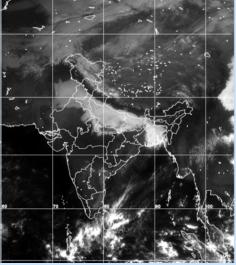
WEATHER HIGHLIGHTS

Volume: 3. No. 1, Jan – Mar 2010

UNUSUAL DENSE FOG AT IGI AIRPORT

During fog season of 2009-2010, while December at IGI had no dense fog, but January had ended with a total of 172 hours of dense fog, Visibility reduced less than 200m, an unusual highest hours for any January since 1960. It disrupted the aviation service at IGI Airport severely causing diversion of around two hundred seventeen flights and cancellation of nearly thousand flights.



Satellite mageries at mornings during 15-20 Jan, 2010 shows unusual and most severe dense fog conditions developed and persisted day by day till late noon from previous mid-night. Fog affected severely every day the Road/Rail/ Air transport service flight affecting operations over most of the locations in this

Vis Kalpana – 1 Imagery (18th Jan 2010)

The strengthening of the real time Fog Services for the fog season of 2009-2010 when unusual dense fog paralyzed under FDP-FOG, a new 24 × 7 "Fog monitoring and forecasting and Dissemination system" was made operational at IGI airport by AMO, Palam for delivering high quality fog services to its users. The system has made available real time fog information especially its formation, intensification and dissipation at IGI Airport with seven digital RVR instruments located at various key locations of various RWYs. Fog Browsers were distributed to passengers at airport terminals by IMD-DIAL for increasing awareness among them.

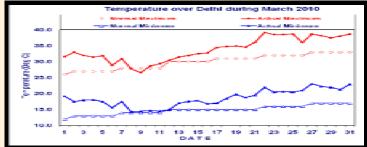
SECOND WARMEST MARCH IN THE RECORDED HISTORY OF DELHI

The month of March 2010 started on a warm note with both maximum and minimum temperatures 5-6°C above their normal values. It was only during the second week when they were near normal. The temperatures started to rise again from the beginning of the third week and became 5-6°C above normal by end of the week and remained so till end of the month. The mean maximum and minimum temperatures for the month were 33.8°C and 18.6°C against their normal values of 30.0°C and 15.4°C respectively. The highest maximum temperature during the month was 39.2°C recorded on 22 March, whereas the all time record for the city is 40.6°C recorded on 11 March 1915.

Since 1901, there have been only 5 years when maximum temperatures in excess of 39.2°C have been recorded during the month of March. The mean maximum temperature of March 2010 (33.8°C) was the second highest only behind 1953 (34.3°C). Similarly, the mean temperature of 26.2°C for March 2010 was second highest behind 26.4°C for March 1953. Thus, the month of March 2010 turned out to be the second warmest March for the city since 1901.

The Subsidence associated with an anomalous anticyclone over the region during the third week led to the increase in temperatures.



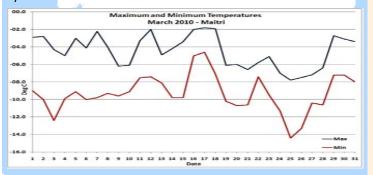


The normal rainfall during the month of March is 14.8 mm. However, during this month, only trace rainfall was recorded on March 2010. There have been 21 more years since 1901 when no rainfall was received in the city.

WEATHER MAITRI - ANTARCTICA

As usual during summer season in month of January & February, no unusual weather occurred at Maitri. In January, the highest day temperature 7.7°C recorded on 23rd January 2010 with month average 1.3°C and lowest recorded temperature -03.9°C on 27th. The highest wind gust 53 kts was recorded on 1st January 2010. The temperature continued to fall during later days. The average temperature of February was -1.7°C with lowest temperature -10.3°C recorded on 22nd February 2010. Average temperature for the month March was -7.0° C with lowest temperature -14.4° C recorded on 25th March.

March is commencement of autumn season which experienced a blizzard on 15th March 2010 reaching wind gust 102 kts followed by snowfall on 16th and 17th.



