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National Activities

Installation of Agromet Observatories


Establishment of District Agrometeorological Units (DAMUs)

37 DAMUs have been establishment at KVKs for initiation of Block level Agromet Services in the country

Meetings/Workshop/Seminar attended by officers of AASD, New Delhi; Agrimet, Pune and AMFUs.

⇒ Dr. K.K. Singh, Head, AASD, IMD, New Delhi participated in:

♦ Multi stakeholder consultative workshop on “Food security for Himalayan Farmers–Lesson learnt and best practices” at India Habitat Centre, New Delhi on 5th March 2019.
♦ Review committee meeting of Research Analyst working in MNCFC on 6th March.
♦ Meeting “Future of Agromet Advisory” organized by Climate team, Centre for Science and Environment on 28th March 2019 at India Habitat Center. He also made presentation on “Preparation of Agromet Advisory”.

⇒ Dr. S. D. Attri, Scientist-F, AASD, IMD, New Delhi participated in meetings/delivered lectures:

♦ Meeting of Director ATARIs under the Chairmanship of DDG (AE) on 29th January 2019.
♦ Meeting of Committee for “Preparation on Agriculture Disaster Management Plan under Disaster Management Act 2005” at MoAg, New Delhi on 28th January 2019.
♦ Lecture on “Perspective of Agrometeorological Services in India in International Symposium on “Advances in Agrometeorology for Managing Climatic Risks of Farmers” (INAGMET 2019) held in New Delhi, India during 11–13 February 2019.
♦ Addressed in Valedictory function of National Seminar “Global Climate Change: Concerns &amp; Solutions” on 16th February 2019 at MDU, Rohtak.
♦ Lecture on “Augmentation of Agromet Services in India” in Brain Storming meeting on “Enhancing weather and climate applications on risk reduction in agriculture and water management” held at Jaipur during 18–19 February 2019.
♦ Lecture on “Augmentation of Agromet Services in India” at IMD, New Delhi to visiting faculty and research trainees at IASRI, New Delhi on 5th March 2019.
Keynote address on “Environmental Monitoring: State-of-the-art” and also served as Panellist in training Programme on “Capacity Building for Effective Environment Impact Assessment Appraisal” at WII, Dehradun during 7-8 March 2019.

Served as Chair of Working Group in “India-Denmark Workshop on Digital agriculture for accelerated climate risk management in India” held during 12-13th March 2019 at ICRISAT, Hyderabad.

Meeting of HPC on 25th March 2019 held at AIIMS, New Delhi.

Selection Committee Meeting for recruitment of SMS (Agrometeorology) and Agromet Observer for DAMUs at IARI, New Delhi on 27th March 2019.

Lecture on “Global warming/Climate change” in 2nd International Conference on Sustainable Technologies for Environmental Management at DTU New Delhi held during 25-26th March 2019.

Shri Anand Sharma, Scientist-F, AASD, New Delhi attended the following Meetings /Workshop/Seminar/ delivered lectures:

