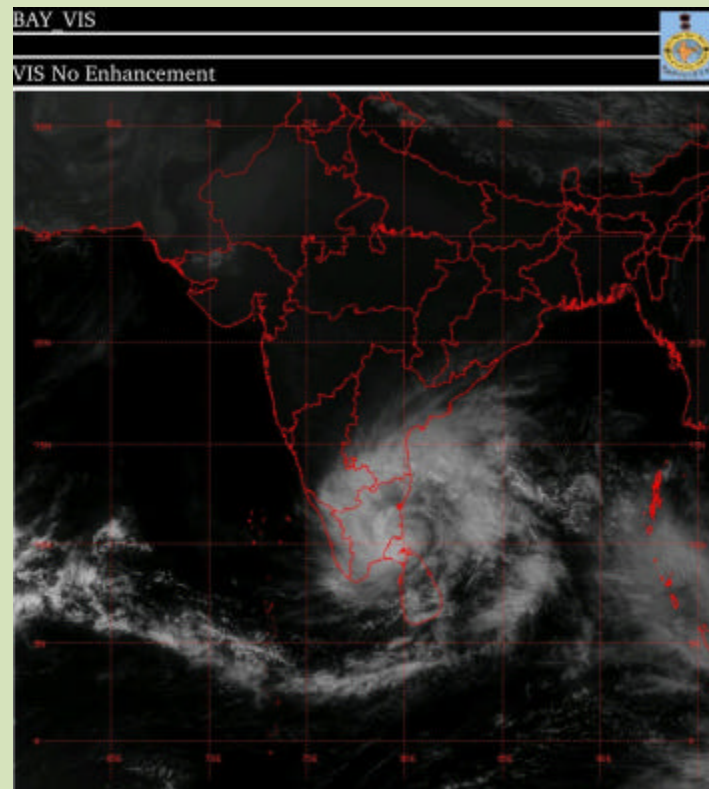
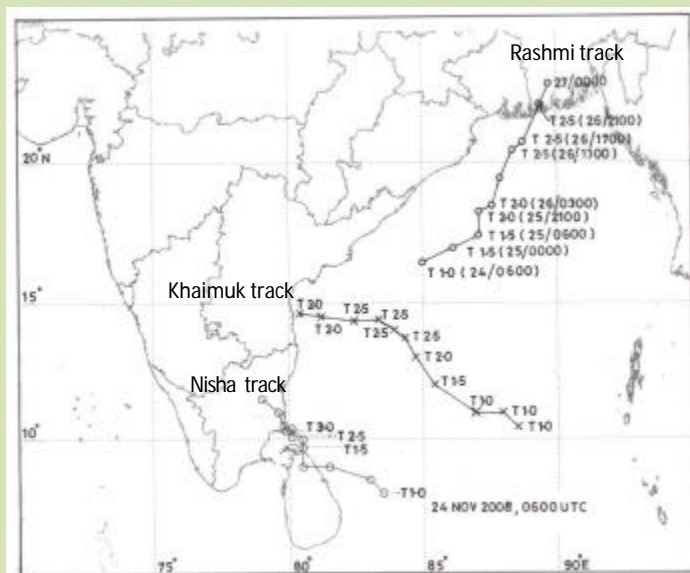


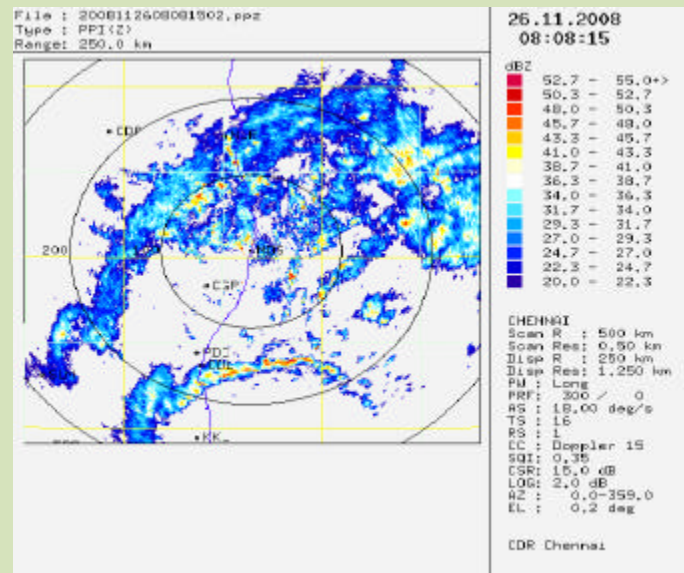
Cyclonic storm – 'Khaimuk'
dated 15 November 2008, 0300 UTC