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IMD NEWS

QUARTERLY NEWSLETTER

INDIA METEOROLOGICAL DEPARTMENT

VOL 3 **NO 1 JAN - MAR 2010**

In this issue	
► IMD Foundation Day	р1
▶ World Meteorological Day	p2
► Eclipses during January	p2
► Inter Ministerial Tournament	рЗ
► Indian Science Congress	p3
► Foreign Visits	p4
► Seminar on DWR	р5
► AMR/ACR/ATR Meetings	р5
SAC-BAC Mooting	

CERTIFICATE OF MERITS

H. R. Development

Weather Highlights

► Lectures



Dr. Y.E.A. Raj receiving Certificate of best RMC, Chennai

On this foundation day an exhibition and a cultural program was organized in IMD. Mementos and Certificate of Merits were also distributed to the veteran weather scientists and young students of various schools for best performance in quiz competition. Dr. N. Sen Roy, Ex DGM was presented a shawl as an honour by the Hon'ble Minister. Dr. Y.E.A. Raj, DDGM, Chennai was honoured with the best RMC award for excellent work. Met. Centre, Bhopal has been selected best Met Centre. On this occasion a documentary film and brochure were brought out.

CELEBRATION OF FOUNDATION DAY



Secretary, MoES addressing the audience In the history of India Meteorological Department, 15th January 1875 is a momentous day, as on this day Mr. H.F. Blanford took charge as the Meteorological Reporter to the Govt. of India. IMD considered 15th January as an opportune moment to highlight its achievements and pathway for future development. During 135 year of its existence, IMD has contributed immensely for the development of Science of Meteorology over the subcontinent. The department has served the cause of safety and well being of Indian population against weather related hazards and to economic development of the country.



Shri Prithviraj Chavan, Hon'ble Minister of Science & Technology and Earth Sciences was Chief Guest of the function. On this occasion Shri Chavan inaugurated the High Power Computing System (HPCS) installed at NHAC, New Delhi.

The system is capable of running high resolution global regional and local numerical weather prediction Models on 24 × 7 basis which will further lead to improved weather & climate services from very short range to long range scale for the country.



AVM Dr. Ajit Tyagi, DGM briefing Media about HPCS

Dr. Shailesh Nayak, Secretary, MoES enumerated the achievements of IMD. He also emphasized that efforts should be made to bring the best brains to

Dr. R. R. Kelkar stressed the need for self assessment and development of indigenous numerical models instead of dependency on foreign models.

AVM (Dr.) Ajit Tyagi, DG, IMD extended his gratitude for seniors of the department and highlighted important landmarks of completion of modernization Phase-1 programme to improve forecasting as well as computational capability.

MEMORABLE HISTORY

1878: Publication of IDWR

1905: Launching of Pilot Balloon Ascent

1954: Radars pressed into aviation weather service

1970: Setup of Dte. of Telecom Division at New Delhi

1982 : An unmanned Data Collection Platform

000: Departmental Web site started

2002: Commissioning of first DWR at Chennai

2008: Need Based District Level Forecast

010: Installation of HPCS at HQ, New Delhi



WORLD METEOROLOGICAL DAY

Each year on 23rd March, the WMO and Meteorological community of all its 189 member states celebrate the day as World Meteorological Day with a chosen theme. The day 23rd March commemorates the convention held on this date in 1950 to create WMO. As a result it came into existence in 1951, as a specialized agency of United Nations System.





DG, IMD Presenting Memento to Prof. S. Kumar

School Children at Ahmedabad observatory

WMO emerged on solid pillar laid by the International Meteorological Organization which was functioning since 1873. WMO took appropriate initiatives on various issues. The most recent concern was on environmental issue as a challenge for the benefit of mankind and society. This year the theme was "60 YEARS OF SERVICE FOR YOUR SAFETY AND WELL-BEING".

Celebration of World Meteorological Day was organized by this department all over India. Prof. Santosh Kumar from National Institute of Disaster Management delivered a lecture at H.Q., New Delhi to mark the theme. A live talk of DGM was broadcast on Doordarshan on the day.

