Annual Awards - 2013
27th July 2013
Annual Awards - 2013

Government of India
Ministry of Earth Sciences
Earth System Science Organisation
Prithvi Bhawan, Lodhi Road,
New Delhi - 110 003

July, 2013
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3.5 National Award for Polar Science & Cryosphere
Dr. Rasik Ravindra

3.6 Young Researcher/Achiever Award
Dr. Nilanjan Saha

3.7 Certificate of Merit for Scientists/Engineers in Ocean Science & Technology
Shri M. Nagaraja Kumar
Shri Tata Sudhakar
Shri Aruna Kumar Avula
Dr. Sivaji Patra
Dr. K. P. Krishnan
Dr. Sherine Sonia Cubelio

3.8 Certificate of Merit for Scientists/Engineers in Atmospheric Science & Technology
Dr. Thara Prabhakaran
Dr. Saji Mohandas
Shri Rahul Saxena
Shri Virendra Singh
Shri Gajendra Kumar

3.9 Best Employees Awards

3.9.1 Group B (Gazetted & Non-Gazetted) Employees:
Shri Lalmohan Jyoti
Shri Santanu Choudhury
Shri Ashish Dhakate
Shri Dixit Prakash Waman
Ms. Ajithakumari M.N.
Shri Syed Mahaboob Moinudeen
Ms. P. Santhi
Ms. Sarita Honavarkar
Smt. J. Mary Leema Thilakam
Smt. K. R. Anuradha
Shri Pradip Kumar Sen

3.9.2 Group C Employees
Shri J. K. Dudhane
Ms. Ashwini P. Bhujbal
Shri B. Kishore Kumar
Shri Kennedy C. Sequeira
Shri Chithiravel Jothi
Ms. S. Vasanthi
Shri Santosh Prasad
Shri Bhagwan Singh
Ms. Neha Sharma
Shri Sureendra Singh Rawat

3.9.3 Multi Tasking Staff
Shri Avik Dey,
Shri Sunil V. Raut
Shri K. K. Divakaran
Shri Kishor Jadhav
Shri M. Vinodh Kumar
Shri Nanak Chand
Shri Jagpal Singh
Shri Rakam Singh

4. Earth Day Celebrations 2013 - Winners of Drawing Competition (School Children)

5. Previous Awardees
About the Ministry of Earth Sciences

The Department of Ocean Development (DOD) was created in July 1981 as a part of the Cabinet Secretariat directly under the charge of the Prime Minister and came into existence as a separate Department in March 1982. The erstwhile DoD functioned as a nodal Ministry for organizing, coordinating and promoting ocean development activities in the country. In February, 2006, the Government notified the Department as the Ministry of Ocean Development (MoOD).

The Government of India further reorganized the Ministry of Ocean Development and the new Ministry of Earth Sciences (MoES) came into being vide Presidential Notification dated the 12th July, 2006 bringing under its administrative control India Meteorological Department (IMD), Indian Institute of Tropical Meteorology (IITM) and National Centre for Medium Range Weather Forecasting (NCMRWF). The Government also approved the setting up of Earth Commission on the pattern of Space Commission and Atomic Energy Commission.

The Earth System Science Organization (ESSO) operates as an executive arm to implement policies and programs of the Ministry of Earth Sciences (MoES). It deals with four branches of Earth Sciences, viz. i) Ocean Science and Technology ii) Atmospheric and Climate Science iii) Geoscience and iv) Polar Science and Cryosphere. The ESSO has been addressing holistically various aspects relating to earth processes for understanding the variability of earth system and for improving forecast of the weather, climate and hazards. The ESSO was established in October, 2007 as a virtual organization, subsequent to the setting up of the MoES, which was formed in 2006 by bringing all the agencies of meteorological and ocean development activities under one umbrella, recognizing the importance of strong coupling among various components of the earth, viz. atmosphere, ocean, cryo-sphere and geo-sphere.

The ESSO primarily aimed to develop and improve capability to forecast, weather, climate and hazard related phenomena for societal, economic and environmental benefits including addressing aspects relating to polar and climate change science and services. The ESSO is also responsible for development of technology towards the exploration and exploitation of marine resources in a sustainable way.

The following is the administrative set up of the Ministry of Earth Sciences.

Headquarters
Government of India
Ministry of Earth Sciences
Prithvi Bhavan,
Lodi Road, New Delhi 110003.
(Website : www.moes.gov.in)
Attached Office
Centre for Marine Living Resources and Ecology,
6th Floor, Block-C, Kendriya Bhawan,
P.O. Kochi Special Economic Zone,
KOCHI - 2682037
(Website : www.cmlre.gov.in)

Autonomous Bodies
National Institute of Ocean Technology,
Vellacherry-Thambaram Road,
Pallikaranai Village,
Chennai - 600 100.
(Website : www.niof.res.in)

National Centre for Antarctic & Ocean Research,
Headland Sada, Vasco da Gama, Goa 403 804
(Website : www.ncaor.gov.in)

Indian National Centre for Ocean Information Service
Ocean Valley
Pragathi Nagar (BO), Nizampet - PO
Hyderabad 500055
(Website : www.incois.gov.in)

Indian Institute of Tropical Meteorology,
Homi Bhabha Road, Pashan, Pune 411 008.
(Website : www.tropmet.res.in)

Project Offices
Project Directorate,
Integrated Coastal Marine Area Management,
NIOT Campus, Vellacherry-Thambaram Road,
Pallikaranai Village,
Chennai 600 100.
(Website : www.icmam.gov.in)

Subordinate Office
India Meteorological Department,
Mausam Bhawan, Lodi Road,
New Delhi 110003.
(www.imd.gov.in)

National Centre for Medium Range Weather Forecasting,
A-50, Industrial Area, Phase II,
Sector-62, Noida (UP) Pin : 201307
(Website : www.ncmrwf.gov.in)
About the Awards

The Earth System Science Organisation has instituted the following Awards from 2013 onwards:

<table>
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<tr>
<th>S.No.</th>
<th>Name of Award</th>
<th>No. of Awards</th>
<th>Award Amount</th>
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<tr>
<td>1.</td>
<td>Life Time Excellence Award in the sphere of Earth System Science</td>
<td>01</td>
<td>₹. 5,00,000/-</td>
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<tr>
<td>2.</td>
<td>National Awards in the field of</td>
<td>01 each</td>
<td>₹. 1,00,000/- each</td>
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<td>• Ocean Science &amp; Technology</td>
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<td>3.</td>
<td>Young Researcher/Achiever Award in the field of Earth System Science</td>
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<td>₹. 50,000/- each</td>
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These awards are open to all residents of India. An individual is eligible for these awards only once during his/her lifetime. The nominations for these awards are normally recommended by the Heads of Universities, National Institutes and Scientific Departments of the Government of India. The selection for these awards are made by a High Level Committee of Distinguished Scientists and given on the occasion of Foundation Day Celebrations i.e. 27th July every year.

Certificate of Merit for Scientists/Engineers in (i) Ocean Science & Technology and (ii) Atmospheric Science & Technology;

These awards are open for Scientists working in Autonomous organizations and attached/project/subordinate offices under the administrative control of this Ministry. These awards are given in recognition of their scientific contribution towards achieving the tasks/goals assigned to these organizations. An individual is eligible for this award only once during his/her lifetime.

From 2013 onwards, it has been decided to increase the cash prize from ₹. 30,000/- to ₹. 50,000/- each in addition to trophy and citation.
Award for Best Employees

Erstwhile Ministry of Ocean Development introduced this award in the year 2006 to be given to the best employee one each in Group B (Gazetted as well as non Gazetted), Group C and Multi Tasking Staff (MTS) employees of the Ministry and its attached/project offices. The award carries with a citation and a cash prize to each category of employees as under:

- Group B Employee: ₹ 10,000/-
- Group C Employee: ₹ 7,500/-
- Multi Tasking Staff: ₹ 5,000/-

With the setting up of new Ministry and keeping in view the fact that there is a tremendous increase in the number of employees as the Indian Meteorological Department and National Centre for Medium Range Weather Forecasting have come under its purview it was decided that from the year 2007 the number of awards in each category should be increased keeping the performance of employees every year.

From 2013 onwards, it has been decided to increase the cash prize as under:

- Group B Employee: ₹ 15,000/-
- Group C Employee: ₹ 10,000/-
- Multi Tasking Staff: ₹ 7,500/-
Life Time Excellence Award
Prof. Roddam Narasimha

Prof. Roddam Narasimha was born in Karnataka on 20th July 1933. He is presently a DST Year-of-Science Professor at the Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore.

Prof Narasimha, popularly known as RN, obtained his Bachelors in Engineering from Mysore University in 1953, and Master’s degrees in Aeronautical Engineering in 1955 and 1957 from the Indian Institute of Science, Bangalore where he closely worked with Prof Satish Dhawan. He obtained his PhD from the California Institute of Technology (Caltech), USA in 1961. From 1962 to 1999 he held various positions at the Indian Institute of Science (IISc), including as Chairman of the Department of Aerospace Engineering. In 1982, he founded the Centre for Atmospheric Sciences (now the Centre for Atmospheric and Oceanic Sciences, CAOS) at IISc, and was its Chairman till 1989. He was Director of the National Aerospace Laboratories (NAL) (1984-93), and of the National Institute of Advanced Studies (NIAS), Bangalore (1997-2004). He was also Millikan Professor and Fairchild Distinguished Scholar at various times at Caltech, Jawaharlal Nehru Professor at Cambridge and ISRO K R Ramanathan Professor at Jawaharlal Nehru Centre for Advanced Scientific Research (1995-2000).

Fluid mechanics has been a steady intellectual pursuit of Prof Narasimha, a subject to which he has contributed in various ways. Prof Narasimha’s research has dealt with aerospace fluid dynamics and various flow problems in atmospheric dynamics. He has made extensive studies of transitions between laminar and turbulent flow (going in either direction), the structure of shock waves, various characteristics of fully developed turbulent flow (e.g. their memory, the bursting phenomenon in boundary layers), the fluid dynamics of clouds, near-surface temperature distributions and eddy fluxes in atmospheric boundary layers, and the nonlinear vibration of elastic strings. He has been closely associated with aerospace technology development in India at both technical and policy-making levels. He taught Fluid Dynamics and Turbulent Flows (among several other subjects) at IISc, and has mentored more than 200 students. He is the author of more than 200 research publications (with more than 75 co-authors) and editor or co-editor of 15 books.