Cyclonic storm – 'Nisha'
dated 26 November 2008, 0900 UTC



Post Monsoon Cyclone tracks



Doppler Radar product



IMD NEWS

QUARTERLY NEWSLETTER OF
INDIA METEOROLOGICAL DEPARTMENT

Volume : 1,
No. 4
Oct - Dec 2008

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VISITS OF FOREIGN DELEGATES DELEGATION FROM OMAN

Three Member Oman delegation team headed by Ahmed Hammod Mohamed Al Harthi, Director Operational and Technical Services from Ministry of Transport and Communication of Sultanate of Oman visited India Meteorological Department, New Delhi from 23-24 October 2008 to gain experience in the field of Environmental Changes and prediction of weather conditions in the Indian Ocean and the Arabian Sea.



AVM, Dr. Ajit Tyagi, DGM meeting with Three Member Oman delegation headed by Ahmed Hammod Mohamed Al Harthi in Conference Hall, H.Q., New Delhi

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AMBASSADOR, EMBASSY OF FINLAND



AVM Dr. Ajit Tyagi, Director General, IMD Meeting with Mr. Asko Numminen, Ambassador, Embassy of Finland.

Mr. Asko Numminen, Ambassador, Embassy of Finland visited India Meteorological Department, New Delhi on 25th November 2008. He showed interest to explore scientific cooperation between IMD and Finland Meteorological Institute in potential areas like Air Quality Process, Air Pollution And Prevention etc.

Shri R. C. Bhatia, ADGM (S & IT) retired after attaining the age of superannuation on 31 Dec 2008. He started his career as Research Fellow at the National Physical Laboratory (NPL), New Delhi and commenced research in the field of Ionospheric Physics under the supervision of Dr. A. P. Mitra, the eminent scientist. Mr. Bhatia joined the India Meteorological Department as Professional Assistant in 1972. He served as LACD DGM for about fifteen months from December 2006 to February 2008



Editorial Team

Dr. A. L. Koppar, Shri U.P. Singh, Shri S.C. Sharma, Shri Subhash Khurana, Shri Dinesh Khanna, Shri Gopi Chand

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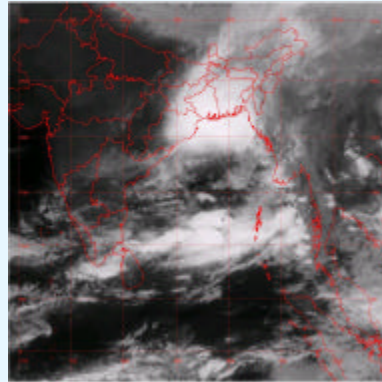
Tel. : 24651287; Telfax : 91-11-24699216 & 91-11-24623220

Email : newsletter_imd@yahoo.com

SPECIAL WEATHER FEATURES DURING THE QUARTER

CYCLONE "RASHMI"

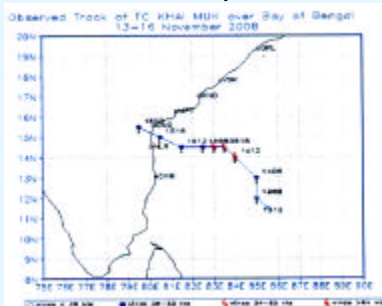
A Deep Depression intensified into a Cyclone "RASHMI" over Northwest Bay of Bengal and crossed Bangladesh coast during early morning of 27 Oct 2008. Cyclone Alert / Warnings were issued to Govt. of West Bengal and other user agencies organisations/Disaster management authorities on real time basis.



Kalpana - 1 IR dated 26 Oct 2008, 1700, T2.5 Rashmi

CYCLONE "KHAIMUK"

A cyclonic storm "KHAIMUK" developed over the Bay of Bengal on 14th November 2008. Moving in a westnorthwesterly direction, it weakened, and crossed coastal Andhra Pradesh close to north of Kavali between 0330 and 0430 hours IST of 16th as a deep depression. Under its influence, widespread rainfall with isolated heavy to very heavy falls occurred over coastal Andhra Pradesh and Rayalaseema.