Also, Dr. S. Balachandran, Director gave a talk in Tamil at AIR Chennai. The IMD offices throughout the country were kept open to the General Public. The school children visited the various offices of IMD and they were briefed about divisional activities. An exhibition on the activities of IMD, balloons and banners of WM Day 2010 were displayed for visitors.

REPUBLIC DAY



The Republic Day of India is celebrated to mark the adoption of the Constitution of India and the transition of India from a British Dominion to a republic on January 26, 1950. AVM (Dr.) Ajit Tyagi, Director General of Meteorology hoisted the flag in the office premises on this 61st Republic Day of India. The Republic Day Celebrations were also held in all MCs & MOs, where the concerned officers unfurled the National

MARTYRS DAY

The 30th Jan is observed as Martyr's Day, to honour all those who gave up their lives in service of the Nation. The date was chosen as it marks the martyrdom of the Father of Nation. Mahatma Gandhi in 1948. A twominute silence in memory of the Father of the Nation and other martyrs was observed

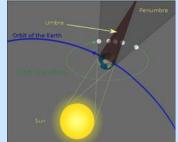
NATIONAL SCIENCE DAY



Dr. H. R. Hatwar, ADGM (R) inaugurating **National Science Day**

The day is celebrated to honour Nobel laureate Sir C.V. Raman for his invention of the 'Raman effect' on 28th February 1928. IMD celebrated National Science Day. There was an overwhelming response from public. The day attracts many young minds and creates awareness about Meteorology. The celebrations of this day include showcasing IMD competence in the field of Meteorology.





General Annular Solar Eclipse



Annular solar eclipse observation on 15 January, 2010 at PAC Kolkata

The month January 2010 witnessed three eclipses - 1st January, 15th January and 26th January.

The Partial Eclipse of Moon on 1st Jan occurred in the early hours. In this eclipse, only a very small part of the Moon was under the Earth's umbral shadow. The eclipse was visible throughout India.

The annular solar eclipse on January 15, 2010, was the longest solar eclipse since 1992 which lasted for about 11 minutes and eight seconds. This eclipse was visible from across central Africa, the Indian Ocean and

The path of annularity passed through southern tip of India. The eclipse was seen as partial Solar Eclipse from rest of the country. Observation of the partial phase of the eclipse was carried out from the roof top of the building of Positional Astronomy Centre at Salt Lake, Kolkata.

A talk in Tamil by Kum. B. Amudha, Met. Gr.-I, RMC Chennai on the celestial event "Annular Solar Eclipse on 15 January 2010", was telecast on 13 January 2010 at 0830 hrs (IST) on AIR Chennai 'A' channel.

Volume: 3, No. 1, Jan - Mar 2010

INTEGRATED LONG TERM PROGRAMME (ILTP)



From (L to R) Prof. Nikolaev, Shri G. Suresh and Dr. Belyakov at Seismological Observatory, Ridge

A team of Russian Scientists Prof. Alexi Nikolaev and Dr. Belyakov, Institute of Physics of Earth (IPE), Russian Academy of Sciences (RAS), Moscow, visited IMD, New Delhi during 2-12 March 2010 under the project titled "High resolution monitoring of Geodynamic processes using borehole seismic investigations (Project code: B-2.49)" as part of Integrated Long Term Programme of DST. The team has carried out joint analysis of the recorded data and its interpretation for preparation of the final report on the project. Prof. Nikolaev, Shri G. Suresh and Dr. Belyakov prepared report at Seismological Observatory, Ridge, Delhi. A tri-axial seismic magneto-elastic acoustic sensor was installed there.

SEMINAR ON MET. INSTRUMENT

A seminar on Meteorological Instrument and AWS was jointly organized by IMD, DCP, Pashan. AVM (Dr.) Ajit Tyagi, DGM inaugurated the seminar on 26th February. Dr. H. R. Hatwar, ADGM(R), Dr. R. D. Vasistha, DDGM(SI) participated in the seminar.

ACHIEVEMENTS

Dr. R. Suresh, Scientist E, AMO Chennai conducted practical exams as external Venkateswara University, Tirupathi during 28th - 29th January 2010.

been given an award for writing best scientific articles in Tamil by the Tamil Magazine "Arivial".