- International conference on “Climate change, impact, issues & management” organized with University of Rajasthan, Jaipur on 28th & 29th January 2019.
- “Climate Change, observation, Prediction and Projections” at the National workshop jointly organised by Indian Water Resources Society (IWRS) and Department of Water Resources Development and Management (DWRDM), IIT, Roorkee on “Flood Management under changing climate” on 1st February 2019 at IIT, Roorkee and was also one of the panellist for the recommendation session and member of the National organizing committee of the seminar.
- "Climate Projections" (with focus on Himalayas) at the 4th International Dialogue on Himalayan Ecology. Climate Change and the future of Agriculture on 2nd February 2019 at Chandigarh.
- “Climate change” at the HRDC, Kumaun University on 8th February 2019.
- “Fundamental concepts of weather forecasting and Early Warning” and “Thunderstorm Detection, Forecasting and Early Warning” at the Haryana Institute of Public Administration (HIPA), Gurugram on 11th and 12th February 2019.
- Drought meeting at MNCFC, PUSA, New Delhi on 14th February, 2019. The meeting was chaired by Joint Secretary, Ministry of Agriculture and Farmers Welfare.
- Co-Chaired the Risk Assessment/ Crop Insurance session in the International Workshop on “Earth Observations for Agricultural Monitoring” on 18-20th February 2019 and was also interviewed by Doordarshan. The workshop was organised by Mahalanobis National Crop Forecast Centre and Indian Council of Agricultural Research and Indian Society of Remote Sensing.
- International Symposium on “Advances in Meteorology for managing risks of farmers (INAGMET-2019)” at New Delhi organised by Association of Meteorologists.
- As a speaker in the Ted Talk session on “Climate Change” on 26th February 2019 at Dehradun organised by the Uttrakhand Council of Science and Technology (UCOST).
- As a Lead speaker in the Agricultural Science discipline for 13th Uttarakhand State Science Congress on 27th February 2019 at Dehra Dun by the Uttarakhand Council of Science and Technology (UCOST).
- Attended weekly Crop Weather Watch Group (CWWG) meeting at Krishi Bhawan.
- "Climate Resilient Agriculture” at the National workshop on “Building National STI Policy System and Governance for Effective R&D” on 5th March 2019 at Baba Bhimrao Ambedkar University, Lucknow.
- Meeting of Technical Advisory Committee (TAC) for Tamil Nadu and J & K under PMFBY on 6th and 19th March 2019 respectively.
- Lecture on “Role and likely impacts of Environmental Drivers in Himalayas” at the International workshop on “Land use land cover change and its impact on ecosystem and sustainable development in High Asia” organised by Institute of Economic growth, University of Delhi in collaboration with Chinese Academy of Sciences, China, ICI MOD and Tribhuvan University, Nepal on 18th March 2019.
• “Quantitative precipitation forecast with respect to Climate Change with live demo of activities of IMD” at the National training programme organised by National Institute of Disaster Management (NIDM), New Delhi on Flood Risk Management with respect to Climate Change on 27th March 2019.

• “Extreme weather and Risk Management” on 28th March 2019 at the National training programme organised by National Institute of Disaster Management (NIDM), New Delhi on Flood Risk Management with respect to Climate Change during 28-30 March 2019 at Pune.

• Talk on “Extreme weather and Risk Management” on 28th March 2019 and was the Chairman of the Technical session of “Monsoon Variability” on 29th March 2019 at the Annual Monsoon Conference, Role of weather and Climate data and Forecasting on Increasing Agricultural Production and Risk Management during 28-30 March 2019 at Pune.

⇒ Dr. K. K. Singh, Head, AASD and Smt Priyanka Singh, Scientist-B, IMD, New Delhi attended the FAI Advisory Committee meeting on “Information and Communication” on 19th March 2019 at FAI Board Room. Dr K K Singh also made presentation on “Premonsoon and Monsoon 2019: An Outlook”.

⇒ Dr. Kripan Ghosh, Head (Agrimet) and Shri. R. Balasubramanian, Scientist-D attended one day workshop on “Dissemination of weather based agricultural advisories to the farmers under Mahavedh Project” organized by Commissioner of Agriculture, Government of Maharashtra, Pune on 19th March 2019 at Agricultural College, Pune.

⇒ Shri R. Balasubramanian, Scientist-D, Agrimet Division, IMD, Pune attended Bilateral workshop on “Building a Composite Drought Monitoring Index for India” at IARI, New Delhi during 22-23 January 2019.

⇒ Dr. Kripan Ghosh, Head (Agrimet), Agrimet Division, IMD, Pune presented on “Progress and Plan of activities of Agrimet Division” during visit of Dr. M. Rajeevan, Secretary, Ministry of Earth Sciences to IMD, Pune on 25th March 2019.

⇒ Dr. Kripan Ghosh, Head (Agrimet) acted as member of scientific programme committee for 3 days workshop and National symposium titled “Annual Monsoon Workshop” (AMW-2018) and Professor D. R. Sikka Memorial National Symposium on “Role of Weather & Climate observations and forecasting of increasing agricultural productivity and risk management” at Meghadoot complex of Indian Institute of Tropical Meteorology, Pune during 28-30 March 2019.

⇒ Shri R. Balasubramanian, Scientist-D participated in the meeting through Video Conference with the Team members and World Meteorological Organization delegates to discuss about “Agromet Tools and Applications” on 20th March 2019.