Track of KHAIMUK during 13-15 Nov 2008

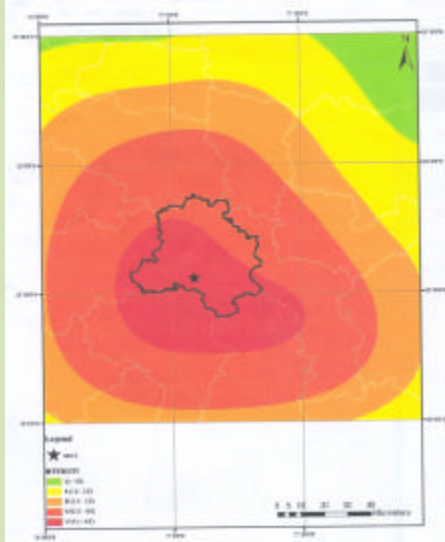
CYCLONE "NISHA"

Another cyclonic storm "NISHA" crossed Tamil Nadu & Puducherry coast close to the north of Karaikal between 0530 & 0630 hrs IST of 27th November 2008. Under its influence, widespread rainfall with scattered heavy to very heavy falls and isolated extremely heavy falls occurred over Tamil Nadu & Puducherry leading to floods over delta districts of Tamil Nadu and Puducherry.

ISOSEISMAL MAP OF DELHI EARTHQUAKE

Technical Report on intensity survey for 25th Nov 2007 Delhi Earthquake prepared by EREC. The results of the microseismic survey of this earthquake of magnitude 4.3, with the surveyed dataset allowed establishment of spatial distribution of the earthquake effects in the form of isoseismal map as shown in Fig. The intensity map was developed using geo-statistical analysis tool with local polynomial interpolation method.

The report on the study was submitted in Nov 2008.



ANTARCTICA EXPEDITION

IMD is actively involved in Antarctica expeditions and Sagar Kanya Cruises. IMD has selected two officers S/Shri Kuldeep Wali, Asstt. Met. and P. Radhey Shyam, Asstt. Met. for participating in 28th Antarctica Expedition. Shri Kuldeep Wali has already reached Maitri, Antarctica on 22nd November 2008 flying from Cape Town (South Africa) to Maitri by DROMLAN flight D4 (IL76) facility. Shri P. Radhey Shyam Asstt. Met. II will be travelling from Cape Town to Antarctica by Ship.



SAGAR KANYA EXPEDITION

Two IMD members have been nominated for participation in Southern Ocean Expedition R.V. Boris Petrov conducted by NCAOR, Goa and one member has been nominated for participation in ICARB Ocean Cruise Project, conducted by Vikram Sarabhai Space Centre with effect from 26th December 2008.

WEATHER AND CLIMATE IN HIMALAYAS WITH SPECIAL REFERENCE TO UTTARAKHAND



A workshop was organized by Meteorological Centre, IMD, Dehra Dun in collaboration with Government of Uttarakhand on 19 December 2008. The workshop was inaugurated by the chief guest of the function Hon'ble Chief Minister of Uttarakhand, Major General (Retired) Shri B. C. Khanduri. He praised the work being done by Meteorological Centre, Dehradun. The key note address was delivered by AVM Dr. Ajit Tyagi, Director General, India Meteorological Department, New Delhi. Apart from DGM, Shri B.L. Verma, DDGM RMC, New Delhi and officers from MC's, other scientists / media personalities, planners from various organizations and NGO's actively participated in the workshop.

IMD AND UNITED NATIONS DEVELOPMENT PROGRAM

One day workshop on "Weather Services for Community" was organized on 7th Nov 2008 under the joint auspices of India Meteorological Department, Chennai & United Nations Development Program, held at The Residency Towers, T. Nagar, Chennai. About 80 officials including 7 District Revenue Officials, 3 district collectors, officials from State Agriculture Dept, fisheries, shipping & ports, railways, Coast Guard, ISRO, NIOT, electronic and print media participated in the workshop.

Dr. R. Suresh, Director delivered a lecture on Aviation Met. Services on this occasion.

