

ग्रामीण कृषि मौसम सेवा समाचार

GKMS-News



Quarterly Newsletter
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Agricultural Meteorology Division
India Meteorological Department
Ministry of Earth Sciences

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National Activities

Meetings /Workshop/Seminar/Training attended by officers of AASD, IMD, New Delhi; Agrimet Division, IMD Pune; RMCs/MCs and AMFUs.

- Dr. M. Mohapatra, DGM, IMD, New Delhi, Dr. S. D. Attri, Scientist-F, AASD, IMD, New Delhi and Dr. R. K. Giri, Scientist E, IMD, New Delhi attended RA II Management Group Meeting of World Meteorological Organisation through video-conferencing on 24th April 2020.
- Dr. K. K. Singh, Head (Agromet), AASD, IMD, New Delhi attended
 - Meeting chaired by National Disaster Management Authority (NDMA) to discuss MoAg & FW's National Agriculture Disaster Management Plan (NADMP) prepared by Working Group members on 11th June 2020.
 - Meeting on "Issuing block level weather and crop specific advisories to farmers" organised by Department of Agriculture, Government of Bihar on 23rd June 2020.
 - Meeting of Project Monitoring and Advisory Committee for the umbrella scheme Atmosphere & Climate Research-Modelling Observing Systems & Services (ACROSS) to monitor the periodic progress of the scheme and to suggest suitable remedial measures for successful implementation of the activities.

- **Dr. S. D. Attri, Scientist–F, AASD, IMD, New Delhi** attended
 - Consultation Workshop through video–conferencing on "Business Recovery Challenges & Strategies for Agriculture Sector" organised by National Institute of Disaster Management (NIDM) on 12th April 2020.
 - Meeting to discuss the report on “Agro–Meteorological Advisory Services” by Centre for Science and Environment (CSE), New Delhi held under the chairmanship of Secretary, MoES on 28th April, 2020
 - Online meeting on “Long Term Ecological Observatories” of Ministry of Environment, Forest and Climate Change on 2nd May 2020.
 - High Level Monitoring Committee meeting of ICAR Flagship programme on “National Innovations” in Climate Resilient Agriculture (NICRA) chaired by Secretary, DARE and DG, ICAR on 23 June, 2020 through Video Conference.
 - Meeting on CSE (Centre for Science and Environment) Report on “Agromet Services” chaired by Secretary, MoES on 24th June 2020.
 - Webex meeting on AGRIMET–DSS Demo organized by WoTR, Pune on 26th June 2020.
 - National Supercomputing Mission (NSM) Project Review Meeting organised by CDAC Pune on 27th June 2020.

- **Dr. Kripan Ghosh, Head (Agrimet) & Scientist–F, IMD, Pune and Shri R.Balasubramanian, Scientist–E, Agrimet Division, IMD, Pune** attended
 - The webinar on “Agrometeorological Advisories” organized by Centre for Science & Environment (CSE), New Delhi and interacted with scientists through video conference using zoom on 23rd April 2020.
 - Video conference on “India Meteorological Department Sectoral Application” and interacted with the scientists from Meteo France International (MFI) on 24th April 2020.
 - The meeting on “*Kharif* Campaign and South West monsoon 2020 for Maharashtra” organized by State Department of Agriculture, Government of Maharashtra on 21st May 2020 through video conferencing.
 - The meeting for finalization of SOPs under GKMS through video conference on 25th June 2020.
 - The Review Meeting of GKMS activities chaired by Director General of Meteorology, IMD, New Delhi along with officials of AASD on 26th June 2020. In the meeting, Director General of Meteorology has suggested to prepare and display instructions (Dos and Don’ts) for extreme weather events to farmers and send alerts and warning videos on popularization of Meghdoot Apps.