His contributions in atmospheric science research have been very significant. These include the development of standard atmospheres for the tropics and extra-tropics, atmospheric boundary layer studies including a novel scaling law for estimating eddy fluxes in tropical convective conditions, the influence
of solar activity on Indian rainfall, and a theory of the inversion layer near ground (which he named the Ramdas Layer after the pioneering Indian agrometeorologist, Dr L. Ramdas). His most recent work involving laboratory and computational simulations of cloud-like flows has provided new insights into the dynamics of cumulus clouds. For the Indo-French atmospheric research satellite *Megha-Tropiques*, launched in 2011, he has been co-chair of the Joint Scientific Working Group.

He has been an outstanding teacher, a world-class researcher, a dynamic leader, and a person who has dispensed advice and wisdom to the highest national bodies. As a member of the Prime Minister’s Scientific Advisory Council, he was instrumental in establishing a major parallel computing initiative in the country. At NAL, he inspired and guided a national programme on an atmospheric general circulation model (now called Varsha), coded entirely in the country and incorporating certain improvements, and running on an indigenously developed parallel computer (NAL Flosolver). He has served on the Scientific Advisory Committee to the Prime Minister / Cabinet, the Space Commission, the Earth Commission, and in various capacities on the International Union of Theoretical and Applied Mechanics. As Director of NAL he initiated and oversaw several major technological programmes. He served on the Board of Directors of Hindustan Aeronautics Limited (HAL) for several years. As President of the Indian Academy of Sciences, Bangalore (1992-94), he spearheaded a new programme on university education in science leading to the establishment of the science journal *Resonance*. At NIAS, he initiated a series of major dialogues on international security issues with the US National Academy of Sciences.

Prof Narasimha was conferred the SS Bhatnagar Prize (1985), the Padma Bhushan (1987), the Fluid Dynamics Award of the American Institute of Aeronautics and Astronautics (2000), and the Trieste Science Prize (2008). He is a Distinguished Alumnus of both Caltech and IISc. He has been elected a Fellow of the Royal Society (1992) and the American Institute of Aeronautics and Astronautics (1993), Foreign Associate of the US National Academy of Engineering (1989) and US National Academy of Sciences (2000); Honorary Member of the American Academy of Arts and Sciences (1999); Fellow of the Third World Academy of Sciences, an Honorary Fellow of the Aeronautical Society of India; and Fellow of all the national academies of science and engineering. During its centenary IISc elected him an Honorary Fellow. In 2013, he received the Padma Vibhushan, India’s second highest civilian award.

In recognition of his outstanding contributions, Ministry of Earth Sciences honors Prof. Roddam Narasimha, with “Life Time Excellence Award” in the sphere of Earth System Science for the year 2013.
National Awards
National Award in the field of Ocean Science & Technology
Dr. Syed Wajih Ahmad Naqvi

Syed Wajih Ahmad Naqvi was born at Amroha (UP). Third of seven children of Aziz Fatima and Sibte Mehmood, Naqvi had his early schooling at Amroha and Bareilly before moving to Lucknow for intermediate and higher education. After obtaining his M.Sc. degree from Lucknow University in Physical Chemistry in 1974, Naqvi secured a CSIR Junior Research Fellowship to carry out research at the National Institute of Oceanography (NIO), Goa. He has since been working at NIO in various capacities, presently heading the Institute. Naqvi is married to khamisa Zarreen and has two children, Asad Mehmood and Sumbul Zarreen.

Early in his research career, Naqvi was mentored by the late Dr. R. Sen Gupta, under whose guidance he obtained a Ph.D. degree from Poona University in 1987. His research focussed on biologically-mediated chemical transformations in the oxygen minimum zone (OMZ) of the Arabian Sea, which were largely unknown at that time. He provided conclusive evidence for large-scale denitrification (microbial reduction of nitrate to N2 and N2O) in the water column, demarcated its spatial extent and determined its temporal variability. Quantifying denitrification using a variety of innovative techniques, Naqvi showed that the Arabian Sea is the worlds largest oceanic denitrification site, accounting for at least one-third of the global water column denitrification. His results revealed that in contrast with the eastern Pacific, zones of highest primary production and most intense denitrification are geographically separated in the northern Indian Ocean. This decoupling was also shown to be reflected by respiration rates that were found to be maximal within the OMZ, and also too high to be supported by organic matter supplied by particles sinking from the surface layer. These results clearly point to additional modes of organic matter supply, including in situ chemoautotrophic production, within the OMZ. The denitrifying layer was also demonstrated to contain maxima in bacterial abundance and turbidity. The first ever measurements of heterotrophic nanoflagellates (HNF), which prey upon bacteria, revealed large HNF counts, indicating that suppressed mortality could not be the cause of the elevated bacterial biomass, which must be maintained by elevated growth. These findings challenge the prevalent view of lower respiration rate and consequently greater preservation of organic matter in low oxygen waters. Naqvi and colleagues also generated the first comprehensive data set on natural abundance of isotopes in various dissolved nitrogen species from any oceanic area that provided new insights into marine nitrogen cycling. Further, their work showed that, contrary to the prevalent belief, the Arabian Sea OMZ is ventilated surprisingly rapidly (on time scales of a few years at most). These
results imply that the Arabian Sea is highly vulnerable to potential anthropogenic perturbations.

As a part of his pioneering efforts to investigate the impacts of global change on marine biogeochemistry of the northern Indian Ocean, Naqvi carried out extensive work on greenhouse gases [carbon dioxide (CO₂), nitrous oxide (N₂O) and methane (CH₄)] both in the open-ocean and seasonally-occurring coastal hypoxic zone. The coastal low-oxygen zone, the largest of its kind in the world, has been found to have intensified in recent years, affecting living resources and providing feedback to global change. The former is because denitrification removes all nitrate, at rates that are the highest ever measured from any marine system, culminating in sulphidic conditions, and the latter is due to unprecedented accumulation of N₂O. Thus, it has been shown for the first time that human activities are causing an increase in oceanic emissions of N₂O, and the efflux of this potent greenhouse gas from the Arabian Sea is globally significant, unlike those of CO₂ and CH₄.

Biological productivity in the ocean is sometimes limited by low concentration of iron. This phenomenon, widely prevalent in the Southern Ocean and equatorial Pacific, has been discovered for the first time in the western Arabian Sea, significantly affecting regional biogeochemistry, including the anomalous location of the OMZ. It has been proposed that addition of iron to the HNLC waters could promote biological production causing a drawdown of atmospheric CO₂. Consequently, Ocean Iron Fertilization (OIF) has been widely regarded as a potential technique to sequester CO₂ from the atmosphere. Naqvi organized the largest OIF experiment conducted so far called the LOHAFEX - in the Southern Ocean, which yielded quite different results from those of previous studies. In the absence of diatoms, due to silicon deficiency in the study area, intense grazing of smaller phytoplankton by zooplankton prevented large build-up of phytoplankton biomass and carbon export to the deep sea. The LOHAFEX findings imply a much lower than expected potential of OIF for sequestration of atmospheric CO₂.

Dr. Naqvi initiated the first systematic study of freshwater ecosystems of India (groundwaters, natural lakes and man-made reservoirs). Observations in a large number of dams revealed relatively moderate eutrophication, with anoxic conditions prevailing in the hypolimnion during summer stratification with an apparent loss of fixed nitrogen in most reservoirs. Mechanisms and rates of this loss have been determined. More importantly, it has been demonstrated that methane emissions from Indian dams, previously postulated to be the highest in the world, are much smaller.

Dr. Naqvi provided a nucleus for the formation of a biogeochemistry group in NIO that over the years has developed to be among the best in the world. In
this process he also set up numerous state-of-the-art analytical facilities and
developed expertise, many of which are not available anywhere in the
country. He guided and trained a large number of youngsters who are
occupying high positions in academic and research institutions both in India
and abroad. He also led numerous research projects. He participated in over
50 research expeditions, being the Chief Scientist of over half of them
including LOHAFEX. He was also a member of the Third Indian Expedition to
Antarctica that set up the first permanent station at the icy continent.

Dr. Naqvi has extensively traveled abroad delivering invited talks at a large
number of institutions and conferences. He has worked at the following
institutions: Lamont-Doherty Earth Observaroty of Columbia University, New
York, USA (as a Raman Research Fellow); Institute for Hydrospheric-
Atmospheric Sciences, Nagoya University, Japan (as a Visiting Professor);
Centre for Tropical Marine Ecology, Bremen, Germany (as a Hanse
Wissenschafts kolleg Fellow); and Max-Planck Institute for Marine
Microbiology, Bremen (as a Marie Curie Fellow). He is currently an Adjunct
Scientist at Woods Hole Oceanographic Institution, Woods Hole, USA.

Dr. Naqvi served on a very large number of national and international
committees, including United Nations panels and organizing committees of
many international conferences. He has been actively involved with planning
and implementation of several ocean-related projects of International
Geosphere-Biosphere Programme (IGBP) and Scientific Committee on Ocean
Research (SCOR). He is currently a member of the Executive Committee and
several Working Groups of SCOR. He is also engaged in editing of
international journals, serving on editorial boards of Marine Biology and
Aquatic Biology, and an Editor-in-Chief of Biogeosciences.

In recognition of his scientific contributions, Naqvi has received a large
number of awards/recognition including the CSIR Young Scientist Award
(1987), MAAS Young Scientist Award (1989), Shanti Swaroop Bhatnagar Prize
(1996), and Vigyan Ratna by the Uttar Pradesh Government (2004). He is a
fellow of the National Academy of Sciences, India, Indian Academy of
Sciences, Indian National Science Academy, and Third World Academy of
Sciences.

In recognition of his outstanding contributions, Ministry of Earth Sciences
honors Dr. S.W.A. Naqvi with "National Award in Ocean Science and
Technology" for the year 2013.
National Award in the field of Atmospheric Sciences & Technology

Prof. U. C. Mohanty

Prof. U. C. Mohanty has made outstanding contribution in the field of tropical meteorology, in particular, Asian summer monsoon dynamics, tropical cyclone research, numerical weather prediction in tropics, mesoscale modeling of extreme weather events over Indian monsoonal regime, extended range prediction of Indian summer monsoon and regional climate modeling.

The uniqueness of his contribution in Atmospheric and Oceanic Sciences and Technology is attributed to close linkage of field experiments to obtain special atmospheric data sets, comprehensive processing and analysis of special data sets for better understanding of atmospheric processes in the tropics, mathematical modeling of non-linear weather systems and numerical solutions. The other important aspects of his contribution are improvement of numerical models, statistical dynamical downscaling of model products, evaluation and validation of models and practical applications in various sectors like aviation, agriculture and weather prediction services.

