetables, jute and maize**.
- Maintain 3 – 5 cm water in field of **early ahu rice**.
- Mild incidence of **Brown Plant Hopper, Yellow stem borer and blast and sheath blight diseases in boro rice and early ahu rice** is reported in a few localities.
- Monitor attack of **Brown Plant Hopper and blast and sheath blight diseases in boro rice**. If attack crosses economic threshold level, to control **Brown Plant Hopper** insecticides like Chloropyrifos 20 E.C. @ 1.5 ml per litre of water or Phosphamidon @ 1ml per litre of water is to be applied. For control of **Blast** diseases as soon as 1 or 2 spots on leaf are seen Hinosan 50 E.C. @ 1ml per litre of water or Blitox @ 4gm per litre of water is to be applied and spraying is to be continued at an interval of 10-15 days till the disease is controlled. For control of **sheath blight** diseases Carbendazim (Bavistin) @ 0.5 gm per litre of water is to be applied.
- Apply plant protection measures on a non-rainy day.
- Prepare land on a non-rainy day and continue sowing of summer vegetables like **ladies finger, ridge gourd, cucumber** etc. and sowing of **jute, sugarcane and regular ahu rice**.
- Plough land and ladder 5 -6 times to obtain a fine seed bed for sowing of **jute**. In termite and cricket infested field the soil is to be treated with Malathion 5% dust @ 30 kg per hectare. Use seeds of varieties JRC 212, 321, 7447 etc. for sowing.
- Prepare land applying FYM and apply fertilizer Urea @ 12 kg, SSP @ 17 kg and MOP @ 4 kg / bigha. 14 kg seeds should be used for nursery preparation for transplanting of one bigha of **transplanted regular ahu rice**. Seed bed should be prepared of size 10 m length and 1.25 m in width at 30cm gap between beds. In each seed bed 30 kg cow dung / compost, 80 gm urea, 80 gm SSP and 40 gm Mop are to be applied. Well germinated seeds are to be sown @ 652 to 1000 gm per bed. Seed requirement for transplanting of 1 hectare of main field is 40 to 45 kg. 14 kg seed per bigha should be broadcasted for **broadcast regular ahu** after preparation of land properly.
- There is mild chance of attack of hairy caterpillar, smilopper, yellow mite and stem weevil in **jute**. If insect population exceeds economic threshold level, apply fenitrothion 50 EC @ 1 ml in one litre of water or endosulphan 35 EC @ 2 ml per litre of water on a non-rainy day.

## Arunachal Pradesh

Rain / thundershowers are likely at isolated places over the state.

### Advisories

- As there was no significant rain during last week in most of the districts and rain / thundershowers are likely at isolated places over the state for next three days, apply irrigation to **summer vegetables, millet, maize and**

ginger.

- Complete harvesting of the matured wheat crops on bright sunny days.
- Complete transplanting of wet seeded (WRC) rice by this week.

### **Bihar**

Rain / thundershowers are likely at a few places over State.

**Warning:** Isolated squall is likely over Bihar.

#### **Advisories**

- As there was no significant rainfall in most of the districts over the State during last week and rain / thundershowers are likely at a few places over the State, apply irrigation to vegetables, summer maize, green gram and sesamum.
- The prevailing weather conditions may favour the infestation of Red spider mite in vegetable crops. If the crops are affected, spray Sulphur dust @ 3.0 Kg / ha or Dycofol @ 1 lit / ha.
- Maintain 3– 5 cm water in the boro rice field.
- In mango, continue to give regular irrigation in mango orchards and if there is attack of mealy bug or hopper, spray with Carboryl @ 2 g / litre of water.

### **Jharkhand**

Weather remained mainly dry.

Rain / thundershowers are likely at a few places over the State.

**Warning:** Isolated squall is likely over the State.

#### **Advisories**

- As there was no significant rainfall in most of the districts and rain / thundershowers are likely at a few places over the State for the next three days, apply light irrigation to summer vegetables.
- Make arrangements to harvest the wheat to avoid the lodging of crops due to squall.
- Continue sowing of summer vegetables like bhendi.
- Maintain 3 – 5 cm water in the boro rice field.
- Apply regular irrigation in mango & litchi. To prevent small fruits from powdery mildew in Mango and Litchi, spray sulfex @ 2 gm / litre of water.

### **Sikkim**

Sky remained generally cloudy during the period. Very light to light rain occurred at a few places on 26<sup>th</sup> to 28<sup>th</sup> April & 1<sup>st</sup> May over East Sikkim and no rain during rest days. Rainfall was scanty during the period.

Rain / thundershowers are likely at a few places over the State.

#### **Advisories**

- There was no significant rainfall over the State during last week and rain / thundershower is likely to occur at a few places for the next three days. Under the circumstances, apply irrigation to large cardamom, orange, maize and ginger.
- Make arrangements to prevent the crops from lodging due to squall.
- Undertake earthing up to keep the field weed free and application of fertilizers in kharif vegetables, large cardamom, orange, maize and ginger on a non rainy day.
- Epidemic infestation of semilooper has been reported in maize. Spray Trisophor @ 1 ml / litre on a non rainy day to control the pest and to minimize the damage.
- Monitor ginger for rhizome rot and bacterial wilt and rouge out the affected plants and destroy completely to prevent further damage.

## West Bengal

During the said period very light rain at isolated places on 1<sup>st</sup> May, very light to light rain at isolated places on 2<sup>nd</sup> May occurred over Sub-Himalyan West Bengal.

But very light to light rain at isolated places on 30<sup>th</sup> April, very light to light rain at a few places with moderate rain at isolated places on 1<sup>st</sup> May, very light rain at isolated places on 2<sup>nd</sup> May occurred over Gangetic West Bengal.

Weather was mainly dry elsewhere.

Rain / thundershowers are likely at a few places over the State.

