

FIFTEENTH SESSION OF WMO (CAgM)

The World Meteorological Organization Commission for Agricultural Meteorology held its 15th session during 15-21 July 2010, in Belo Horizonte, Brazil. The meeting was attended by about 120 representatives from 62 countries. AVM (Dr.) Ajit Tyagi, DGM represented IMD. A programme was chalked out to enhance Agro Meteorological Services to assist the farming community and cope with the increasing impacts of climate variability and climate change. The Commission for Agricultural Meteorology identified several priorities for its future work until 2014. A few of them are developing enhanced services for the agricultural activities, encouraging the knowledge-sharing between forecasters and agricultural decision makers.

The 15th session of the Commission for Agricultural Meteorology was preceded by the international workshop on "Addressing the Livelihood Crisis of Farmers: Weather and Climate Services," organized by WMO and a number of partner organizations, which took place during 12-14 July 2010, in Belo Horizonte, Brazil. Shri B. Mukhopadhyay, DDGM represented IMD. The workshop was attended by about 150 participants from over 50 countries.

USERS' MEET ON AVIATION METEOROLOGY



Users 'Meet on Aviation Meteorological Services in Chennai Region' was conducted on 28th August by AMO Chennai at Conference Hall, NAD Guest House, Meenambakkam, Chennai. 90 representatives from various user organizations [AAI, Greenfield operators, Airline agencies, IAF, Indian Navy, Indian Coast Guard, non-scheduled Aircraft operators, DGCA] participated as delegates in the meet. Officers-in-charge of MWOs, AMOs and AMS stations of IMD also participated. Dr. A. B. Mazumdar, DDGM (WF), Pune presided over the meet and Shri D. Devaraj, Regional Executive Director, AAI-SR was the Chief Guest. Two technical sessions were conducted with presentations by IMD and the user agencies.

TRAINING WORKSHOP ON DWR PRODUCTS



Group photo of Trainees and IMD officers

Five days training workshop on "DWR Products, their Interpretation and Utilization in Nowcasting" was conducted at DWR, Kolkata during 19-23 July, 2010. Five officers from Indian Air Force and two officers from IMD, participated in the workshop. Shri D. Pradhan and Shri Vivek Sinha, Scientist 'E' delivered the lectures. Trainees expressed their high level of satisfaction for the contents and quality of the training provided.

BRAIN STORMING SESSION ON POLAR SCIENCES



IMD conducted a Brain Storming Session on "Polar Sciences" on 24th September 2010 at India Habitat Centre, New Delh. Dr. Shailesh Nayak, Hon'ble Secretary, MoES graced the occasion as Chief Guest and delivered the inaugural address. Dr. P. C. Pandey, Prof. IIT Kharagpur, Ex-Director, NCAOR, Goa gave a lead-talk on Polar Sciences.

Twelve speakers from various participant organizations viz., IMD, NPL, NCAOR Goa, IITM Pune, SASE Chandigarh, Shri Ram Institute of Industrial Research New Delhi, SAC Ahmedabad etc. gave presentations during three sessions on topics related to Weather Prediction & Modelling, Environmental Monitoring and Polar Linking processes. At the end of the session a panel discussion was held and recommendations were given to further strengthen Indian Antarctic Programme for 5-10 years future planning.

Editorial Team

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Published by

India Meteorological Department, Mausam Bhawan, Lodi Road, New Delhi - 110 003 and Printed at ADGM(R), Pune

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मौसम विज्ञान विभाग समाचार
IMD NEWS

INDIA METEOROLOGICAL DEPARTMENT
(Ministry of Earth Sciences)

INTERNATIONAL COOPERATION ON R & D ACTIVITIES

COLLABORATION WITH KYOTO UNIVERSITY, JAPAN

A five member Japanese delegation from Disaster Prevention Research Institute, Kyoto University, Japan visited IMD, New Delhi on 2nd July 2010 to discuss supply of data and support for Asia monsoon year. The delegation included Prof. Taiichi Hayashi, Prof. Jun Matsumoto, Prof. Shigeo Yoden, Prof. Fumie Mmura, Mr. Massahi Kiguchi, The delegation was welcomed by AVM (Dr.) Ajit Tyagi, DGM at the Conference Hall followed by a meeting with scientists of IMD and concerned divisional heads.