Some of the outstanding contributions by Prof. Mohanty are as follows:

- Prof. Mohanty participated in several international and national field experiments including First Global Experiment of MONEX-79, MONTBLEX-90, LASPEX-97, INDOEX-99, BOBMEX-99, ARMEX-2002, STORM-2006, FDP TC-2009, SAARC STORM-2011 and CTCZ-2011. He has made significant contribution towards better understanding various atmospheric processes through analyses and interpretation of observational data from field experiments with more than 50 national/international publications.
- An extensive study revealed for the first time the sequence of changes that take place in the dynamic and thermodynamic characteristics of the air-mass during the onset, active and weak (break) phases of the summer monsoon over India.
- Semi-prognostic studies and extensive numerical experiments with global spectral models led to the improvement of deep convection parameterization and performance of weather prediction in the tropics. His work had an important bearing on initialization of mass and velocity fields for numerical weather prediction in the tropics.
- Prof. Mohanty developed a high resolution nested grid limited area model to predict the growth/movement of local weather systems,
monsoon depressions and tropical cyclones. Comprehensive
dynamical statistical models have also been developed for prediction
of location specific weather parameters for application in aviation
services, agricultural practices and day to day human activities.

- The role of Indian Seas (Bay of Bengal and Arabian Sea) on the
interannual variability of Indian summer monsoon was investigated in
detail by Prof. Mohanty. He has brought out an exciting and original
finding on the role of oceanic heat budget in determining the intensity
of the summer monsoon activity over India.

- Prof. Mohanty has carried out a detailed study with 100 years data on
the characteristic features of tropical cyclones in the Bay of Bengal. He
has made significant contributions toward
development/customization of a number of dynamical and statistical
models for better prediction of tropical cyclones in the Bay of Bengal
and Arabian Sea. He has also carried out research on prediction of
storm surges associated with tropical cyclones along East Coast of
India and coastal inundation due to high surges.

- Prof. Mohanty during his deputation as head of research division of the
National Centre for Medium Range Weather Forecasting (NCMRWF)
was responsible to operationalize medium range weather forecasting
system for the first time in India on a super-computing platform for its
application in agriculture and many other sectors.

- In recognition of the outstanding contribution of Prof. Mohanty in
Atmospheric Science and Technology, he has been awarded
prestigious Shanti Swarup Bhatnagar Prize in Earth, Atmosphere,
Ocean and Planetary Science, Sir Gilbert Walker gold medal, 12th
Mausam Award, Prof. M.G. Deshpande Award, AR&DB Silver Jubilee
Award and Samant Chandra Sekhar Award. He has also been elected
Fellow of Indian Academy of Sciences, Fellow of National Academy of
Sciences, India, Fellow of Indian National Academy of Engineering,
Fellow of Indian Geophysical Union, Fellow of Indian Meteorological
Society and Life Member of Society for Scientific Values, Member of
International Coordinating Committee (ICC) of Climate and Ecosystems
Change Adaptation Research (UN-CECAR), UNU, Japan and elected as
Senior Associateship of ICTP, Trieste, Italy. He also serves as Life
Member / member of a large number of professional societies and
committees.

- Prof. Mohanty has successfully completed/carried out a large number
of sponsored research projects technology development/ consultancy
[about 45 projects and consultancy with a total amount of about Rs. 20 crores] of Government of India at IIT, Delhi. Under the guidance of Prof. U.C. Mohanty, thirty candidates have earned Ph.D degree and ten M. Tech in Atmospheric Sciences & Technology.

- Prof. Mohanty has published more than 250 research papers in international and national peer reviewed journals. He has made outstanding contributions towards research, development, growth and significant progress in meteorology in India. His academic and scientific contributions through teaching and research guidance in atmospheric sciences for more than 40 years have been helping to enhance the understanding of weather and climate science.

- Prof. Mohanty was visiting scientist at several leading International organizations/universities including European Centre for Medium Range Weather Forecasts (ECMWF), UK; National Centre for Atmospheric Research (NCAR), USA; National Centers for Environmental Prediction (NCEP), USA; University of Reading, UK; North Carolina State University, USA; Florida State University, USA; Purdue University, USA, Naval Research Laboratory, USA etc.

- Prof. Mohanty is continuing his responsibilities as honorary president of Odisha Bighan Academy, Govt. of Odisha; chairman of Programme Advisory Committee (PAC) in Atmospheric Sciences, Scientific and Engineering Research Board (SERB), DST, Govt. of India; Fund for Improvement of S&T Infrastructure (FIST) in Earth System Sciences, DST; Programme Implementation Committee (PIC) for Severe Thunderstorms Observations and Regional Modelling (STORM) programme, MoES, Govt. of India. He is also serving as member, Scientific Review and Monitoring Committee (SRMC) of National Monsoon Mission, MoES; International Advisory Panel (IAP) for Weather and Climate, MoES; Project Appraisal and Monitoring Committee (PAMC) on Atmospheric Sciences including Climate Science, MoES; Research Advisory committee (RAC), NCMRWF; Partial Financial Assistant Committee (PFAC), Council of Scientific and Industrial Research (CSIR); Governing Council of IITM, Pune and many other committees/programmes. In addition, he is also active member of American Meteorological Society, Indian Meteorological Society, and several academic councils/ research committees and governing councils in a number of leading institutes/ universities/organizations in India.

In recognition of his outstanding contributions, Ministry of Earth Sciences honors Prof. U. C. Mohanty with "National Award in Atmospheric Science and Technology" for the year 2013.
National Award in the field of Geoscience & Technology
Dr. Vijay Prasad Dimri

Dr. Vijay Prasad Dimri is distinguished scientist of Council of Scientific and Industrial Research (CSIR) since October 26, 2010 working at National Geophysical Research Institute (NGRI), Hyderabad, India. He served as the Director of the NGRI from October 2001 to February 2010. Also, he served as the Director, Gujarat Energy Research and Management Institute (GERMI), Gandhinagar, Gujarat, India from March 2010 to October, 2010.

Earlier, Dr. Dimri joined theoretical geophysics group at NGRI in 1970 as a Junior Research Fellow, after his post-graduation in applied geophysics from Indian School of Mines, Dhanbad in 1969. Dr. Dimri reformulated the problems of geophysics for realistic geology after careful analysis of physical properties such as density, susceptibility, reflectivity etc from several deep boreholes including German Continental Deep Drilling Project (KTB), which follow fractal distribution rather than hitherto assumed random distribution for mathematical simplicity. His theoretical work established a relation between potential field and their sources and thus developed a new technique of scaling spectral analysis to delineate subsurface complex geological structures for hydrocarbon, water and mineral exploration for many Indian case studies. A new way for modelling of any complex object lying beneath the earth surface by using fractal geometry, has been granted as US patent and has many applications like Enhanced Oil Recovery, Aquifer Modelling etc. Also, he published many papers using fractal theory to understand seismicity of different regions of India, viz. Himalaya, Andaman, Sumatra, Bhuj and shield areas. Further, Tsunami modelling and its impact on Indian coast by a detailed study from sea-quakes originated from Andaman, Sumatra and Makran (Pakistan) regions, are among few significant contributions by Dr. Dimri.

Awards and Honors

Dr. Dimri has been conferred with the highest civilian award of the India Padma Shri by the Govt. of India, in 2010. He delivered prestigious Sir Axford Lecture in Asia Oceania Geosciences Society (AOGS, Singapore) annual conference, 2010 (another Sir Axford lecture was given by Nobel Laureate Prof. Y.T.Lee). Dr. Dimri is first Asian to get Lorenz Award Lecturer by American Geophysical Union in the field of non-linear geophysics in December, 2007. Among many other important awards conferred on him includes, Prof. G.P. Chatterjee award by Indian Science Congress, given by Prime Minister, Dr. Man Mohan Singh, Outstanding Scientist Award by FAPCCI, Hyderabad, 2006, Department of Ocean Development Award, Govt. of India, 2004, and National Mineral Award by ministry of Mines, Govt. of India, 1992. Geological Society of India presented him Dr. Hari Narain Award for Geophysics in 2011. Honorable Chief Minister of Uttarakhand awarded him S&T Excellence Award for his outstanding contribution in the field of Geophysics. He is a member of various scientific committees in India and abroad like ICSU-CSPR, Chairman RAC, IIG Mumbai.

Dr. Dimri is Fellow of many learned academies and societies among which few are: Third World Academy of Sciences (TWAS), Indian National Science Academy (INSA), National Academy of Sciences (NASI), Andhra Pradesh Academy of Sciences, Geological Society of India, and Honorary life fellow of Indian Society of Applied Geochemists. Dr. Dimri is president of Indian Geophysical Union (IGU). He was also former President of Andhra Pradesh Akademi of Sciences, Hyderabad.

In recognition of his outstanding contributions, Ministry of Earth Sciences honors Dr. Vijay Prasad Dimri with “National Award in Geoscience & Technology” for the year 2013.
National Award in the field of Polar Science & Cryosphere
Dr. Rasik Ravindra

Rasik Ravindra held the position of the Director of the National Centre for Antarctica and Ocean Research, an autonomous research institute of MoES, between January 2006 and August 2012 after relinquishing the post of Deputy Director General in Geological Survey, of India where he worked in Rajasthan, Haryana Meghalaya and led geological expeditions to higher Himalayas during his 35 years of service.

He was introduced to Antarctica in 1987, when he joined Seventh Indian Expedition to Antarctica. Subsequently, he led Ninth Antarctic Expedition in 1989-91 and visited the icy continent again in 1996-97, 2003-04, 2007 and 2009 in various capacities for specific assignments, contributing to different facets of Antarctic science, logistics and policy of this mission. In 2010 he led the First Indian Expedition to South Pole that saw an eight member team of scientists on South Pole in record time opening new grounds for research by Indian scientists in the deep interior areas of Antarctica.

He is also credited with leading an Environmental Task Force in Antarctica for maintaining the environmental protocols of Antarctic stations, heading the Task Force constituted by the then Department of Ocean Development for selection of site of the third Indian Station in Antarctica and for leading the First Indian Arctic Expedition that led to establishment of Himadri the Indian station in Arctic. His contributions towards the success of Antarctic Third Station-Bharati are well known.

His interest in Cryosphere studies dates back to 1970 when he took part in the INSA expedition to Higher Himalayas to investigate the Alakananda Flash Floods. Subsequently, he participated in three scientific expeditions to Higher Himalaya in Bhutan (1980-1983) for geological and glaciological investigations. Between 1987 and 1996, he took part in earth science studies in different parts of east Antarctica that include: Schirmacher Oasis, Humboldt and Gruber Mountains of Central Dronning Maud Land of east Antarctica contributing to crustal evolution studies, ice berg monitoring, recording fluctuation of continental ice margin, geomorphology, palaeoclimatic and other glaciological investigations. He has more than fifty scientific publications in reputed peer reviewed journals in Antarctic Earth Science. He was involved with Himalayan Glaciological studies as the Chairman of DST.
constituted Program Monitoring Committee on Dynamics of Himalayan Glaciers from 2007 to 2012.

