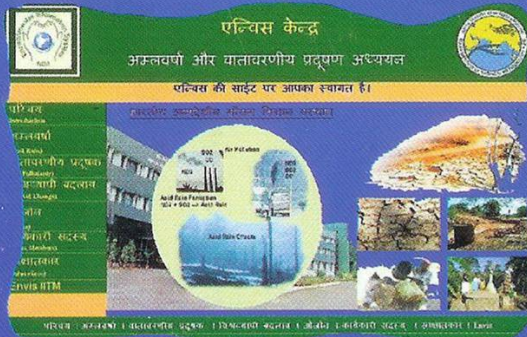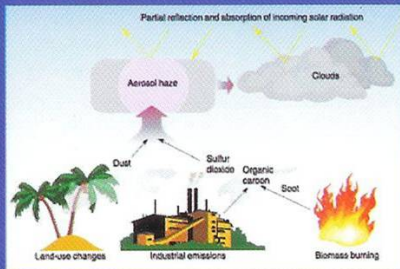## Pollution information in Marathi & Hindi

To Promote the awareness of air pollution related issues for a common person and society, a much needed ENVIS websites in regional language (Marathi) and Hindi have been launched. Please visit these URLs for details:

http://envis.tropmet.res.in/marathi.htm
http://envis.tr opmet.res.in/hindi.htm

Kid's Corner

To explain the basic aspects of air pollution, climate change and acid rain in a simple language with visuals and animations, we have a link in the ENVIS site (Kids Corner), which has been made colorful. The information related to climate and weather, in the form of questions and answers has been added. Answers of some basic and fundamental curiosities like why and how pollution can affect our lives, can be found here.

http://envis.tropmet.res.in/kidscorner.htm/

IITM-ENVIS Centre

The potential for ENVIS at IITM on the subject area "Acid Rain and Atmospheric Pollutant Modeling" was initially recognized in 2003 by Ministry of Environment and Forest (GoI) who has established a node in 2003 which has been converted to a Center in February 2005. The current ENVIS website at IITM (http://envis.tropmet.res.in) includes information and database about acid rain, atmospheric pollution and atmospheric Chemistry, in elaborated and simple language, which is supported by some interactive sessions, graphics and animations. Major aim is to furnish and disseminate the information through various means like periodic newsletter, papers in journals, CDs, etc. The issues related to emissions of atmospheric pollutants are the key to understand the air pollution problems. National level inventories of green house gases provide a base line from which nation may develop their future emission strategies to streamline the anthropogenic activities. Our databases also include this emission inventory information for India. One such example for black carbon emission over Indian region for present time in Gg/year is depicted on the front page for each district using GIS modeling at IITM.
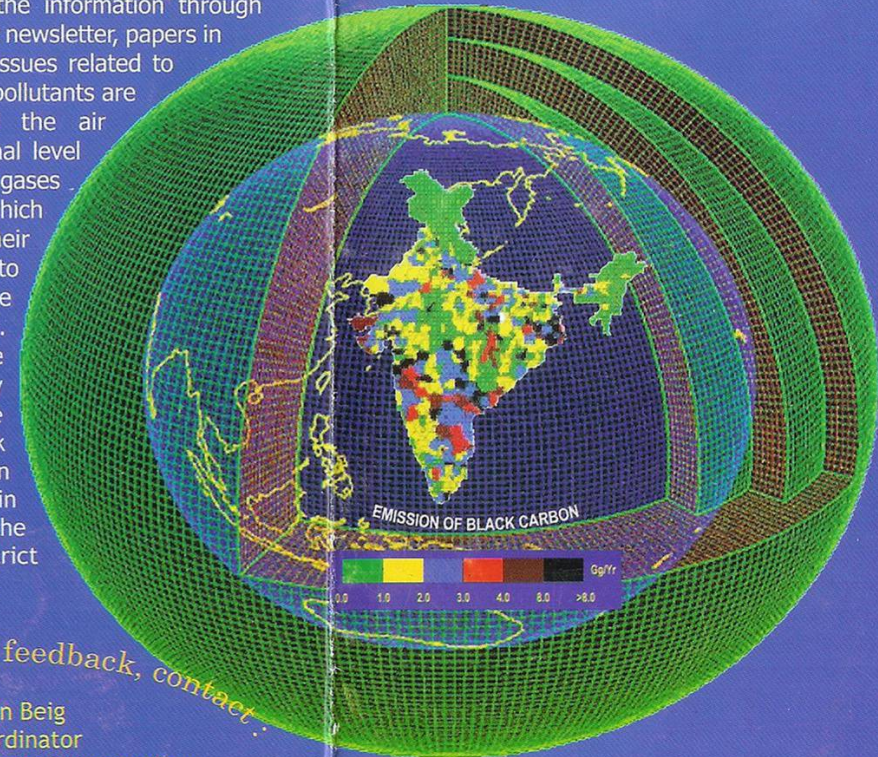
For all queries and feedback, contact.