DGM, IMD presenting Bouquet to Prof. Jun Matsumoto



AVM (Dr.) Ajit Tyagi & Sr. Scientists of IMD with Japanese delegates

COLLABORATION FOR AEROSOL MONITORING & RESEARCH

A meeting was held between delegates from University of Tokyo, Japan & Senior Scientists of IMD on 11th August 2010 which was presided by DGM. The main objective of this meeting was capacity building in aerosol research and radiative transfer modeling. The impacts of anthropogenic aerosols along with greenhouse gases on the regional climate will be evaluated over India by a numerical climate model. This project will contribute to the accurate assessment of global climate change because south Asian regions are key regions for significant aerosols forcing

which causes, a large change in Asian monsoon circulation, precipitation and cloudiness. Prof. T. Nakajima led the Japanese delegation.

BILATERAL COOPERATION BETWEEN MoES & KMA

A four Member delegation from Korea Meteorological Administration (KMA), Seoul, Republic of Korea visited India, New Delhi from 28th September to 1st October, 2010 to discuss bilateral cooperation on Meteorology between the Korea Meteorological Administration (KMA) and MoES. The meeting was held between scientists of institutes under MoES and Korea Meteorological Administration delegation at CSIR, Science Centre, Lodi Road, New Delhi on 29th September 2010. After introduction by Shri P. Maini, AVM (Dr.) Ajit Tyagi, DGM, welcomed the delegates. Later on mutually agreed agenda was prepared and the MoU was signed. The MoU focused on sharing of advanced meteorological technologies on Climate Data Rescue and Enhancement of Climate Data Management System, Exchange of Satellite Data and



KMA delegates giving presentation

Data processing Technologies, Sharing of Expertise of WebFAS Development Climate Prediction and its adaptation, as well as Joint research activities. The delegation visited IMD also where they were apprised of divisional activities of the department.

INAUGURATION OF IFCS



The Integrated Forecasting & Communication System (IFCS) encompasses the National Weather Forecasting Centre and the Automated Communication Facilities. This system was inaugurated by Shri Prithviraj Chavan, Hon'ble Minister of State (Independent Charge) for Earth Sciences and Science & Technology on 23rd September 2010 at Mausam Bhawan, New Delhi. Dr. P.S. Goel, Chairman, Recruitment and Assessment Centre, DRDO, Delhi was the Guest of Honour on this occasion and Dr. Shailesh Nayak, Secretary, Ministry of Earth Sciences presided over the inaugural function.

CERTIFICATE OF MERIT



DGM, IMD with Awardees of IMD

The Ministry of Earth Sciences celebrated its Foundation Day on 27th July 2010 at Vigyan Bhawan, New Delhi. On this occasion, National awards for Ocean Sciences and Atmospheric Sciences & Technology, Awards to best employees of the Ministry, Certificate of Merit for Scientists in the field of Ocean Sciences and Atmospheric Sciences in addition to awards for winner of drawing competition were given by Chief Guest Shri Prithviraj Chavan, Hon'ble Minister of State for Science & Technology and Earth Sciences. On this occasion Certificate of Merit for Young Scientists were given to Dr. D.S. Pai, Dr. S.D. Kotal and Shri B.P. Yadav. Each scientist was given a cash prize of Rs 30,000/- and a citation. Smt. M.V. Kamble & Shri S. Mondal were conferred best employee award.

INSPECTION BY PARLIAMENT COMMITTEE

The second sub-committee of Parliament on Official Language (COPAL) inspected Met Unit Kodaikanal on 8th July 2010. Various cultural programmes were conducted jointly by AIR and Doordarshan, Kodaikanal. The following Official Language committee members attended on behalf of IMD, MoES: S/Shri A.K. Bhatnagar, ADGM, Dr. L. S. Rathore, Scientist 'G', Dr. Y.E.A. Raj, DDGM, Mrs. Manjula Mehta, AD(OL), Ms. Reva Sharma, Senior Hindi Officer, Mrs. Anuradha Rao, IMD, HQ and five MPs.

INSTALLATION OF AWS



In Andhra Pradesh, 18 AWS out of 22 have been commissioned. In Tamil Nadu, 4 out of 17, AWS have been commissioned. In Karnataka site survey completed for 21 AWS. An Agro Automatic Weather Station was commissioned on 24th Sep 2010 at Madhavaram, O/o of the Tamil Nadu Veterinary University, Chennai.

