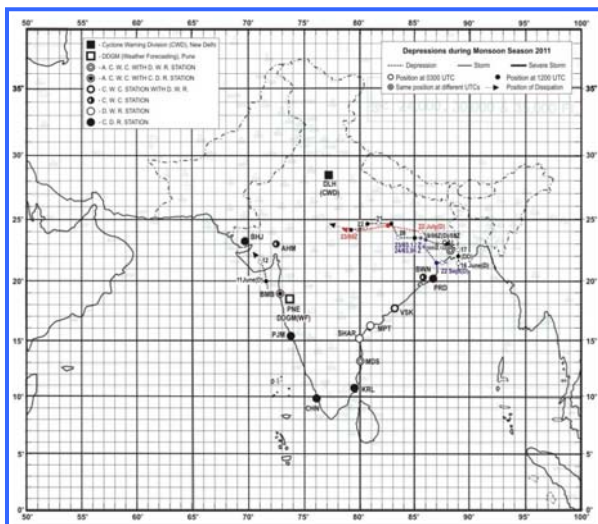




MONSOON DEPRESSIONS



Four depressions formed during this monsoon season as against the normal of 4-6 monsoon depressions. Out of these, two Depressions that formed on 11th June over Arabian Sea & another during 22nd - 23rd, July over Land, had a short life span. The Depression formed during 16th - 23rd June and its subsequent west northwestward movement was responsible for the advance of the monsoon over the most parts of the country. Third depression formed over Jharkhand on 22nd July 2011. The fourth Depression which formed during 22nd - 23rd, Sept towards the end of the season, has caused a second spell of flood situation over Orissa and Bihar.

EARTHQUAKES

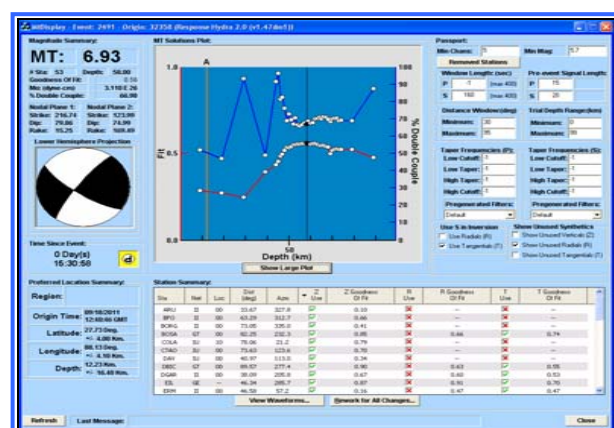
DELHI-HARYANA (SONIPAT DISTRICT) BORDER REGION

An earthquake of magnitude 4.2 occurred on 7th September, at 23:28 hrs IST near Delhi-Haryana (Sonipat District) Border region. The preliminary hypo-central parameters of the earthquake estimated Latitude: 28.6° N /Longitude: 77.0° E Location : Delhi-Haryana (Sonipat District) Border region. Focal Depth : 8 km Magnitude: 4.2 on Richter scale

This earthquake comes under the category of "Slight earthquake" (M<5.0). The earthquake was widely felt in Delhi, Haryana, Uttar Pradesh, Uttarakhand, Himachal Pradesh and other parts of northern India. One aftershock of magnitude 1.3 was also recorded subsequently at 08:40 hours IST on 8th September, 2011.

SIKKIM EARTHQUAKE

An earthquake of magnitude 6.8 on Richter scale occurred on 18th September at 18:11 hrs IST in Sikkim-Nepal Border region with its epicenter at Latitude 27.7° N & Longitude 88.2° E. The event was reported widely felt in Sikkim, Assam, Meghalaya, northern parts of West Bengal, Bihar and parts of other eastern and northern regions of India and caused extensive damage to property and loss of lives. Information pertaining to this main event along with significant aftershocks was transmitted to all concerned states and central Government agencies dealing with relief and rescue operations in the region.



Editorial Team

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VISIT OF HON'BLE MINISTER FOR EARTH SCIENCES

The Hon'ble Minister for Earth Sciences Shri Vilasrao Deshmukhji accompany with Secretary, MoES visited India Meteorological Department on 2nd August, 2011. He was briefed major activities of various divisions. He inspected NWP division to see High Power Computing System (HPCS) installed under the IMD Modernisation Programme.