### Advisories

- As there was excess rain during last week in **Bankura, Birbhum, Hooghly, Midnapore and 24 Pargana (S)** districts and rain / thundershowers are likely at a few places over the State for next three days, apply light irrigation to **sugarcane, sesamum, groundnut, green gram and jute** in these districts. Apply irrigation to the crops in remaining districts of the State to bring soil to its field capacity.
- Maintain 3 – 5 cm water in **boro rice** field.
- Complete land preparation on a non-rainy day and planting of **sugarcane**. Select early maturing varieties form C.O.J. 7218, C.O. 62197, C.O. 87263 and medium maturing varieties form B.O.91, C.O. 62033, C.O. 7202, C.O. 7224, C.O. 1148, C.O. 87268, C.O.S. 776. etc. for planting of **sugarcane**. Set rate is 50 – 62.5 q / ha. Use top 1/3<sup>rd</sup> portion of the cane as a seed for best germination. Soak in water for 24 hours for better sprouting. Treat the setts in 100 gm Mithoxy Ethyl Mercuric chloride per 40 litres of water for 20 minutes and then dry in shade. Alternatively setts can be treated by Carbendazim 50% @ 1 gm / litre of water.
- Prepare land on a non-rainy day for sowing of **jute**. Plough the land thoroughly for 4 – 5 times followed by laddering. Apply compost manure @ 7.5 – 12.5 tonnes / ha. Apply N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O each @ 25 kg / ha also before last land preparation. Select improved variety from Shyamali, Sonali & Sobujsona etc. for *C. capsularis* and Chaitali, Basudev, Baisakhi, Nabin etc. for *C. olitorius* for sowing. Seed rate is 7.5 kg per ha for *C. capsularis* and 5 kg per ha for *C. olitorius*. Seeds may be treated with 1 gm carbendazime per kg of seeds before sowing.
- Undertake preparation of land for sowing of **aus rice**. Select varieties from HYVs like IET-826, CR- 126-42-1, IR-36, IET-2233, IET-1444 (Rosi), Culture-1 etc. Seed rate is 75-100 kg / ha in case of broadcasting and 62-75 kg / ha in case of row sowing. Treat the seeds with Carbendazim 50% @ 1 gm / kg seeds.

## Central Region (Gujarat, Chhattisgarh, Maharashtra, MP & Orissa)

### Gujarat

Weather remained dry.

Mainly dry weather is likely over the State.

### Advisories

- As there was no significant rain during last few weeks in the State and mainly dry weather will prevail for next three days, apply irrigation to **sugarcane, summer groundnut and summer bajra** to bring the soil moisture to field capacity.
- Maintain 3 – 5 cm water in the **rice** field.
- Apply 75 kg N / ha as top dressing at 45 days after planting of **sugarcane** crop. For saving of 25% Nitrogen fertilizer apply 2 kg Bio fertilizer azetobactor mixed with 100 kg FYM / ha in furrows at an interval of 30 & 60 days from sowing.
- Complete last intercultural operation during flowering stage of **groundnut** to keep the field weed free.

### Chhattisgarh

Isolated rain / thundershower is likely to occur over the state.

### Advisories

- As there was no significant rain during last few weeks in the State and isolated rain / thundershower is likely

to occur over the state for next three days, apply irrigation to sugarcane, vegetables, sunflower, summer groundnut, sesamum and green gram crops.

- Maintain 3 – 5 cm water in summer rice field.
- Apply 75 kg N / ha as top dressing at 45 days after planting of sugarcane.
- Complete intercultural operation in groundnut at flowering stage.
- Prepare land and continue sowing of maize.

### Maharashtra

Light rain occurred at isolated places in South Madhya Maharashtra & South Konkan on 30<sup>th</sup> April and in North Madhya Maharashtra on 2<sup>nd</sup> May. Mainly dry weather prevailed over rest of the State.

Isolated rain / thundershower is likely over Vidarbha. Mainly dry weather is likely over the rest region.

### Advisories

- As there was no significant rain during last week in the State and isolated rain / thundershower over Vidarbha and mainly dry weather over the rest region are likely for next three days, apply irrigation to sugarcane (Pre-seasonal), summer groundnut, summer sunflower, summer bajra, summer maize, sugarcane (*Suru*) & early sown irrigated cotton.
- Continue harvesting of matured crop of groundnut in Sindhudurga district.
- Maintain 3 – 5 cm water in summer rice field. Third dose of 40 kg Nitrogen / ha may be applied after 60 days from transplanting in Konkan. Use 1 kg Neem cake powder in 6 kg urea at the time of above application. Water may be drained out before fertilizer application & maintain water level after 2 days.
- Drain out water from summer rice field 10 – 15 days before harvesting of matured crops. Harvesting of matured crops may be started in Sindhudurga district.
- Start harvesting of already matured crops of summer bajra and summer maize.
- Third dose of 25 kg Nitrogen / ha may be applied after 12 to 14 weeks from planting of sugarcane (*Suru*). Use 1 kg Neem cake powder with 6 kg Urea at the time of application of Nitrogen.
- Mild incidence of sap sucking insects and tikka disease in Latur in summer groundnut is reported. Avoid spraying as the crop is in pod maturity stage in Latur Division.
- This is the time for sowing of irrigated Cotton. Select a variety from high yielding varieties like LRH-5166, JLH-168 & hybrid varieties like phule-492, phule-388, Sankar-6 & 10, PKV-4 & 5. Seeds may be treated with 250 gm Azotobacter / 10 kg seeds before sowing. Sowing may be done at 90 X 90 cm in medium, at 120 X 90 cm distance in black cotton soil for hybrid variety and at 90 X 90 cm for high yielding variety. 20 kg Nitrogen, 50 kg P<sub>2</sub>O<sub>5</sub> & 50 kg K<sub>2</sub>O / ha may be applied at the time of sowing.

### Madhya Pradesh

Heat wave conditions prevailed in North West M.P. on all days, in parts of South West M.P. on 30<sup>th</sup> April and 2<sup>nd</sup> May and in parts of North East M.P. on 1<sup>st</sup> May.

Rainfall occurred at isolated places in North West M.P. on 1<sup>st</sup> May and dry weather prevailed over rest of the State on remaining days.

Isolated duststorm / thunderstorm is likely over West Madhya Pradesh. Isolated rain / thundershower is likely over rest of the State.

### Advisories

- Apply irrigation to summer moong and sugarcane as heat wave conditions prevailed over Madhya Pradesh during last week and isolated duststorm / thunder storm over west Madhya Pradesh and isolated rain / thundershower over rest of the State are likely for the next three days.
- Monitor sugarcane for Chempaa, *Pyrilla* and scale insects and if the pest population crosses ETL, spray Malathion 50 EC or Endosulphan 35 EC @ 1.25 litres / ha to control the pests.

## Orissa

Rainfall occurred at isolated places over the State during the period.