- The Web Conference along with AASD officials on “Use of Agromet DSS for Automated Generation of Agromet Advisories” organized by Watershed Organisation Trust (WOTR) on 26th June 2020.
- **Dr. K. K. Singh, Head (Agromet), AASD and Dr. D. R. Pattanaik, Scientist-F, IMD, New Delhi** attended through VC the meeting of The Food and Agriculture Organization (FAO), Rome Desert Locust Information System on 29th June 2020.
- **Smt Priyanka Singh Scientist-C, AASD, IMD, New Delhi** attended webinar "CSE Webinar on Agrometeorological Advisories" on 23rd April 2020.
- **Dr. G. Sreenivas, Principal Nodal Officer and Dr. K. Indudhar Reddy, Technical Officer, AMFU, Hyderabad, Telangana** attended a webinar on “Forecast of Monsoon Onset 2020: Central India and Telangana” on 14th May 2020 organised by Professor Jayashankar Telangana State Agricultural University, Hyderabad.
- **Dr. K. Indudhar Reddy, Technical Officer, AMFU Hyderabad, Telangana** attended one day National level Webinar on “Climate Smart Agriculture and Entrepreneurship Development” on 16th May 2020 organised by Remote Monitoring and Control (RMAC), Vasanthrao Naik Marathwada Krishi Vidyapeeth, Parbhani, Maharashtra.
- **Dr. Ananta Vashisth, Nodal Officer, AMFU, New Delhi** attended Webinar on “Weather Information Services for Agriculture, Centre for Science and Environment” on 23rd April 2020.
- **Dr. R. H. Patil, Nodal Officer, AMFU, Dharwad, Karnataka** participated as Resource Person in online trainings conducted by MPKV, Rahuri, VNMPV, Parbhani and CAU, Imphal on Monsoon, Agrometeorology, Climate change and Precision Agriculture during 30th April to 3rd May 2020.
- **Dr. Sameera Qayoom, Principal Nodal Officer, AMFU, Srinagar, Jammu & Kashmir** attended one week training programme on “Advanced Agro meteorological Techniques for Climate Agriculture organised by Centre for Advanced Agricultural Science and Technology (CAAST), Mahatma Phule Krishi Vidyapeeth, Rahuri, sponsored by National Agricultural Higher Education Project (NAHEP) during 30th April to 1st May 2020.
- **Dr. U. P. Shahi, Nodal Officer, AMFU, Modipuram, Uttar Pradesh** participated in webinar on 2020 prediction and strategy for agriculture and applied sector in the context of covid 19 on 14th June 2020 organised by Uttar Pradesh. Council of Agricultural Research (UPCAR), Lucknow.

Lectures

- **Dr. K. K. Singh, Head (Agromet), AASD, IMD, New Delhi** delivered lecture on
 - "Impact of lockdown on Environment in India" in webinar organized by Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalior on the occasion of World Environment Day on 5th June, 2020 under National Agricultural Higher Education Project (NAHEP).
 - "Weather & Climate Forecast and Gramin Krishi Mausam Seva in India: An effective climate services for Agriculture sector" in one day Webinar on "Monsoon 2020 prediction and strategies for agriculture and allied sectors in the context of COVID-19" organized by U.P. Council of Agricultural Research on the occasion of its 31st Foundation day on 14th June 2020.
- **Dr. S. D. Attri, Scientist-F, AASD, IMD, New Delhi** delivered
 - Inaugural talk through VC on "Challenges of Climate Change and Biodiversity under Current Scenario" on the occasion of World Environment Day on 5th June 2020 organised by Maharshi Dayanand University (MDU), Rohtak, Haryana.
 - Invited talk on "Climate Change implications and management strategies" in International webinar organised by Central University of Haryana and RPS College, Mahendergarh on 23rd June 2020 .
- **Shri Anand Sharma, Scientist-F, AASD, IMD, New Delhi** delivered a lecture on
 - "Climate Change and had an interactive session at the Webinar organized by The Indian Society for Training and Development (ISTD) on 9th May 2020.
 - "Weather and Climate issues in Himalayan Ecosystem in a Webinar" organized by School of Disaster Management, Jawaharlal Nehru University (JNU) on 10th May 2020.
 - "Role of weather in Agriculture" on 13th May 2020 through Facebook. The lecture was organized by the Magazine Fasal Kranti.
 - "Weather based Agro-advisories" through Facebook. The lecture was organized by the Magazine Krishi Jagran on 14th May 2020.
 - "Weather and Weather based Agro-advisories" at the webinar COVID-19 and Agriculture organized by Department of Water Resources, Indian Institute of Technology, Roorkee on 16th May 2020.
 - "Role of Weather Monitoring and Prediction for Early Warning of Weather Hazards" in the two days workshop on "Disaster Management" organized by the Department of Civil Engineering, Aligarh Muslim University, Aligarh, Uttar Pradesh on 21st May 2020.
 - "Weather and climate issues" to the students of Sriram Millennium School, Gurugram on 26th May 2020.