हिन्दी पखवाड़ा का आयोजन

भारत मौसम विज्ञान विभाग के महानिदेशक के कार्यालय, नई दिल्ली में हिन्दी पखवाड़ा 2011 का आयोजन 1 से 15 सितंबर 2011 तक किया गया। हिन्दी पखवाड़ा के दौरान कुल सात प्रतियोगिताएं आयोजित की गई थी। मुख्यतः प्रतियोगिताओं के लिए प्रथम, द्वितीय, तृतीय एवं दो सात्वना पुरस्कार दिए गए, जिसमें नकद पुरस्कार राशि एवं प्रमाण पत्र मौसम विज्ञान विभाग के महानिदेशक ए.वी.एम.(डॉ.) अजित त्यागी द्वारा दिए गए।

हिन्दी निबंध, हिन्दी टिप्पण एवं मसौदा लेखन, हिन्दी टंकण, स्वरचित हिन्दी कविता पाठ, हिन्दी वाद विवाद, हिन्दी स्लोगन एवं कार्टून आदि प्रतियोगिताएं आयोजित की गईं। हिन्दी निबंध का विषय "अभिव्यक्ति के लिए हिन्दी एक सशक्त माध्यम" था तथा हिन्दी वाद विवाद प्रतियोगिता का विषय "कंप्यूटरीकरण के फायदे और नुकसान" रखा गया था। सभी प्रतियोगिताओं में कार्यालय के कर्मियों ने उत्साहपूर्वक भाग लिया।



मौसम मंजूषा का विमोचन

हिन्दी दिवस समारोह



मौसम विज्ञान के महानिदेशक बाल कलाकारों के साथ

हिन्दी दिवस समारोह 14 सितंबर 2011 को चिन्मय मिशन के हेमको सभागार, नई दिल्ली में आयोजित किया गया। समारोह की अध्यक्षता ए.वी.एम.(डॉ.) अजित त्यागी, महानिदेशक, भारत मौसम विज्ञान विभाग ने की। अध्यक्ष महोदय ने दीप प्रज्वलित करने के बाद समारोह का शुभारम्भ किया। कार्यालय के कर्मियों द्वारा सरस्वती वन्दना प्रस्तुत की तथा इसके उपरान्त श्री ए. ए. फारूकी ने अध्यक्ष महोदय का स्वागत किया। हिन्दी दिवस के अवसर पर माननीय गृह मंत्री श्री पी. चिदम्बरम द्वारा भेजे गए संदेश को वरिष्ठ हिन्दी अधिकारी ने सभागार में पढ़कर सुनाया।



महानिदेशक द्वारा राजभाषा चलशील्ड लेते हुए उप महानिदेशक प्रा.मौ.केन्द्र, नई दिल्ली

इस समारोह के दौरान उप महानिदेशक, प्रा. मौ. केन्द्र, नई दिल्ली को हिन्दी में सबसे अधिक पत्राचार करने के लिए राजभाषा चलशील्ड दी गई। हिन्दी पखवाड़ा 2011 के दौरान प्रथम, द्वितीय एवं तृतीय स्थान प्राप्त करने वाले विजेताओं ने अपनी कविताएं प्रस्तुत की। इसके उपरान्त कार्यालय कर्मियों और स्कूली बच्चों द्वारा शिक्षाप्रद तथा हास्यप्रद झलकियों, गीत एवं संगीत के रंगारंग सांस्कृतिक कार्यक्रम द्वारा सभी दर्शकों को मंत्रमुग्ध कर दिया। अध्यक्ष महोदय ने अपने भाषण में हिन्दी को सरकारी कार्य में बढ़ावा देने पर विशेष जोर दिया तथा सभी कर्मियों को कार्यालय का कार्य अधिक से अधिक हिन्दी में करने की सलाह दी और राजभाषा द्वारा निर्धारित लक्ष्यों को प्राप्त करने का अनुरोध किया। अंत में राष्ट्रगान के साथ हिन्दी दिवस समारोह का समापन हुआ।



सांस्कृतिक कार्यक्रम

मौसम विभाग के अन्य कार्यालयों में हिन्दी पखवाड़ा एवं हिन्दी दिवस का आयोजन



हिन्दी पत्रिका "पवन दूत" का विमोचन

क्षेत्रीय मौसम केन्द्रों में भी हिन्दी पखवाड़ा एवं हिन्दी दिवस मनाया गया। क्षेत्रीय मौसम केन्द्र, चैन्ने में हिन्दी पखवाड़ा 14-23 सितंबर के दौरान मनाया गया। इसका उदघाटन बी.एस.एन.एल. के हिन्दी अधिकारी श्रीमती जयसूर्या चेलम द्वारा 14 सितंबर को किया गया। इस पखवाड़े के दौरान मौसम विज्ञान के महानिदेशक द्वारा हिन्दी पत्रिका "पवन दूत" का भी विमोचन 19 सितंबर को किया गया। हिन्दी में विभिन्न प्रकार की प्रतियोगिताओं का आयोजन किया गया तथा विजेताओं को पुरस्कार दिए गए।



क्षेत्रीय मौसम केन्द्र, चैन्ने में सांस्कृतिक कार्यक्रम

मुख्यालय की तरह देश के अन्य भागों में स्थित मौसम कार्यालयों में हिन्दी पखवाड़ा/हिन्दी दिवस का आयोजन उल्लास पूर्वक किया गया।

खगोलीय विज्ञान केन्द्र, कोलकता में 15 सितंबर को हिन्दी दिवस का आयोजन किया गया जिसमें सभी अधिकारियों एवं कर्मचारियों ने उत्साहपूर्वक भाग लिया। निबंध प्रतियोगिता एवं स्वरचित कविता पाठ का भी आयोजन किया गया। विजेताओं को समारोह के दौरान पुरस्कृत किया गया। इस समारोह के लिए श्री डी. प्रधान को मुख्य अतिथि के रूप में आमंत्रित किया गया था।