Shri Anand Kumar Sharma, Director, A TRANNING COURSE for Linux Operating Meteorological Centre, Dehradun organisation" at LBSHAA on 4th Feb 2010.

H. R. DEVELOPMENT TRAINING COURSE ON AGROMET.

AVM (Dr.) Ajit Tyagi, DGM, inaugurated the short term (3 weeks) Training Course on Agrometeorology towards better advisories for serving end user requirement to AMFU scientists conducted by Agrimet. Division, Pune on 18th January 2010. 22 scientists have attended this course. The DGM also Shri Anand Kumar Sharma, Director-Indiscussions with senior officers.

FOREIGN TRAINEES



Mr. K.H.M.S. Premalal & DG, IMD

Two officials, viz., Mr. K.H.M.S. Premalal (Sri Lanka) and Mr. Kyaw Lwin, (Myanmar) were sponsored by WMO/ESCAP panel for cyclone forecaster's attachment training with RSMC, New Delhi during 1-12 February, 2010. They were provided a certificate on successful completion of the training.

TRAINING FOR OBSERVERS

Pune and Bureau of Indian Standards at An orientation programme of training of 10 Observers of Part Time Observatory of Tamil Nadu was held at RMC Chennai during the period 8-12 March 2010. The observers were issued certificate by RMC Chennai.

TRAINING ON FILE MANAGEMENT

Two days training on purchasing and file management was organized jointly by MoES examiner for M.Tech course (ST&A) at Sri and RMC, New Delhi at B. R. Ambedkar Institute of Hotel Management catering and nutrition, Chandigarh on 5th and 6th February Shri K. V. Balasubramanian, A.M.-II has 2010. Shri H. L. Syal, Assistant Meteorologist and Shri Rajiv Kumar, Scientific Assistant from M.C. Chandigarh attended the training.

System was conducted during 1-11 Feb at participated as a panelist for panel NDC by MFI in association with Focus discussion on "Leadership in Government Training Services, Pune as a part of Clisys implementation.

LECTURES

LECTURES / SEMINAR

Dr. Medha Khole, Director participated in the two days workshop on 7 & 8 January 2010 at University of Mumbai, Kalina, Campus on the topic 'Natural Disasters: Cyclones, Monsoon Floods – Outreach Programme and delivered a talk on "Indian Summer Monsoon General Features".

visited office of ADGM(R) and held charge, Meteorological Centre, Dehra Dun delivered lectures on UNFCCC at Forest Research Institute, Dehradun during 11th to 14th January 2010.

> Shri B. Puttanna, Director delivered a lecture on "Effect of climate vagaries on Agriculture" in the Farmers Awareness Program jointly organized by IMD and University of Agricultural Sciences, GKVK, Bangalore on 30th January.

> Dr. Ajeet P. Pandey, Met-I participated in the workshop on "Application of satellite geodetic techniques in scientific studies in India" held at Survey of India, Hyderabad during 3-4 Feb 2010. Dr. Pandey made oral presentations on two topics.

> Dr. Y. E. A. Raj, DDGM, RMC Chennai gave

an invited talk on "Urban Risks in Chennai with reference to Local Climate" on 18 Feb 2010 in an International workshop on "Local Climate and Disaster Resilience in Chennai" organized by University of Madras, Chennai. Shri Surender Paul, Director M.C. Chandigarh delivered talk on Role of IMD for "Farming Community of Haryana" in a seminar organized by Department of Agricultural Meteorology, HAU Hisar on 19th February 2010.

LECTURE BY A VISITING PROFESSOR



Prof. Timothy Del Sole delivering lectures

Prof. Timothy Del Sole, Associate Professor of Climate Dynamics, Harvard University COLA, USA was on a visit to IMD. The visiting professor delivered series of lectures in IMD on 'Statistical methods of Long **Range Forecast'** during 1st - 3rd February. The scientists from IMD, NCMRWF and Air Force attended the lectures.