⇒ Shri R. Balasubramanian, Scientist-D participated and presented “Monsoon and Agriculture 2018” in the Annual Monsoon Workshop organized by Indian Meteorological Society, Pune chapter held at Indian Institute of Tropical Meteorology, Pashan, Pune on 28th March 2019.

⇒ Shri S. S. Mairal, Meteorologist-B, Agrimet Division, IMD, Pune delivered lecture in the course of micro irrigation system “Use of conventional meteorological instruments & its role in Agriculture” for the students of Diploma in Agricultural science in Mahatma Phule Krishi Vidyapeeth, Rahuri on 13th February 2019.

⇒ Dr. A. L. Narayanan, Nodal Officer, AMFU, Karaikal, Tamil Nadu participated in International conference on “Sustainable agriculture and its role to mitigate climate change” organised by Zoology Department of Annamalai University, Chidambaram on 22nd February 2019.


⇒ Dr. R. L. Deka, Nodal Officer and Shri Athar N. Islam, Technical Officer of AMFU, Jorhat, Assam participated in the meeting chaired by Dr. K. J. Ramesh, DGM, IMD, New Delhi on “Ongoing activities and scopes of Agrometeorology under Gramin Krishi Mausam Sewa (GKMS) of AMFU Jorhat” at Department of Agrometeorology, Assam Agricultural University on 27th February 2019.

⇒ Dr. R. L. Deka, Nodal Officer and Shri. Athar N. Islam, Technical Officer of AMFU, Jorhat, Assam attended the Zonal Research & Extension Advisory Committee meeting held at Regional Agricultural Research Station, Titabor, Jorhat on 7th March 2019 to discuss various ongoing problems in the agricultural sector along with their remedies.
“IMD Foundation Day 2019” was organised at DAIC, New Delhi on 15\textsuperscript{th} January 2019 at DAIC, New Delhi wherein Dr. Harsh Vardhan, Hon’ble Union Minister for Earth Sciences, S & T and MoEF & CC, Padma Shri Kiran Kumar, Former Chairman ISRO, Dr. M. Rajeevan, Secretary, MoES and Dr. K. J. Ramesh, DG, IMD delivered inaugural address, Key Note address, Presidential Address and Foundation Day address respectively. Dr. S. D. Attri, Scientist-F, AASD, served as Chairman, Organising Committee of IMDFD 2019 and also delivered Vote of Thanks.

\textit{Dr. S. D. Attri, Scientist-F, AASD, IMD, New Delhi has been nominated as Member, Expert Team, Commission for Agricultural Meteorology, World Meteorological Organisation, Genèva, Switzerland}

⇒ Dr. Harsh Vardhan, Hon’ble Union Minister for Earth Sciences, S & T and MoEF & CC inaugurated North Karnataka Agrometeorological Forecasting and Research Centre (NKAFC) at Dharward, Karnataka in the august presence of Hon’ble MP Shri Prahlad Joshi, Secretary, MoES, Dr. K. J. Ramesh, DG, IMD and Vice Chancellor, UAS, Dharwar and other dignitaries on 15\textsuperscript{th} February 2019.

⇒ Agromet Advisory Service Division (AASD), IMD organized jointly with The Jawaharlal Nehru University, Indian Council of Agricultural Research (ICAR)-IARI and AAM organised International Symposium on “Advances in Agrometeorology for Managing Climatic Risks of Farmers” (INAGMET 2019) held in New Delhi, India during 11–13 February 2019 which was participated by more than 400 national and international delegates. The symposium was inaugurated by Secretary, MoES.

\textbf{Award}

Dr. Mahender Singh, Nodal officer, AMFU, Chata, Jammu received best oral paper presentation award for presenting paper on “Conditional Probability for Rainfall Analysis of Wet and Dry Spell for Crop Planning under different Agroclimatic Zone of Jammu Region” in International Symposium on Advances in Agrometeorology for Managing Climatic Risks of Farmers (INAGMET–2019) held at Jawaharlal Nehru University (JNU), New Delhi, during 11–13 February 2019.
Awareness Programme

Farmers Awareness Programme (FAP)