मौसम केन्द्र, लखनऊ में हिन्दी दिवस का आयोजन 14 सितंबर को एवं हिन्दी पखवाड़ा का आयोजन 14 सितंबर से 29 सितंबर तक किया गया। हिन्दी पखवाड़ा के दौरान विभिन्न प्रतियोगिताओं में कार्यालय कर्मियों ने उत्साहपूर्वक भाग लिया। प्रतियोगिताओं के लिए पुरस्कार वितरण समारोह का आयोजन 29 सितंबर को किया गया।

मौसम कार्यालय, पालम में भी 14 सितंबर को हिन्दी दिवस का आयोजन किया गया। इसका मुख्य उद्देश्य कार्यालय में हिन्दी में कार्य करने को बढ़ावा देना है। मौसम कार्यालय पालम में भी 1-14 सितंबर तक हिन्दी पखवाड़ा का आयोजन किया गया। जिसके अंतर्गत कविता पाठ, हिन्दी टिप्पण, निबंध आदि प्रतियोगिताएं रखी गईं एवं हिन्दी में वैज्ञानिक विषयों पर व्याख्यान आयोजित किए गए।

चतुर्थ अखिल भारतीय विभागीय हिन्दी संगोष्ठी

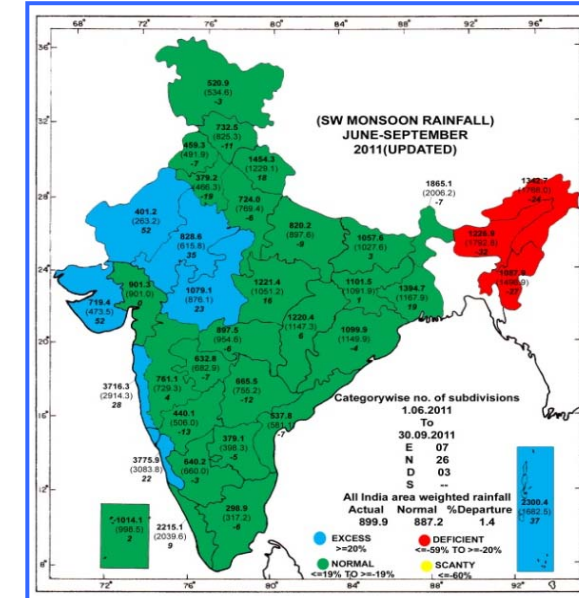


ए.वी.एम.(डॉ.) अजित त्यागी एवं अन्य वरिष्ठ अधिकारी

भारत मौसम विज्ञान विभाग के मुख्यालय, नई दिल्ली में दिनांक 1 जुलाई 2011 को मौसम सेवाओं की उपयोगिता विषय पर हिन्दी संगोष्ठी का आयोजन किया गया इसका उदघाटन द्वीप प्रज्ज्वलन एवं सरस्वती वन्दना से हुआ। संगोष्ठी का आयोजन दो सत्रों में किया गया। महानिदेशक महोदय ने सभी वक्ताओं एवं श्रोताओं को संबोधित किया। प्रथम सत्र की अध्यक्षता श्री बी. मुखोपाध्याय, वैज्ञानिक 'एफ' एवं दूसरे सत्र की अध्यक्षता श्री एल. आर. मीना वैज्ञानिक 'एफ' ने की। इस संगोष्ठी में विभाग के विभिन्न कार्यालयों में कार्यरत कर्मियों ने विज्ञान से संबंधित विषयों पर पावर पॉइंट माध्यम से हिन्दी में अपनी प्रस्तुति दी। दोनों सत्र के अध्यक्षों ने वक्ताओं के प्रयासों एवं उनके ज्ञान परख प्रस्तुति के लिए बधाई दी। व्याख्यान के पश्चात महानिदेशक महोदय ने सभी वक्ताओं को स्मृति चिन्ह प्रदान किए एवं आशा व्यक्त की कि इस प्रकार के कार्यक्रमों से विभाग में राजभाषा हिन्दी के प्रयोग एवं प्रसार को बढ़ावा मिलेगा।