Publication

- **AMFU, Jharnapani, Nagaland** released a handbook on “Weather Based monthly Agro Advisories” by P. h. Romen Sharma, Imtisenla Walling, D. J. Rajkhowa and Temjenna Jamir.



- **Dr. Ananta Vashisth, Nodal Officer, AMFU, New Delhi.**
 - **Vashisth, Ananta**, Goyal, Avinash and Krishanan, P (2019). Effect of weather variability on growth and yield of wheat crop under semiarid region of India, *Journal of Agrometeorology*, Accepted ; 22 (2) 2020.:124-131.
 - Meena, Rekha, **Vashisth, Ananta** and Das, T. K. (2020). Crop water requirement for wheat under different conservation practices in the semi arid region of India *Journal of Soil and Water Conservation* 19(1): 65-72.
- **Dr. Sameera Qayoom, Principal Nodal Officer, AMFU, Srinagar, Jammu & Kashmir :**
 - B. A. Lone, A. Fayaz, S. Qayoom, R. H. Kanth, Z .A Dar, P. Singh ,S. Kumar and N. Mushatq (2020). Simulating maize yield at enhanced level of temperature using CERES Maize Model DSSAT 4.7. *Journal of Agro meteorology* in June, 2020.

Book chapters:

- Soil water and nitrogen balance study of maize using CERES maize model in DSSAT published by *Book Publisher International* on 30th May 2020
- Simulating the impact of climate change on growth and yield of maize using CERES maize model under temperate Kashmir published by *Book Publisher International* on 30th May 2020.
- Climate change and its impact on crop productivity published by *Book Publisher International* on 30th May 2020.

Achievement

- **Dr. Ananta Vashisth, Nodal Officer, AMFU, New Delhi** received “Women Researcher Award” by VDGGOOD Professional Association, India and “Expert honour in Agromet Advisory services” by Director, Indian Agricultural Research Institute (IARI), New Delhi.



Media Interaction

- **Shri Anand Sharma, Scientist-F, AASD, IMD, New Delhi** gave TV interviews to NDTV, TV-18, News Nation, TV-9 DD Kisan, AIR, DD in person and through Skype.



- **Dr. S. D. Attri, Scientist-F, AASD, IMD, New Delhi** participated in telephonic All India Radio programme on “Climate Change and Agriculture” on 3rd May 2020 and in Programme through VC on “Monsoon and Agriculture” at DD Kisan, New Delhi on 11th June 2020.

- **Dr. Ananta Vashisth, Nodal Officer, AMFU, New Delhi** participated in Vichar Vimersh programme discussed on “मानसून में खेती” on DD Kisan Channel 19th June 2020 through skype. Also she delivered talk on “Agromet Advisory” in All India Radio Telecast.



- **Dr. K. Indudhar Reddy, Technical Officer, AMFU Hyderabad, Telangana** delivered a radio talk on “Importance of weather in crop production” in All India Radio on 14th May 2020.