AMFU, Jharnapani, Nagaland organised two FAPs viz. first at Amaluma village, Dhansiripar block, Dimapur district on 7th March 2019 and second at Gaili village, Peren block, Peren district on 12th March 2019 to sensitize the farmer about the importance of Agromet Advisory Services provided under the GKMS project and empower the farmer community to adapt to climate change in agriculture and allied sectors. Farmers were also imparted knowledge on scientific management of piggery, poultry, use of artificial insemination in pig for breeding; management practices of various horticultural crops and vegetables; importance of post harvest value addition and various avenues for crop and income diversification in Nagaland. Farmer-Scientist interaction programme were also organized in which resource persons from ICAR Nagaland centre and KVK Peren addressed the queries raised by the farmers.

AMFU, Srinagar, Jammu and Kashmir organised FAP on 29th March 2019 on “Weather awareness among farmers” at SKUAST-K Shalimar campus. More than 140 farmers from Srinagar and Ganderbal districts attended the programme and were registered on farmers portal (www.farmers.gov.in) for receiving SMS on Agromet Advisory Services (AAS). Experts appraised the farmers about effect of weather on the incidence of pest and disease and the productivity of crops and the factors affecting climate change.

AMFU, Anand, Gujarat organized one day FAP on “Importance of Weather Forecasts and Weather Based Agricultural Advisory Service for Farmers” on 8th January 2019 at Gada village, Sojitra taluka, dist. Anand. In this programme, 150 farmers participated. Principal Nodal officer /Technical officer of AMFU Anand, subject matter specialist of KVK Devataj, University Officers (Associate Director of Research, Senior Scientist and Head, KVK Devataj) explained the importance of weather forecast and Agromet Advisory and how to minimize input cost and maximize the production in agriculture, horticulture and animal husbandry. Dr. Jayanta Sarkar, Scientist-F, In-charge, M.C. Ahmedabad explained about Weather Forecasting to the participants.

AMFU, Port Blair, Andaman & Nicobar organized FAP on “Soil Moisture stress Management during dry season” on 5th February 2019 at Neil Island, South Andaman in which 15 nos. of farmers were present from different villages. Dr. A. Velmurugan, Nodal officer GKMS along with QRT team from ICAR-IIFSR interacted with the farmers and demonstrated the moisture stress management techniques. Shri T. K. Biswas, Technical Officer of GKMS unit briefed about the usefulness of social media, mKisan portal and Kisan Suvidha app. The team also appraised the farmers on the benefit of using organic manures in moisture stress management.

Dr. P. V. Shende, Nodal office of GKMS Unit explained the importance of new technology to increase Agriculture production. Shri A. A. Nagdeve, Research Associate, GKMS Unit explained role of GKMS project and the importance of AAS Bulletin to the farmers. Dr. D. S. Thakare, Junior Rice Breeder expressed the importance of climate change in agriculture and livestock management for adaptation of various farming system as well as cropping pattern under sustainable agricultural production in future. Dr. P. K. Rathod, Associate Professor of Entomology discussed the crop cultivation in the relation with weather element and crop protection from weather, disease and pest infestation of paddy crop particularly Eastern Vidarbha Region.

AMFU, Majhian, West Bengal organised three FAPs viz. on 26th and 28th February 2019 & 1st March 2019. Subject experts elaborately discussed on climate change and its effect on agriculture, role of weather based Agromet Advisory Service for agricultural activities and weather related pest & diseases and their management. Leaflet about Agromet Advisory Service were disseminate among farmers.

AMFU, Gossaigaon, Assam organized FAP at Bhomrabil No. 2 village in Gossaigaon on 20th March 2019 to highlight the role of GKMS and importance of advisories in agriculture. Officer explained the role of weather in pest population build up and their control measures. Officers register farmers mobile number under mkisan SMS portal.
.AMFU, Brahmavar Karnataka organized four FAPs during the month of February 2019 viz on 6th, 8th, 12th and 20th of February 2019 at Kallakatta, Maala, Belve and Shiroor villages respectively on “Weather Forecast and its application in agriculture” in which about 80-100 farmers each participated. All participants were enrolled for mKisan portal and were suggested to create what's App group among them for regular contact with Technical officer GKMS of unit for weather forecast and Agromet Advisory bulletins.

