



Organization	Indian Institute of Science Bangalore India
E-mail	bhat@caos.iisc.ernet.in

## 4. DATASET CREATOR

Name	G. S> Bhat
Organization	Indian Institute of Science Bangalore India
E-mail	bhat@caos.iisc.ernet.in

## 5. DATE OF THIS DOCUMENT

2022-02-16

## 6. DATE OF DATASET

revision : 2014-03-05

## 7. DATASET OVERVIEW

### 7.1 Abstract

This data set contains radiosonde data collected over the Bay of Bengal from Indian research ship ORV Sagar Kanya during July-August 2009. This cruise was conducted as part of India's CTCZ Programme. Vaisala RS90 GPS radiosondes were used. Owing to problem with Vaisala receiver program, wind data was not available initially, which was set right after Vaisala provided an update.

### 7.2 Topic Category(IS019139)

climatologyMeteorologyAtmosphere

### 7.3 Temporal Extent

Begin Date	2009-07-19
End Date	2009-08-15
Temporal Characteristics	Mostly 12 hourly, but on few days more frequently and daily on others.

### 7.4 Geographic Bounding Box

North latitude bound	21N
West longitude bound	85E
Eastbound longitude	91E
South latitude bound	11N

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## 7.5 Grid

Dimension Name	Dimension Size (slice number of the dimension)	Resolution Unit
vertical	upto 25 km	5 (hPa)

## 7.6 Geographic Description

Bay of Bengal

## 7.7 Keywords

### 7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
	programme name	CTCZ upper air data

### 7.7.2 Keywords on Project

#### 7.7.2.1 Asian Monsoon Year Project

Keyword Type	Keyword	Keyword thesaurus Name
place	Asia	Country

#### 7.7.2.2 Data Integration and Analysis System

Keyword Type	Keyword	Keyword thesaurus Name
theme	DIAS > Data Integration and Analysis System	No_Dictionary

## 7.8 Online Resource

Data file download : <https://data.diasjp.net/dl/storages/filelist/dataset:216>

Asian Monsoon Years site : <http://www.wcrp-amy.org/>

## 7.9 Data Environmental Information

## 7.10 Distribution Information

name	version	specification
txt	1.0	

# 8. DATA PROCESSING

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## 8.1 Data Processing (1)

### 8.1.1 General Explanation of the data producer's knowledge about the lineage of a dataset

Followed the standard radiosonde launch procedure. Before each launch, radiosonde temperature and humidity were compared with a reference sensor (Rotronics make) and difference corrected.

Original data received at 2 s interval are interpolated at 5 hPa intervals.

### 8.1.2 Data Source

Data Source Citation Name	Description of derived parameters and processing techniques used

## 9. DATA REMARKS

Temperature and humidity data are as per Vaisala specifications. At surface radiosonde and AWS data have been intercompared and agreement is good. Balloon travels in the ship wake initially and then moves away. So, wind data below 50 m may not be very reliable owing to disturbance to flow by the ship structure.

## 10. DATA POLICY

### 10.1 Data Policy by the Data Provider

This data can be used for research purposes only.

### 10.2 Data Policy by the Project

#### 10.2.1 Asian Monsoon Year Project

1. No financial implications are involved for the AMY data exchange.
2. Commercial use and exploitation of AMY data is prohibited.
3. Any re-export or transfer of the original data received from the CDA archive to a third party is prohibited.
4. The origin of AMY data being used for publication of scientific results must be acknowledged and referenced in the publication.
5. AMY data users are strongly encouraged to establish direct contact with data providers for complete interpretation and analysis of data for publication purposes.
6. Co-authorship of data users and AMY Projects' Principle Investigators on papers making extensive use of AMY data is justifiable and highly recommended.

Whenever AMY data distributed by CDA are being used for publication of scientific results, the author(s) shall send a copy of the respective publication, preferably in electronic form, to the CDA in order to build up a AMY publication library. CDA will maintain this library and will make it public, for example via CDA's web site, for a continuous monitoring of the AMY data applications and AMY's achievements in general.

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## 10.2.2 Data Integration and Analysis System

If data provider does not have data policy, DIAS Terms of Service (<https://diasjp.net/en/policy/>) and DIAS Privacy Policy (<https://diasjp.net/en/privacypolicy/>) apply.

If there is a conflict between DIAS Terms of Service and data provider's policy, the data provider's policy shall prevail.

## 11. LICENSE

## 12. DATA SOURCE ACKNOWLEDGEMENT

### 12.1 Acknowledge the Data Provider

In the acknowledgement following needs to be stated. "This data was collected as part of the CTCZ programme supported by the Department of Science and Technology and Ministry of Earth Sciences, Govt. India."

### 12.2 Acknowledge the Project

#### 12.2.1 Asian Monsoon Year Project

Whenever AMY data distributed by the CDA are being used for publication of scientific results, the data's origin must be acknowledged and referenced. A minimum requirement is to reference AMY and the CDA. If only data from one observation site (or a limited number of observation sites) has been used, additional acknowledgement to the observation site(s) and its (their) maintaining institutions or organizations shall be given.

Maintaining continuous, high-quality measurements, performing quality and error checking procedures, and submitting data and related documentation to the CDA will require substantial financial and logistical efforts of the data providers. The necessary support for these observation site activities originate from a variety of international, national and institutional sources. The CDA shall make proper reference to all AMY data providers and, if required, to their funding sources.

#### 12.2.2 Data Integration and Analysis System

If you plan to use this dataset for a conference presentation, paper, journal article, or report etc., please include acknowledgments referred to following examples. If the data provider describes examples of acknowledgments, include them as well.

" In this study, [Name of Dataset] provided by [Name of Data Provider] was utilized. This dataset was also collected and provided under the Data Integration and Analysis System (DIAS), which was developed and operated by a project supported by the Ministry of Education, Culture, Sports, Science and Technology. "

## 13. REFERENCES

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