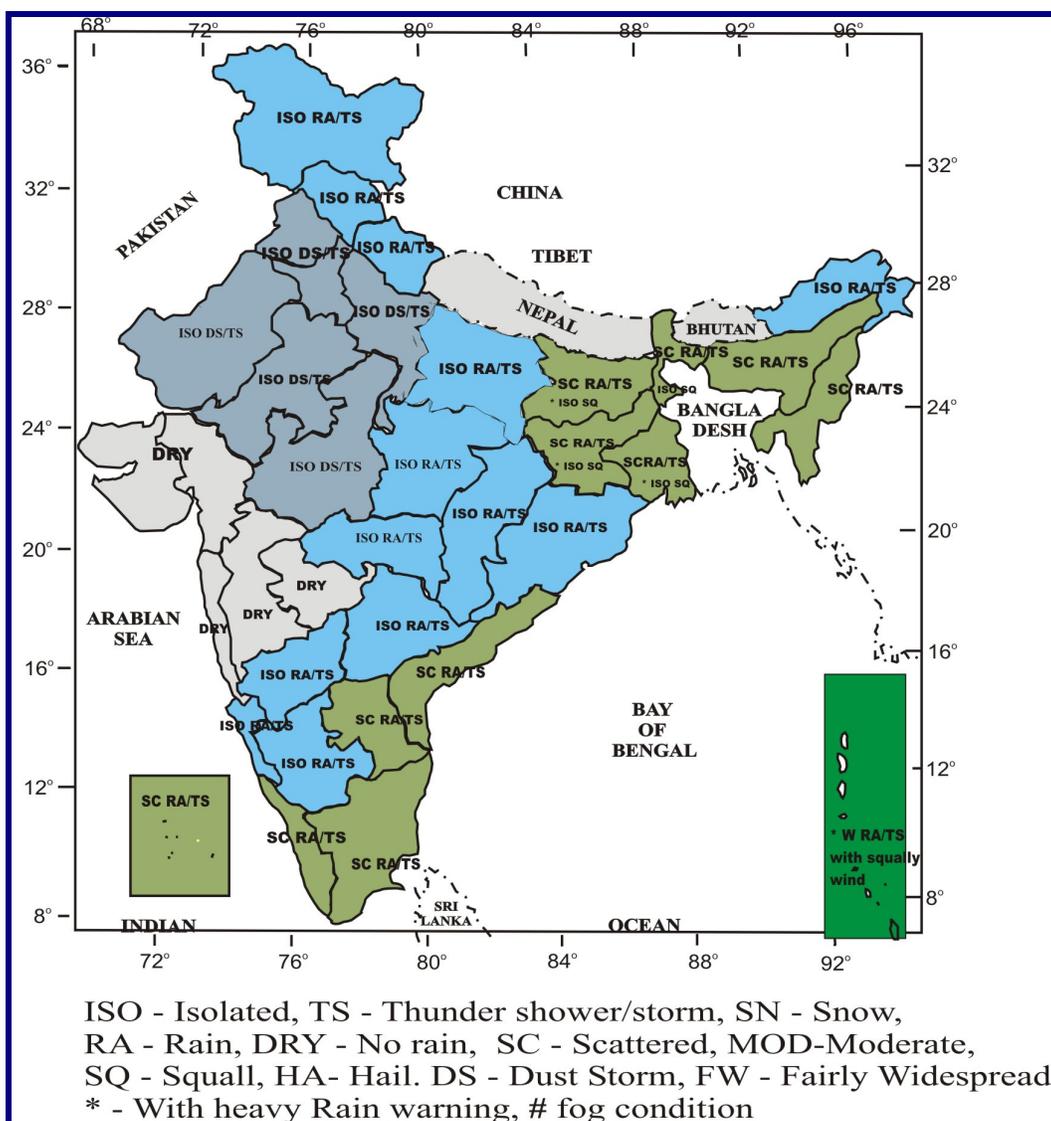
Isolated rain / thundershower is likely over the State.