During the quarter October - December 2008

ASSESSMENT

S. No.	For promotion to the Post	Details
1.	Met. Gr.I to Director	Assessment held on 28 November 2008

PROMOTION

1.	DDGM	1 Director has been appointed as DDGM on ad-hoc basis w.e.f. 2 December 2008 or from the date of assumption of charge up to 31 March 2009.
2.	Director	4 Nos. Met. Gr. I have been promoted to Director w.e.f. 17 December 2008 or from the date of assumption of charge.
3.	Asstt. Met. I	17 Nos. Asstt. Met. Grade II have been appointed as Asstt. Met. I on officiating capacity w.e.f. 01 October 2008 or from the date of assumption of charge.
4.	Private Secretary	2 Steno Grade I have been appointed as Private Secretary w.e.f. dated 1 October 2008 & 14 October 2008 or from the date of assumption of charge.

RETIREMENT

OCTOBER 2008

S.No.	Name	Designation	Office
1.	Dr. C. V. Veerabhadram	DDGM	RMC Mumbai
2.	Shri A.S. Ponnuswamy	Met. Gr-I	RMC Chennai
3.	Shri H.V. Satur	Met. Gr-I	RMC Chennai
4.	Shri K. Prasad	Met. Gr-I	MC Patna
5.	Shri A.V. Mulay	Asstt. Met. Gr-I	ADGM (R) Pune
6.	Smt. Shyamala Aniruddin	Asstt. Met. Gr-I	MC Thiruvananthapuram
7.	Smt. P.S. Yellapragada	Asstt. Met. Gr-I	DDGM (SI) Pune
8.	Smt. H.V. Rao	Asstt. Met. Gr-II	ADGM (R) Pune

NOVEMBER 2008

1.	Shri Prakash Varandani	Asstt. Met. Gr-I	MC Bangalore
2.	Shri Hari Krishan	Asstt. Met. Gr-I	MO Palam
3.	Shri P.C. Dash	Asstt. Met. Gr-II	MC Bhubaneswar

DECEMBER 2008

1.	Shri R. C. Bhatia	ADGM (I&T)	DGM's Office, New Delhi
2.	Shri Vijay Singh	Director	DGM's Office, New Delhi
3.	Shri D.K. Srivastava	Director	DDGM (UI), New Delhi
4.	Shri D. Viseswara Rac	Director	MC Hyderabad
5.	Dr. G. C. Basu	Director	RMC Kolkata
6.	Shri K.C. Kori	Asstt. Met. Gr-I	DDGM(UI), New Delhi
7.	Shri Ashis Kr. Dasgupta	Asstt. Met. Gr-I	MO Kolkata
8.	Shri D. K. Pandya	Asstt. Met. Gr-I	DDGM (Agrimet) Pune
9.	Shri M.B. Vaishnav	Asstt. Met. Gr-I	MC Ahmedabad
10.	Smt S. B. Karambelkar	Asstt. Met. Gr- II	ADGM (R), Pune
11.	Shri N.G. Chakraborty	Asstt. Met. Gr- II	MO Safdarjung, New Delhi
12.	Shri Y. Venkat Rao	Asstt. Met. Gr-II	MC Hyderabad
13.	Shri B.K. Bhattacharjee	Asstt. Met. Gr-II	MO Palam, New Delhi
14.	Smt. S. Janaki	Admin Officer	RMC Chennai

OBITUARY

S. No.	Name	Designation	Date of Death	Office
1.	Shri Sachitanand	Asstt. Halwai	24 October 2008	DGM's Office, New Delhi

LAUNCH OF A DEDICATED WEATHER CHANNEL IN INDIA

Recognizing the increasing demands of the modern world for easy and timely access to weather information, India Meteorological Department (IMD), Ministry of Earth Sciences (MoES) envisages launching a dedicated Weather Channel in India. Shri B.P. Yadav, the designated Project Director, is coordinating important project activities.

LAUNCH OF A DEDICATED WEATHER CHANNEL IN INDIA

PricewaterhouseCoopers Pvt. Ltd. (PwC) was hired for providing consultancy services. A committee of experts of IMD, MoES and MoIB etc. under the chairmanship of Dr. Ajit Tyagi, Director General Meteorology (DGM) has been constituted to monitor the progress and implementation. The channel will be launched under Public-Private Partnership (PPP) mode wherein IMD, the public agency, will provide all the weather related information and the private TV channel operator will package and disseminate it to the various end users. A Detailed Project Report (DPR) has been prepared for assessing the feasibility of the project.

LAUNCH OF A DEDICATED WEATHER CHANNEL IN INDIA

IMD is following a two stage bidding process viz. Expression of Interest (EOI) and Request for Proposal (RFP) to select the private channel operator. The Technical Evaluation Committee (TEC) short listed Star India Pvt. Ltd., Media Content and Communications Services (I) Pvt. Ltd., Zee News Ltd. and NDTV Ltd. for issuing RFP. Weather Channel is likely to be launched during March-April, 2009.

