

Indian Climate Research Programme

- Initiated the Indian Climate Research Programme (ICRP). Prepared a science plan and an implementation plan. A Project Advisory and Monitoring Committee (PAMC) and an inter-departmental committee (IDC) were constituted for overall co-ordination of this national programme.
- Initiated the analysis of weather and climate data from ground-based, ship-based and satellite based measurements.
- Initiated studies on the development and testing of coupled ocean-atmosphere model for climate and monsoon diagnostic studies using General Circulation Models (GCM).
- Prepared a science plan and an implementation plan to organize a multi-institutional, coordinated field programme on `Bay of Bengal and Monsoon Experiment (BOBMEX)`.
- Successfully implemented BOBMEX during 1998 (Pilot) and 1999 (Main). Time series measurements on atmospheric and oceanographic parameters were monitored using two oceanographic research vessels and met-ocean Buoys. These observations were supplemented by the surface and upper-air observations taken by the east-coast weather network of India Meteorological Department. About 80 scientists from 15 organizations participated in this national experiment. Based on the analysis of Pilot study data, twelve research papers were published.
- The quality checked BOBMEX data sets were made available to the scientific community for detailed analysis to understand the physical processes associated with the Monsoon variability.
- Initiated studies to identify the climate component of agricultural production, meteorological extremes, global warming, climate change, etc.

- Organized a Brainstorming session on 'Meteorological extremes and local climate variability' and workshop on BOBMEX-Pilot results at IIT, Delhi and BOBMEX-Initial results at NIO, Goa.
- Prepared a Science Plan to organize a multi-institutional, co-ordinated field experiment on 'Arabian Sea Monsoon Experiment (ARMEX)' and initiated the preparations to organize the ARMEX during 2002.
- Prepared a technical paper on 'Scientific and Technological aspects of Forest Fire and Transboundary Haze Pollution'.