

# ग्रामीण कृषि मौसम सेवा GKMS-News



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Agricultural Meteorology Division  
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## *International Activities*

Dr. K. K. Singh, Head, AASD and Dr. N. Chattopadhyay, Head, Agrimet & Scientist -F participated in the Climate Services for Resilient Development in South Asia (CSRD) workshop on “Participatory and Institutional Approaches to Agricultural



Climate Services Development. A South and South East Asia Regional Technical and Learning exchange in Dhaka, Bangladesh from 17-19 September, 2017. The primary objective of the workshop was to exchange ideas, stories, strategy, and to network to support the growth of farmer-focused and relevant agricultural climate services in the region. The goal of the workshop was to review South and South East Asian regional agricultural climate services activities with an emphasis on participatory development and institutional arrangements to facilitate the flow of relevant climate advisories to farmers with appropriate feedback to scientists, extension agencies, and policy makers.

Dr. S. D. Attri, Scientist-F, AASD participated in International Smart Farmer Conclave organized by DBT in New Delhi during 29-31 August, 2017 which was visited by Hon'ble Minister of Science and Technology and Earth Sciences.



Dr. S. D. Attri, Scientist-F, AASD served as Expert for Shastri Indo-Canadian Institute, New Delhi for evaluation of proposal from faculty, researchers and students for Indo-Canadian support for funding in the area of environment.

## *National Activities*

Dr. A. K. Sahai, CRS, Pune, Dr. K. K. Singh, Head, AASD, Dr. Chattopadhyay, Head, Agrimet & Scientist-F and Dr. Mali, Scientist-F participated in the Farmers Awareness Program (FAP) on 23<sup>rd</sup> August 2017 at Siwan, Patna.



Dr. N. Chattopadhyay, Head and Scientist-F, IMD, Agrimet Division, Pune also attended FAP at AMFU, Kakdweep, West Bengal on 25<sup>th</sup> August, 2017.

25<sup>th</sup> Zonal Research & Extension Advisory Council (ZREAC) meeting of Anand Agricultural University, Anand for Central Gujarat (Anand, Kheda, Vadodara, Ahmedava & Panchmahal districts) was held in AAU, Anand on 27<sup>th</sup> September, 2017 at AAU, Anand (Gujarat) and was attended by around 160 members from all AAU University officers and Scientist in charge of Research Stations, District Agriculture Officers of Gujarat Government, Krishi Vigayan Kendra (KVK) I/C and some progressive farmers. The event was utilised to sensitize the officials about augmentation of Agromet Adviosry services, establishment of DAMUs, enhancement of farmers data base, dissemination of bulletins, role of District Agriculture Officers of State Agriculture department in advisory bulletins etc. **Dr. S. D. Attri, Scientist-F, AASD** gave a presentation on “Weather forecasting & Agro-advisory” to highlight all above issues.



Officers from AASD participated in the Exhibition organized by MoES in Parliament from 28<sup>th</sup> July to 11<sup>th</sup> August, 2017.

### *Meetings /Workshop/Seminar attended by officers AASD, New Delhi and Agrimet, Pune :*

- ◆ Meeting at Krishi Bhawan on 30<sup>th</sup> July, 2017. Meeting was chaired by Dr. S K Pattanayak, Secretary Agriculture Cooperation & Farmers Welfare.
- ◆ Meeting organized by MNCFC, Department of Agriculture & Cooperation on 25<sup>th</sup> July, 2017 for Drought manual revision based on the observations from National Disaster Management Centre, Gov. of Karnataka.
- ◆ Meeting on “Automation of Agromet Advisory Services” held at CRIDA, Hyderabad on 3<sup>rd</sup> August, 2017.