- **Dr. A. L. Narayanan, Nodal Officer, Karaikal, UT of Puducherry** participated in All India Radio Live programme regarding alternate cropping programme for *Kharif* season with respect to change in climate scenario to the farmers of Karaikal, Nagapattinam, Tiruvarur, & Mayiladuthurai on 6th June 2020.



Awareness Programme

Farmers Awareness Programme (FAP)

Farmers' Awareness Programme (FAP) is one day duration programme organised by India Meteorological Department (IMD) and Agromet Field Unit (AMFU). Officers of GKMS Unit highlighted the aims and objectives of GKMS and significance of real time weather-based Agromet Advisory for successful farming and judicious use of available resources. Officers also explained Meghdoot application in the FAP. Meghdoot is a joint initiative of the IMD and Indian Council for Agriculture Research (ICAR) to bring high resolution weather forecast based Agromet Advisories to farmers in vernacular. The Meghdoot App allows farmers and interested users to access these advisories in a user friendly manner. During the FAPs, mobile numbers of farmers were collected to register in mkisan portal.

FAP at East Region

State	AMFU	Place	Date	No. Of farmers
Jharkhand	Dumka	Daldali village, Boarijor block, Godda district	26.06.2020	24
		Tularam Bhuska village, Boarijor block, Godda district	26.06.2020	27
		Kushma village, Boarijor block, Godda district	26.06.2020	20
		Chakeshwari Farm village, Godda district	05.06.2020	15

FAP at North East Region

State	AMFU	Place	Date	No. Of farmers
Assam	Sonitpur	Khatargaon village, Gohpur block, Biswanath district	21.05.2020	35
		Bordup village, Gohpur Block, Biswanath district	21.05.2020	35

FAP at North Region

State	AMFU	Place	Date	No. of farmers
Uttar Pradesh	DAMU, Sahjahanpur and AMFU,	Online Awareness program for the farmers of Sahjahanpur district	28.04.2020	20
	Modipuram through whatsapp	Online awareness program for the farmers of Sahjahanpur district	11.05.2020	20
		Online awareness program for the farmers of Sahjahanpur district	27.05.2020	20

FAP at West Region

State	AMFU	Place	Date	No. Of farmers
Gujarat	Navsari	Nani Vahiya village, Dharampur block, Valsad district	29.05.2020	15
		Sampada village, Pardi block, Valsad district	13.06.2020	17
		Jalapore village, Navsari district	19.06.2020	81
		Lavkar village, Kaprada block, Valsad district	27.06.2020	27

Field visit

AMFUs made field visit to monitor the standing crop coverage and Pests and Diseases attack on the standing crops and to suggest its control measures. Also to aware farmers about use of Weather-based Agromet Advisories and its importance in increasing the farm productivity and activities under GKMS project to the farmers. Officers gave detailed information of Farmers' registration in m-kissan Portal and SMS service.

State	AMFU	Place	Date	Subject
Andhra Pradesh	Chintapalle	Yeblum, Devarapalli and Ligavaram villages in Chintapalle	29.06.2020	<ul style="list-style-type: none"> To study pests and diseases attack in paddy nursery and on maize and turmeric crop. visited the poultry unit near farmers fields.
West Bengal	Kakdwip	Rudranagar village, Sagar block	22.05.2020	<ul style="list-style-type: none"> Recommended special advisory for paddy cultivation affected due to the extreme severe cyclone "Amphun"
		Dakshin Chandranagar village at Namkhana block	23.05.2020	<ul style="list-style-type: none"> Recommended special advisory for damaged betel vine cultivation and uprooted fruit trees with premature fruits due to the effect of extreme severe cyclone "Amphun"
		Akshaynagar village, Kakdwip block	25.05.2020	<ul style="list-style-type: none"> Recommended advisories for fishery after extreme severe cyclone "Amphun"

		Akshaynagar village, Kakdwip block	20.06.2020	<ul style="list-style-type: none"> Discussed effect of heavy rainfall in seed bed of <i>Aman</i> paddy
		Kashinagar village, Kakdwip block	30.06.2020	<ul style="list-style-type: none"> Caring of seed bed of <i>Aman</i> paddy and disease control of vegetable field mainly rotting at the base of flowers.