### Advisories

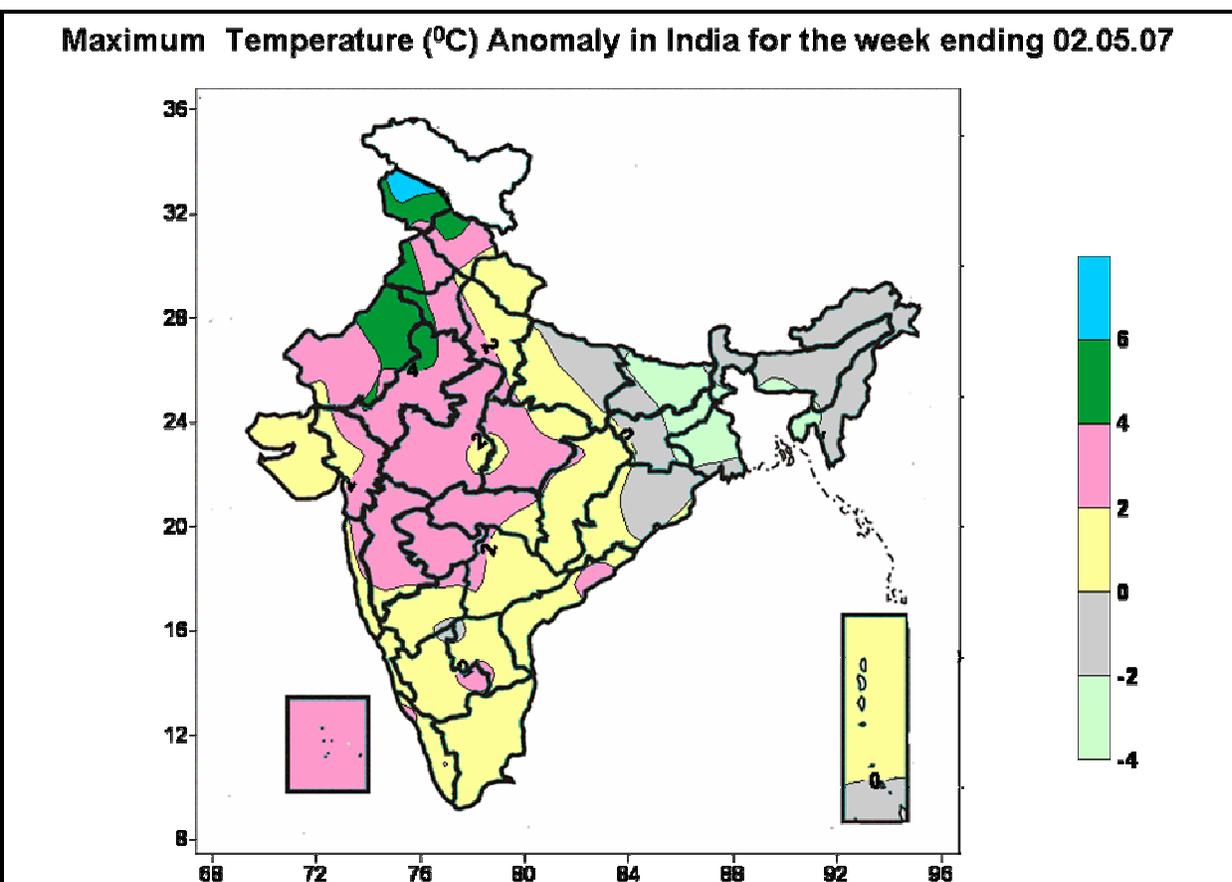
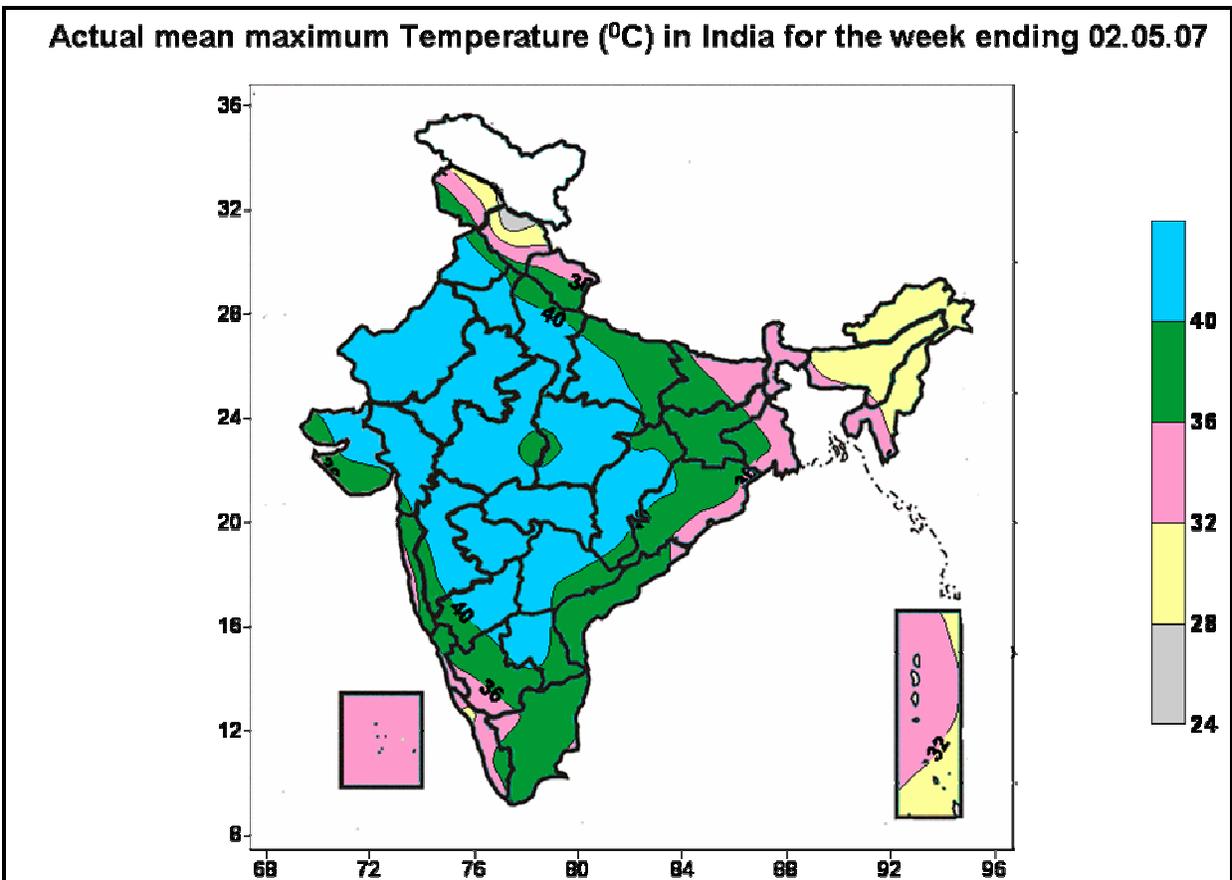
- As there was excess rainfall in Angul, Gajapati, Jajpur, Keonjhar, Mayurbhanj, Nayagarh and Sundergarh districts and isolated rain / thundershowers are likely over the State for next three days, apply light irrigation depending on profile stored soil moisture to **vegetables, sugarcane, early sown summer groundnut and pulses** grown in these districts. Apply irrigation to the crops in remaining districts.
- Harvest the matured crops of **Dalua rice**.
- Start land preparation and sowing of **jute**. Sow the jute seeds of variety JRO 524.