INAUGURATION OF DWR



Hon'ble Chief Minister of AP inaugurating DWR

Mr. K. Rosaiah, the Andhra Pradesh Chief Minister, inaugurated Doppler Weather Radar (DWR) facility on 18th September 2010 at the Begumpet airport, Hyderabad in the presence of Revenue Minister Shri Dharmana Prasada Rao and AVM (Dr.) Ajit Tyagi, D.G.M. This new facility will provide round-the-clock surveillance system and serve as an effective tool for forecast of cyclones and flash floods. The computerised facility generates real-time imageries highlighting the location and intensity of clouds while predicting the possibility of rainfall, wind velocity and cloud movement. AVM(Dr.) Ajit Tyagi told that the predictions will be valid ranging from one to three hours and information will be updated in every 10 minutes.

LECTURES

Dr. Naresh Kumar, Met – I, delivered a talk on “Weather & Climate Services of IMD over Himalayan Region and Precipitation pattern in Western and Central Himalayas” in International Conference on Geothermal and Other Energy Resources of Ladakh - Technological and Business Viability during 5 -7 July, 2010, Leh (Ladakh).

Dr. D. K. U. R. Bhagat, Director, Dr. (Ms) Sathi Devi, Director and Shri V. K. Rajeev, Director delivered lectures as part of ‘Classroom Training to Junior Executives – ATC’ on request of Airport Authority of India from 5th July 2010 for 2 weeks.

Dr. P. Guhathakurta, Scientist ‘E’ delivered a lecture on ‘Chaos & Weather Prediction, predicting Uncertainty in Forecast of Weather at Bhilai Institute of Technology, Chathisgarh on 28th July 2010.

Shri B. K. Piyus, Director, Brahma Kumari Sansthan delivered an invited talk on Developing inner power and stress free management at DGM Conference Hall on 11th August 2010.



Shri B. K. Piyus delivering talk at HQ, New Delhi

Dr. Devendra Singh, Scientist ‘E’, DST delivered a lecture on Application of Earth Observing System (NOAA/METOP and MODIS Satellites receiving and processing System) on 11th August 2010 in Conference Hall, Mausam Bhawan, New Delhi.



Dr. Devendra Singh delivering lecture

Dr. M. Mohapatra, Scientist ‘E’ (CWD) was on tour to INCOIS, Hyderabad during 17-18 August 2010 to deliver a specialized lecture on “Cyclone and Storm Surge Forecasting” during a training programme organized by INCOIS and SAARC Disaster Management Centre (SDMC), New Delhi on “Early Warning and Hydrometeorology Disaster for South Asian countries”.

Dr. R. V. Sharma, DDGM, Shri K. S. Hosalikar, Scientist ‘E’ & Shri V. K. Rajeev, Director delivered lectures for Extra Master's course at the LBS College of Advanced Maritime Studies & Research in the month of September.

Shri K. Santhosh, Director chaired a technical session on “Meteorological aspects of climate change” and delivered a lecture on “Climate change scenario over India” in the International Conference on Sustainable Development and Secular Spirituality organised by Santhigiri Research Foundation, Trivandrum on 9th September 2010.

Shri Anand Kumar Sharma, Scientist ‘E’, Meteorological Centre, Dehra Dun delivered lecture on “Mausam ka Purvanuman” in Hindi at Indian Institute of Remote Sensing Dehra Dun on the Hindi Divas, 14th September 2010. Shri Anand Kumar Sharma was the invited Guest.



Dr. P.S. Roy, Dean, Dr. S. P. Kushwaha & Shri A.K. Sharma

Dr. M. Satya Kumar, Scientist ‘E’ delivered a lecturer on Disaster Management at Marry Chenna Reddy Institute, Hyderabad on 13th September 2010.

Dr. Geeta Agnihotri, Met.-I delivered a lecture to 62nd All India Waterman ship course trainees on ‘Weather forecasting system during floods’ on 17th September 2010 organized by Home Guards and Civil Defence Academy, Bangalore.

Dr. Medha Khole, Scientist ‘E’ delivered lecture on ‘Indian Monsoon’ in Marathi on 28th September 2010 organised by Deptt. of Marathi, at Literature Bhavan, Marathi Vibhag, University of Pune, Pune.

Dr. S. D. Attri, Scientist ‘E’ participated and delivered talk on “Recent Trends in Climate Change over India in one day workshop on “Climate Science and Emerging Issue in Asia” organized by IIT Delhi.

