



National Award for Atmospheric Science & Technology

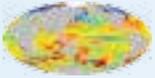
Prof. P.V. Joseph



Prof. Porathur Vareed Joseph was born in Kerala on 29 December 1932. He completed Master's degree in Physics in 1953 from the University of Madras. In 1957, he joined the India Meteorological Department (IMD). During the first five years he was posted at Colaba and Alibag Observatories, Bombay where he did research in geomagnetism. Subsequently, he carried out operational weather forecasting during the following sixteen years at several centres in India, in the fields of aviation meteorology, cyclone warning etc. In the next ten years he was Director of the Meteorological Training School of IMD / WMO at Pune, where he taught Tropical Meteorology and Weather Prediction to over 500 persons from India and the neighbouring countries. In 1983 he obtained PhD degree in Physics from the University of Poona for research on monsoon variability, done under the guidance of the eminent scientist and scholar Prof. R. Ananthakrishnan. After taking voluntary retirement from IMD in 1989, Joseph took up various assignments in India and USA. During the recent 18 years, Dr Joseph was also UGC Visiting Professor / Emeritus Professor at the Department of Atmospheric Science of the Cochin University of Science and Technology where he did teaching of MSc and MTech courses and research in collaboration with the faculty and PhD students.

His important research contributions included the discovery of a low level Jetstream in monsoon, role of north Indian ocean on monsoon onset and active-break phases, SST-Convection relationship, development of a model for dust-storm (called locally Aandhi), role of mid-latitude westerlies and Rossby waves on monsoon variability, role of the ocean mixed layer depth in the intra-seasonal variability of Asian summer monsoon and on the mechanisms of the decadal variability of Asian summer monsoon and instability in the ocean-atmosphere system that is responsible for frequent monsoon droughts.

Joseph has done original research for five decades in Tropical Meteorology (Monsoons, Cyclones and Thunderstorms), Climate Change and Ocean-Atmosphere interaction. He has 70 research publications (40 of them in peer reviewed scientific journals). In 1978, for original research in Atmospheric



Physics and Hydrology, he received the Hari Om Ashram Prerit Dr. Vikram Sarabhai Research Award. In 2012 Joseph was the recipient of the Swadeshi Science Puraskaram and also of felicitations on the IMD Foundation Day. Dr Joseph was an active participant of several meteorological working groups and field experiments, both national and inter-national. Dr Joseph is a Fellow of Indian Meteorological Society, Member and two term President of Ocean Society of India and an Emeritus Member of the American Meteorological Society.

In recognition of his outstanding contribution to Atmospheric Science & Technology, the Ministry of Earth Sciences honors Prof. P.V. Joseph with "National Award in Atmospheric Science & Technology" for the year 2016.