Other Awareness Programme

AMFUs participated in different awareness programmes like Kisan Mela, seed day, World Soil day etc. to inform about activities under GKMS project to the farmers. Officer of GKMS Unit briefed about the usefulness of Agromet bulletins, mKisan portal and Meghdoot App. They displayed different types of charts which depicted the importance of meteorology to the field of Agricultural Sciences and farmers. Most of the Meteorological surface observation instruments were also put on display. During the mela, mobile numbers of farmers were collected and registered in mkisan portal. AMFUs disseminated leaf let on Agromet Advisory Services and create awareness about the Climate Smart Agriculture and Use of Digital Gadgets.

State	AMFU	Programme	Place	Date	No. of farmers
Tamil Nadu	Coimbatore	Training Programme on "Introduction to weather and climate from common man's perspectives"	online	17.06.2020 to 26.06.2020	131
Meghalaya	Barapani	Display printed copies of Agromet Advisories for Fall Army Worm pest attack management in Maize crop.	Sumer village, Umsning block and Quinine village, Umling block in Ri-Bhoi district	12.05.2020	
Jammu & Kashmir	Srinagar	online webinar on Digital Pedagogical Practices: Challenges and Opportunities in Agricultural Sciences	Srinagar	20.05.2020	
Andhra Pradesh	Chintapalle	Training programme on "Improved	Chintapalle	01.06.2020 & 02.06.2020	1 st day - 150 &

		technological interventions for enhancing the productivity potential of oil seed crops & doubling of framers income in HAT zone of Andhra Pradesh”			2 nd day-100
UT of Puducherry	Karaikal	Training to Agricultural Technical officers on Contingency crop cultivation of Ragi	Karaikal	22.05.2020	15 Officers

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Photos

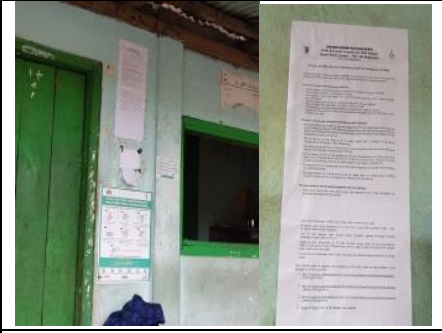
		
<p>FAP at Jalalpore village (AMFU, Navsari)</p>	<p>FAP at Nani Vahiya village (AMFU, Navsari)</p>	<p>FAP at Lavkar village (AMFU, Navsari)</p>
		
<p>FAP at Kushma village (AMFU, Dumka)</p>	<p>FAP at Chakeshwari farm (AMFU, Dumka)</p>	<p>FAP at Daldali village (AMFU, Dumka)</p>
		
<p>FAP at Tularam Bhuska (AMFU, Dumka)</p>	<p>FAP at Bordup (AMFU, Sonitpur)</p>	<p>FAP at Khatargaon village, (AMFU, Sonitpur)</p>
		
<p>Field visit at Dakshin Chandranagar village (AMFU, Kakdwip)</p>	<p>Field visit at Akshaynagar village (AMFU, Kakdwip)</p>	<p>Field visit at Kashinagar village (AMFU, Kakdwip)</p>



**Field visit at Akshaynagar village
(AMFU, Kakdwip)**



**Field visit at Yeblum, Devarapalli & Ligavaram
villages (AMFU, Chintapalle)**



**Display copies of Agromet Advisory at
Ri-Bhoi district (AMFU, Barapani)**



**Training programme at Karaikal , UT of
Puducherry**



Training programme at AMFU, Chintapalle



**Training programme at AMFU,
Coimbatore**