SAC – PAC MEETING

The 21st Meeting of Standing Advisory Committee (SAC) was held on 15th March 2010 in the office of Positional Astronomy Centre (PAC), Kolkata. This meeting was presided by Dr. G.M. Ballabh, Professor, Osmania University, Hyderabad. AVM (Dr.) Ajit Tyagi, DGM was present in the meeting. The meeting was also attended by Shri A. K. Bhatnagar, ADGM (EREC), Shri B. Mukhopadhyay, DDGM (DM),



DG. IMD and SAC members

Shri U. P. Singh, Director, Publication and other members of the Standing Advisory Committee. Shri S. Sen. Director, PAC acted as member secretary.

Shri A.K. Bhatnagar, ADGM welcomed the Chairman & other members of SAC. He expressed his gratitude towards SAC members for their continuous support for progress of the centre and framing its future plan. Chairman was satisfied on the action taken by H.Q's New Delhi. The Committee made several recommendations for future progress of the Centre.

VARSAMANA PROJECT REVIEW MEETING



Steering Committee Meeting for Varsamana Project

Review Meeting was held on 12th March 2010. Secretary, MoES, AVM (Dr.) Ajit Tyagi, DG, IMD and other Scientists from MoES, ADGM(R), Pune, IMD H.Q's attended the meeting and discussed about the project.

USER'S MEET AT CWC, VISHAKHAPATNAM

A user's meet was conducted at Cyclone Warning Centre, Vishakhapatnam on 22nd February, 2010 in two sessions followed by feedback. The purpose was to familiarize and understand various problems of users in respect of services rendered by the centre. After Jyoti Prajwalan, Dr. Y. E. A. Raj, DDGM explained briefly about IMD and importance of its forecast.



Prof B. Satyanarayana, Vice Chancellor facilitated by AVM (Dr.) Ajit Tyagi, DGM

AVM (Dr.) Ajit Tyagi made the presidential speech and highlighted the developments in the department. He emphasized the need for collaborative studies between IMD and Andhra University. Prof. Bela Satyanarayana, Vice Chancellor congratulated DG, IMD for taking such step to come closer to users. A Media briefing was organized before a number of print and visual media.

A COMMITTEE ON POLAR SCIENCE

The first meeting of the committee to organize a workshop on Polar Science was held on 12th March 2010 under chairmanship Shri T. V. P. Bhasakar Rao, Advisor MoES & Scientist 'G' at IMD H.Q's which was attended by seven senior officers of IMD. The Committee decided to hold a brainstorm session on polar science on chosen themes. The speakers may be invited from the institutes which have a long association with Antarctica programme.



SPORTS MEET AT PUNE

M. B. More memorial tournament was held from 22nd to 26th March 2010 in Pune. Six teams of IMD consisting of about 96 players from different corners of India participated in this Tournament.

The Opening ceremony was held on 22nd March. Dr. H. R. Hatwar, ADGM(R) and all other Head of the offices of IMD Pune were also present on this occasion. The Ammunition Factory, Kirkee, Pune was declared Winner whereas IMD Pune was runners up during the Tournament.



COMMISSIONING OF OPTICAL THEODOLITES'

The Commissioning of 70 numbers of Optical Theodolites for up-gradation of pilot balloon network of IMD, was started in April 2007 as a project. New optical theodolites have been dispatched / installed at all the 62 PB stations in the PB network of IMD.

The project has been completed. The performance of the new optical Theodolites is being monitored.

PUBLICATIONS



Release of Technical report

A technical report on 'Cyclonic Disturbances over north Indian Ocean during 2009' was prepared by Cyclone Warning Division, IMD New Delhi and released by Hon'ble Minister of Earth Sciences on the foundation day of IMD on 15 January, 2010.

A Met. Monograph was prepared on 'Super Cyclone - GONU' by Cyclone Warning Division, IMD New Delhi and released by DGM, IMD in ACR meeting on 22nd January, 2010 at Thiruvananthapuram.

Rashtriya Panchang in Hindi, Bengali, Oriya, Telugu, Kannada, Punjabi, Tamil, Assamese and Urdu for 2010-11 AD (1932 Sake Era) have been published during the quarter, January to March, 2010.

Monsoon 2009 – A Report" was brought out as an IMD Met. Monograph "Synoptic Meteorology No. 9/2010".