He has held the prestigious position of Vice President of Scientific Committee on Antarctic Research (SCAR) for two terms (2008-2012) and Vice Chair of The Council of Managers of National Antarctic Programs (COMNAP, 2008-2011). As Chairman of the Asian Forum on Polar Sciences (AFoPS, 2010-1012) and Group on Management of Larsemann- ASMA ( Antarctic Specially managed Areas-2010-1012), he has made significant contribution in building international co-operation of India with Australia, China, Japan, Malaysia, Romania, Russia and South Korea bringing international visibility to Indian Antarctic Program. He also held the position of First Council Member from India to IASC (International Arctic Science Committee) and is the current Chair of INSA Committee on SCAR.

He has guided and motivated his team of scientists at NCAOR to raise the Centre to an internationally recognized institute, expanding its domain from Antarctica to Arctic and Himalaya, and encompassing the mysterious Southern Ocean with a thrust on global climate change research.

He has received National Mineral Award-1990, Antarctic Award-2002, H.N. Siddequi Gold Medal from IGU and Rajiv Gandhi Excellence Award-2011 for his contributions to advancement of Polar sciences in India.

In recognition of his outstanding contributions, Ministry of Earth Sciences honors Dr. Rasik Ravindra with "National Award in Polar Science and Cryosphere" for the year 2013.
Young Researcher/Achiever Award
Dr. Nilanjan Saha

Dr. Saha is presently working as an Assistant Professor in the Department of Ocean Engineering, Indian Institute of Technology Madras in 2010. Prior to joining IIT Madras, he carried out post-doctoral work at Centre-for-Ships-and-Ocean-Structures (Norwegian University of Science and Technology), Trondheim, Norway for two years. He completed his Bachelors degree in Civil Engineering at Jadavpur University, Calcutta (2001); both Masters of Science (MSc-Engg by Research) (2004) and Ph.D in Civil Engineering (2008) from Indian Institute of Science, Bangalore.

In 2011 he again visited Norway as a Visiting Researcher for one month. In 2013, Dr. Saha went to TU Munich as a Visiting Professor under the DAAD scheme to work on reliability of offshore wind turbines. Dr. Saha had worked on various geotechnical problems in the areas of soil reinforcement using geosynthetic materials for excavation and embankment problems. The results were useful in designing structures under dynamic and earthquake loading. Dr. Saha interests lies in the areas stochastic structural dynamics, Monte Carlo simulations, variance reduction strategies and stochastic filtering techniques with the goal of application in offshore engineering problems. With his background on stochastic methods, Dr. Saha started application of those techniques to wind turbines by including the wind and wave nonlinear effects. He had worked on new methods to obtain the extreme values for the responses of offshore wind turbines. Dr. Saha is trying to disseminate his research expertise in the areas of renewable energy for installations in India. Dr. Saha has published around 25 papers in peer reviewed international journals and conferences. He has executed about 5 sponsored and consultancy projects. He is the thesis advisor for 3 PhD Students and 3 MS students and 4 MTech students. He had given invited lectures both in India and abroad. For his research work, he had been conferred upon Hari Om Ashram Perit Award and IEl- Young Engineer Award.

In recognition of his outstanding contributions, Ministry of Earth Sciences honors Dr. Nilanjan Saha with “Young Researcher Award in the field of Earth System Science” for the year 2013.
Certificate of Merit
Ocean Science & Technology
M. Nagaraja Kumar

Shri M. Nagaraja Kumar born on 05th August 1979 completed Masters degree in Physics from Andhra University, Visakhapatnam in 2001. He joined ESSO-Indian National Centre for Ocean Information Services (INCOIS) in August 2001 as Scientific Assistant B and after working at various levels currently working as Scientist D in Advisory Services and Satellite Oceanography Group (ASG) of ESSO-INCOIS. Shri M. Nagaraja Kumar is pragmatic and focused.

As Scientist In-Charge of potential Fishing Zone (PFZ) Advisory services Shri M. Nagaraja is responsible in providing timely and reliable advisories on potential fishing zones (general and species specific advisory for Tuna) in the Indian waters. The PFZ Advisories has been highlighted in the international scenario as one of the major elements under Societal Applications in Fisheries & aquaculture using Remotely-Sensed Imagery (SAFARI) and also recognized as one of the Societal Benefit areas (SBAs) by Global Earth Observation System of Systems (GEOSS).

Shri Nagaraja Kumar has made significant contributions by designing innovative solutions in the development and improvements in the production of PFZ advisories and their dissemination using geospatial and communication technologies. Shri Nagaraja Kumar introduced the digital techniques that resulted in reducing the timelines in preparation of PFZ advisories to 2.5 hours since the receipt of Satellite data and also increased the frequency of advisories from thrice a week to daily.

Shri Nagaraja Kumar also made immense contributions for the effective dissemination of these PFZ advisories through web and location based services that made significant impact on the delivery chain. He contributed in the implementation of the innovative dissemination mechanisms like dissemination through mobile phones, AIR, FM, Radio, Doordarshan, and Village Resource Centers (VRC), Village Knowledge Centers (VKC), SMS, IVRS, Mobile Applications like Fisher Friendly Mobile Application (FFMA), Fisherman helpline and through the specially designed electronic display systems installed at about 100 locations along the Indian coast. Currently more than one lakh fishermen are using the PFZ services directly as that helps them in getting better catch without spending much time and fuel.

Shri Nagaraja Kumar had also initiated a programme to tag Tuna using Satellite telemetry tags to study the migratory patterns of Tuna and their preferred environment. This project is expected to help in the development of Tuna fishery advisory services.
Shri Nagaraja Kumar also contributes as the Secretary of IOGOOS since July 2010. Earlier, he acted as the Co-Secretary of IOGOOS during December 2008 to July 2010. He successfully coordinated and organized the Annual Meetings of IOGOOS, and provided the end-to-end support in maintaining the IOGOOS secretariat functioning from INCOIS.

Shri M. Nagaraja Kumar is awarded Certificate of Merit for his outstanding contribution in the field of Ocean Science and Technology.
Tata Sudhakar

Shri Tata Sudhakar born on 24th July 1963 and joined as a scientist at National Institute of Ocean technology, Chennai NIOT in the year 1997 with 14 years of experience in ocean instruments and observations. He obtained his M. Tech (Electronics and Control) from Sathyabama University and pursuing doctoral work. Presently, he is heading Ocean Electronics Group of NIOT with a mandate to develop instruments for ocean applications.

Tata Sudhakar was the key member of the team responsible for the establishment of National Data Buoy Programme of MOES for monitoring of met ocean information from Indian Ocean. His major contributions include establishment first calibration and validation system for optical payloads of ISRO satellite at Lakshadweep Island (CALVAL), Participation in BOBMEX & ARMEX experiments and establishment of bottom pressure recorders for detection of Tsunami. He received the prestigious National Geo Science Award from Ministry of Mines, Govt of India in the category of Disaster management for the contributions in establishment of Indian Tsunami warning system at INCOIS, Hyderabad.

His recent activities include development of technologies for ocean observations. Under his leadership, team has developed Prodyu drifting buoy with INSAT communication, which was tested in the Bay of Bengal at off Sri Lanka. After successful completion of sea trials, the technology is being transferred to industry. Technology transfer for Autonomous Underwater profiling drifters (AUPD) to measure vertical profiles of ocean was initiated with industry and it was successfully tested in the laboratory as well as in the field off Lakshadweep.

His other contributions include establishment of Tide and met observatory (KALOBS) for Kalpasar Project in Gujarat with INSAT communication. He is also working on indigenization other technologies like Deep ocean pressure recorder, ship based AWS systems and performance evaluation of different Tsunami detection algorithms. He has filed 4 patents and has 15 publications.

During his previous assignment at NIO, Goa he participated in many research expeditions both at National and International level including 5th Indian expedition to Antarctica and Commonwealth Science Council Program (CORE) FOR Caribbean islands.

Shri Tata Sudhakar is awarded Certificate of Merit for his outstanding contribution in the field of Ocean Science and Technology.
Aruna Kumar Avula

Shri Aruna Kumar Avula born on 14th September, 1976 in Nellore district, Andhra Pradesh, Shri Aruna Kumar Avula has obtained his M.E. degree in Hydraulic, Coastal and Harbour Engineering from Andhra University in the year 2004. He joined the National Institute of Ocean Technology (NIOT) in June 2006 where he is presently working as Scientist - C in the domain of Coastal and Environmental Engineering. From his university days, Shri Aruna Kumar Avula had a keen interest in coastal engineering and design of structures.

Significant contributions were made by him in investigating the circulation, advection-dispersion, wave transformation, dredge disposal, harbor resonance and sediment transport with numerical modeling studies. He has taken up the initiative in prediction of tide and circulation at Gulf of Khambhat, using hydrodynamic numerical model.

Furthermore, Shri Aruna Kumar Avula was instrumental in adapting novel methodologies for Real Time Kinematic (RTK) GPS based bathymetry, topography, vertical control surveys. Regional geoid-spheroid model developed under his leadership has significantly improved the accuracy of surveys at the intertidal zone in the northern Gulf of Khambhat for Kalpasar Project. His studies based on hydrography and hydraulic phenomena were helpful in the identification of met-ocean observatory locations for Gulf of Khambhat development project. The dry deck platform, based on lattice structure, for intertidal zone, designed by his team has facilitated the easy maintenance of the met-oceanographic equipment.

Shri Aruna Kumar Avula was also responsible for Establishment of network attached storage; administrating local IT resources and induction of cluster based mini High Performance Computing (HPC) facility for department. These additional tasks were significantly supportive for the numerical simulation and archival requirement of various institute programmes.

Shri Aruna Kumar Avula is presently leading a team that is working on long term morpho-dynamic studies in Gulf of Khambhat and Storm surge modeling for the peninsular coast.

Shri Aruna Kumar Avula is awarded Certificate of Merit for his outstanding contribution in the field of Ocean Science and Technology.
Dr. Sivaji Patra

Dr. Sivaji Patra born on 7th July 1977, obtained his M.Sc and M.Phil in Oceanography (Marine Chemistry Specialization) from the Post Graduate Department of Marine Sciences, Berhampur University, Odisha during 1999 and 2003, respectively. He was awarded Ph.D in 2008 by the Institute of Geochemistry, Chinese Academy of Sciences, China. Since 2009, he has been working as a Scientist at the Integrated Coastal and Marine Area Management - Project Directorate (ICMAM-PD), Chennai.