- ◆ International Smart Farmer Conclave organized by DBT in New Delhi during 29-31 August, 2017.
- ◆ Fifth meeting of the Scientific & Technical Committee (STC) held on 5<sup>th</sup> August, 2017 on development and application of Extended Range Forecast System (ERFS) for climate risk management in agriculture, phase-II. He also participated Workshop on Atomization of Agromet Advisories for the AMFUs in Maharashtra: Induction and Utilization of Decision Support Software.
- ◆ Meeting with Commissioner of Agriculture, Govt. of Bihar on 21<sup>st</sup> and 22<sup>nd</sup> August, 2017 for discussion on improvement of Agromet Advisory Services.
- ◆ Meeting on “Automization of Agromet Advisories” organized by Watershed Organization Trust (WOTR), Pune on 17<sup>th</sup> August, 2017 at YASHADA, Pune.
- ◆ Meeting on “Agroclimatic classification in India” held at IMD Pune on 1<sup>st</sup> August, 2017.
- ◆ Meeting on “Automation of Agromet Advisory Services” held at CRIDA, Hyderabad on 3<sup>rd</sup> August, 2017.
- ◆ The USDA India Agricultural outlook forum 2017 workshop at NASC, Pusa on 31<sup>st</sup> August, 2017.
- ◆ Training programme on “Introductory Crop Micrometeorology” as Chief Guest organized by Mahatma Phule Krishi Vidyapeeth, Department of Agriculture Meteorology, Pune held on 7<sup>th</sup> September, 2017 at Pune.
- ◆ Workshop on “Stakeholder engagement in hydro climate services in India” organized jointly by Anglia Ruskin University ( India-UK Water Centre) United Kingdom and Indian Institute of Tropical Meteorology (IITM), Pune held on 14-15 September, 2017.
- ◆ Meeting with DDG (Agric. Ext.), ADG (Agric. Ext.) and other senior officers of ICAR for modification of MOU between both the organizations and expediting the establishment of 200 DAMUs at KVKs of ICAR .

## *Awariness Programmes*

### *Farmers Awareness programme*

AMFU, Kakdwip, West Bengal organized Farmers Awareness programme (FAP) on “Climate, Weather and crops” on 25<sup>th</sup> August, 2017. Subject experts explained elaborately the effect of adverse weather on crop cultivation, contingency planning to decrease the loss due to effect of adverse weather, scope of pulses and oil seed cultivation in upland area in Patharpratima block of Sundarban region, livestock production of Sundarban region and popularization and strengthen of extension activity in the region.



AMFU, Diphu, Assam organized FAP & Farmers training programme under DRMR-AAU Collaborative Research Project on 9<sup>th</sup> August, 2017 to create awareness among farmers about the GKMS and its importance for farmer community. Smt. Taposhree Das, Technical officer of GKMS Unit introduced GKMS Project. Dr. U. Borthakur, Nodal officer of GKMS, Unit explained how to grow the plants from cutting of citrus in orchard and its relation with weather.



**AMFU, Faridkot, Punjab** organized two FAPs: first at Sikhawala village, Faridkot on 12<sup>th</sup> July, 2017 and second at Behlewal village, Faridkot on 4<sup>th</sup> August, 2017 to aware the farmers for stopping the burning of agricultural residues and safe pesticides application in crop fields. The farmers were also discussed about problems originated from straw burning. The effects of pollutions and climate change on crop growth and productivity of agriculture and allied sectors were also discussed. Major insect-pest and diseases of *Kharif* crops were also discussed with farmers by concerned scientists. Experts gave lectures about related subjects.

**AMFU, Sonitpur, Assam** conducted FAP on 29<sup>th</sup> July, 2017 at Gohainkh at Baliyan village, Telahi, Lakhimpur in collaboration with “Indo-Global Social Service Society (IGSSS)” to sensitize farmers about the utility of Agromet Advisory services and also to aware farmers to post flood paddy cultivation as contingency measures to cope up with flood. Dr. Prasanta Neog, Nodal Officer highlighted the importance of Agromet Advisory Services and discussed about the management of flood situation through alternate short duration cultivars of rice and explained about different rice varieties suitable for post flood and flash flood situation along with their package and practices for different land situation. Smt. Rashmi Rekha Changmai, Technical Officer gave a brief presentation on agronomic practices of cultivation of Dishang and other short duration cultivars in flood affected areas. She also explained about cultural, mechanical and chemical control of insect-pests, diseases. Also a field visit also made on “Post flood paddy cultivation with short duration Sali rice variety *Dishang*” at Gohainkh at Baliyan village.



