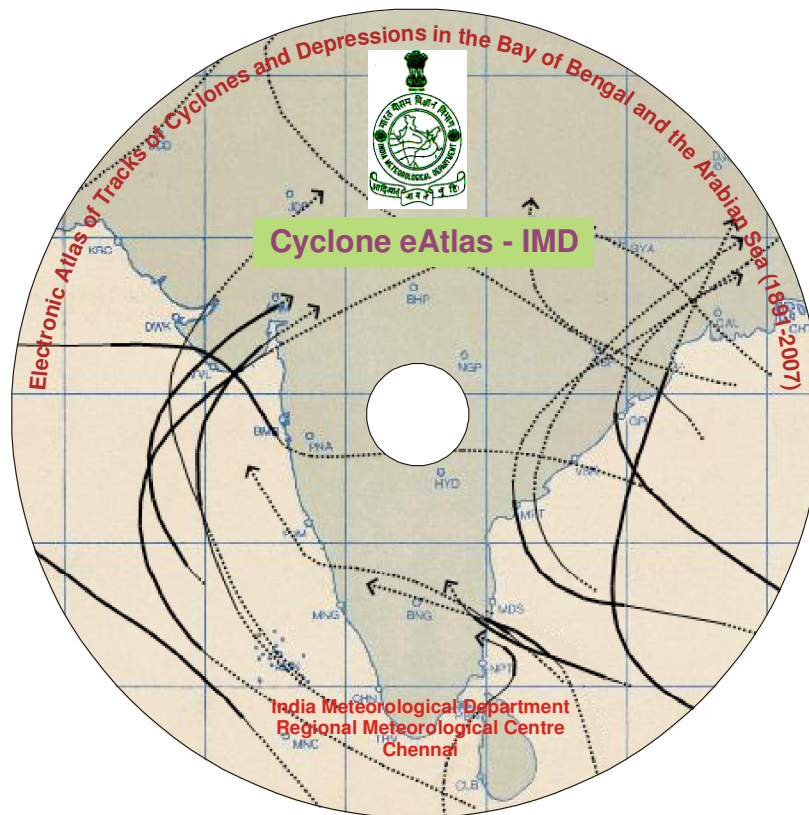


# Tracks of Cyclones and Depressions in the Bay of Bengal and the Arabian Sea 1891-2007

Electronic version, June 2008

## Cyclone eAtlas – IMD



India Meteorological Department

Regional Meteorological Centre

Chennai, India

India Meteorological Department has brought out an electronic version of the hard copy editions of its widely referred atlas “**Tracks of Storms and Depressions in the Bay of Bengal and the Arabian Sea**”, which were published by IMD in the years 1964, 1979 and 1996. The electronic version named **Cyclone eAtlas – IMD** which is being released in the year 2008 is an integrated package providing substantial information on the Tracks of Cyclones and Depressions that occurred over Indian Seas during the period 1891–2007. The eAtlas which could be installed in a personal desktop computer with Microsoft Windows Operating System would prove to be handy to Tropical Cyclone forecasters, research workers and disaster managers.

## **Features**

- **Contains Integrated Package on Tracks of Cyclones and Depressions which affected Indian Seas during the period 1891–2007.**
- **Designed with User friendly Menu driven interface**
- **Incorporates 3 Basins viz. Bay of Bengal, Arabian Sea and Land (India & Neighbouring countries) and 16 pre defined Coastal belts**

## **Output**

**The eAtlas generates three different types of output viz:**

**Display of**

- ✓ **Tracks of C&Ds**
- ✓ **Statistical data of C&Ds in map form**
- ✓ **Tables / Bar diagrams**

## Display of Tracks of Cyclones & Depressions

Display can be obtained by invoking Basic Options and Advanced Options (optional)

### Input for Basic options

- Period (Month & Year)
- Type of Intensity (Maximum / Coastal crossing)
- Level of Intensity (Depression, Cyclonic storm, Severe Cyclonic Storm)
- Basin of Formation (Bay of Bengal, Arabian sea, Land area)