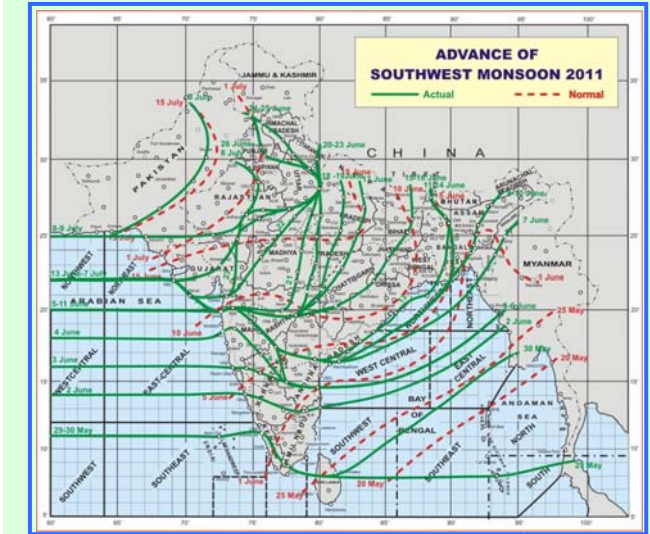
FEATURE OF SW MONSOON 2011

- For the country as a whole, the rainfall for the season (June-September) was 101% of its long period average (LPA).
- Seasonal rainfall was 107% of its LPA over Northwest India, 110% of its LPA over Central India, 100% of its LPA over south Peninsula and 86% of its LPA over Northeast (NE) India.
- Monthly rainfall over the country as a whole was 112% of LPA in June, 85% of LPA in July, 110% of LPA in August and 106% of LPA in September.



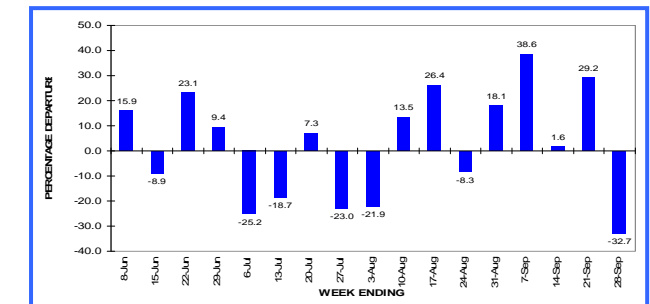
- Out of the total 36 meteorological subdivisions, 33 sub-divisions constituting 92% of the total area of the country received excess/normal season rainfall and the remaining 3 sub-divisions (Arunachal Pradesh, Assam & Meghalaya, and NMMT constituting 8% of the total area of the country) received deficient season rainfall.
- Out of 603 meteorological districts for which data are available, 453 districts (76%) received excess/normal rainfall and the remaining 150 districts (24%) received deficient/scanty rainfall during the season.

ONSET OF SOUTHWEST MONSOON



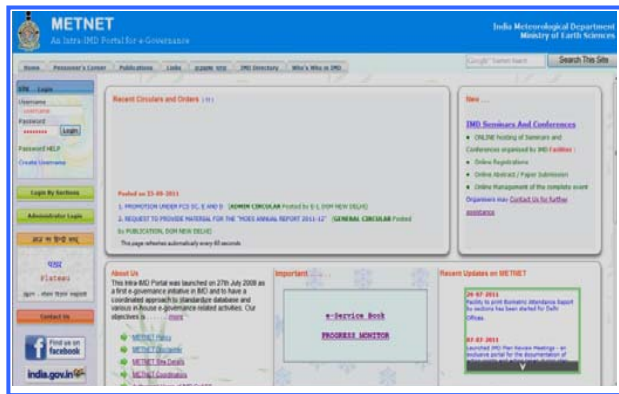
This year, setting of southwest monsoon over Andaman Sea was delayed by about 10 days. However, it set over Kerala 3 days before its normal date of 1st June. The monsoon set in over Kerala on 29th May, three days before its normal date of 1st June and covered the entire country by 9th July, 6 days earlier than its normal date of 15th July. The withdrawal of monsoon from west Rajasthan was delayed and it commenced only on 23rd September. The forecast for monsoon onset over Kerala was correct, which is the seventh consecutive correct forecast for this event.

WEEKLY RAINFALL



In the beginning of the monsoon season weekly rainfalls were positive during all the weeks of June except during the second week. In July, the weekly rainfall anomalies were negative during all the weeks except during 3rd week. Except for the first and fourth weeks of August and last of week of September, weekly rainfall anomalies were positive during all the remaining weeks of the second half of the monsoon season.

IMD PORTAL METNET SERVICES -TRANSPARENCY BETWEEN ADMINISTRATION & EMPLOYEES



On 27th July 2011, METNET has completed 3 years of e-governance services in IMD. The METNET is now recognized as the pioneer in conceiving and implementing e-governance projects for effective administrative services. This has brought to all employees of IMD on a single platform. During this period METNET Mail Desk received a large number of feedbacks and valuable critics, which helped to standardize the framework necessary for future developments.

The beneficiaries include each and every official of IMD, the various admin. and technical units, Ministry of Earth Sciences, other Government agencies and also the general public.

NATIONAL KNOWLEDGE NETWORK

National Knowledge Network (NKN) connectivity has been implemented at HQ New Delhi and Regional Meteorological Centres starting with 100 Mbps (Scalable to 1 GBPS). It is utilized for teleconferencing and web browsing at HQ New Delhi. Connectivity between NKN Close User Group (CUG) has also been established at HQ for data exchange with other agencies on NKN like IITM, INCOIS etc. Exchange of New data sets/products from satellite and newly installed Doppler Weather Radar have been implemented at RTH New Delhi. Regular upload of several additional new Doppler Weather Radar / Satellite products have been implemented.