## Forecast Map

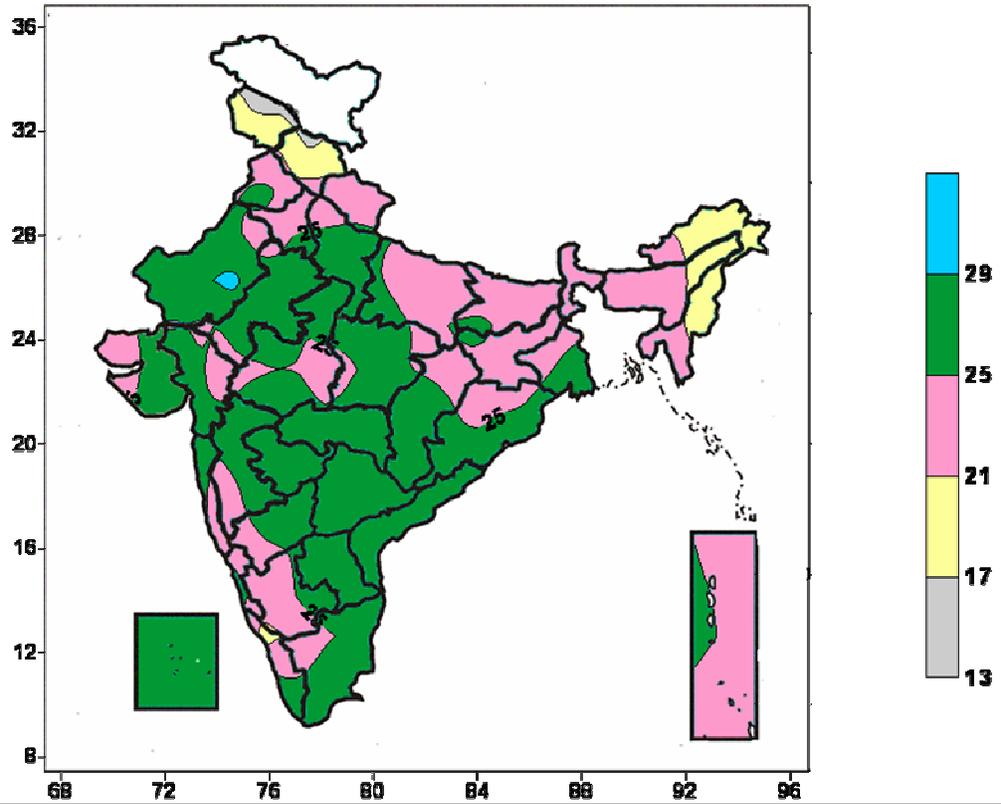
Valid upto 6<sup>th</sup> May 07



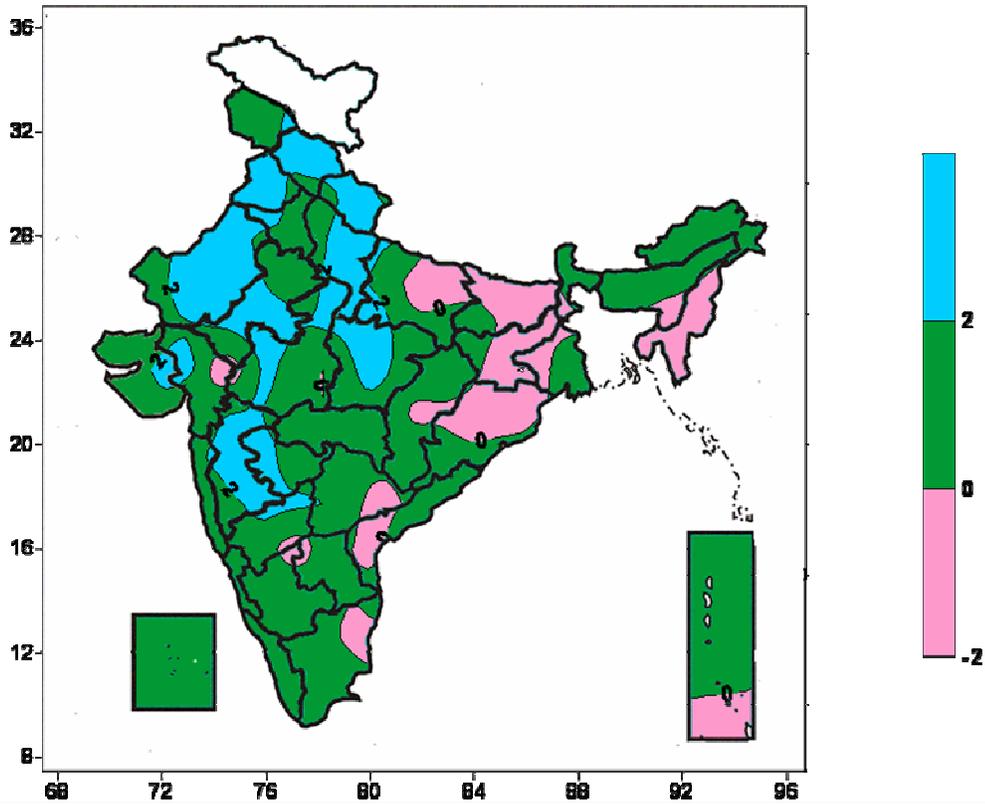
## Contour maps for the week ending 2<sup>nd</sup> May, 2007



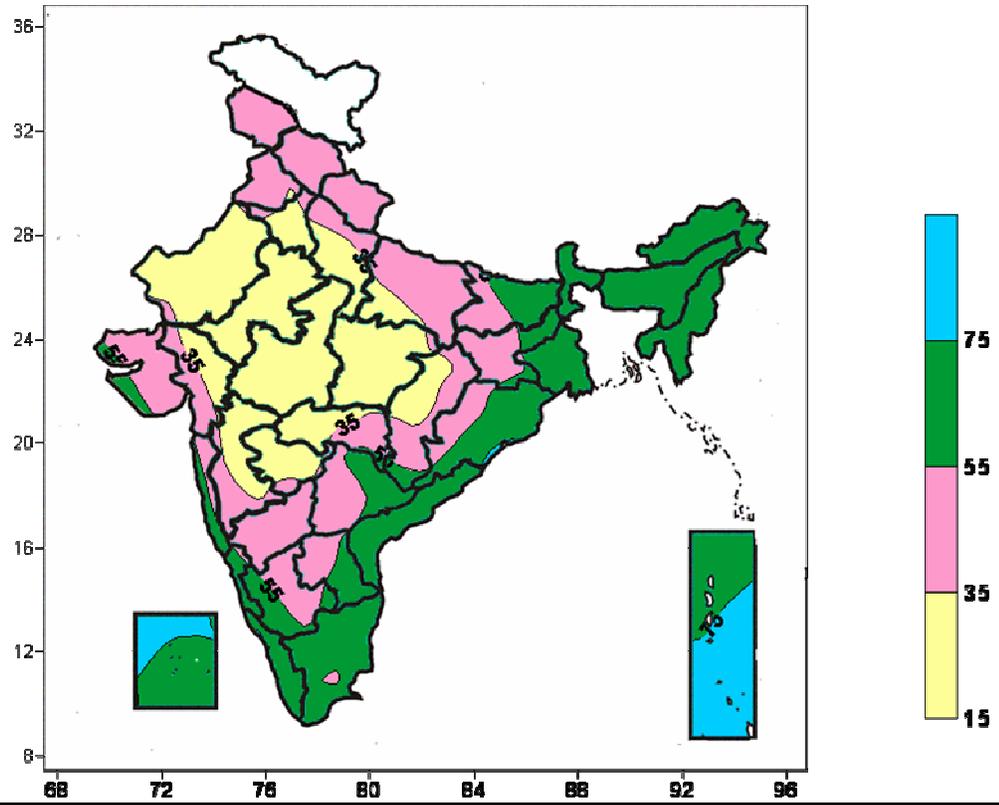
**Actual mean Minimum Temperature ( $^{\circ}\text{C}$ ) in India for the week ending 02.05.07**



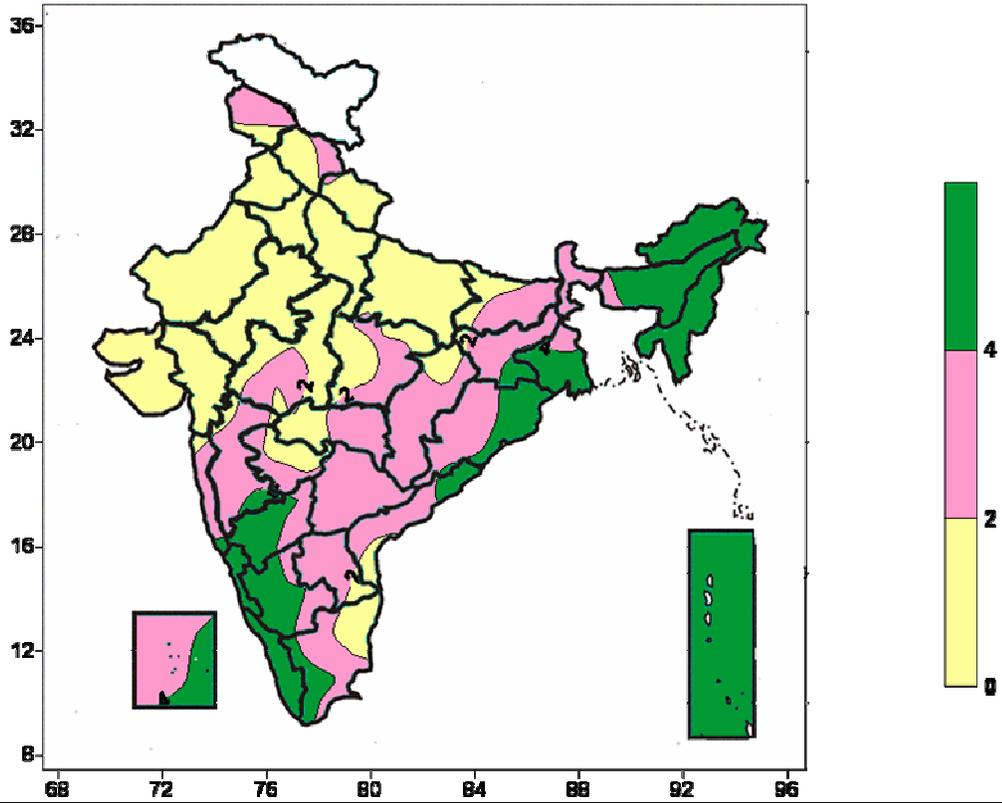
**Minimum Temperature ( $^{\circ}\text{C}$ ) Anomaly in India for the week ending 02.05.07**