INSTRUMENTATION

New integrated automatic aviation Met. Systems (IAAMS) has been commissioned on trial basis w. e. f. 23 October 2008 at MO, Mumbai. New integrated automatic aviation Met. Systems (IAAMS) at Hyderabad, Delhi and Bangalore airports have been commissioned. These are state of the art instruments which provide valuable data to the user at the airport for RVR and current weather in real time.

Under Phase-1 of IMD's Modernisation program, work for installation of 550 AWS and 1350 ARGs at different parts of the country has been taken up and the installation is likely to be completed within 6-8 months.

Out of 550 AWS planned for installation during phase - I of modernization 125, Automatic Weather Stations (AWS) installed during 2006-07 are providing valuable data to the user and as on date 120 are operational. One Automatic-Weather Station installed at Shirdi Maharashtra during the quarter.

Two Dead weight testers and 100 Nos of standard barometers have been received at the office of DDGM (SI) Pune. The barometer are to be supplied to RMCs/MCs and are presently under laboratory test.

GROUND SYSTEM WITH RECEIVER & PROCESSOR



DATA RELAY TRANSPONDER MEETING

A Data Relay Transponder (DRT) users meeting was conducted by the Satellite-Meteorology Division for the benefit of all organizations using the Automatic Weather Stations (AWS), where in it was discussed to update the information on AWS at DRT Secretariat, New Delhi and also to establish three National AWS Data Centers at IMD, New Delhi, Pune and ISRO, Ahmedabad.

UPGRADATION OF PILOT BALLOON OBSERVATORIES

62 nos. of Pilot Balloon observatories have been upgraded by installation of Hand Held Data loggers. This has resulted in change of Manual Pilot Balloon Computation to Semi Automatic Pilot Balloon Computation.

INSTALLATION OF GPS UPPER AIR SYSTEM

10 nos. of GPS based upper air systems will be installed at Srinagar, Mohanbari, Chennai, Thiruvananthapuram, Port Blair (under modernization of IMD) and Goa, Minicoy, Hyderabad, Vishakhapatnam, & Patna (under MFI project). Five systems (under modernization of IMD) were delivered and tested at Delhi in December 2008, installation of these systems will be done by Feb. 2009.

USER'S WORKSHOP ON WEATHER AND CLIMATE IN WESTERN HIMALAYAS AT SHIMLA

A Workshop on "Users' requirements of Weather and Climate in Western Himalayas" was organized by India Meteorological Department at Meteorological Centre Shimla, on 20th Oct 2008 in order to understand better the specific requirements of different users.

The workshop was inaugurated by Sh. Narender Bragta, Hon'ble Minister of Horticulture, Govt. of Himachal Pradesh. He emphasized the need for immediate installation of a Doppler Weather RADAR at Shimla and another one in the tribal area of the state. He assured that all possible support & co-operation will be extended by Govt. of Himachal Pradesh to the IMD with regard to allocation of land etc. for setting up of the entire infrastructure in the state.

Dr. Ajit Tyagi, Director General of India Meteorological Department presided over the function. He informed that an integrated project for the Himalayan Region is under active consideration and all existing Meteorological, Hydrological, Environmental & Seismological services will be upgraded.



Chief Guest, Director General and Addl DGs of IMD on the dais

ADGM(Sat.Met.), ADGM(EREC) and Senior officers of IMD, New Delhi also attended the workshop.

JOINT MEETING OF AAI AND IMD OFFICIALS

Shri S.K.Banerjee, ADGM (H) and Shri M. K. Bhatnagar, DAS visited M.C.Patna to attend a meeting on 22nd October 2008 with high officials S/Shri Piyush Joshi, GM (Planning), S.Chadha, Jt. G.M. (ATM-OPS), and Atul Diksit, Airport Director of AAI, regarding site selection for Doppler Radar Building. They discussed various operational requirements of AAI concerned with meteorological services.

HALF YEARLY PLAN REVIEW MEETING

Half yearly performance Review of Plan Schemes of the Ministry of Earth Sciences (2008-09) for the period 1st April 2008 to 30 September 2008 was held in the Mausam Bhawan, H.Q. Lodi Road, New Delhi on 28th November under the Chairmanship of Prof. V.L. Chopra, Member (Science), Planning Commission. The meeting was attended by Dr. Shailesh Nayak, Secretary, MoES, (AVM) Dr. Ajit Tyagi, Director General, IMD and senior officers of MoES, IMD and Planning Commission.