PUBLICATIONS

A paper entitled, “District-wise drought climatology of southwest monsoon season over India based on standardized precipitation index” by **S/Shri D. S. Pai, Latha Sridhar, Pulak Guhathakurta and Dr. H. R. Hatwar**, National Hazards, DOI 10.1007/S/1069-011-9867, 8, June 2011.

Paper entitled, “Impact of climate change on extreme rainfall events and flood risk in India” by **Dr. P. Guhathakurta, O. P. Sreejit and P. A. Menon**, Journal of Earth Science System, 120, No. June 2011, 359-376.

One article, 11 Research papers and 2 Letters were published in **MAUSAM**, Vol. 62 No.3 (July 2011) issue.

PROJECT EVALUATION

EMRC evaluated fifty six (56) Thermal Power, one hundred thirty one (131) Industrial and forty two (42) Coal Mine projects referred to this Department by the Ministry of Environment & Forests, New Delhi.

BHARAT JAN SUCHNA ABHIYAN

MC Shimla participated in the “Bharat Jan Suchna Abhiyan” organized by Govt. of India & PIB Shimla at Keylong, Distt Lahaul & Spiti from 6th to 8th Jul, 2011 & display an exhibition on Different Meteorological Services of IMD. Two IMD officials viz., Shri B. K. Mehta and Shri Balwan Singh Dulta participated in the exhibitions.



Shri B. Puttanna, Director has delivered a talk on “Climate change and early warning system in India” to Gr-A & B officers of Karnataka at Administrative Training Institute, Mysore on 8th July 2011.

Dr. M. Mohapatra, Scientist ‘E’ delivered two lectures on 9th July on “Synoptic and statistical methods of prediction of summer monsoon circulation and precipitation” in the SERC school and “Dynamics and forecasting of Indian summer monsoon” organised by Centre for Atmospheric Sciences, IIT Delhi.

Dr. M. Satya Kumar, Scientist ‘F’ delivered a lecturer on “Cyclones and Floods” at APARD, Rajendranagar, Hyderabad on 13th July 2011.

Dr. Medha Khole, Scientist ‘E’ delivered a lecture on 19th July 2011 on the subject, “Weather Forecasting” at Athashri Foundation, Pune.

Dr. (Mrs.) Kamaljit Ray, Director delivered lecture on “Mid season review of Monsoon” at Space Application Centre, Ahmedabad, organized by IMS, Ahmedabad on 22nd July 2011.

Shri P. R. Baidya, Scientist ‘E’ delivered a lecture on “Earthquake and its Parameters” on 11th August, 2011 in the training course on “Capacity Building of Engineers on Seismic Assessment, Retrofitting & Rehabilitation of Building” at CPWD Ghaziabad.

Dr. A. B. Mazumdar, DDGM (WF) delivered a special lecture on “Monsoon Forecasting” in a National Workshop on Weather forecasting on 12 August 2011 organized by Modern College, Pune.

Shri Anand Kumar Sharma, Scientist ‘E’ Meteorological Centre, Dehra Dun delivered a lecture on “Weather and climate effect on diseases” on 12 August 2011 to medical students of Shri Guru Ram Rai Medical College.

Dr. S. Balachandran, Scientist ‘E’, delivered a lecture on “Climate change and monitoring” at RMC Chennai to the students of Sathyabama University on 23 August 2011.

Shri S. B. Thampi, Scientist ‘E’ DWR Chennai has participated in the inaugural function of Doppler Weather Radar Maintenance and Training Centre and also in the User’s Meet at MC Hyderabad on 24 August 2011.

Dr. Somenath Dutta, DDGM (T) and **Dr. P. Khare**, Director delivered lectures on “General Meteorology” and “Climate of India” respectively to the trainees of Agro meteorology.

Shri D. Pradhan, Scientist ‘E’ delivered lecture on 28th September 2011 at the seminar hall of Geological Survey of India, Kolkata on “DWR and its utilization on prediction of severe weather events”.

Dr. S. D. Attri, Scientist ‘E’ (EMRC) delivered talk on “Climate Change : Science and Issues” at MDU Rohtak, Haryana.

Dr. Jayanta Sarkar, Scientist ‘E’ delivered lectures on “Drought Monitoring” and “Crop Yield Forecasting” to the participants of the Agromet. Core Course organized by the Agrimet. Division, IMD, Pune.

Smt. Sunitha Anil Nair delivered a lecture on “National Disasters and Organizational structure of IMD for Disasters warning” to officers from Revenue Department, Jila Parishad, Police and Public work department from all districts of Maharashtra who were undergoing a training programme organize under title, “Cyclone disaster Management by YASHADA during September 2011.

VISIT OF AFGHANISTAN DELEGATION



Dr. Y.V. Rama Rao, Scientist 'E' and Afghanistan delegation

An Afghanistan delegation visited IMD (NWP Division) on 2nd September, 2011. They were apprised about the forecasting techniques of IMD using various models of NWP and also visited various division of IMD.