**AMFU, CIARI, Port Blair** organized FAP on “Moisture stress and Pest management during dry season for Sustainable Agriculture” at Urmilapur, North and Middle Andaman district on 14<sup>th</sup> September, 2017 under GKMS in collaboration with the KVK, Nimbudera. Dr. A. Velmurugan, Principal Scientist elaborately described to the farmers about reduction of pests in vegetable crops during post monsoon period. He also educated them on moisture stress management in arecanut and coconut plants during dry period as these two crops are generating maximum revenue for their livelihood.

### *Field visit*

**AMFU, Karaikal, Puducherry** organised a field visit to review physiological related weather problems in cotton field on 12<sup>th</sup> September, 2017 at Neravy village. Dr. J. Gokila, Technical officer inspected the cotton fields for the outbreak of weather related problems in cotton and recommended management practices to the farming community. The farmers were realising about the weather related problems in cotton.





**AMFU, Majhian, West Bengal** made three field visits of flood affected areas of Dakshin Dinajpur district on 23<sup>rd</sup>, 27<sup>th</sup> and 28<sup>th</sup> August, 2017. Officers of the AMFU explained the contingent plan for post flood condition in flood affected area.

The RARS, Scientist & Nodal officer & Technical officer of GKMS Project of **AMFU, Diphu, Assam** visited rice field and poultry and piggery farm near Hariojan, district Karbi Anglong, Bokajan block on 15<sup>th</sup> July, 2017.



**AMFU, Pundibari, West Bengal** made two field visits : first on 21<sup>st</sup> August, 2017 at Satmile, Cooch Behar-I block and second on 23<sup>rd</sup> August, 2017 at Dinhata-I block to provide technical help to farmers regarding post flood situation in Cooch Behar district. Seed, leaflet and weather report bulletin were distributed during the visit.

### *Other awareness programmes*

Dr. A. L. Narayanan, Nodal Officer, **AMFU, Karaikal, Puducherry** participated in All India Radio programme on 18<sup>th</sup> July 2017 to create awareness among farmers and public about IMD weather forecasting on 18<sup>th</sup> July 2017.



Dr. A. L. Narayanan, Nodal Officer, **AMFU Karaikal, Puducherry** participated in one day programme at Puliur village near Mayiladuthurai at farmers meeting for Samba rice production in relation to weather along with Shri Meikanadan, Reliance foundation, Mumbai and discussed the weather related problem in rice production. The farmers were realizing about the weather related problems in rice.

**AMFU, Faridkot, Punjab** participated in the exhibition on Kisan Divas at Regional Station, Punjab Agricultural University, Ludhiana, Faridkot on 12<sup>th</sup> September, 2017. AMFU, Faridkot displayed various Agromet products and services available for farmers. Farmer's registration has been carried out during the program for SMS/ advisory bulletin. The trends of climatic parameters were displayed in banners. In addition, the effects of weather variability on crops were described through poster presentations. The delegates along with farmers visited to Agrometeorological observatory, demonstration Field and Technology Park. Dr. Sudhir Kumar Mishra, Technical Officer of GKMS Unit described about the functioning of the Agrometeorological observatory.



Dr. Latief Ahmad and Dr. Raihana AMFU, Srinagar, Jammu and Kashmir attended National Seminar on Saffron Production and promotion during 7-8<sup>th</sup> August, 2017 organized by NHB and SKUAST-K and attended National seminar on development through science and technology organized by Indian Science Congress association Srinagar Chapter during 25-26<sup>th</sup> September, 2017.