Dr. V.L. Chopra, Member (Science), Planning Commission and Dr. Shailesh Nayak, Secretary, MoES and AVM Dr. Ajit Tyagi, Director General, IMD

PROJECTS REVIEW MEETING

Ms. Vilasini Ramchandran, Additional Secretary and Finance Advisor, MoES visited O/o ADGM(R), Pune on 21st Nov. 2008. She held discussions with the Heads of Offices there regarding finance review and various projects of IMD.

INAUGURATION OF CANTEN AT RMC KOLKATA



AVM (Dr.) Ajit Tyagi, DGM, visited RMC Kolkata on 5th October 2008 where he held a meeting with Shri L.R. Meena, DDGM alongwith other officers and discussed various activities of the office. He inaugurated the renovated canteen building there.

AGROMET ANNUAL REVIEW MEETING AT ANAND (GUJARAT)

India Meteorological Department & Anand Agricultural University, Gujarat and Association of Agrometeorologists, Anand jointly organized the second Annual Review Meeting (ARM) and third National Seminar on Agrometeorological Services for Farmers (NSASF) from 10-13 November 2008. The main objective of the ARM is to review the implementation of the scheme "Integrated Agromet Advisory Services in the Country" in respect of the quality of Agromet Advisory Service (AAS) including the performance of District Level Weather Forecast (DLWF) and working out future course of actions for the improvements of the Advisory System.

The ARM was attended by Shri Dilip Sanghani, Hon'ble Minister of Agriculture, Govt. of Gujarat, Dr. Ajit Tyagi, Director General of Meteorology, Prof. M. C. Varshneya, Vice-Chancellor, Anand Agricultural University and many other eminent scientists.



There were twelve sessions in total including themes on Agrometeorological Services for the Farmers and District Level Weather Forecast. At the end, panel members consisting of AVM Dr Ajit Tyagi, Prof. M. C. Varshneya, Dr. Y. S. Ramakrishna, Prof. P.S.N Sastry, Shri B. V. Ramana Rao, Dr. G.G.S.N. Rao, Dr. P. D. Mistry, Dr. G. B. Pant discussed the future activities of integrated agromet advisory service and prepared the recommendations of the meet. A number of recommendations and action plan were made to create a smart weather service to agriculture in the country.

TECHNICAL ADVISORY GROUP MEETING

A Technical Advisory Group meeting was attended by ADGM (Sat. Com.) and DDGM (Sat. Met.) on 26th December, 2008 at ISRO HQ Bangalore, where in the requirement of multi channel Imager and Hyper spectral sounder was projected by the IMD till 2020 time frame.

PUBLICATION

During this quarter 8 research papers were published in MAUSAM including one foreign contribution with co-authorship from Pakistan & China and four Letters.

Indian Astronomical Ephemeris for the year 2009, a regular annual publication of Positional Astronomy Centre was published in the month of October 2008.

State-wise generalized pluvial maps/atlas (Return period) of southern peninsula for the states of Karnataka, Kerala, Tamilnadu and Andhra Pradesh have been published.

'Solar Radiant Energy Over India' likely to be published in March which will contain 8 chapter

Climatic Diagnostics Bulletin of India for the month of September 2008 and October 2008 were published during the quarter.

FIVE DECADES OF NWP

In India, a beginning was made towards the development of numerical methods for weather predication in the late fifties with a classic paper of Dr. P. K. Das. With this landmark effort, the early and mid-1970s witnessed significant developments in Objective Analysis of meteorological observations – which is a crucial component of Numerical Weather Prediction (NWP). IMD celebrated the 50 years of NWP to highlight the important landmark and brought out a booklet on "Five Decades of NWP in India" edited by AVM (Dr.) Ajit Tyagi and Dr. D. R. Pattanaik.

institutes/universities in India. In addition, the book also contains bibliography on NWP and articles by Individual scientists expressing and highlighting their impressions/views about the development of NWP in India during last five decades.

6th NGSSA COUNCIL MEET

IMD Non-Gazetted Scientific Staff Association had convened its 6th Association Council Meet at Seminar Hall, Mausam Bhawan, New Delhi from 3rd to 6th December, 2008 wherein delegates / Councilors from all Regional Meteorological Centers and its sub-offices had participated to contribute to their valuable suggestions for the welfare of Scientific/Technical employees of the Department.