Dr. Patras research aim is to evaluate the rate constants between bio-geochemical parameters (used for water quality and ecological models) under changing environmental conditions. He was involved in an inter disciplinary programme Ecosystem Modeling of Chilika Lagoon at ICMAM-PD, to understand the ecological functioning and to establish a mathematical model for water quality management for this lagoon. Dr. Patra has indigenously developed several important rate constant coefficients for the first time for a tropical lagoon ecosystem (Chilika). The findings of this study have already been published and communicated in peer-reviewed journals. It is expected that the findings of this study may facilitate Chilika Development Authority, to take appropriate water quality management. In continuation with his earlier work Dr. Patra is envisaging to extend his research work further to identify the significant rate constant coefficients for the Indian coastal waters, which would facilitate improved scientific understanding of coastal ecology of the Indian coast.

Dr. Sivaji Patra is awarded Certificate of Merit for his outstanding contribution in the field of Ocean Sciences & Technology.
Dr. K. P. Krishnan

Dr.K.P.Krishnan, Scientist D joined the National Centre for Antarctic and Ocean Research (NCAOR) in June 2006. Since then he has been working on the ecology and diversity of cryophilic bacteria that dwell the Polar Regions. He established the Cryobiology Laboratory at NCAOR there by providing the researchers with unique facilities to isolate culture and study cryophilic microbes. He led a team of young researchers to study bacteria inhabiting ice and snow and is the first of its kind in India. In 2006, he was deputed to participate in the 26th Indian Scientific Expeditions to Antarctica where he made significant contribution towards the development of baseline data for the Environment Impact Assessment that was mandatory for the establishment of Bharati station in East Antarctica. Further, he was nominated to the Life Science Working Group of Asian Forum of Polar Sciences. In 2008, he was bestowed with the opportunity to conduct research in the Arctic as a part of the first Indian winter expedition to Arctic. Since then he has been closely associated with the planning, implementation and coordination of the Indian Arctic program. In January 2013, he was given the responsibility to manage the entire gamut of scientific and logistic activities pertaining to Indian Scientific Expeditions in the Arctic. The same year he was also nominated to the Marine Working Group of the International Arctic Science Committee. He has participated in several expeditions to the Arctic as Team Coordinator and also now leads the Kongsfjorden Monitoring Program, a flagship initiative. He has also been associated with the project on Long term monitoring of Kongsfjorden system of Arctic region for climate change studies. This has been a comprehensive multidisciplinary effort in understanding physical and biogeochemical aspects of the fjord at close spatial and temporal intervals. This project has been well accepted among the researchers working in the Kongsfjorden, as the primary data generated is a benchmark for accessing future changes, while at the same time serving as background information for several satellite projects implemented in the Ny-Ålesund under the aegis of the Kongsfjorden flagship programme. During his tenure he was also given the responsibility as the Deputy Chief Scientist, Indian Scientific Expedition to the Southern Ocean (2010) where he was involved in the study of bacterial productivity and functional diversity in frontal regimes. He has published over 24 peer reviewed papers and authored in 2 books.

Dr. K.P. Krishnan is awarded Certificate of Merit for his outstanding contribution in the field of Ocean Science & Technology.
Dr. Sherine Sonia Cubelio

Dr. Sherine Sonia Cubelio completed her Ph.D. from Japan Agency for Marine-Earth Science & Technology (JAMSTEC) and degree was awarded by Tokyo University of Marine Science and Technology, Japan in Marine Bioscience. She did her post graduation in Fisheries Science from Kerala Agricultural University. As part of her Ph.D programme, 7 new species of anomuran crabs associated with hydrothermal vents of Pacific and Indian Ocean were described as new to science. This is one of her major contributions to deep sea research.

She joined Centre for Marine Living Resources & Ecology (CMLRE), Cochin in May 2011. Since then she is actively co-coordinating with the implementation of different research projects such as Assessment of the demersal fishery resources along the Indian EEZ, Assessment of Myctophid resources in the Central Arabian Sea and different R&D Technology Development projects of CMLRE. She has participated in many deep sea cruises onboard FORV Sagar Sampada. As part of deep sea fishery project many deep sea fishes and sharks were described as new record to Indian EEZ. Most of these fishes were collected along the Indian EEZ at depths ranging from 400-1000m during the deep sea expeditions and their taxonomical identities were resolved. A species of shark collected from off Mangalore, at a depth of 200 m has been described new to science. Thus her taxonomical research has made immense contribution to the deep sea ichthyo-biosystematics. She has many publications on deep sea fish taxonomy to her credit in many national and international journals.

She is actively involved in different R&D projects particularly with project on Technology transfer on Ornamental Fish Culture implemented in Agatti Island, Lakshadweep. Currently as a Project Coordinator, her sincere effort in planning, co-ordinating and implementing this project is another important task she is involved with. She is also actively involved with Census of Marine Life (CoML) activities at CMLRE. Also serve as a key person in organizing exhibitions/competitions etc for Ocean awareness among the public.

Apart from routing research activities she is also actively involved with many national and international bodies/forums associated with marine biodiversity conservation and protection. As part of International Biodiversity Programmes, she attended the 16th Session of the Subsidiary Body of Scientific, Technical and Technological Advice (SBSTTA) to the Convention on Biological Diversity (CBD) held at Montreal, Canada. Also attended the Ad-hoc Open-ended Informal Working Group to study issues relating to the
conservation and sustainable use of marine biological diversity beyond areas of national jurisdiction (BBNJ), held at UN Headquarters, New York. Represented MoES during the 11th Conference of Parties (CoP-11) to the Convention on Biological Diversity (CBD) where agenda items like Marine and Coastal biodiversity and Review of the programme of work on island biodiversity were dealt. Also instrumental in many scientific workshops/collaborations such as Indo-Japan, Indo-German Biodiversity/Scientific Programme arranged by Inter-Ministerial Co-operation.

She serves as a member of panel of reviewers for the scientific journal: Biodiversity Records, Journal of Marine Biological Association of UK.

Dr. Sherine Sonia Cubelio is awarded Certificate of Merit for her outstanding contribution in the field of Ocean Science & Technology.
Certificate of Merit
Atmospheric Science & Technology
Dr. Thara Prabhakaran

Dr. Thara Prabhakaran received her MSc (Physics) and MTech (Atmospheric Physics) from University of Pune. After completing her PhD from University of Agriculture and Natural Resources (Bodenkultur Universität), Vienna, Austria, she worked as a scientist at Indira Gandhi Center for Atomic Research (IGCAR), Kalpakkam. During 2000-2008, she worked as a researcher at University of Georgia, USA. She joined Indian Institute of Tropical Meteorology (IITM) in 2008 as scientist. Since joining IITM, she has been involved in the Cloud Aerosol Interaction and Precipitation Enhancement Experiment (CAIPEEX) program. In 2011 she coordinated the Integrated Ground Observational Campaign (IGOC), where surface to cloud layer observations of various types were conducted to bring out a comprehensive documented dataset to study surface-boundary layer-cloud interactions.

She is currently the Chief Project Scientist of Physics and Dynamics of Tropical Clouds (PDTC) project at IITM. In PDTC she aims to understand the microphysics of rain formation in monsoon clouds and contribute to improve physical parameterizations in the forecast models. She is actively involved in the fundamental research in cloud microphysics and boundary layer processes with the help of observations and simulations. The mechanism for the interaction of mountain waves, nocturnal jets and convective roll circulations over the Western Ghat was described for the first time in her studies. Her major contributions include; the findings of bimodal droplet spectra in monsoon clouds associated with incloud activation of interstitial aerosol particles and droplet evaporation, findings on the raindrop formation in adiabatic cores of monsoon clouds suggesting that basic condensation and collision coalescence could explain the raindrop formation, indirect effect of aerosols in premonsoon and monsoon clouds, entrainment effects in monsoon clouds, etc. She has contributed to the understanding on the processes leading to the formation of elevated aerosol layers near Ganges Valley, and the role of dynamical processes which have scales less than a 100 km.

She is an elected member of International commission on Clouds and Precipitation (ICCP, which is a governing body under IUGG/IAMAS http://www.iccp-iamas.org/), associate editor of Asia Pacific Journal of atmospheric Sciences (Springer), academic faculty of MoES Center for Advanced Training (CAT) and serving as committee member/reviewer for various national and international agencies/journals.

Dr. Thara Prabhakaran is awarded Certificate of Merit for her outstanding contribution in the field of Atmospheric Science & Technology.
Dr. Saji Mohandas

Dr. Saji Mohandas obtained his Masters degree in Meteorology in 1989 and M.Tech. in Atmospheric Sciences in 1991 from Cochin University of Science and Technology. Thereafter he joined the National Centre for Medium Range Weather Forecasting (NCMRWF) in 1992 as Senior Scientific Officer Grade-II. He has since then worked on the various aspects of Numerical Weather Prediction and has contributed to the developmental activities in global and mesoscale modelling. He was awarded Ph.D in 2005 for his thesis entitled Influence of model orography in simulating Indian monsoon using a numerical model by Berhampur University.

Dr. Saji Mohandas has always strived hard to bring laurels and visibility to NCMRWF. In particular, he has shown exemplary initiatives in the implementation of the latest version of Global Forecast System at NCMRWF which has resulted in a gain of 1 day in the skill of the forecasts. He has also worked on the dynamical downscaling of medium range weather forecasts using Regional Spectral Model (RSM). He is currently involved in the development activities in the Unified Model system for seamless prediction of weather and climate. He has also developed a number of software tools for post processing and evaluation of the model products which are currently being utilised for operational and research activities.

Dr. Saji Mohandas is awarded with Certificate of Merit for his outstanding contributions in the field of Atmospheric Sciences.
Rahul Saxena

Born on 22nd June 1966 in Delhi. Rahul Saxena did his B.Sc (Computer Science) from Delhi University and M.Sc (Maths with Computer Science) from Jamia Millia Islamia in 1989. He had a good Academic Record throughout his career. He joined IMD as Meteorologist Grade- II in 1993. He has been engaged in the field of operational Meteorology since last 10 years.

He has wide experience in Synoptic meteorology and his area of interest includes Neural networking besides. He has taken new initiatives in the development of Meteorological application on GIS platform.

His research publications include work on Fog and Thunderstorms. Besides contributing towards the publication of Standard Operation Procedure for Public Weather Services.

Some of the important works include:-

- Development of mobile application named "Indian Weather" for Android smart phones/Tabs, for accessing current weather forecast on real time basis.
- Development of All India Nowcasting system for Fog
- Development of All India Nowcasting system for Thunderstorms "that facilitates the forecaster at MC/RMC's to generate forecast in Nowcast mode and display on the public portal on real time basis.
- Development of dynamic pages for the IMDs website for Doppler Weather radar Products

Currently he is working as a Scientist E in the NWP division of India Meteorological department.