AMFU, Raipur, Chhattisgarh organised two FAPs; first on 11th January 2019 at Tilaiha village, Korba district and second on 8th March 2019 at Jhalam village, Bametara district on “Utility of Weather based Agromet Advisory Services for increasing crop production”. Officers explained role of KVK in dissemination of AAS, Medium Range Weather Forecasting and its economic benefits, Utility of Medium Range Weather Forecasting in context of climate change and Agricultural Development through CG state schemes. Officers explained the State Government schemes viz. Narua (water conservation in perennial nalas), garuva (healthy livestock rearing and milk production), ghurva (compost pits and vermi-composting, recycling of waste) and badi (homestead kitchen gardening).

AMFU, Chatha, Jammu organized two FAPs on “Climate, Weather and Farmer” at village Harichak, distt. Kathua on 22nd March 2019 and at village Sarthi Kalan block & Tehsil Gangwal of Samba district on 23rd March 2019 to aware the farmers about Agromet Advisory Services, its importance and to reduce the input cost of cultivation of different crops and further, to sensitize them about climate change and its impact on agriculture and its allied field. Dr. Mahender Singh, Senior Scientist and Nodal Officer; Dr. Veena Sharma, Technical Officer, Dr. Rohit Sharma, Technical Officer, Rajouri and other subject experts delivered lectures on the related subject.
**AMFU, Pundibari, West Bengal** organized three FAPs viz. first on 19th February 2019 at Dakshin kalaraier kuthi, Cooch Behar-Il Block, Cooch Behar district, second on 22nd February 2019 at Mathabhanga-1 Block, Cooch Behar district and third on 8th March 2019 at Ruier kuthi, Dinhata-I Block, Cooch Behar district. Officers of GKMS unit explained importance of Agro Advisory Bulletin and registration in mkissan. Prof. (Dr.) Subhendu Bandyopadhyay, Nodal Officer of GKMS unit explained the importance of weather based Agromet Advisories in the changing scenario of climate of North Bengal.

**AMFU, Kakdwip, West Bengal** organized FAP on 29th March 2019 at Joynagar-II block to discuss blast attack in boro paddy. Beside this the effect of adverse weather on horticultural crop, summer vegetables and animal husbandry was also discussed in this meeting.

**Field visit**

Dr. J. Gokila, Technical Officer, **AMFU, Karaikal, Tamil Nadu** made a field visit to rice crop field and to solve the problems faced by farmers at Karaikal on 19th February 2019 under the guidance of Dr. A. L. Narayanan, Nodal Officer of GKMS Unit.

**AMFU, Jorhat, Assam** made three field visits at Nimati Gariabhonga, Ujani Charaimoria and Bahona villages on 2nd March 2019 to generate awareness among the farmers on GKMS along with their registration under mkissan Govt. portal and WhatsApp group. Shri. Athar N. Islam, Technical Officer of GKMS unit informed about climate change, weather forecasting and Agromet Advisory Services. He also explained the activities carry out under GKMS project and registration procedure in mkissan.
AMFU, Kakdwip, West Bengal made a field visit to Boro rice fields at Namkhana block on 19th January 2019. Farmers were advised some procedure for preventing the seedlings from low temperature and hence the attack of blast disease. Officers of GKMS unit also told importance of weather based agro-advisory SMS. The AMFU made a field visit to betelvine garden of Sagar block on 21st January 2019 to aware the farmers to protect the crop from strong Northern wind and cold. On 28th February a visit was carried out at Lakshmikantapur block in poultry farm to advise the farmers about nutrition of bird. A filed visit was arranged throughout the potato, green gram, sunflower and summer vegetables field at the end of February in Kakdwip block.