Dr. Shailesh Nayak, Secretary MoES addressed the council on 6th Dec, 2008. The association discussed with the Secretary, MoES on the following points:

1. Implementation of 'Flexible Complementing Scheme (FCS)' with a suitable process of normalization, rationalization.
2. Implementation of Dr. Shailesh Nayak Committee recommendations.
3. Immediate regularization of all Ad-hoc Scientific Assistants/Assistant Meteorologist Gr-II and clearance of file relating to upgraded scale to AM-II.



ANNUAL FUNCTION OF NGSU

The Annual function of NGSU was organized on 15-16 December 2008. The presence of Shri Ajay Maken, Hon'ble Minister, Govt. of India as Chief Guest alongwith Dr. Shailesh Nayak, Secretary, MoES during Inaugural function on 15th made it an auspicious occasion.

ARCHIVAL OF WEATHER CHARTS IN TO ELECTRONIC FORM

IMD has initiated digitization of 50100 nos. analysed weather charts under plan scheme Archival of Weather Charts into Electronic form.

11th AIRCRAFT MET. DATA RELAY (AMDAR)-XI PANEL MEETING

Shri M.K. Bhatnagar, Director Aviation Services, visited Malaysian Meteorological Department, Petaling Jaya, Selangor, Malaysia from 17th-21st November 2008 to attend workshop on 11th Aircraft Meteorological Data Relay (AMDAR)-XI Panel Meeting.

The following agenda points were discussed during workshop, AMDAR implementation – Report on status of the AMDAR program and on plans for future activities. Report on AMDAR issues discussed during S&T workshop and the 10th meeting of the AMDAR Panel; Status report on national and regional AMDAR program – Established AMDAR program, New emerging and potential AMDAR program and New technologies; Status of AMDAR Trust fund and Future AMDAR Panel work programme; Budget for 2009-10; Review of established rules and procedures etc.

DESIGN STORM STUDY

Design storm study in terms of probable maximum precipitation and its time distribution for twelve hydroelectric / multipurpose projects were completed and communicated to concerned authorities.

A revenue of Rs. 1,02,000/- (Rupees one lakh two thousand only) collected for design storm study of two projects.

FOREIGN TRAINING

One Foreign Trainee of Papua New Guinea is undergoing advanced training in General Meteorology at the Office of Deputy Director General of Meteorology (Training), Pune in Batch No.169

'VIGILANCE AWARENESS WEEK'

'Vigilance Awareness Week' was observed w.e.f. 03rd Nov 2008 to 07th Nov 2008 and a pledge in this respect was taken by all officers and staff of IMD on 03rd Nov 2008.

CAPACITY BUILDING PROGRAMME

Sh. Ravi Kant Singh, Meteorologist -I of EREC delivered a lecture on "Elementary Seismology" at "Capacity building programme for performance based design and retrofitting of buildings against earthquake" for SAARC countries organized by BMTPC, at India Habitat Center, New Delhi on 21st October 2008.

IMD DELEGATION TO CHINA

Five members team headed by AVM Dr. Ajit Tyagi, Director General of Meteorology visited China during 22nd December to 26th December 2008 for familiarization with existing system used in China for providing meteorological services for Beijing Olympic Games-2008 for planning to provide meteorological services for major events of Commonwealth Games-2010 to be held in New Delhi.



DGM was impressed by the Chinese Satellite Data. This data is open for all and IMD personnel/scientists should utilize this facility.

14th SESSION OF WMO REGIONAL ASSOCIATION-II (ASIA)

Dr. Ajit Tyagi, Director General of Meteorology visited Tashkent, Uzbekistan to attend 14th Session of WMO Regional Association-II (Asia) and participated in seminar on Strategic Capacity Development of National Meteorological Services in Asia during the period from 3-8 December 2008.

The agenda points were (i) Report by the President of the Association (ii) Programme activities – Regional Aspects; a. Science and Technology Development and Implementation; b. Service Delivery ; c. Partnership; d. Capacity Building; (iii) Efficient management and good governance; (iv) Emerging issues and specific challenges; (v) WMO regional office for Asia and the South – West Pacific including WMO office for West Asia and (vi) Other administrative topics of RA-II.