Climate Diagnostics Bulletins of India for December 2009 and Post Monsoon (October-December) 2009 were brought out.

Crop Yield Forecast for Rabi wheat was prepared for 16 meteorological sub-divisions for February 2010 and issued at H.Q., New Delhi.

Monthly Aridity anomaly indices for January 2010 were compiled.

'Climatology and extremes for various districts of Gujarat' prepared by M.C. Ahmedabad.

MAUSAM Vol. 61, No.1, Jan 2010 containing 9 research papers, 4 shorter contribution and Winter Season 2009 Summary was published during the quarter.

PARTICIPATION IN EXHIBITIONS

IMD participated in Northern India International Trade Fair (NIITF 10) from 19th to 26th January 2010 at Kanpur (U.P.) "Science & Rural Technology Expo-2010" 1st Destination Rajasthan 2010 from 12th to 14th February & in "Oceantex, Ener Tech, Shipping Marine & Ports World Expo 2010" from 3rd to 6th March 2010 at Goregaon, Mumbai. Shri J.P.S. Bhullar, A.M.II was deputed at these exhibitions.



IMD Exhibition at IITF 2010

INTER DEPARTMENTAL CO-OPERATION

In connection with establishment of Met. Observatory in High Schools under PROBE-Orissa sponsored by DST, Govt. of India, New Delhi, five days training in batches were arranged by OSCARD, Bhubaneswar. M. C. Bhubaneswar actively participated in this training programme for about 400 teachers. Lectures including practical were delivered by officers.

INTER MINISTERIAL BRIDGE TOURNAMENT

IMD Bridge Team won the winners trophy of team championship and also won the winners/runners trophy of pair event in Inter-Ministry Bridge Tournament 2009-10 conducted by Central Civil Services Cultural and Sports Board during 13-14 March 2010.



DG, IMD and Bridge Team with Trophy

INTER MINISTERIAL CULTURAL COMPETITION



DG, IMD and Cultural Team Members

Five Members IMD Team lead by Team Manager, Smt. Jiga Kaul participated in inter ministry music, dance & short play competition 2009-10 held from 22-25 February at Mavlankar Auditorium, New Delhi conducted by Central Civil Services Cultural and Sports Board. The IMD team stood up runner.

INDIAN SCIENCE CONGRESS



Hon'ble Minister, Shri Prithviraj Chavan, Secretary, MoES and former Chairman of ISRO

The 97th Indian Science Congress (ISC) 2010 Science Exhibition was held at University of Karyavattom Thiruvananthapuram from January 3-7, 2010. Under the guidance of Shri K. Santhosh. Director. Met. Centre. Thiruvananthapuram made arrangements for the display of exhibits from India Meteorological Department in the pavilion of Ministry of Earth Sciences, which was inaugurated by Hon'ble Minister Shri Prithviraj Chavan. The visitors were explained in details about the exhibition. Shri Bhullar, A.M.-II participated from HQrs. New Delhi. About 2,00,000 people visited the pavilion during the five days and MoES was one of the major exhibitors.

DISTINGUISHED VISITORS

Prof. Mike Wallace and Prof. Jagadish Shuka from USA visited IMD, HQ's 17th February. Prof. Jagadish Shukla, George Mason University (GMU) President, Institute of Global Environment and Society (IGES) gave a talk on Global Warming: An Overview Climate Change over India. Prof Wallace, delivered a lecture on Climate change science, it is the hub of environmental science, or is it just a part of it? followed by discussions. They also visited IMD, Pune office on 25th February.





FOREIGN VISITS

Dr. Soma Sen Roy, Met.-I and Dr. S. D.

Kotal, Met.-I were deputed for training in

Now-casting system and regional Unified

Model of UKMO for 4 weeks period from

Shri S. Venkateswarlu, Director, CWC

Visakhapatnam and Shri Y. K. Reddy,

Director, MC Hyderabad were on tour to

China for the Factory Acceptance Test (FAT)

of 6 numbers of Beijing Metstar Radars

(SWFDP) (Vietnam) from 2nd to 5th

February, 2010 and the WMO workshop on

Severe Weather Development for

Southeast Asia at Hanoi.

from 05 January to 24 January 2010.