AMFU, Ranichauri, Uttarakhand made field visits in Berni and Banali villages at Narendra Nagar block, Tehri Garhwal district on 16th January 2019 to create the awareness about GKMS & Agromet Advisory Services, Weather & climate during winter season, application of various techniques of propagation like tongue grafting, wedge grafting, chip budding in apple, apricot, walnuts etc., preparation of Chaubattia paste and application to pruned parts; in Syontal gaon, Koteshwar and Kathood villages at Narendra Nagar block, Tehri Garhwal district on 9th January 2019; in Timaar village at Narendra Nagar block in Tehri Garhwal district on 19th January 2019; in Bunogi, Chhepardhar, Chopadiyal, Kotigad and Bagasudhar villages at Chamba block in Tehri Garhwal district on 30th January 2019; in Pangarkhal, Kandikhal, Gyansu and Chaumni villages at Chamba block in Tehri Garhwal district on 2nd February 2019; in Jagdhar, Daargi, Kaandikhal and Chaumni villages, Chamba block Tehri Garhwal district on 6th February 2019; in Tehri, Moldhar, DHO Office, DM office, Disaster Management Office at Chamba block in Tehri Garhwal district on 11th February 2019; in Timaar villages at Narendra Nagar block in Tehri Garhwal district on 13th February 2019; in Chirbatiya, DM Office, Disaster Management Office at Jakholi block in Rudraprayag district on 23rd February 2019 and in Luthiyaag, Bajeera and Chirbatiya villages at Jakholi block in Rudraprayag district during 13–16 March 2019.
AMFU, Jagtial, Telangana made a field visit on 7th February 2019 at Laxmipur village, Jagtiyal block to create awareness among farmers about GKMS activities, forecast/crop weather relationships and importance of weather service in enhancing farm production by eliminating unprecedented weather abnormalities. Officers also suggested farmers to control gall midge disease in paddy crop. They also informed about district level Agromet Advisories Bulletins, Pest-Disease and application of modern agricultural implements and recommended the plant protection measures and crop management practices to the farming community.

**Other Awareness Programme**

AMFU, Bhachau, Gujarat organised one day women’s training (Mahila Shibir) on “Women Empowerment through Agriculture” on 9th January 2019. 68 students of Mahila College, Bhachau participated in the training. Field visit has been also made. Shri Kuldeep Sevak, Technical officer explained about the effect of agro climatic conditions on crop, importance of agro–meteorological unit and its role to mitigate climate change impact. He also explained elaborately GKMS activities.

AMFU, Chintapalle, Andhra Pradesh participated in Kisan Mela on 7th February 2019 on “Integrated Farming Systems for High Altitude and Tribal Zone” at AMFU, RARS, Chintapalle, Vishakhapatnam district on 7th February 2019. Director of Research, Dr. N. V. Naidu suggested integrated farming system is suitable to get income throughout the year to the farmer through adoption of agriculture allied sectors viz., value addition to millets, mushroom cultivation, sericulture, poultry, apiary during unfavorable climatic conditions.

AMFU, Majhian, West Bengal participated in Krishi Mela during 15–16 February 2019 and in Mati Utsab during 22–24 February 2019. Officers of GKMS gave vast information regarding activities of carry out under GKMS project, AAS bulletin, SMS service, Farmer’s registration process and activities of Surface instruments at Observatories to the farming community.

AMFU, Pundibari, West Bengal participated in krishi mela at Cooch Behar KVK during 7-8 February 2019. Officers of GKMS unit explained the activities of GKMS project and importance of Agromet Advisory Services.
AMFU, Gossaigaon, Assam participated in Kisan Mela organized by KVK, Kokrajhar on 24th February 2019 to acquaint the farmers to different instruments used in the measurement of weather parameters and also highlighted the role of GKMS in agricultural activity. During the occasion extension bulletin published under the GKMS was also circulated among the visitors to create awareness among the farmers on different agricultural technologies that are developed to enhance the production and productivity of agricultural crop and also in doubling farmers’ income.

AMFU Jagtial, Telangana participated in farmers training at Agrometeorology observatory at RARS, Jagtial, Karimnagar on 12th February 2019 along with 50 farmers. Officers of AMFU explained about the Agro-meteorology and crop-climate relationship. Officer of GKMS unit also collected the farmers mobile numbers and entered in mkisan portal to deliver SMS on forecast and advisories.

Officer of AMFU, Jagtial, Telangana attended training on “Farmers and farm women” at Thimmapur village, Jagtial Mandal on 19th February 2019 and at Aloor village, Raikal Mandal on 20th February 2019. Officer explained about the activities of GKMS project and importance of Agromet Advisory Services (SMS Advisory) in farming operations to maximize the crop production by reducing the losses under aberrant weather conditions.