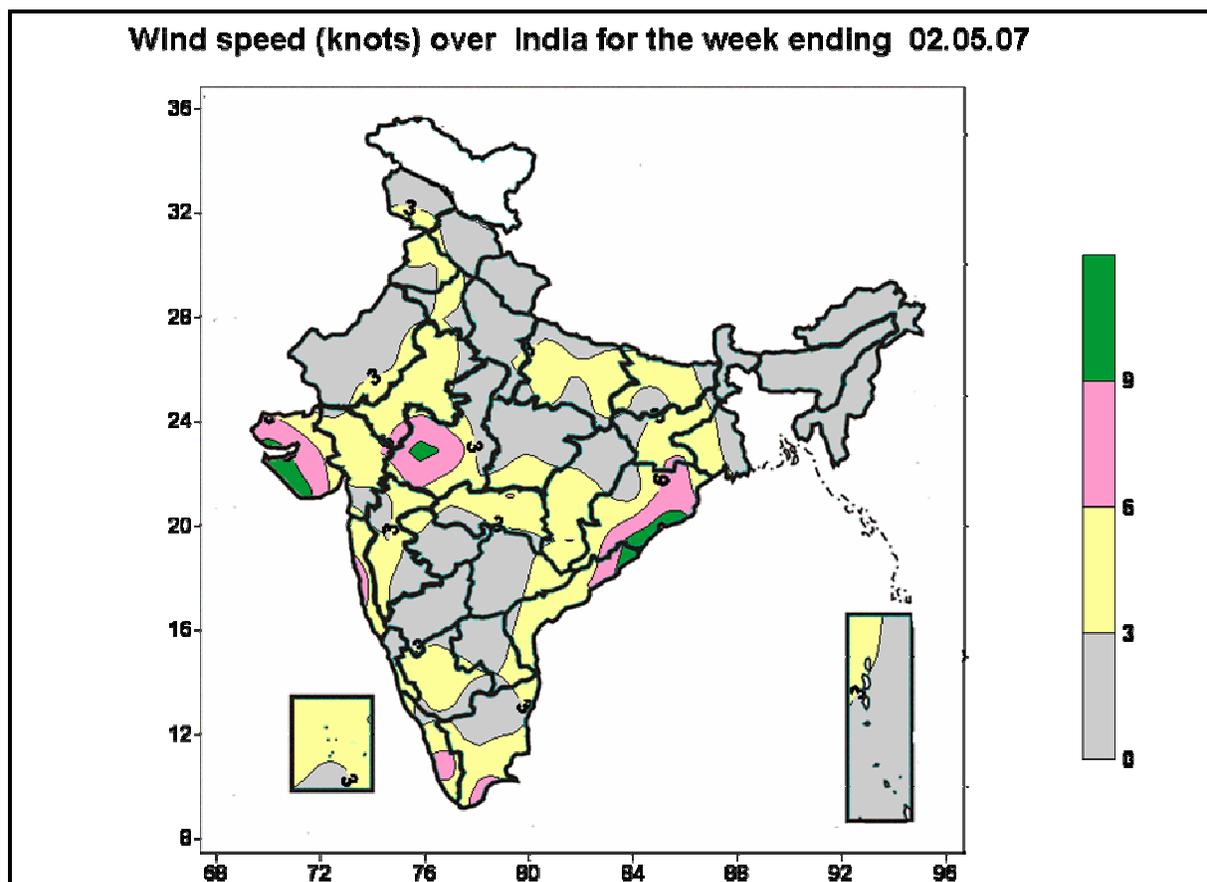


Relative humidity (%) over India for the week ending 02.05.07



Cloud amount (okta) over India for the week ending 02.05.07





## *Salient weather features for the week ending 02/05/07*

### **METEOROLOGICAL ANALYSIS**

- Last week's cyclonic circulation over Central Pakistan and adjoining Rajasthan lay over Haryana and adjoining West Uttar Pradesh on 26<sup>th</sup>, over East Uttar Pradesh and neighbourhood on 27<sup>th</sup> and became less marked on 28<sup>th</sup>.
- A feeble western disturbance as an upper air cyclonic circulation lay over Jammu & Kashmir and neighbourhood on 26<sup>th</sup> and moved away eastwards on 27<sup>th</sup>. Another feeble western disturbance as an upper air cyclonic circulation moved over western Himalayan region during 30<sup>th</sup> April to 2<sup>nd</sup> May.
- A trough in lower level extended from East Uttar Pradesh to Assam with embedded cyclonic circulation over Assam and neighbourhood during 26-28<sup>th</sup>. Also a trough in westerlies at 700 hPa ran from Sub-Himalayan West Bengal & Sikkim to north Bay/north Orissa during this period.
- A north-south oriented trough in lower levels at times embedded with cyclonic circulation lay over south peninsula throughout the week.
- An upper air cyclonic circulation extending upto mid-tropospheric level lay over Gulf of Thailand on 28<sup>th</sup> and over Gulf of Thailand & adjoining south Andaman Sea on 29<sup>th</sup>. It lay over south Andaman Sea and neighbourhood on 30<sup>th</sup>. Under its influence, an extended low pressure area formed over south Andaman Sea and neighbourhood on 1<sup>st</sup> May. It was seen as a low pressure area over the same region on 2<sup>nd</sup> May with associated cyclonic circulation extending upto mid tropospheric level.