Mr. Hassane H. Cisse, Aeronautical Meteorology Expert from ICAO Montreal, Canada along with Shri Jang Bahadur Singh, Inspector-Air traffic Management, DGCA, New Delhi visited Tropical Cyclone Advisory Centre (TCAC), New Delhi on 18 August 2011. Dr. M. Mohapatra Sc 'E' (CW) briefed them regarding activities of (TCAC), New Delhi, which was appreciated by the visitors.

Shri A. R. Subbiah, Director, Regional Integrated Multi-Hazard Early Warning System, Thailand visited RMC, Chennai on 2 September 2011 and had a discussion with Dr. Y. E. A. Raj, DDGM.

VISIT OF AFRICAN DELEGATION



African delegation

A 19-member African delegation visited IMD on 18th September, 2011. They were shown the various forecasting techniques using models of NWP. They were also shown the working of HPCS.

VISIT OF DR. TIMO PROESCHOLDT

Dr. Timo Proescholdt, WIS expert from WMO visited IMD (ISSD), New Delhi from 5th to 7th September 2011 in connection with 'Jump Start-WIS implementation'. Various topics like WIS overview, practical WIS metadata, WIS functional specifications, WIS designation procedures, WIS strategy and project plan (IMD) etc. were discussed during the visit to proceed further for GISC (Global Information System Centre) designation of RTH New Delhi.



Dr. Timo Proescholdt, WIS expert from WMO

FAMILIARIZATION TRAINING IN SEISMOLOGY

Mr. Dookharansing Seetohul, Meteorologist from Mauritius Meteorological Services attended familiarization training in Seismology Division on various operational activities related to earthquake monitoring during 25th to 30th September 2011.



Mr. D. Seetohul, Meteorologist from Mauritius Meteorological Services

UTILIZATION OF DOPPLER WEATHER RADAR PRODUCTS

Five days (12 - 16 September, 2011) training workshop on "Utilization of Doppler Weather Radar products in now-casting of severe weather phenomena" was conducted for 7 Nos. of Indian Air Force Met. Officers and 5 Nos. of Integrated Test Range, Chandipur Officers. Shri D. Pradhan Sc. 'E', Shri T. K. Ray, Asstt. Met I, Shri I. Talukdar, Sc. Asst. and Shri D. K. Kundu, Asstt. Met I (Retired) delivered lectures on the various topics related to DWR image interpretation and their utilization for aviation and nowcasting. The officers expressed high level of satisfaction towards the quality of training provided and the hospitality extended by DWR and RMC Kolkata.

TRAINEES

17 Trainee Officers and one Supervisor from State Agricultural Management Extension Training Institute (SAMETI), Hyderabad visited the Observatory of M.C. Hyderabad on 20 July 2011. They were shown round the Observatory, Doppler Weather Radar and explained functioning of various instruments.

A training on "Design of training (DOT)" had been conducted at CTI during the period from 16th - 20th August, 2011. Thirteen trainees from IMD have participated.

25 African trainees attached to National Institute of Disaster Management (NIDM) visited India Meteorological Department on 23rd September 2011. They were briefed about various activities of IMD for disaster management. Dr. M. Mohapatra, Sc 'E' gave a presentation to the visitors on "Overview of cyclone and its mitigation" by IMD.

BUDGET AND ACCOUNT MANAGEMENT TRAINING

A training programme on Budget & Accounts Management System meant for Drawing and Disbursing Officers & Budget Asstt. of IMD was held during 10th & 11th August, 2011 at H.Q. New Delhi. 28 Officers & staff members of various offices participated in training programme. The participants were trained in Budget & Accounts Management System of Metnet. All expenditure can be monitored online by the concerned officers.



Trainees of Budget & Accounts Management System

INSPECTION OF M.C. AHMEDABAD

A team from IMD (HQ) New Delhi comprising of Shri U.P. Singh, Director, Smt. Reva Sharma Hindi Officer, Smt. Sarita Joshi & Shri Birender Kumar Sr. Hindi translator visited M.C. Ahmedabad on 22nd Sep 2011 for inspection regarding implementation of Rajbhasha programme. During inspection, they suggested the use of Hindi language in various areas of office work. Maximum use of Hindi is essential to implement program related to 'Implementation of Rajbhasha'.



Inspection team at MC Ahmedabad

MoES - ANNUAL AWARDS, 2011

Certificate of merit is given to the Scientists working under Admin. Control of the Ministry for recognition of the scientific contribution towards achieving the task / goal assign to organization. Awards consist of a cash prize of Rs.30,000/-, trophy and a citation. Dr. D. R. Pattanaik, Shri A. D. Thate and Shri Ravi Kant Singh have been conferred certificate of merit for outstanding contribution in the field of atmospheric Science & Technology. The best employee award is being given to best employees one each in group B Gazetted and Non Gazetted, group C and group D employees of the office under MoES. S/Shri R. K. Sharma, P. N. Chopade, V. Arvindan, Nirman Mondal and Ajay Singh have been conferred best employees award in their cadre.