## *Media Interaction*

- ◆ Shri Anand Sharma gave interview in studio of DD Kisan on 13<sup>th</sup> and 22<sup>nd</sup> July, 2017 regarding the Agromet Advisory Services.
- ◆ Shri Anand Sharma, Scientist-F was interviewed Live by DD Kisan on 28<sup>th</sup> September, 2017 by Rajya Sabha TV on 22<sup>nd</sup> September, 2017 and Doordarshan TV on 21<sup>st</sup> September, 2017 respectively.
- ◆ Shri Anand Sharma, Scientist-F was interviewed by DD Kisan TV (Phone) for weather forecast on daily basis on 27 occasions during August, 2017.
- ◆ Shri Anand Sharma, Scientist-F interviewed by Julie M McCarthy, Head American Public Radio regarding Climate Change issue on Himalaya specially on Uttarakhand.
- ◆ Dr. S. D. Attri participated in Doordarshan programme New Delhi programme on "Weather and Agriculture" which was telecast on 22<sup>th</sup> September, 2017.



## *Lectures*

- ◆ **Shri Anand Sharma, Scientist-F, AASD** delivered lecture on "Climate Change and Mitigation" in the meeting organised by Lal Bahdur Shastri National Academy of Administration on 17<sup>th</sup> July, 2017.
- ◆ **Dr. S. D. Attri, Scientist-F, AASD** delivered lead talk on "Advances in Meteorological Observations and Services" in "2017 Asia Pacific Agriculture Insurance Forum" held in New Delhi during 26-27 September, 2017.
- ◆ **Dr. K. K. Singh, Head, AASD and Dr. Kripan Ghosh, Scientist-E, AASD** delivered lecture in the training "Development of Climatic Risk Management tools in Agriculture using Extended Range Forecast" during 18-24 September, 2017 at RVSKVV, Gwalior, Madhya Pradesh under the ERFS project.
- ◆ **Dr. Manjusha Kulshreshtha, AMFU, Anand, Gujarat** Principal Nodal Officer and Professor and Head Department of Agricultural Meteorology delivered two lectures: first on "Effect of Climate change on Agriculture" to "Diploma in Agriculture Extension Services for Input Dealers (DAESI)" on 22<sup>nd</sup> July 2017 at Anand Agricultural University, Anand and second on "Weather Forecasting and Agromet Advisories" in the meeting of "Zonal Research and Extension Advisory council (ZREAC)" on 27<sup>th</sup> September 2017.



- ◆ Shri. V. B. Vaidya, **AMFU Anand, Gujarat**, Assistant Professor of Agrometeorology and Nodal Officer, GKMS Unit delivered invited talk in National training Programme on "Introductory Crop Micrometeorology" sponsored by ICAR, New Delhi at CAFT in Agril. Meteorology, College of Agriculture, Pune (MS) during 14-15 September, 2017.
- ◆ Dr. Veena Sharma, **AMFU, Chatha, Jammu**, Technical Officer of GKMS Unit delivered lecture on "Impact of climate change in Agriculture" on 24<sup>th</sup> August, 2017 and 15<sup>th</sup> September, 2017 in one week induction training programme for village agriculture extension assistants organised by SAMETI.
- ◆ Dr. Mahinder Singh, **AMFU, Chatha, Jammu**, Nodal Officer of GKMS Unit delivered lecture on "Climate change-an overview" on 29<sup>th</sup> August, 2017 in Short training course Sustaining Agricultural and livestock productivity in the scenario of climate change organized by Directorate of Research, SKUAST-Jammu.
- ◆ Dr. Mohan Singh Jangra, Nodal Officer, **AMFU, Solan, Himachal Pradesh** presented the research paper entitled "Temperatures zoning and its trend analysis for horticulture crops in north-west India using GIS in context to climate change" in the International Conference on "Horticulture: priorities and emerging trend" held at Indian Institute of Horticultural Research (ICAR) Bengaluru during 4-8 September, 2017. He also presented a research paper entitled "LGP Zoning and Trend Analysis over NW India under Changing Climate Using GIS" in the national conference on "Alternate farming System to enhance farmers income" held at YSP UHF Nauni, Solan during 19-21 September, 2017.
- ◆ Smt Imtisenla Walling, Technical Officer, **AMFU, Jharnapani, Nagaland** delivered a lecture on "Importance of Agromet Advisory services in context to climate change" on 22<sup>nd</sup> August, 2017 during a training programme on "Adoption and mitigation approaches for climate resilient agriculture through Resource Conservation Technologies (RCTs) during 21-23 August, 2017.
- ◆ Dr. A. L. Narayanan, Nodal Officer, **AMFU, Karaikal, Puducherry** presented a guest lecture on Sustainable weather development" to the school teachers at one day training on Science and technology & development for sustainable development at Karaikal .