Shri Rahul Saxena is awarded Certificate of Merit for his outstanding contribution in the field of Atmospheric Science & Technology.
Virendra Singh

Shri Virendra Singh obtained his M.Sc. (Physics) from the D.A.V. Postgraduate Degree College, Muzaffarnagar and M.Phil. (Physics) from the Institute of Advanced Studies, Meerut University. He began his carrier as a member of faculty in Physics Department of Sanjay Gandhi Memorial Degree College, Meerut from 1983-1984. He joined the India Meteorological department as Assistant Meteorologist in September 1984 and since then he has served IMD in various capacities and at presently holding a position of Scientist-E in Satellite Meteorology Division of India Meteorological Department, New Delhi. During the period he had served national council of Indian Meteorological Society (IMS) as Joint Secretary and treasurer and involved in organizing many National and International conferences. He has contributed in planning the capacity building activities of IMD and played a key role to set up weather radar station at Jaisalmer and two upper air (RS/RW) observatories at Manali and Sasoma for the project Parvat.

Shri Singh as Project Director has been instrumental for planning and coordinating the implementation of the projects such as Ground Receiving & Processing System for NOAA, Met-op & MODIS satellites at Delhi, Guwahati and Chennai stations and INSAT-3D Meteorological Data Processing System (IMDPS) at Delhi. He established the National Knowledge Network (NKN) link between IMD and SAC, Ahemedabad which enable exchange of satellite data on real time basis for operational purposes. He has also implemented the new wind algorithm developed by SAC, ISRO in IMDPS, New Delhi for derivation of quality Atmospheric Motion Vectors (AMVs) along with the dissemination of Oceansat-II scatterometer winds on GTS in BUFR format. He has served various technical committees such as INSAT-3D Payloads Comprehensive Design Review Expert Committee and Algorithm Theoretical Basis Definition (ATBD) of INSAT-3D and contributed immensely by providing relevant inputs for fine tuning of Scan strategy of payloads and processing algorithms.

He has been engaged in atmospheric Science research for the last 10 years, especially in the field of Satellite Meteorology. He has published ten research publications in renowned national and international Journals. He is actively involved in training activities of satellite Meteorology Division. At Present, he is involved in Receiving, Processing and Dissemination of Meteorological Data from Kaplana-1, INSAT-3A satellites on operational basis round the clock and about 98 to 99% operational efficiency is being achieved. Moreover, the IMDPS system is kept ready for processing all INSAT-3D satellite data.

Shri Virendra Singh is awarded Certificate of Merit for his outstanding contribution in the field of Atmospheric Science & Technology.
Gajendra Kumar

Shri Gajendra Kumar obtained B. Tech (Electronics & Communication Engineering) degree from National Institute of Technology, Warangal, Andhra Pradesh. He joined the India Meteorological Department (IMD) in 1998 as Meteorologist and has served efficiently in the field of Upper Air Instruments, Radars, Airport Meteorological Instruments, Seismological Instruments and Budget & Planning of the Department.

Shri Kumar has made significant contribution towards improvement of upper air data quality, which was being rejected and black listed for many years by leading Numerical weather Prediction (NWP) centers of the world. He successfully implemented the project as Project Director for establishment of GPS Upper Air systems, which led to the improvement in data quality & the model forecast. Improvement in data quality was also appreciated by the international meteorological community.

He has made significant contribution in the establishment of a broadband seismograph system at Portblair immediately after the disastrous tsunami generated by the Great Sumatra earthquake of 2004. He also implemented the software for quick retrieval of remote data from field stations to estimate the source parameters of the aftershocks of the Great Sumatra earthquake.

Shri Kumar has made exceptional significant contribution by conceptualizing the major Plan scheme Atmospheric Observations Systems Network. The scheme encompasses various programs in an integrated manner which provided the flexibility in implementation & monitoring and also ensured the continuity & augmentation of observations & enhancement of facilities required for the weather forecasting. This scheme forms the lifeline of IMD to deal adequately with the sustenance of observational networks covering Doppler Weather Radars (DWRs), Automatic Rain Gauges (ARGs), Automatic Weather Systems (AWSs), Upper air, surface and environmental observations etc. on 24x7 basis along with provision of adequate communication system for data & product transmission and maintenance of operational forecast system, conduct of special campaigns for improving Cyclone, Thunderstorm and Fog forecasting etc.

Shri Kumar has achieved noticeable success in systematic project planning of other proposals on Satellite Meteorology, Agro-meteorology, Aviation Services, Training in Operation Meteorology, Integrated Himalayan
Meteorology Programme etc. He also played a major role in defining the Results-Framework Document (RFD), Citizens/Clients Charter & Annual Plan for the Department. He has published research papers on the Atmospheric Sciences & Technologies.

At present he is working as Scientist D at Budget & Planning and Information System & Services at HQ, India Meteorological Department, New Delhi.

Shri Gajendra Kumar is awarded Certificate of Merit for his outstanding contribution in the field of Atmospheric Sciences & Technology.
Award for Best Employees
Group B (Gazetted and Non Gazetted)

Shri Lalmohan Jyoti

Shri Lalmohan Jyoti is working as Assistant Meteorologist, Grade II in Positional Astronomy Centre, India Meteorology Department, Kolkata.

He has been assigned with the work of preparation of Indian Astronomical Ephemeris, an annual publication of the Department containing data on positional coordinates of celestial objects and related astronomical phenomena.

As per specific need and requirement, he has developed and modified several computer programs with available updated methodology, adopting recent recommendations of International Astronomical Union and generated data with greater accuracy to publish in above publication. He has entirely engaged himself for the generation of most of the data of the book, further process of DTP composition work of the pages and printing of the book in advance.

He has also published a paper -- On the transit of Venus 2012 : Method of computation for prediction of contact timings (MAUSAM, 63,1 (January 12), 113-122).

Shri Santanu Choudhury

Shri Santanu Choudhury obtained his B.Sc. in Physics and M.Sc. Physics with specialization in Electronics from Gauhati University. Shri Santanu Choudhury joined India Meteorological Department as Senior Observer in 1988 at Meteorological Centre, Agartala and since then working in different offices of the IMD including independent charges of Airport Meteorological Station at Barapani (Shillong, Meghalaya) and Lengpui (Aizwal, Mizoram). Presently he is working as Scientific Assistant in the Establishment Section of IMD, New Delhi. He is handling the recruitment process of most important feeder cadre post of Scientific Assistant along with other feeder cadre posts. About 270 new direct recruit Scientific Assistant have already joined out of 433 candidates. Such a direct recruitment of such a huge volume in one single cadre is held first time in IMD and Shri Santanu Choudhury is handling the same very efficiently. In addition, he also performed the works related to abolition of direct recruit posts in different cadres as per ADRP Scheme. By applying his technical knowledge, he meticulously identified the posts of Scientific Assistant for abolition and station-wise redistribution of the rest.
Shri Ashish Dhakate

Ashish Dhakate obtained his Bachelors Degree in Engineering (Electronics) from Nagpur university and M.Tech (Atmospheric Sciences) from University of Pune. He joined Indian Institute of Tropical Meteorology (IITM) in year 2004 as Senior Scientific Assistant, was promoted as Junior Scientific Officer in the year 2009 and is at present working as Scientific Assistant Grade -C. He has been an active member of various sponsored projects. He has co-authored 10 research papers in peer reviewed international journals. He is at present actively involved in Institutes ambitious project Development and Improvement of System for Seasonal Prediction of Monsoons. He has significantly contributed in performing various model experiments using the state of the art CFSv2 model at IITM for Seasonal Prediction of Indian Summer Monsoon.

Shri Dixit Prakash Waman

Shri Dixit Prakash Waman joined Indian Institute of Tropical Meteorology on January 1981 as Junior Technical Assistant and currently working as Technician Grade - F. He is having knowledge of FORTRAN and COBAL programming languages. He was one of the authors of scientific paper entitled Monsoon 1999: Diagnostic and Model simulation studies. He is looking after the maintenance of desktop and other IT peripherals and he has introduced a utility for registration of complaints related to IT equipment. He is involved in the field work of CAIPEX Phase II Project. During 2003 to 2009 he also functioned as Head, Purchase and Store Division and Transport Cell of the Institute.

Ms. Ajithakumari M.N.

Ms. Ajithakumari M.N. joined Central Government Service on 29.09.1994 and was posted to CMLRE (erstwhile Sagar Sampada Cell) on 28.11.1995. She is entrusted with the Accounts work of CMLRE. She is one of the most dedicated employee of the Ministry. For her, work is worship. Her utmost dedication ensures the smooth functioning of the Centre for Marine Living Resources and Ecology. She is ever willing to sort out any difficulty encountered by her colleagues.
Shri Syed Mahaboob Moinudeen

Shri Syed Mahaboob Moinudeen joined Indian National Centre for Ocean Information Services (INCOIS) in August 2007 as Scientific Assistant and currently working as Scientific Assistant B in Advisory Services and Satellite Oceanography Group (ASG) of INCOIS.

Shri S.M. Moinudeen was involved in the establishment of National Tsunami Early Warning System (NTEWS) components and in setting up of INSAT hub system comprising 6.3m MSS and 3.8m DRT terminals for NTEWS. He also contributed in maintaining the communication part of Satellite Data Processing and Acquisition System (SDAPS) and the ground station that receives data from NOAA, AQUA, TERA and METOP series of satellites every day. He contributed to the project on modernization and expansion of tide gauge network by installing INSAT and GPRS transmitters on them for real time transmission of data to INCOIS.

Shri S.M. Moinudeen contributions stand out in the indigenization of communication systems for observing systems and their integration with INSAT. He developed a prototype system for INSAT based two way communication systems with ships. He also worked on the integration of the standalone Automatic Weather stations (AWS) with INSAT transmitter to received data in real time.

Shri S.M. Moinudeen was instrumental in solving the interfacing issues with Seismic records (Reftek, Gurlap, Quantera) & VSAT. He also solved the data acquisition issues with the interfaces and rectified the routing issues arising between the LANs of INCOIS, IMD and ISR. He also solved the interconnectivity issues between the systems and ensured smooth flow data from Integrated Seismic GPS/GNSS Network data centre to regional centres at NGRI, Hyderabad, ISR Gandhinagar and NEIST, Jorhat. As part of ISGN project, he was also involved with the installation and commissioning of a GNSS reference statation and VSAT at INCOIS.