MoES Award winners with DG, IMD

ACHIEVEMENTS

Automatic upload of city forecast for 100 important cities of WMO website was implemented by ISS Division. WMO has appreciated it as one of the best services rendered by IMD.

Shri Anand Kumar Sharma, Scientist-E, Meteorological Centre, Dehra Dun invited as an expert for the evaluation of M.Sc. thesis and for the viva-voce at Doon University on 18th July 2011.

Shri R. S. Dattatrayam, Scientist 'F' & Head (Seismology) has been elected to serve for four years as member of Executive Committee of the International Seismological Centre (ISC), UK.

A research paper entitled "Daily Summer Monsoon rainfall over Northeast India due to synoptic systems" by **Dr. M. Mohapatra** Sc-E, **Shri H. R. Biswas** Met-I and **Shri G. K. Sawaisarje** Met-I published in January 2008 (Vol 59, No.1) issue of "Mausam" has been selected for **25th Biennial Mausam award (2008-09)**.

VISIT OF DGM



Dr. Ajit Tyagi briefing the media

AVM (Dr.) Ajit Tyagi, DG, IMD, visited Dharamshala for site selection of land for DW-Radar at Dharamshala and AMS Shimla on 13th - 14th Aug, 2011. A media conference was organized at Dharamshala on 14th Aug 2011 and Dr. Tyagi briefed the media about the Meteorological Service provided in Himachal Pradesh and the future plans of IMD.

AVM (Dr.) Ajit Tyagi, D G, IMD visited CSO Shillong along with Shri H. G. Pathak, DDGM, RMC Guwahati on the 10th September 2011 to discuss about establishment of MC Shillong.



DG, IMD with officers during CSO Shillong meeting

AVM (Dr.) Ajit Tyagi, DGM, chaired the inaugural function of National Conference on Science of Climate Change and Earth Sustainability : Issues and Challenges at Lucknow University Campus, Lucknow on 12th Sep 2011.

AVM (Dr.) Ajit Tyagi, D.G.M. visited MC Goa on 20th Sept 2011. He visited the DWR building under construction at Goa. A meeting was arranged with Supdt. Engineer CPWD (Civil) and J.E. (Elec.) Goa on same day. DGM also interacted with the officers and staff of MC Goa. He also attended "Third National Workshop on Climate Change : Polar Climate, Oceans and Monsoon organized by NCAOR, Goa.

FOREIGN VISITS

Dr. O. P. Singh, Scientist 'F' and Shri R. Suresh, Scientist 'E' visited agency of Meteorology, Climatology and Geophysics at Indonesia during 13-17th July 2011 for finalization of project under MoU and field visits.

Dr. R. Suresh, Scientist 'E' was on deputation to Indonesia (Jakarta & Denpasar, Bali) during 13-17 July 2011 accompanying with Secretary, MoES.

Dr. D. S. Pai, Scientist 'E' attended two days National Seminar on climate change held on 20th & 21st July at Goa Science Centre, Miramar, and delivered key note address entitled, "Climate change; impacts & adapatation and another invited lecture entitled, "Science behind climate change & global warming.

Shri S. B. Tyagi, Scientist 'E' participated in Water Information Research & Developments in Science Symposium at Melbourne, Australia during 1-5 August 2011.

Six IMD officers deputed for twelve weeks training in hardware operation of C-band Doppler weather Radar at M/s Vaisala, Helsinki, Finland w.e.f. 29th August 2011.

Dr. M. Mohapatra, Scientist 'E' was on Ex India deputation to St. Petersburg, Russia during 7-9 September 2011 as an expert member of a five member Indian delegation led by Joint Secretary, Ministry of Home Affairs, Govt. of India to participate in the 4th Trilateral Meeting of Experts on Disaster Management from India, Russia and China.

Shri Satish Bhatia, Scientist 'E' was deputed to Dhaka during 11-12 September 2011 to attend fourth International Programme Committee (IPC).

Dr. D. R. Pattanaik, Director and **Shri O. P. Sreejith**, Meteorologist Gr. I was on deputation to ROSHYDROMET, Moscow to participate in the meeting to carry out joint activities on the theme "Development of methods for analysis and forecasting intra-seasonal and inter-annual variability of precipitation fields based on results of meteorological forecasts" during 24-30 September, 2011.



Shri O. P. Sreejith (Left), Dr. D. R. Pattanaik (Right) with Dr. Roman M. Vilfand (Centre), Director, Hydromet Centre Russia

AVM (Dr.) Ajit Tyagi, DG, IMD was on deputation to Dhaka, Bangladesh during period 24-29 September 2011 and participated in 17th Meeting of Governing Board of SMRC on 26-27 September 2011 followed by selection committee meeting on 28th September 2011.

Dr. Y. V. Rama Rao, Scientist 'E' was on deputation to Bangladesh and Thailand during period from 28-30 September 2011 to participate in United Nation ESCAP & RIMES joint region project.