### **RAINFALL**

Under the influence of the above systems

- Isolated rain/thundershowers occurred over western Himalayan region on 26<sup>th</sup> April, 1<sup>st</sup> & 2<sup>nd</sup> May.
- Isolated to scattered rain/thundershowers occurred over different meteorological sub-divisions of east India outside East Uttar Pradesh during many days of the week. Isolated to scattered rain/thundershowers occurred over Tamil Nadu and Kerala on many days and isolated rain/thundershowers occurred over remaining parts of peninsula and Maharashtra on a few days.
- Scattered to fairly widespread rain/thundershowers with isolated heavy falls occurred over northeast India during 26-28<sup>th</sup> April. Isolated rain/thundershowers occurred over these regions thereafter.
- Scattered to fairly widespread rain/thundershowers occurred over Andaman & Nicobar Islands during many days of the week.
- Mainly dry weather prevailed over the remaining parts of the country during the week.

## MAXIMUM TEMPERATURES

- Heat wave conditions prevailed over some parts of Rajasthan, Haryana and Punjab on many days and over Jammu division of Jammu & Kashmir, Delhi, West Madhya Pradesh and Vidarbha on a few days of the week.
- The maximum temperatures were above normal by 3-7°C over northwest India and Rajasthan, by 2-5°C over central India and by 2-4°C over many parts of south India during many days of the week.
- They were below normal by 2-6° C over northeast India, Sub-Himalayan West Bengal & Sikkim during the first half of the week. Rising afterwards, they became above normal by 2-6° C over these regions towards the end of the week. They were normal during first half and below normal by 2-6° C during second half of the week over Bihar, East Uttar Pradesh, Jkarkhand and north interior Orissa. They were normal over remaining parts of east India during the week.

## RAINFALL DURING THE WEEK (FOR THE WEEK ENDING ON 2<sup>ND</sup> MAY, 2007)

Rainfall was excess/normal in 4, deficient/scanty in 21 and no rain in 11 out of 36 meteorological sub-divisions (Actual: 3.1 mm, Normal: 11.5 mm and Departure: -73%).

## CUMULATIVE SEASONAL RAINFALL (1<sup>ST</sup> MARCH TO 2<sup>ND</sup> MAY, 2007)

Rainfall was excess/normal in 18 and deficient/scanty in 18 out of 36 meteorological sub-divisions. (Actual: 64.4 mm, Normal: 73.8 mm and Departure: -13%).

## OUTLOOK FOR THE WEEK ENDING ON 9<sup>TH</sup> MAY, 2007.

- Under the influence of the well marked low pressure area over north Andaman Sea and neighbourhood, which is likely to concentrate into a depression, widespread rainfall with isolated heavy to very heavy falls are likely over Andaman & Nicobar Islands during first half of the week and decrease thereafter. Squally winds with speed reaching 40-50 kmph are also likely over Andaman & Nicobar Islands during next 48 hours.
- Scattered rain/thundershower activity is likely over West Bengal & Sikkim, northeast India and south Peninsula during the week.
- Gradual rise in day temperature over northwest, central and east India.



Rainfall (mm)							
Station Name	26.04.07	27.04.07	28.04.07	29.04.07	30.04.07	01.05.07	02.05.07
Amritsar	-	-	-	-	-	-	-
Barmer	-	-	-	-	-	-	-
Sriganganagar	-	-	-	-	-	-	-
Jaisalmer	-	-	-	-	-	-	-
Kota	-	-	-	-	-	-	-
Deesa	-	-	-	-	-	-	-
Churu	-	-	-	-	-	-	-

Temperature (degree Celcius)							
Station Name	26.04.07	27.04.07	28.04.07	29.04.07	30.04.07	01.05.07	02.05.07
Amritsar	29.0	30.5	31.0	31.5	31.5	32.0	33.5
Barmer	34.5	36.0	34.0	-	34.0	34.5	35.5
Sriganganagar	31.5	31.5	33.5	-	33.5	35.5	35.0
Jaisalmer	33.5	34.0	33.5	-	34.5	-	35.0
Kota	37.0	36.5	36.0	-	36.5	37.5	37.5
Deesa	33.0	32.5	33.5	32.5	32.0	32.0	33.0
Churu	-	-	-	-	-	-	-

There is no chance of locust infestation in Rajasthan and the adjoining areas during this week.

## CROP – STATE – STAGE

### Delhi

<b>Vegetables</b>	<b>Early sown summer vegetable crops</b>	<b>Wheat</b>	<b>Arhar</b>	
Sowing	Vegetative	Harvesting	Land preparation/Sowing	

### Haryana

<b>Early sown Sugarcane</b>	<b>New Sugarcane</b>	<b>Oilseeds</b>	<b>Horticultural crop</b>	<b>Wheat</b>
Vegetative	Sowing	Early vegetative	Vegetative	Harvesting
<b>Cotton</b>				
Sowing				

### Himachal Pradesh

<b>Wheat</b>	<b>Summer vegetables (Cauliflower, Cabbage in low and mid hills)</b>	<b>Vegetables (Tomato, brinjal, ladies finger)</b>	<b>Gram</b>	<b>Barley</b>
Harvesting (low hills) Maturity (mid hills)	Nursery sowing /Transplanting	Vegetative/flowering/ fruiting / harvesting	Harvesting (low hills) Pod Maturity (mid hills)	Harvesting (low hills) Maturity (mid hills)
<b>Onion</b>	<b>Potato</b>	<b>Apple</b>		
Bulb development	Planting	Fruit setting		

### Jammu & Kashmir

<b>Vegetable crops</b>	<b>Brown Sarson</b>	<b>Wheat (in Kashmir division)</b>	<b>Pea/Lentil/ Mustard</b>	<b>Wheat (in Jammu)</b>
Vegetative- in Kashmir Division	Seed formation – in Kashmir Division	Grain formation	Harvesting	Grain maturity / harvesting
<b>Fruit crops</b>	<b>Summer mash and moong</b>	<b>Maize/ Rice</b>		
Plantation	Vegetative (Jammu div.)	Sowing (Kashmir div.)		