Ms. P. Santhi

Ms. P. Santhi, has been working in ICMAM Project Directorate, an attached office of Ministry of Earth Sciences, Chennai, since 1998. She is presently working as Personal Assistant and providing assistance in implementation of various projects/grants-in-aid programmes of ICMAM Project Directorate. She is also assisting in organizing various meeting/workshop and Training Programmes of ICMAM-PD. She involved in
procurement of satellite data, topsheets, Laboratory equipment, spares, consumables etc. She is sincere, highly devoted and delivers high quality and reliable outputs to the organization.

Ms. Sarita Honavarkar

Ms. Sarita Honavarkar, has been working in National Centre for Antarctic & Ocean Research (NCAOR), Goa since June 2000. She is presently working as Senior Executive (Admin). She is handling all the General and Establishment matters efficiently. She also assists the Administrative Officer of the Institute in all the administrative matters. She is sincere, highly devoted and delivers high quality and reliable outputs to the organization.

Smt. J. Mary Leema Thilakam

Smt. J. Mary Leema Thilakam is a Post Graduate in Aquaculture from Wageningen Agricultural University, The Netherlands. She is also a recipient of Wageningen University Merit Fellowship during her post graduate course. At present she has submitted her Ph.D thesis in the topic entitled Heterotrophic production of xanthophylls carotenoids from *Chlorella minutissima* and awaiting for the final *viva - voce* for the award of the degree from Pondicherry University. Her present research interest is towards production of high value pigments like lutein from marine microalgae. In this process she has isolated several rare marine microalgal strains from various environments like salt pans, mangroves and brackishwaters and made them unialgal. She has also developed the novel heterotrophic culture for few of the marine microalgal strains. Her significant contribution includes optimization of mass culture medium for marine microalgae which has profound effect in reducing the production cost. She has also authored twelve research papers in peer reviewed National and International Journals of which one of them entitled High value pigment production from *Arthrospira platensis* cultured in seawater published in Bioresource Technology journal received wide acclamation from worldwide experts and good citation index for few of its novel concepts. She had also served approximately 4½ years at the field centre of NIOT in Andaman and Nicobar Islands. During her tenure in the Andaman and Nicobar Islands she isolated several marine microalgal strains from the pristine Andaman waters which later turned out to be potential producers of lutein.
Smt. K.R. Anuradha

Smt. K.R. Anuradha joined the services of National Institute of Ocean Technology (NIOT) on 10th February 1997. Joining as Junior Assistant she has more than 16 years of experience in NIOT to her credit. Initially she was detailed to handle indigenous as well as import procurement in Stores & Purchase Section. In this branch she systematically handled major imports for important national projects like OTEC, IKS, JP Kenny, etc. Later, becoming an Assistant in 2001 on direct recruitment she had to independently manage opening of Letters of Credits for import items, processing for making payment to foreign suppliers through Wire Transfers, co-ordinating with the Clearing & Forwarding agents for clearing equipments from the customs, co-ordinating with the bankers and the like in addition to reconciling the stock and stores. Moving to Establishment & Personnel Section in the year 2002, she was assigned recruitment work of regular and contract posts, personnel matters like probation, promotion, service records, leave, LTC, etc.. As a Junior Superintendent from 2005, she is now responsible for implementation of the entire gamut of establishment and personnel initiatives of MoES and NIOT. As a Quality Manager for ISO, she has been taking extra care to adhere to the standards set, train the subordinates to work with confidence and to automate the Section.

Shri Pradip Kumar Sen

Shri Pradip Kumar Sen is working in Integrated Finance Division of the Ministry as Assistant. He possess vast and excellent knowledge of the Finance Rules, Regulations and Guidelines of the Finance Ministry/CVC. He examines all the financial proposals of the Ministry according to the Financial Rules & Regulations for obtaining concurrence of higher authorities. He is very resourceful of handling normal as well as unforeseen situation and also very keen to take additional responsibilities.
Group C

Shri J.K. Dudhane

Shri J.K. Dudhane is working as Carpenter Grade I in Office of Dy. Director General of Meteorology, India Meterology Department, Pune.

He was associated in installation of three Automatic Weather Station (AWS) at Sheshnag, Panjtarni and Holy cave during Shri Amarnathji Yatra 2012 & 2013. He possess excellent carpentry skill in addition with good knowledge of assembling and testing computers. He is involved in making Stevensons Screen (small and large) for all surface IMD observatories across India.

He is specialized in making of wooden boxes for packing of Instruments like Raingauge, Wind Vane, Anemometer, OPE Tanks etc. for onward transportation to all surface observatory network stations and also to Antarctica.

He is associated with installation of Digital Distant Indicating Wind Equipment (DIWE) and HWSR stations at various Airports, Ports and coastal stations.

Ms. Ashwini P. Bhujbal

Ms. Ashiwni P. Bhujbal joined Indian Institute of Tropical Meteorology as Jr. Executive in June 2006 and presently working as Executive in Accounts section of the Institute. She is efficiently handling all the matters related to income tax of employees and contractors. She was instrumental in registration of the Institute to Department of Sales Tax for E-Service of PTRC and TAN to TDSCPC for E-Services. She also contributed in computerization of salary expenses for all the schemes of the Institute. She also takes care of the payments against all the local purchases. She also handles the NPS contribution of the employees of the Institute.
Shri B. Kishore Kumar

Shri. B. Kishore Kumar, joined the Centre for Marine Living Resources & Ecology (CMLRE), Kochi on 01 November 2004. Prior to this, he had worked with the Indian Coast Guard for 13 years in the telecommunication wing. He has been instrumental in CMLRE for looking after the Information Technology, FORV Data Centre and the Marine Museum. He is also entrusted with duties associated with the implementation of Marine living Resource Programme, namely, Indian Ocean Biological Information System, Census of Marine Life, Benthic Centre and Research & Development. He is also in-charge of stores and manages single-handedly all activities of the stores. He is responsible for coordinating all logistics requirements for the FORV Sagar Sampada programmes. He is also responsible for coordinating CMLRE stalls for various exhibitions and fairs.

He is a graduate in Information Technology, holds diplomas in telecommunication and Human Resource Management and a qualified Health & Safety professional.

Shri Kennedy C. Sequeira

Shri Kennedy C. Sequeira has been working in National Centre for Antarctic & Ocean Research (NCAOR), Goa since July 1996. He is presently working as Junior Executive (Admin). His present duties are Cash handling, cash disbursement, TDS related work, processing of payment file for release of payment, data entry of all vouchers in Tally Accounting Software. He is also handling all the estate related matters of the Institute efficiently. He also assists the Finance Head of the Institute in accounts matters. An asset to the Institute, whose interpersonal relationship with peers and superiors is exemplary and praiseworthy.

Shri Chithiravel Jothi

Shri Chithiravel Jothi joined National Institute of Ocean Technology (NIOT) as a Skilled Assistant in 2004 and presently working as Technician Grade B in Submersible and Gas Hydrate Group of NIOT. He has contributed significantly in the assembly, integration and commissioning of two major projects namely Remotely Operable Submersible (ROSUB 6000) and Autonomous Coring System (ACS). As a mechanical technician his assignments range from metal fabrication works, handling pressure case assembly, sub-component integration, hydraulic systems testing to launching and recovery of submersible in the oceans. He
has participated in all the sea trials of ROSUB 6000 and ACS and involved in all onboard activities during various sea trials since 2004. From the launching of ROSUB 6000 at 205 metres in the Arabian sea, recent hydrothermal sulphide exploration in Triple Ridge region and to design depth qualification sea trial at Central Indian Ocean at a depth of 5289 m, he has been a key player in the successful explorations using ROSUB 6000.

Shri C. Jothis contributions in trouble shooting of ROSUB and ACS systems at NIOT and onboard the research vessel at high seas is highly appreciable. His courage and skill proved to be vital for the successful preparation, operation and troubleshooting of ROSUB 6000 and ACS operations even in the times of extreme weather conditions.

**Ms. S. Vasanthi**

Ms. S. Vasanthi has been working in National Institute of Ocean Technology (NIOT), Chennai since 1997 for the past 16 years. She is presently an Executive and worked in the nodal Sections Establishment and Personnel Section for six years and Stores and Purchase Section for ten years. She was the first employee to enter into the newly formed E&P Section in 1997 and contributed towards recruitments activities by systematic planning and organised for the smooth functioning of all the meeting of the Screening/Selection Committee She could handle efficiently the section and all the Personnel files, increments, service books, leave was maintained in database and also effective mechanism for timely follow-up. She was also involved in development of present NIOT Campus in Pallikaranai which could be completed in record of eighteen months by adopting suitable purchase procedures.

Currently she is working in Stores and Purchase Section for more than ten years. She has handled Institutes major projects such as 1MLD Barge Mounted Offshore plant at Ennore and Tuticorin and it could be completed in time through her effective contribution in all purchase related matters. Some of the major contribution includes prioritisation of purchase files based on project objective, ISO quality maintained and improved the purchase procedures. The other major action of her was assisting the Member Secretary of Stores Works Committee for five year and finalisation of Committee Minutes. She was also involved in the Stores activities relating to Physical Stock Verification Committee, Stores Condemnation Committee Meeting, Disposal Committee, Asset Codification and Maintaining Dead Stock Register and related Inventory management.
Shri Santosh Prasad

Shri Santosh Prasad is working in Office of the Advisor & Scientific Secretary (ESSO) of the Ministry as UDC. He processes the files on Survey and Expoloration, Extractive Metallurgy, Mining and EEZ and ensure the timely release of funds to our Institutes/National Laboratories. He is also involved in preparation of Annual Report 2012 on PMN activities, which is submitted to International Seabed Authority, Kingston, Jamaica. He has also contributed in preparation of document on filling of application to International Seabed Authority for approval of a plan on work for exploration of Polymetallic Hydrothermal Sulphides. He is contributing in preparation of Agenda Notes, Action Taken Notes, Meeting Notices and Minutes of Meeting of ESSO Council meetings. His expertise in complex scientific calculation involving large tabular data is proved to be of immense help and contributed significantly during the preparation of various statements/reports. He executes his day to day official work in a systematic manner and has exhaustive knowledge about all the subjects and files/papers of the section. In unforeseen situations, he has shown commendable presence of mind and completed the task successfully.

Shri Bhagwan Singh

Shri Bhagwan Singh is working as Staff Car Driver and was attached with former Secretaries besides other senior officers. In addition to carrying out duties of staff car driver, he has been instrumental on various occasions in achieving the activities of the Ministry. He also handled various other official work as assigned to him from time to time.