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URL: http://envis.tropmet.res.in/

ACID RAIN AND ATMOSPHERIC POLLUTANT MODELING

ENVIS

ENVIRONMENTAL INFORMATION SYSTEM

(A Project of the Ministry of Environment and Forest)


EMISSION OF BLACK CARBON

INDIAN INSTITUTE OF TROPICAL METEOROLOGY
PUNE-411 008

Sustainable Development Network Programme (SDNP) on 'Climate Change'

IITM Pune is hosting the SDNP on Climate change. SDNP India aims to facilitate the process of sustainable development, promote good practices and strengthen the democratic processes through a mechanism of information exchange between the government and research organizations, NGOs, business establishments and the civil society over the electronic and hybrid media. Information exchange is therefore an essential component of SDNP. It is funded by Indo-Canadian environmental facility & managed by MoEF.
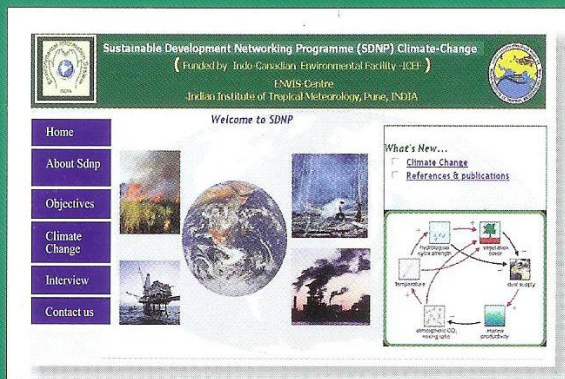
The main objective of SDNP at IITM, is to convert the ENVIS data into "Information". In other words, to educate the reader about the impact of acid rain, air pollution and related aspects which lead to climate change. Hence, to enhance the availability of information related to climate change, we are doing it through dissemination of current knowledge on the Air pollution and related information through periodic newsletter, papers in journals, reports, etc. You can visit the following website of IITM-SDNP for details:

http://envis.tropmet.res.in/sdnp

About
Indian Institute of Tropical Meteorology, Pune

IITM is a Premier Research Institute of international repute for Atmospheric Sciences and Meteorology in India. IITM functions as a national centre for basic and applied research in monsoon meteorology of the tropics. It is an autonomous institute under Govt. of India. Its primary functions are to promote, guide and conduct research in the field of meteorology and atmospheric sciences.

The Institute has kept a good mix of fundamental and applied research in its programs. Its research findings have received attention of the national and international scientific community. IITM is recognized by several universities as a Centre of Advanced Research for carrying out work leading to the award of M.Sc and Ph.D degrees in Atmospheric Sciences.

What is ENVIS?

Realizing the importance of Environmental Information, the Government of India, in December, 1982, established an ENVironmental Information System (ENVIS) as a planned programme. ENVIS is a decentralized system with a network of distributed subject oriented centers ensuring integration of national efforts in environmental information collection, collation, storage, retrieval and dissemination to all concerned. Presently the ENVIS network consists of Focal Point at the Ministry of Environment and Forest and ENVIS centers setup in different organizations in the country in selected areas of environment.

Monitoring of Air Pollutants at IITM

The ozone pollution laboratory at IITM monitors the surface level concentrations of various pollutants like O_3, CO, NOx, hydrocarbons, SO_2 and Suspended Particulate Matters (e.g. PM1.0, PM2.5 and PM10) at its premises, round the clock, using advance optical analyzers. These data sets are used to characterize the air quality. Information about the concentration of each pollutant at a particular time of a day is available at our ENVIS website in real time. Client can also visualize temporal variations of these pollutants interactively on longer scale. These data sets are further used for fundamental scientific research.

Regional Atmospheric Chemistry-Pollution Modeling at IITM

We at IITM have developed and ported atmospheric-chemistry-climate models to determine the effectiveness of human induced activities with the functioning of the Earth-Atmospheric System covering all levels from surface to upper atmosphere. One such model is the regional chemical model for tracers called "REMOTE". It simulates the large scale distribution of several pollutants along with meteorological parameters over Indian geographical region near the ground. Long term objective is to understand the coupling of meteorological factor, air pollutants and generating short term & long term chemical scenarios.

Our vision:
Building capacity for medium range pollution forecasting on a finer resolution of 10 - 15 kilometers