Dr. Pulak Guhathakurta, Director O/o ADGM(R), Pune was deputed to Tokyo, Japan from 4th to 7th November, 2008 to participate in the Training Seminar on Climate Information and Forecasting and the 9th Joint Meeting for the Seasonal Prediction of the East Asian Winter Monsoon.

Dr. Anupam Kashyapi, Director O/o DDGM (Agrimet.), Pune was deputed to Oklando Florida, USA from 18th to 21st November, 2008 to participate in the Workshop on Climate Change Impacts and Adaptation to Agriculture, Forestry and Fishries at the National and Regional Levels.

Dr. Surinder Kaur, Director O/o DGM was deputed to Beijing, China from 3rd to 6th November, 2008 to participate in the 4th Conference of the Asia Pacific.

Dr. H. R. Hatwar, ADGM(R), was on deputation to Beijing, China from 20th to 25th Oct. 2008, for attending the 4th WMO IWWRP International Workshop on Monsoon (IWM-IV) and two days training workshop on Operational Monsoon Research and Forecast issues.

Shri S. K. Prasad, DDGM was deputed to Langen, Germany to attend the Training Seminar on the "Management of Meteorological Training Institutions" from 20th - 24th October, 2008.

Shri Kuldeep Srivastav, Meteorologist was deputed to Beijing, China to participate in the Symposium on Strengthening NMHSs External Relations and Field Study from 13th to 17th October, 2008.

S/Shri Mohd. Hussain Mir, SA, V. P. Pradeep Kumar, SA, Alok Singh, SO, Deva Jyoti Gohan, SO and Binay Kumar Prasad, SO were deputed to M/s Modem, France for Technical Training in Operation and Maintenance of GPS System during 13th to 24th October, 2008.

Shri A. Mitra, Met. Gr. II visited Nepal during the period from 15th to 19th December 2008 to attend a Workshop on Application of Satellite Rainfall Estimate in the Hindukush Himalaya Region Phase-II.

Dr. H. R. Hatwar, ADGM(R) attended 9th meeting of Programme Advisory Committee (PAC) on Amospheric Sciences arranged by Department of Science & Technology at University of Assam, Silchar during 28th to 30th November 2008.

S/Shri Awadhesh Kumar, Rahul Saxena, and U. P. Singh, Directors attended a Sub-Workshop on "Communication Skills" from 24th to 26th November, 2008 at Institute of Secretariat Training & Management, New Delhi.

FOG MONITORING FORECASTING AND DISSEMINATION SYSTEM



One day workshop on Fog Monitoring Forecasting and Dissemination System was organized at IGI Airport New Delhi AVM (Dr.) Ajit Tyagi DGM addressed the inaugural session of the workshop. There were 52 participants including 22 from outside organizations. He stressed the need for maintenance of RVR equipments, accurate monitoring and timely dissemination of aeronautical messages. He also emphasized on the efficient coordination needed among various agencies.

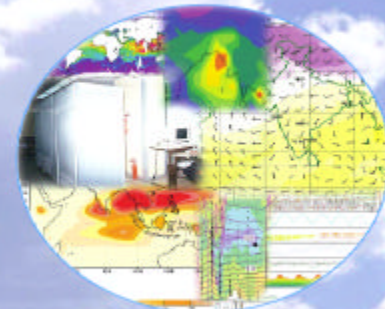
WORKSHOP ON SATELLITE METEOROLOGY

A workshop on Satellite Meteorology was held on 10-11th November 2008 at IMD HQ, New Delhi Scientists from IMD, NCMRWF, IIT, IAF and Indian Navy attended.

WORKSHOP ON SYNERGY FORECASTING SYSTEM AND PUBLIC WEATHER SERVICE

A two day workshop was organized by IMD and M/s Meteo France International, France during 17-18 December, 2008 in IMD as a part of Modernization Plan of IMD. DGM inaugurated the workshop on 17th. The main aim of this workshop was to familiarize the IMD scientists with the tools that are available in the Synergy, Meteofactory and customized design of the Forecasting PWS systems. About 30 participants from IMD and one officer from Indian Navy attended the workshop, interacted with the instructors and provided their inputs/requirements which are needed for routine operational forecasting. A visit to the Door Darshan studio followed by a meeting with the technical team of Door Darshan also formed part of the TV System workshop.

Five Decades of Numerical Weather Prediction (NWP) in India



भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

The book contains contributions from number of operational centers and