Lectures

⇒ Dr. A. L. Narayanan, Nodal Officer, AMFU, Karaikal, Tamil Nadu delivered a lecture on

- “Role of Climate in seed production” on 7th January 2019 in Seed Technology training conducted under Govt. Of India for the participants throughout India.
- “Role of sustainable and Integrated Farming system to mitigate climate change” in National Conference on 25th January 2019 at Annamalai University.
- “Inter Communication Technology for weather forecasting” for the participants all over India in National Conference on ICT tools organised by Agricultural college, Karaikal on 31st January 2019.
- “Climate awareness” in relation to Kisan Diwas organised by All India Radio, Karaikal 14th February 2019.

⇒ Shri Prakash Singh Negi, Technical Officer Ranichauri, Uttarakhand delivered lecture in training programme/workshop on “Grafting and budding in walnuts” to 29 nursery raised farmers of 3 districts of Uttarakhand at College of Hill Agriculture, Chirbatiya (Jakholi) district– Rudraprayag, Uttarakhand during the period 13–15 March 2019.

Training

⇒ Dr. A. L. Narayanan, Nodal Officer, AMFU, Karaikal, Tamil Nadu trained the Zoological students in meteorological instruments recording and maintenance belonging to Zoology Department of Voorhees college, Vellore on 3rd March 2019.
Dr. S. K. Paul, Nodal Officer and Shri. Kuldip Medhi, Technical Officer of AMFU, Gossaigaon, Assam participated as a resource person in the five days training programme on “Scientific Cultivation of Rice” under “Tribal Sub-Plan” project organized by the RARS, Gossaigaon in the month of March 2019. Dr. Paul highlighted the advantage of mechanization in scientific cultivation of rice during the hour. Shri. Kuldip Medhi had delivered lecture on “role of weather in manipulating crop behaviour and importance of Agromet advisories in minimizing the ill effect of weather and its extremes.”

Dr. K. Indudhar Reddy, Technical Officer, AMFU, Hyderabad, Telangana, Professor Jayashankar Telangana State Agricultural University attended model training course on “Management of emerging environmental problems for enhancing agricultural productivity at CESCRA, ICAR-IARI, New Delhi during 25th March to 1st April 2019.

Publication

⇒ Research paper by AMFU Anand, Gujarat:
⇒ Abstract published in International Symposium by officers of AMFU Anand, Gujarat
⇒ Popular article published by officers of AMFU Anand, Gujarat
Research papers by officers of AMFU, Chata, Jammu

- Presented two research papers entitled “Conditional Probability for Rainfall Analysis of Wet and Dry Spell for Crop Planning under different Agro climatic Zone of Jammu Region” and “Weather based Yield Prediction Model at Varous Growth Stages of Wheat crop in different Agro Climatic Zones of Jammu region” in the International Symposium on “Advances in Agrometeorology for Managing Climatic Risk of Farmers” (INAGMET-2019) organized by Association of Agrometeorologists (AAM), IMD and ICAR-IARI, New Delhi at Jawaharlal Nehru University (JNU), New Delhi w.e.f: 11–13th February 2019.

Oral Paper presentation by Technical Officer, AMFU, Chata, Jammu

⇒ **Book Chapter by Officers, AMFU, Chatha, Jammu.**


### Media Interaction

⇒ **Anand Sharma, Scientist-F, AASD, New Delhi** has given interview in

- Lok Sabha TV & Rajya Sabha TV on “Global warming, Weather forecast & Weather based Agromet Advisory respectively” on 24th January 2019.
- DD Kisan daily at 12, 14 & 17 hour and was also interviewed live on many occasions.
- An exclusive interview broadcast on Lok Sabha TV on 9th and 10th February, 2019.
- Climate Change and Agriculture and Biodiversity by All India Radio on 20th February, 2019.
- An exclusive interview appeared in the Magazine “Fasal Kranti” high lighting benefits of Weather based Agro advisories to the Farmers of India.
- All India Radio, Dehra Dun on 27th February 2019 on disaster management and National Science day.

⇒ **Dr. S. D. Attri.** Scientist-F, AASD participated in programme on “Climate change and Agriculture” at AIR New Delhi on 14th March 2019.

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