

Curriculum Vitae of Prof. S. K. Dash

Personal Information

Name & Designation : **Dr. SUSHIL KUMAR DASH**
Professor and Head

Address (Office) : Centre for Atmospheric Sciences
Indian Institute of Technology Delhi
Hauz Khas, New Delhi 110016

Email: skdash@cas.iitd.ernet.in

Date and Place of Birth: August 9, 1948 in India

Educational Qualifications: **Ph. D. (Physics)** from Physical Research Laboratory, India. Thesis written on the Stability Analysis of Indian Monsoon.

Experience : About **38 years** in Teaching & Research

Research & Development Activities

R & D Projects: Handled more than **25 sponsored scientific projects**
(both national & international)

Books Authored:

Climate Change: An Indian Perspective, 2007: Cambridge University Press India Pvt. Ltd. & Centre for Environment Education, 262p. S. K Dash.

Books Edited:

Assessment of Climate Change in India and Mitigation Policies, 2003: World Wide Fund for Nature – India, 264p. Eds. S. K. Dash and Prakash Rao

The Himalayan Environment, 1999: New Age International (P) Limited, 347p. Eds. S.K. Dash and J. Bahadur

Technology transfer:

A parallel spectral General Circulation Model (GCM) at resolutions T21L05, T42L09 and T63L09 had been developed for the parallel computer **CHIPPS-192** indigenously built by the Centre for Development of Telematics (**C-DOT**). The parallel computer along with the parallel spectral GCM was transferred to **Indian Institute of Tropical Meteorology, Pune** for Monsoon Variability and Climate Modelling Studies as per the instruction of the Department of Science and Technology (DST), Government of India. The above spectral GCM at resolutions T21L05 and T42L09 was also installed on **PARAM OpenFrame** at the Centre for Development of Advanced Computing (**CDAC**), **Pune**.

Research Publications:	Total:	96
	Journals/books:	80
	Conference Proceedings:	16

Other Papers:

Presented in Conferences: 57 Occasional Papers: 26

Number of Ph.D. Students Supervised: Completed: 9 On-going: 5

Number of M.Tech./M.Phil./MCA Students Supervised: 7

Research Topics of Interest:

- (a) Inter-annual Variability of Indian Summer Monsoon
- (b) Climate Modelling and Climate Change Studies
- (c) High Performance Computing in Environmental Sciences

Workshops and Seminars Organised: Twelve

Popularization of Weather & Climate Science:

- (i) Write popular science articles mostly in the native Oriya language
- (ii) I have been involved with a programme named “PROBE” initiated and funded by the Department of Science and Technology, Government of India. This programme commenced in 2003 as a pilot project in some Government Inter Colleges (GICs) in Uttarakhand. The main objective of this programme is to educate the school children about the weather and climate through their active participation in terms of regular measurements of the weather parameters and examination of their day-to-day variations. For that purpose, meteorological laboratories are set up in several schools in states like Uttarakhand, Delhi, Orissa, Tamilnadu and West Bengal. This programme will also generate meteorological data across the whole country which may be used in research and operational forecasting in future depending on the quality of the data recorded.

Teaching

Curriculum Development: Developed a course on ‘**Atmospheric Physics**’ for the students of M. Sc. at IIT Delhi.

Special Recognitions

- Senior Associate:** Climatology & Meteorology, Abdus Salam ICTP, Trieste, Italy (1999-2004, 2005-2011).
- Member:** The National Academy of Sciences, India
- Member:** American Meteorological Society, USA
- Member:** EU-India Grid project Advisory Board
- Member:** National Executive Council, Indian Meteorological Society
- Member:** Editorial Board, Vayumandal (Bulletin of the Indian Meteorological Society) 1997-99.
- Member:** AOGS
- TPSC award** Speaker under Theoretical Physics Seminar Circuit Program of DST for 1990-91.
- President** : Indian Society for Earth, Planetary and Environmental Sciences (ISEPES)

Dr.A.D.Vernekar Award: Indian Met Society for best published paper

- Fellow** : **Indian Meteorological Society**
- Fellow** : Royal Meteorological Society, UK.