### Punjab

<b>Sugarcane</b>	<b>Oil seeds</b>	<b>Gram/Lentil</b>	<b>Cotton</b>	<b>Wheat</b>
Vegetative	Early vegetative	Harvesting	Sowing	Harvesting
<b>Horticultural crop</b>				
Vegetative				

### Rajasthan

<b>Zaide Moong</b>	<b>Zaide Fodder</b>	<b>Early sown Cotton</b>	<b>Cotton</b>	
Flowering	Vegetative	Germination / seedling	Sowing – in some areas	

### Uttar Pradesh

<b>Sugarcane</b>	<b>Winter Vegetables</b>	<b>Summer Vegetables</b>	<b>Sunflower</b>	<b>Mango</b>
Early vegetative	Maturity/ harvesting stage	Early vegetative	Early vegetative	Fruit setting
<b>Rabi Pulses (Urad, Moong &amp; Lobia)</b>	<b>Maize</b>	<b>Bajra</b>	<b>Wheat / Barley</b>	
Early vegetative	Early vegetative	Early vegetative	Harvesting	

### Uttarakhand

<b>Potato</b>	<b>Mango/Litchi/ Apple</b>	<b>Wheat</b>	<b>Sugarcane</b>	
Vegetative growth	Fruit setting/Fruit development	Maturity/ Harvesting	Vegetative	

### Assam

<b>Summer vegetables</b>	<b>Early sown Summer vegetables</b>	<b>Early Ahu rice</b>	<b>Boro Rice</b>	<b>Maize</b>
Sowing	Germination/ vegetative/Flowering/ Fruiting	Tillering	Harvesting	Germination/Early vegetative
<b>Regular Ahu Rice</b>	<b>Sugarcane</b>	<b>Jute</b>	<b>Early sown Jute</b>	
Nursery preparation and Direct sowing	Land preparation and Sowing	Land preparation/ Sowing	Germination/Early vegetative	

### Arunachal Pradesh

<b>Summer vegetables</b>	<b>Ginger</b>	<b>Wheat</b>	<b>Jhum Paddy</b>	<b>Maize</b>
Vegetative	Vegetative	Harvesting	Vegetative	Vegetative
<b>WRC Rice</b>	<b>Millet</b>			
Transplanting	Vegetative			

<b>Bihar</b>				
<b>Summer Vegetables</b>	<b>Boro Summer Rice</b>	<b>Wheat</b>	<b>Green Gram / Black gram</b>	<b>Summer Maize</b>
Vegetative	Panicle initiation	Harvesting	Flowering / pod formation	Vegetative
<b>Mango &amp; Litchi</b>	<b>Sesamum</b>			
Fruiting	Flowering			

<b>Jharkhand</b>			
<b>Boro rice</b>	<b>Summer vegetables</b>	<b>Wheat</b>	
Panicle initiation	Vegetative	Harvesting	

<b>Sikkim</b>				
<b>Maize</b>	<b>Orange</b>	<b>Vegetables</b>	<b>Large Cardomom</b>	<b>Ginger</b>
Vegetative	Fruiting	Vegetative	Flowering	Vegetative

<b>West Bengal</b>				
<b>Boro rice</b>	<b>Aus rice</b>	<b>Sesamum</b>	<b>Groundnut</b>	<b>Green gram</b>
Grain formation / early maturity	Land preparation / sowing	Vegetative / flowering / pod formation	Pegging / pod formation	Flowering / pod formation
<b>New Crop Sugarcane</b>	<b>Early sown Sugarcane</b>	<b>Jute</b>	<b>Early sown Jute</b>	
Planting	Early vegetative/ Vegetative	Land preparation / sowing	Germination / early vegetative	

<b>Chattisgarh</b>				
<b>Sugarcane</b>	<b>Vegetables (Tomato, chilli, brinjal)</b>	<b>Summer Vegetables</b>	<b>Sunflower</b>	<b>Groundnut</b>
Vegetative	Fruiting / harvesting	Vegetative/Flowering/Fruiting	Head formation/Seed formation/Seed maturity	Flowering /Pegging/Seed formation
<b>Summer sesamum</b>	<b>Green Gram</b>	<b>Summer rice</b>	<b>Maize</b>	
Vegetative / flowering/Capsule formation	Flowering/Pod formation	Panicle initiation /Flowering/Grain formation	Sowing	

<b>Gujarat</b>				
<b>Sugarcane</b>	<b>Rice</b>	<b>Summer Groundnut</b>	<b>Summer Bajra</b>	
Vegetative	Tillering/Panicle initiation/Flowering	Flowering/Pegging	Flowering/Milk	

<b>Maharashtra</b>				
<b>Sugarcane Preseasonal (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Summer Groundnut (Madhya Maharashtra, Marathwada, Vidarbha &amp; Konkan)</b>	<b>Summer Rice (Konkan, Vidarbha &amp; Kolhapur dist.)</b>	<b>Summer Sunflower (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Summer Bajra (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>
Early vegetative/active growth	Pegging /Pod formation– in Pune, Kolhapur, Nashik, Amravati, Nagpur & Aurangabad , Pod maturity in Latur, Thane, Raigad & Ratnagiri & Pod maturity/Harvesting in Sindhudurga district)	Flag leaf initiation/Panicle initiation – in Vidarbha. Flowering/Grain formation in Kolhapur . Grain formation/Grain maturity in Thane, Raigad, & Ratnagiri dist. Grain maturity/Harvesting in Sindhudurg dist.	Head formation (Seed maturity in Latur & Amravati Division )	Flowering/Grain formation/Grain maturity
<b>Summer Maize (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Sugarcane (Suru) (Madhya Maharashtra, Marathwada and Vidarbha)</b>	<b>Irrigated cotton (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>		
Cob formation/Cob maturity	Early vegetative	Germination/Early vegetative		

<b>Madhya Pradesh</b>				
<b>Summer moong and sugarcane</b>				
Vegetative				

<b>Orissa</b>				
<b>Vegetables</b>	<b>Dalua Rice</b>	<b>Mustard</b>	<b>Rabi Pulses</b>	<b>Summer pulses</b>
Fruiting / Harvesting	Grain maturity / harvesting	Pod maturity/Harvesting	Harvesting	Vegetative

<b>Summer Vegetables</b>	<b>Sugarcane</b>	<b>Summer Groundnut</b>	<b>Early sown Summer Groundnut</b>	<b>Jute</b>
Early vegetative	Vegetative	Field preparation and Sowing	Early vegetative	Field preparation and Sowing

**Andhra Pradesh**

<b>Rabi Groundnut</b>	<b>Rabi rice</b>	<b>Kharif rice</b>		
Harvesting	Harvesting	Land preparation and nursery sowing		

**Karnataka**

<b>Sugarcane (Ratoon crop)</b>	<b>Sunflower</b>	<b>Summer groundnut</b>	<b>Summer rice</b>	
Vegetative	Grain maturity	Pod maturity / harvesting	Grain formation	

**Kerala**

<b>Rubber</b>	<b>Puncha rice</b>	<b>Virippu rice</b>	<b>Tapioca/ Cashew/ Pepper</b>	
Tapping	Harvesting	Raising nursery	New Planting	

**Tamil Nadu**

<b>Rice (Navarai)</b>	<b>Sunflower</b>	<b>Cotton</b>	<b>Rice fallow Pulses (Blach gram and Green gram)</b>	<b>Oilseeds (Groundnut)</b>
Harvesting	Vegetative	Vegetative	Harvesting	Vegetative
	<b>Summer gingelly/ Maize</b>	<b>Early sown Summer gingelly /Maize</b>	<b>Mid season Sugarcane</b>	<b>Sugarcane(Jan-Feb)</b>
	Sowing	Vegetative	Planting	Vegetative

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