SURFACE OBSERVATORY AT BANGALORE INTERNATIONAL AIRPORT LTD. (BIAL)

A MoU for the allotment of land at BIAL for the establishment of surface observatory was signed during a meeting of Dr. R. Asokan, Scientist 'E' and Shri L. Ramesh Babu, Scientist 'D' on 30th August, 2011 with Shri Prithvi Ponappa, General Manager, Facilities, BIAL.

CONFERENCE ON ENVIRONMENTAL SCIENCE & TECHNOLOGIES



National conference on Environmental Science Meet

Dept. of Chemistry & Civil Engineering, Aarupadai Veedu Institute of Technology, Paiyanoor, in technical collaboration with RMC Chennai, organized a National Conference on 'Environmental Science & Technologies for Sustainable Development' during 19-20 August, 2011.

CONFERENCES

Dr. A. K. Shukla, Scientist 'F' (Head : EREC) attended a workshop on "Disaster preparedness an Road Maps of J&K held on 28 July, 2011 at SKICC, Srinagar organized by State Disaster Management Authority (Revenue Deptt. J&K) in collaboration with NDMA, New Delhi and made a presentation on "Use of Seismic Microzonation for Land use and Disaster Management".

Dr. A. P. Pandey, Met-I and **Shri H. S. Mandal**, Met-I attended a training course on "Earthquake Resistance Design and Construction" jointly organized by BMTPC, New Delhi and IIT Roorkee held between 1st - 3rd September 2011 at IHC, New Delhi.

Dr. Y. E. A. Raj, DDGM participated in the Conference organised by Dr. M. S. Swaminathan Research Foundation, Chennai and chaired a session on 6th September 2011.

Shri R. S. Dattatrayam, Scientist 'F' (Seismology), **Dr. A. K. Shukla**, Scientist 'F' (Head EREC) and **Shri G. Suresh**, Scientist 'E', Seismology Division attended the "Indo-Norwegian Workshop on Geohazards" conducted by the Ministry of Earth Sciences (MoES) at New Delhi during 12-14th September 2011.

Smt. Sunitha Anil Nair attended National Conference on Science & Climate Change & Earth Sustainability issues and Challenges at Lucknow on 12-14 September 2011 and presented a paper.

Shri A. K. Jasqal, Director, presented a paper in the National conference on sequence of climatic change and Earths Sustainability issues and challenges during 12th to 14th September, organized by "The society of earth scientists, India" at University of Lucknow.

SAARC SEMINAR

A SAARC Seminar on "Application of NWP models in Mountain Weather Forecasting and extreme weather warning over the SAARC region" was organized in IMD New Delhi during 26-27 July, 2011. 12 delegates from the SAARC countries participated in the seminar. The Seminar was inaugurated by Dr. Shailesh Nayak, Secretary, MoES. More than 60 delegates from IMD and other scientific organizations participated in the Seminar.



Group of participating scientists in SAARC seminar

INSPECTION OF PARLIAMENTARY COMMITTEE

Inspection of Parliamentary committee on official language was organized at Dwarka on 26th September for the inspection of Met. Office, Okha. Dr. K. J. Ramesh Sc 'E' and Smt. Manjula Mehta, from MoES, Shri L. R. Meena Sc 'F' and Smt. Reva Sharma from IMD, New Delhi, Shri N. Y. Apte Sc 'F' DDGM (RMC), Mumbai, Dr. Kamaljit Ray, Sc 'E', MC Ahmedabad, attended the meeting. The assurance on implementation of Rajbhasha was given for various points raised by Honourable Members of Parliament. On their honour a cultural dance programme followed by dinner was hosted there on 25th evening.



REGIONAL COORDINATION COMMITTEE MEETING



Release of RMC Chennai Annual Report 2010-2011

Regional Coordination Committee meeting of Officers-in-charge of all sub-offices and units of RMC Chennai was conducted at RMC Chennai during 19-20 September 2011. AVM (Dr.) Ajit Tyagi, DGM presided over the meeting on 19 September 2011. DGM released Annual Report of RMC Chennai on this occasion. Dr. Y. E. A. Raj, DDGM, RMC Chennai chaired the RCC meeting on 20 September 2011 and discussed the agenda points.

A MEETING ON UPGRADATION OF HPCS

MoES subcommittee meeting to workout the details of requirements of various MoES units in connection with the upgradation of HPCS was held under the chairmanship of Dr. P. P. Chakrabarti of IIT Kharagpur on 27th August, 2011 in Conference Room, Mausam Bhavan, New Delhi. Members of sub-committee from IMD and other departments also participated in the meeting.



Upgradation of HPCS meeting

A CO-ORDINATION COMMITTEE ON MASS MEDIA

A state level co-ordination committee meeting on mass media discussion was held at Library Hall of M. C. Bangalore on 03 August 2011 & 07 September 2011. Shri B. Puttanna, Director and other 17 Directors from Doordarshan, AIR, Agriculture Department, Animal Husbandry, Horticulture, Sericulture, WRD departments of State government were participated in the meeting. The Committee members were taken round the observatory and explained the activities of M C Bangalore. Doordarshan has recorded & broadcast the programme.



Co-ordination Committee Meeting on Mass Media