Dr. A. L. Koppa, DDGM(C) made a presentation on Data Rescue and Climate Management System in the MoES-Korean Met. Administration MoU signing session at New Delhi on 29th September 2010. Dr. D.S. Pai, Scientist ‘E’ also participated in the session.

MEETINGS

Shri R. S. Dattatrayam, Scientist 'F', attended the meeting of the Committee for finalizing the document on "Technology Vision" of MoES under the Chairmanship of Dr. P. S. Goel, Ex-Secretary, Ministry of Earth Sciences held at Science Centre, Lodi Road on 2nd July, 2010.

Dr. R. Suresh and **Dr. S. R. Ramanan**, Scientist 'E' attended a meeting on 8th July 2010 at Sathish Dawan Space Centre, SHAR Centre, Sriharikota in connection with pre-launch preparation.

Shri A. K. Bhatnagar, ADGM and **Shri R. S. Dattatrayam**, Scientist 'F' attended a meeting chaired by Secretary, MoES, on 28th July, 2010 at MoES on "Expanding the scope of the activities over the North East States in partnership with North East Council, Shillong.

Dr. A. B. Mazumdar, DDGM(WF) attended a meeting on "Dissemination of Agro meteorology Advisories through SMS" organized by DDGM (Agrimet) Pune to strengthen the outreach of Agromet Advisories and its dissemination at village level, conducted at CTI, Pashan Pune on 30th July 2010.

Dr. M. Mohapatra, Scientist 'E', Cyclone warning division attended a Meeting of the "Expert Committee for finalization of Multi-Hazard Prone Districts in Various States/Union Territories in the Country on 30th July 2010 at NDMA Bhavan, New Delhi.

Shri B. Puttanna, Director attended workshop on preparation of Action Plan for responding to terrorist attack using Radio Active materials held at Conference Hall, Office of the DG & IGP, Karnataka State, Bangalore on 11th August 2010.

Shri B. K. Bandyopadhyay, DDGM (S) attended a meeting under the chairmanship of Secretary (BM), in the Media Room, North Block, New Delhi on 11th August 2010 to finalize the agenda and other modalities' for hosting the meeting by the GOI regarding India, Russia and China Trilateral Expert level meeting on Disaster Mitigation & Emergency Prevention.

Dr. S. D. Attri, Scientist 'E' attended the Consultation Workshop on "Preparation of State Level Strategy and Action Plan on Climate Change" on 19th August, 2010 organised by UNDP & Ministry of Environment & Forests, at New Delhi.

Dr. L. S. Rathore, Scientist 'G' and **Shri B. K. Bandyopadhyay**, DDGM (S) attended a short duration discussion in the Lok Sabha on 27th August 2010 on flood and drought situation of the country.

Dr. Y.E.A Raj, DDGM attended the meeting on implementation of FASAL (Forecasting Agricultural output using Space, Agrometeorology and Land based observations) held at Pune during 15th & 16th September 2010.

Shri Anand Kumar Sharma, Scientist 'E', Meteorological Centre, Dehra Dun attended Crisis Management Group meeting on 19th September 2010 at the Chief Minister's office regarding emergency situation due to sudden release of water from Tehri Dam.

MoU BETWEEN IMD & PAWAN HANS



D G IMD, & CMD, Pawan Hans signing MoU

A meeting was held between Pawan Hans Helicopters Ltd. (PHHL) and India Meteorological Department (IMD) to sign an MoU for enhanced Safety of Helicopter operations in India. This MoU was signed by **Shri R. K. Tyagi**, Chairman and Managing Director Pawan Hans Helicopters Ltd. and **AVM (Dr.) Ajit Tyagi**, D G, IMD on 18th August 2010. IMD shall provide support to the Helicopter Services of PHHL at all the Airports and will install and operationalize Automatic Weather Stations at remote locations or Helipads. In addition, IMD shall provide briefing to all the pilots of helicopters operated by PHHL. Pawan Hans will provide sites for installation and shall be responsible for acquisition of the land.

DGM's VISITS



AVM (Dr.) Ajit Tyagi inaugurating AWS at Churu

AVM (Dr.) Ajit Tyagi, Director General of Meteorology, was on tour to Churu (Rajasthan) on 2nd September 2010. He inaugurated Automatic Weather Station there. The hourly AWS data will henceforth be available.