Ms. Neha Sharma

Ms. Neha Sharma, is working as Junior Hindi Translator in Hindi Section of the Ministry. She was instrumental in timely submission of Hindi version of all the important documents like Cabinet Note, Parliament Questions, Annual Report, Outcome Budget, etc. In the absence of Asst. Director (OL), she had taken the responsibility of assisting the Parliamentary Sub Committee on Official Language in respect of their inspection of the Subordinate/Attached/Autonomous Institutes of the Ministry. She is extremely sincere and performs her duty with utmost devotion. Her service has been of highest order.
Shri Surendra Singh Rawat

Shri Surendra Singh Rawat is working in Establishment Section of the Ministry as UDC. He maintains the service records, leave & LTC records of all the employees of the Ministry and its subordinate/attached offices. He is also involved in preparation of Hindi quarterly report of the Establishment Section. He can handle work of Establishment section with his vast experience in any unforeseen situation and also can shoulder additional responsibilities.

Multi Tasking Staff

Shri Avik Dey

Shri Avik Dey is working as Meteorological Attendant in DGM Secretariat of India Meteorological Department. His Routine work includes distribution of dak/files, operation of photocopier, fax, file tracking etc. Shri Dey handles various computer peripherals, LCD projector and electronic gadgets in DGM Sectt. and conference room. Shri Dey also assists in arrangements and providing logistic support for various meetings including high level meetings and handles inter-ministerial/departmental dak.

Shri Avik Dey has very good knowledge of the routine work and is well conversant with computer related work including typing, e-mail handling etc. & takes keen interest in handling electronic gadgets. He is extremely sincere and performs his duty with utmost devotion even beyond normal office hours. His service has been of highest order.

Shri Sunil V. Raut

Shri Sunil V Raut is working as Multi Tasking Staff in Indian Institute of Tropical Meteorology. He is presently posted at Accounts Section of the Institute. He is working as a Cashier Assistant and also handles the movement of letters and files in the Accounts Section. He also maintains all the records of Accounts Section of the Institute. He is a hard worker and his service has been of highest order.
Shri K.K. Divakaran

Shri K.K. Divakaran, joined in Centre for Marine Living Resources and Ecology (CMLRE) in February 1994. He is posted to the Administration Division of CMLRE. His dedication and sincerity are exemplary. By taking on additional responsibilities demanded by circumstances, he has become an excellent role model for officials of his category.

Shri Kishor Jadhav

Shri Kishor Jadhav is working as Multi Tasking Staff in National Centre for Antarctic and Ocean Research (NCAOR). He handles various day-to-day activities viz. Despatch Rider, Bank duties and other office duties. He is always present and ready to take tasks that require ingenuity and knowledge.

Shri M. Vinodh Kumar

Shri. M. Vinodh Kumar has been working in National Institute of Ocean Technology since 7th February 1997 and a part of the team in establishment of National Data Buoy Programme in 1997. He has actively participated in cruises and has assisted in buoy deployments/retrievals including the maiden buoy deployment at off-Chennai during Aug 1997. He has also assisted onboard testing, preparation of moorings and logistic activities like loading and unloading of cruise materials. He is involved in both administrative and technical support activities of OOS.

More recently, he has been involved in the successful implementation of bar code based OOS stores management system, which was introduced for the first time in NIOT and comprises of more than 600 different electronics/mechanical buoy components and sub components management. He is actively involved in various programmes including Students Autonomous Underwater Vehicle (SAVe) competition, scientific conferences, seminars, workshops, technology day etc.
Shri Nanak Chand

Shri Nanak Chand is working as Multi Tasking Staff in the R&l Section of the Ministry. He is handling all the work related to distribution of dak/files received at R&l Section of the Ministry. He performs his work very meticulously and efficiently. He also attends various General Administration work even after the office hours. He also does laborious work during various meetings/seminars etc. held. He is very hard working, laborious and outstanding and always keen to learn more and new things.

Shri Jagpal Singh

Shri Jagpal Singh has been working with Ministry since 1996. He has rich exposure of working with various officers/Sections of the Ministry viz. Joint Secretary, Protocol Section. At present he is posted as Multi Task Staff in Personal Branch of the Joint Secretary of the Ministry. He is handling all the work related to distribution of dak/files, operation of photocopier, fax and also attends to any other work assigned to him. He performs given task promptly and efficiently. He is well-versed with his sphere of work. He is willing and hard worker who gets along with fellow employees well.

Shri Rakam Singh

Shri Rakam Singh is working as Multi Tasking Staff in the Cash Section of the Ministry. He is instrumental in timely release of the payments by Cash Sections by submitting the same with Pay and Accounts Office (PAO) of the Ministry and collection of Cheques from the PAO. He also assists the Cashier in day to day work. He also distributes the dak/files of the Cash Section. He is a hard worker and his service has been of highest order.
Earth Day Celebrations 2013
Winners of Drawing & Painting Competition
Earth Day Celebrations 2013
Winners of Drawing Competition

Level I (Class V and below)

Ist Prize, Shri Shubam Butola, Vth Standard, Shri Guru Ram Rai Public School, Gairsain, Uttrakhand

IInd Prize, Shri Sanchit Das, IVth Standard, Venkateshwar International School, Dwarka, New Delhi

IIInd Prize, Ms. Seema Bansal, Vth Standard, R.K. Jain School, Gohana, Sonipat, Haryana

Illrd Prize, Ms. Ankita Parashar, Vth Standard, Aura English Academy, Guwahati, Assam

Level II (VI th to Xth Standard)

Ist Prize, Ms. Tiyasa Mallick, VIIIth Standard, Ramakrishna Vidyashram Girls High School, Hoogly, West Bengal

IInd Prize, Shri Nitish Agrawal IXth Standard and Ms. Rupali Goel, Xth Standard, Vishwa Bharati Public School, Noida. UP

IIIrd Prize, Ms. Shweta, Xth Standard, Sulabh Public School, Mahipalpur, Delhi

Level III (XI th to Graduation)

Ist Prize, Ms. Meenakshi, XIIth Standard, K.M. Public School, Bhiwani Haryana.

IInd Prize, Shri Rohit, XIIth Standard, ST. Angels School, Rohini, Delhi

IIIrd Prize, Ms. Bertino. C, XIIth Standard, St. Joseph Convent Higher Secondary School, Nagercoil, Tamil Nadu
Previous Awardees
Previous National Awardees

National Award for Ocean Science & Technology

Year 2004 : Dr.S.Z.Qasim  
Year 2005 : Prof. M.Ravindran  
Year 2006 : Dr.B.L.Somayajulu  
Year 2007 : Dr. A.E.Muthunayagam  
Year 2008 : Dr. Harsh K. Gupta  
Year 2009 : Dr. George Joseph  
Year 2010 : Prof. S. Krishnaswami  
Year 2011 : Dr. B.L. Deekshatulu  
Year 2012 : Dr. Satish Ramnath Shetye

National Award for Atmospheric Sciences
(Started from the year 2007)

Year 2007 : Shri D.R.Sikka  
Year 2008 : Prof. Sulochana Gadgil  
Year 2009 : Prof. Shishir Kumar Debe  
Year 2010 : --  
Year 2011 : Prof. R.N. Keshava Murthy  
Year 2012 : Prof. J. Srinivasan

Awardees of certificate of merit and best employees - 2012

Certificate of Merit for Scientists/Engineers in Ocean Science & Technology

1. Dr. Manish Tiwari, National Centre for Antarctic & Ocean Research, Goa.

2. Dr. V. Ranga Rao, PD-Integrated Coastal Marine Area Management, Chennai.

3. Dr. Basanta Kumar Jena, National Institute of Ocean Technology, Chennai.

4. Shri Venkat Seshu Reddem, Indian National Centre for Ocean Information Services, Hyderabad.
Certificate of Merit for Scientists/Engineers in Atmospheric Science & Technology

1. Dr. Ashisk Kumar Mitra, National Centre for Medium Range Weather Forecasting, Noida
2. Dr. S.D. Pawar, India Institute of Tropical meteorology, Pune
3. Dr. Kripan ghosh, India Meteorological Department, Pune
4. Dr. Ashok Kumar Das, India Meteorological Department, New Delhi.

Best Employees

Group B

1. Shri Debajyoti Bhattacharya, India Meteorological Department, Pune
2. Shri Vipin R. Mali, Indian Institute of Tropical Meteorology, Pune
4. Smt. Hema Rawat, National Centre for Medium Range Weather Forecasting, Noida
5. Shri Shijo Zacharia, National Institute of Ocean Technology, Chennai
6. Shri Suresh Ganti, Indian National Centre for Ocean Information Services, Hyderabad
7. Shri Bhikaji Laxman Redkar, National Centre for Antarctic & Ocean Research, Goa.

Group C

1. Shri I.A. Pathan, Indian Institute of Tropical Meteorology, Pune.
2. Shri J.M. Sinha, India Meteorological Department, New Delhi
3. Shri Rajnish Kumar, Ministry of Earth Sciences, New Delhi
4. Shri Bhawesh Kumar, Singh, Ministry of Earth Sciences, New Delhi
5. Smt. R. Rathikumar, National Institute of Ocean Technology, Chennai
6. Shri K. Ashok Kumar, National Institute of Ocean Technology, Chennai
7. Smt. Reena S. Naik, National Centre for Antarctic & Ocean Research, Goa.
Multi Tasking Staff

1. Shri S.M. Thorve, Indian Institute of Tropical Meteorolgoy, Pune
3. Smt. Santosh, Ministry of Earth Sciences, New Delhi
4. Shri Shiv Kumar, National Centre for Medium Range Wether Forecasting, Noida.
5. Shri K. Anandan, National Institute of Ocean Technology, Chennai
6. Shri Umesh Halarnkar, National Centre for Antarctic & Ocean Research, Goa.
7. Shri Agathiyam, PD- Integrated Marine Area Management, Chennai
8. Shri Ashok Kumar, India Meteorological Department, New Delhi

Winners of Drawing Competition in Earth Day Celebrations - 2012

Level One (1st to 5th Standard)

2nd Prize -- Rishabh Shrivastav, IVth Standard, Mount Abu Public School, Rohini, Delhi
3rd Prize -- Saumya Katariya, IVth Standard, Mount Abu Public School, Rohini, Delhi

Level Two (6th to 10th Standard)

1st Prize -- Sarnyata D Junghare, IXth Standard, J.N.V., Chandrapur, Maharashtra
2nd Prize -- Abirami Raj, VIIth Standard, Raisina Bengali School, New Delhi.
3rd Prize -- Aniket Mitra, VIIth Standard, Mount Abu Public School, Rohini, Delhi.

Level Three (11th to Graduation)

1st Prize -- Tirthak Saha, ICAS, Manipal Institute of Technology (MIT), Manipal.
2nd Prize -- Asim Abbas, 3rd Year, B-Tech (Civil), Al-Falah School of Engineering and Technology, Faridabad.
3rd Prize -- Yogesh Ramesh Pawar, Xlith J.N.V., Satara.