## **Publication**

- ◆ A Paper on "Monitoring Convective Activity over India During Pre-Monsoon Season-2013 under the SAARC STORM Project" by Kamaljit Ray, Bikram Sen, Pradip Sharma was published in Vayumandal Volume 42(2),2016.
- ◆ Report on "Severe Weather Events: Post-Monsoon Season (July-December, 2016) by Kamaljit Ray and Priyanka Singh published in Vayumandal Volume 42(2), 2016.
- ◆ Sathi Devi & Kamaljit Ray , 2017 , A Report on "Severe Weather Events: Winter and Pre-monsoon season (January-June, 2017), Vayumandal ,43(1), 82-92.
- ◆ S. D. Attri, Suresh Tiwari and Kamaljit Ray, 2017, Challenges and Opportunities of Climate Change and Sustainable Agriculture: A Review, Vayumandal, 43(1), 27-37.
- ◆ **AMFU, Solan, Himachal Pradesh** : Mohan Singh, Ram Niwas , A. K. Godara, Rajeev and M. L. Khichar (2017). Pheno-Thermal Response Of Pears In Western Indo Gangetic Plain Mausam 68 (4), 745-750.



- ◆ **AMFU, Sonitpur, Assam** :Medhi. Kuldip, Neog .Prasanta, Goswami. B, Deka. R. L, Kurmi. K, Sarmah. K and Khanikar. P.G,(2017): Evaluation of CERES–Rice model for Upper Brahmaputra Valley Zone of Assam *Journal of Agrometeorology* .19(3):270–273.
- ◆ **AMFU, Srinagar, Jammu and Kashmir** :
  - Ahmad, Latief; Parvaze, Sabah and Kanth, R.H (2017) Agro meteorological indices and crop water requirement of Saffron in Kashmir valley in the proceedings of National Seminar on Saffron Production and promotion during 7–8<sup>th</sup> August, 2017 organized by NHB and SKUAST –K.
  - Ahmad, Latief; Parvaze, Sabah and Kanth, R.H (2017) Reference evapotranspiration and crop water requirement of apple (*MalusPumila*) in Kashmir Valley *Journal of Agro meteorology* September 2017–10–09.
- ◆ **AMFU, Faridkot, Punjab** :
  - Singh Kulvir, Singh Harinder Pal, Rathore Pankaj, Singh Kuldeep and **Mishra Sudhir Kumar** (2017). Manipulations of source sink relationships through mepiquat chloride for enhancing cotton productivity and monetary returns in north western India. *J. Cotton Res. Dev.* 31 (1) 62–68. **NAAS Rating: 4.69.**
  - Yadav S.B., Patel H.R., **Mishra S.K.**, Parmar P. K., Karandey B.I. and Pandey V. (2017). Impact assessment of climate change on groundnut yield of middle Gujarat region. *Mausam.* 68(1) 93–98. **NAAS Rating: 6.3.**
  - Dar Ejaz Ahmad, Brar A.S., **Mishra S. K.** and Singh K. B. (2017). Simulating response of wheat to timing and depth of irrigation water in drip irrigation system using CERES–Wheat model. *Field Crops Res.* 214 (2017): 149–163.

### *Upcoming events*

- **16–17 April 2018** : Technical Conference on Agricultural Meteorology, Seoul, Republic of Korea.
- ◆ **17–20 April 2018**: 17<sup>th</sup> Session of the Commission for Agricultural Meteorology (CAgM), Seoul, Republic of Korea. (more information. <http://www.wmo.int/pages/prog/wcp/agm/upcomingmeetings.php>)

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