AVM (Dr.) Ajit Tyagi, DGM was on tour to Pune during 5th and 6th September. He inaugurated the WMO inter-Regional Climate Information and Prediction Services (CLIPS) training Workshop on Urban Climatology organized by WMO and RMTTC, at IITM, Pune. **Dr. S.D. Attri**, Scientist 'E' also participated in this workshop during 6-10 September, 2010.

AVM (Dr.) Ajit Tyagi, DGM was on tour to Pune on 16th September. He presided over the Valedictory function of Workshop on FASAL held at Pune on 15-16 September 2010. He also had discussions with head of offices and senior officers regarding various important issues.

मुख्यालय में हिन्दी पखवाड़ा का आयोजन

भारत मौसम विज्ञान विभाग, मुख्यालय में यह समारोह 14 सितम्बर 2010 को मुख्यालय के सेमिनार हाल में आयोजित किया गया। समारोह की अध्यक्षता मौसम विज्ञान के महानिदेशक एवीएम डॉ अजित त्यागी ने की। समारोह में सर्वप्रथम वरिष्ठ हिन्दी अधिकारी सुश्री रेवा शर्मा, ने अध्यक्ष महोदय तथा सभी वरिष्ठ अधिकारियों एवं सभागार में उपस्थित सभी कार्मिकों का स्वागत किया। दीप प्रज्वलित करने के पश्चात् विभाग के कार्मिकों ने सरस्वती वन्दना प्रस्तुत की। राजभाषा विभाग गृह मंत्रालय से प्राप्त माननीय गृह मंत्री श्री पी. चिदंबरम जी का संदेश सुश्री रेवा शर्मा, वरिष्ठ हिन्दी अधिकारी ने पढ़ा। स्वागत भाषण के पश्चात् विभाग के कार्मिकों ने शिक्षाप्रद झलकियां, हास्य झलकियां, गीत एवं संगीत का रंगारंग कार्यक्रम प्रस्तुत किया।



राजभाषा चलशील्ड ग्रहण करते हुए श्री बी.एल. वर्मा, उपमहानिदेशक, प्रादेशिक मौसम केन्द्र, नई दिल्ली

हिन्दी में सर्वाधिक पत्राचार करने वाले कार्यालय प्रादेशिक मौसम केन्द्र नई दिल्ली को राजभाषा चलशील्ड प्रदान की गई, जिसे अध्यक्ष महोदय द्वारा मौसम विज्ञान के उपमहानिदेशक (प्रा.मौ.के.), नई दिल्ली को दिया गया। हिन्दी पखवाड़ा 2010 के दौरान हिन्दी निबन्ध, हिन्दी टिप्पण और मसौदा लेखन, स्वरचित हिन्दी कविता पाठ, हिन्दी वाद विवाद, हिन्दी स्लोगन और कार्टून प्रतियोगिताओं का आयोजन किया गया। इस अवसर पर हिन्दी पत्रिका मौसम मंजूषा, अंक 15, 2010 का भी विमोचन किया गया।



विभागीय हिन्दी पत्रिका मौसम मंजूषा 2010 का विमोचन

हिन्दी पखवाड़ा के दौरान विभिन्न प्रतियोगिताओं के विजेताओं को प्रमाण पत्र और नकद पुरस्कार प्रदान किए गए। हिन्दी दिवस समारोह में अखिल भारतीय विभागीय हिन्दी निबन्ध प्रतियोगिता 2010 के विजेताओं को भी प्रमाण पत्र प्रदान किए गए।



हिन्दी टंकण प्रतियोगिता का प्रमाण पत्र लेते हुए श्री गोपी चन्द, उच्च श्रेणी लिपिक

अपने अध्यक्षीय भाषण में ए.वी.एम. डॉ. अजित त्यागी ने विभाग के सभी कार्मिकों को कार्यालय का काम हिन्दी में करने की सलाह दी तथा राजभाषा के प्रचार प्रसार में अपना अमूल्य योगदान देने पर भी जोर दिया।