### Input for Advanced options 1

- Area of Formation (Long & Lat square)
- Basin of Dissipation
- Area of Dissipation (Long & Lat square)

### Input for Advanced options 2

- Type of Coastal crossing, i.e. *from Sea to Land* or *Land to Sea*
- Pre defined coasts OR
- User defined coasts based on Long & Lat input

### Output

- Display of tracks satisfying the options exercised
- Display fully self explanatory containing all the input parameters

### Other salient features of track display

- Selection and display of a sub set of tracks from the original set of tracks already displayed
- Display of tracks based on the concept of Identifier of a Cyclonic Disturbance
- Two types of track display, one depicting details such as date, month and year on the track and another without.

### Display of Cyclone & Depression Statistics in Map form

**Input** Year and Month

#### Output

- Frequency of D+CS+SCS, CS+SCS & SCS.
- Frequency of Formation and Dissipation of D, CS & SCS
- Percentage Frequency of Direction of Movement
- Direction of Motion, Vector speed & Scalar speed.
- Frequency of Recurvature towards northeast direction
- Frequency of C& Ds striking various coastal belts  
(D- Depression, CS – Cyclonic Storm, SCS – Severe Cyclonic Storm)

### Tables & Bar diagrams

**Input** Year, Month, Season, Basin, Intensity

#### Output

- ▶ Year and Monthly / Seasonal frequencies (in matrix form)
- ▶ Monthly and seasonal variation of frequencies
- Listing of all C & Ds with several important details.
- Output can be generated as Table OR Bar Diagram

## Other Features of the cyclone eAtlas

- Contains provision to
  - Save / Print the Track display, Charts or Tables
  - Save the digitised data based on which output has been generated
- Includes Help file
- Easy provision for incorporating updates, including updates of cyclone data of future years, (when the data become available) OR corrections in the existing (installed) master data file
- Includes a detailed report entitled 'IMD Notes' which contains
  - History of the past hard copy editions of the Atlas
  - Detailed write up on the various features of eAtlas
  - Large number of examples to demonstrate the usage of eAtlas

## Installation of eAtlas

The software **Cyclone eAtlas –IMD** could be installed in any Desk Top Personal Computer, running with Microsoft Windows Operating system (Preferably Windows XP)

## How the users can acquire the eAtlas CD ?

The eAtlas is a priced software. Request for eAtlas CD accompanied by Cheque/ Demand Draft for the appropriate amount should be sent to the following address.

**Deputy Director General of Meteorology  
Regional Meteorological Centre**

**50, (New No.6) College road  
Chennai - 600 006**

**India**

**Phone No: 91-44-28230091/92**

**Fax : 91-44-28271581**

**e/mail: [cwrcrmcchennai@gmail.com](mailto:cwrcrmcchennai@gmail.com)**

Any query / suggestion on the eAtlas software could also be communicated to the above address

## Price of the eAtlas CD

The price of the CD per copy (inclusive of handling and postal charges) is

- (i) **Rs.3000/-** for Indian buyers
- (ii) **US \$100** for buyers from countries of WMO/ESCAP Panel  
(viz. Bangladesh, Maldives, Myanmar, Oman, Pakistan  
Sri Lanka & Thailand)
- (iii) **US \$185** for buyers from other countries

## Payment Procedure

Payment should be by means of Demand Draft / Bankers Cheque drawn in favour of:

**Assistant Meteorologist (Cash & Accounts)**  
**Regional Meteorological Centre, Chennai, India**

### For Indian buyers

Payment through Demand Draft issued by State Bank of India OR by any other **Nationalised Bank** payable at Chennai.

### For International buyers

Payment through Bankers Cheque (payable at Chennai, India ) issued by any **Nationalised Bank** of India (such as State Bank of India, Indian Overseas Bank etc.) or by any **International Bank** whose branches are located at Chennai, India.

The following are some of the well known International Banks with branches located at Chennai: Grindlays Bank, Citi Bank & Standard Chartered Bank.

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