4-31 January.



Korean delegation at Conference Hall

DELEGATION TEAM FROM KOREA

A two member delegation consisting of Dr. Yun Won-Tae, Director, and Mr. Kim Seong-Heon, Dy. Director, International Cooperation, Korea Meteorological Administration visited IMD, New Delhi on 17th March 2010. DGM welcomed them in conference hall followed by meeting with senior officers and a presentation. The senior officers from HQ's were also present during the meeting. The delegates were apprised of present status and functioning of RTH, NWP, Satellite Division and Seismology Division.

Dr. Shaik H. Hakeem Scientist from RSMC, Darwin, Australia visited IMD Pune on 8th January and delivered a scientific talk on the topic, "Tropical Climate Monitoring Activities at RSMC, Darwin, Australia". The officers of Pune office attended the lecture.

FOREIGN VISITS (Continued)

No. 1,

Dr. A. L. Koppar, DDGM(C) was on deputation to Antalya, Turkey during 14th to 26th February 2010 for attending 'Technical Conference on Changing Climate & Demands for Climate Services for Sustainable Development' and XV Session of the Commission for Climatology of WMO.

Shri B. K. Bandyopadhyay, DDGM (Services) attended the 37th Session of WMO/ESCAP panel meeting on Tropical Cyclone held at Phukat, Thailand from 15th to 19th February, 2010.

Shri L. R. Meena, DDGM(ISSD) was deputed to Seoul (Korea), to participate in Inter Commission coordination group on WMO information system during the period 22-26 February.

Dr. V. Rajeswara Rao, Director and Shri D. K. Malik, Director were deputed to Australia during 24-28 March 2010 for Factory Acceptance Test of Ground Receiving and processing system to be installed at New Delhi. Chennai and Guwahati to receive data from NOAA, METOP and MODIS Satellites.

WMO EXECUTIVE COUNCIL MEET

Dr. Ajit Tyagi, DGM, was on tour to Geneva, Switzerland to attend the third session of WMO Executive Council working Group on Strategic and operation planning implementation to be held at WMO, H.Q., during the period 29-31 March 2010. The Executive Council working Group reviewed actions taken from the last meeting of the EC WG/SOP held in March 2009 and discussed WMO Strategic Plan and Operating Plan 2012 – 2015 followed by discussions on :

- The Sixty-third Session of the WMO Bureau (BUR-LXIII)
- WMO Interaction with the Private Sector

Shri M. K. Bhatnagar, Scientist "E" &

Hong Kong

- Secretariat implementation plan and budget
- Statement on the role and operation of NMHSS

WMO COMMISSION FOR AERONAUTICAL METEOROLOGY

Dr. A. K. Singh, Met-I deputed to Bhutan to Director Aviation Services attended the 14th session of WMO Commission attend planning meeting for installation of for Aeronautical Meteorology (CAeM) AWS and GPS Sonde during 23-24 January. held in Hong Kong, China from 3rd to **Dr. M. Mohapatra**, Director attended 7th February 2010. During this period Forecasting Demonstration Project he visited the Hong Kong Observatory

contd...



Shri M.K.Bhatnagar with Mr. C.M.Chun, President of CAeM at Tai Lam Chung, Hong Kong

Meteorological Office also.

Airport

No. 1, Jan – Mar 2010

Volume: 3,

WORSHOP ON FLOOD METEOROLOGY



Officers from Hydromet Division and FMO with DG, IMD

A Workshop on Flood Meteorology was held during 22nd – 23rd March 2010 at New Delhi. The Director In-charge of FMOs and scientists from H.Q. Hydrology unit attended the workshop and presented various work done by them to mitigate flood damages. AVM (Dr.) Ajit Tyagi Director General of Meteorology gave concluding remarks at the end of the session.

TRAINING-CUM-WORKSHOP ON **DOPPLER WEATHER RADAR**

A training-cum-workshop on Doppler Weather Radars was held during 15-17 March, 2010 at RMC, Chennai, in which officers and staff of IMD including IAF, Tambaram, INS Rajali and Indian Institute of Science, Bangalore participated during the workshop.