क्षेत्रीय कार्यालयों में हिन्दी पखवाड़ा/हिन्दी दिवस का आयोजन

भारत मौसम विज्ञान विभाग के अंतर्गत आने वाले सभी उप कार्यालयों में हिन्दी दिवस समारोह /हिन्दी पखवाड़ा का आयोजन भी किया गया। एम. सी. थीरुवनन्थापुरम में हिन्दी सप्ताह का आयोजन 7 सितम्बर से 14 सितम्बर तक किया गया जिसमें 6 प्रतियोगिताएं रखी गई थीं। 27 सितम्बर को प्रमाण पत्र एवं पुरस्कार दिए गए।



एम. सी. अहमदाबाद में 1-15 सितम्बर तक हिन्दी पखवाड़ा का आयोजन किया

एम. सी. अहमदाबाद में 1-15 सितम्बर तक हिन्दी पखवाड़ा का आयोजन किया गया। एम. सी. बंगलूरु एवं पी.ए.सी. कोलकता में भी हिन्दी दिवस का आयोजन क्रमशः 20 एवं 15 सितम्बर को किया गया जिसमें हिन्दी निबंध, काव्य पाठ एवं सांस्कृतिक कार्यक्रम का आयोजन किया गया।

PUBLICATIONS

- A paper entitled "Comparison of Digital Automatic Recording System (DARS) data with Autographic Chart Recorder at India Meteorological Department conventional observatory" by **Shri P. S. Biju et al.** is accepted for presentation in the WMO Technical conference on Meteorological and Environmental instruments and Methods of observation-2010 (TECHO-2010).
- The Indian Astronomical Ephemeris of 2011 has been published.
- Eight research papers, three shorter contributions were published in "MAUSAM" Vol. 61 No. 4 (October 2010).
- "Measuring Rainfall" and "Naming of Tropical Cyclones" by **Shri K. V. Balasubramanian**, CDR Chennai were published in 'Science Reporter' and 'Arivial Oli' in July 2010 issue respectively.
- A paper entitled "Recent trends in Meteorological Parameters indicating tendencies in climate change in and around Shillong and Sohra (Cherrapunjee)" authored by **Shri A. C. Lyngdoh, et al.** was submitted for National conference on climate change-Environmental Apocalypse- Human ethics in question at Synod College, Shillong.

DISTINGUISHED VISITORS

Dr. M.S. Narayanan, Visiting Professor, SRM university visited DWR Chennai in connection with a rain estimation project funded by ISRO and being carried out in SRM university under his guidance. A collaborative study with DWR data of Chennai and its surrounding is envisaged in the proposed project.

Shri J. P. Dange, Hon'ble Chief Secretary, Government of Maharashtra and other state Government officials visited Regional Meteorological Centre, Mumbai office on 25th August, 2010. The visit was mainly intended towards recently installed Synergie Forecasting System.



Hon'ble Chief Secretary, Govt. of Maharashtra with DDGM (RMC), Mumbai

Dr. Naqvi, Principal Scientific Officer (F) from Ministry of Earth Sciences, New Delhi visited M.C. Bangalore and he was briefed about the activities of M.C. Bangalore on 27th August 2010.

Prof. G.S. Bhatt, Indian Institute of Sciences, Bangalore visited M.C. Bangalore in connection with the launch of Radio Sonde ascents on 8th September, 2010.

Six member Japanese delegation along with JICA members visited M. C. Hyderabad office for discussion on Indo-Japan Collaboration Project with IIT (H) and IMD on 27th & 28th September 2010.

TRAINEES

Shri A.C. Lyngdoh, Met-I, Meteorologist-in-charge, CSO, Shillong attended "Course in mentoring" training organized by DoPT & MoES at Guwahati from 5th to 7th July 2010.

Shri S. B. Gaonkar, Director attended "Direct Trainers skill" Training programme sponsored by DoPT organized jointly by Ministry of Earth Sciences and IMD, held at AWS Lab, Pashan, Pune from 26-30th July 2010.

Dr. R. Asokan, Scientist 'E' and Dr. Geeta Agnihotri, Met-I attended HPCS Training at IBM Lab, Bangalore from 20th to 30th September 2010.

VISIT OF SECRETARY MoES



Secretary MoES inspecting ARG at MC Ahmedabad

Dr. Shailesh Nayak, Secretary MoES visited M.C Ahmedabad on 13th September 2010. Dr. Kamaljit Ray, Director gave a presentation on the existing facilities at M.C. Ahmedabad, the services provided, facilities acquired as a part of Modernization Programme and future plans. The Secretary discussed the progress of the new MC Building and about the performance of AWS and ARG. He emphasized the need of team work. He visited the HPCS room and suggested to take up research topics, regarding validation of model products with the actual data available at the station. He emphasized the importance of observing system and the need for their upkeep and maintenance.