अट्ठारहवी राष्ट्रीय वैज्ञानिक हिन्दी संगोष्ठी



डॉ वसुधा गुप्ता, निदेशक, पृ. वि. मंत्रालय से प्रमाण पत्र लेते हए डॉ. जी. डी. मिश्रा

पृथ्वी विज्ञान मंत्रालय द्वारा 'समाज पर जलवाय् परिवर्तन के प्रभाव' पर संगोष्ठी इंडिया हैबीटेट सेंटर, लोदी रोड, नई दिल्ली में दिनांक 8 फरवरी 2010 को आयोजित की गई। इस हिन्दी संगोष्ठी भोपाल में कार्यरत डॉ जी. डी. मिश्रा, वैज्ञानिक सहायक को द्वितीय पुरस्कार मिला। भारत मौसम विज्ञान विभाग, नई दिल्ली के अन्य अधिकारियों एवं कर्मचारियों ने भी इस संगोष्ठी में भाग लिया।

NATIONAL SEMINAR ON DOPPLER RADAR AND WEATHER SURVEILLANCE

RMC Chennai organized National seminar on 18-19 March 2010 at National Institute of Ocean Technology, Pallikaranal, Chennai to explore the potential of Doppler Weather Radars and analyse the still unexplored areas of Doppler Weather Radar application. Dr. Shailesh Nayak, Secretary, MoES, was the Chief Guest. Dr. M.A. Atmanand, Director, NIOT, Chennai was the Guest of Honour. AVM (Dr.) Ajit Tyagi, DG, IMD, presided over the function.



ease of booklet by Secretary, MoES

The Book of Abstracts 'DRaWS - 2010' and the Booklet on 'History of Radar Meteorology in India' compiled by Shri. S.Raghavan, DDGM (retd.) IMD was released on the occasion.



Press meet during DRaWS 2010

During the two-day seminar, 14 Invited Talks by eminent experts in the field of radars were delivered. Fourteen organizations including IMD had nominated their scientists for participation and presentation of papers in the seminar including media persons.

INTEGRATED HIMALAYAN PROGRAMME

First Science Committee Meeting on Integrated Himalayan Programme under the में भारत मौसम विज्ञान विभाग के चार कार्मिकों ने Chairmanship of DGM held at Conference व्याख्यान दिए। इस संगोष्ठी में मौसम केन्द्र, Hall, New Delhi on 19th January. About 17 officials from different organizations attended this meeting. Shri B.P. Yadav, Director made a presentation about the concept paper and approach of IMD for the implementation.

PUBLIC WEATHER SERVICES FOR KERALA & LAKSHADWEEP

WORKSHOPS



Address by AVM (Dr.) Ajit Tyagi, DGM on User's meet on 20th January 2010

Users' conference Meet on "Public Weather Services for Kerala & Lakshadweep" was held on 20 January 2010 at Meteorological Centre, Thiruvananthapuram. AVM(Dr.) Ajit Tyagi, DGM presided over the meetings. The conference was attended by 46 delegates from 22 User agencies and media. 25 delegates from IMD attended the meet. Dr. D. Alexander, Director of Research, Kerala Agricultural University, Thrissur was the Chief Guest. There were 3 presentations from the Officers of MC Thiruvananthapuram and presentations from User Agencies.

AMR/ACR/ATR MEETINGS

The annual monsoon/cyclone/technical review meeting 2010 was held during 21-22nd January and was organized at M.C. Thiruvananthapuram. About 35 delegates attended ATR meeting on 21st. AVM (Dr.) Ajit Tyagi, DGM presided over the meeting & mentioned importance of holding such types of meeting which involves sub offices in process of revamping our activities to receive the best result.



ACR/AMR meetings. Met. Monograph on Monsoon-2009 was released by the Director General, IMD during AMR meeting. Dr. H.R. Hatwar, ADGM(R) spoke about salient feature of Monsoon 2009 and also emphasized on study of Atlantic anomalies over SW monsoon rainfall.