TRAINING COURSES

Intermediate Course (Instrumentation) batch XXXV commenced on 20th May 2010 and concluded on 17 September 2010 and Advanced Course (Instrumentation) batch XXII also commenced on 20th September 2010.

One week **training in forecasting using Synergie System** was organized at NWFC during 9-13 August 2010 for the forecasters from RMC, New Delhi. Dr. M. Mohapatra, Scientist 'E' (CWD), Shri M. Duraisamy, Director and Dr. Naresh Kumar, Meteorologist delivered lectures on various aspects.

COMPDDO - a software for preparation of pay bill was installed at RMC Chennai. Two batches of training were organized to familiarize operation of the software. Apart from RMC Chennai staff, 25 personnels from other offices were also trained in using the software.

A two weeks **CLISYS Users Training Course** was conducted for NDC officers & staff by MFI officials from 13th to 24th September and CLISYS Administrator's Training Course was conducted for NDC officers from 2nd to 14th September 2010.

FOREIGN VISITS

Doppler Weather Radar Training - 13 officers from various offices of IMD were deputed to Beijing, China for 12 week training in operation & maintenance w.e.f. 21st June to 12th September.



Group of Trained officers in DWR with DG, IMD

Shri J. L. Gautam, Director was on deputation to the Institute of Physics of the Earth (IPE), Russian Academy of Sciences (RAS), Moscow during 19th July - 10th August, 2010 as part of implementation of a project, under the Integrated Long Term Programme (ILTP) of Cooperation in Science & Technology.

Dr. R. Suresh, Scientist 'E' represented IMD and participated in the 14th meeting of the Asia Pacific Air Navigation Planning Implementation Regional Group [APANPIRG], CNS/MET subgroups of ICAO Bangkok held at Jakarta, Indonesia from 19th to 22nd July and presented two working papers.



14th APANPIRG meeting at Jakarta

Shri M. K. Gupta, Scientist 'E' was deputed to Tokyo, Japan to attend JMA/WMO workshop on Quality Management in surface, climate and upper air observations in RAIL (Asia) during the period 27-30 July 2010.

Shri Satish Bhatia, Scientist 'E' was deputed to Dhaka, Bangladesh to attend the meeting of International Programme Committee (IPC) of the SAARC STORM Programme during the period 1-2 August 2010.

Shri A. K. Srivastava, Scientist 'E', was deputed to Trieste, Italy to attend Target Training Activity (TTA), Statistical methods in seasonal prediction during the period 2-13 August 2010.

Dr. Jayanta Sarkar, Scientist 'E', was deputed to Kabul, Afghanistan to attend SAARC Regional Workshop on Drought Risk Management during the period 8-9 August 2010.

Shri Bikram Singh, Director was deputed to Bangkok, Thailand to attend the Panel on Tropical Cyclone Working Group on DPP meeting to finalize the annual operation plan 2000 and training on preparation of the Disaster Management and Crises Management Drill during the period 18-20 August 2010.

Shri Gajendra Kumar, Met-I, was deputed to attend WMO Technical Conference on Instruments and Methods of Observation (TECO-2010) during 30th August 2010 to 1st September 2010 at Helsinki, Finland. He also presented the paper entitled "Upgradation of Indian Radiosonde Network: Performance & Future Plans".



Shri K. C. Sai Krishnan, Scientist 'E' was deputed to attend the 15th session of the WMO Commission for Instruments and Methods of Observation (CIMO-XV) and Technical Conference on Instruments and Methods of Observation (TECO-2010) during 30th August - 8th September 2010 at Helsinki, Finland. He also presented the poster presentation "Modernisation of Observational Network of India Meteorological Department".

Dr. Siddhartha Singh, Met-I and Shri Vijay Kumar Soni, Met-I, was deputed to Tokyo, Japan to attend the Factory Training in Sun Sky Radio Meter System during the period 29th August to 10th September 2010.

INSAT 3D Training - S/Shri A. K. Mitra, R. K. Giri, P. Naryanaswamy, Met-I, were deputed to USA to participate in training course in INSAT 3D Project at University of Wisconsin, Modisow, USA w.e.f. 6th June to 5th October, 2010.