



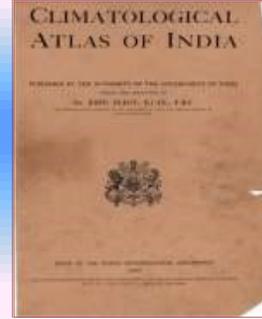
INDIA METEOROLOGICAL DEPARTMENT
भारतीय मौसम विज्ञान विभाग

Library NEWS LETTER

VOL. I, ISSUE 02, MAY 2016

O/o ADGM (R)

बातमी पत्र न्यूज़् एवर्ले समाचार पत्र समाचार पत्र सुद्धि अक्षरद सेय्यत्तिमदल्ल
संवाद पत्र ऋघती ठुं पंतु वारुलु लंख



Photographs of vintage IMD Publications

HIGHLIGHTS OF THE LAST SIX MONTHS

- A) Thirteen books have been added to the library.
- B) 32 Print journals subscribed for the year 2016.
- C) Online subscription for 11 AMS journals extended to ADGM(R), Pune officials.
- D) Ongoing projects:
 - i) E Granthalaya.
 - ii) Renovation of Ramdurg House Premises.

A) NEW ADDITIONS IN THE LIBRARY

In the last six months thirteen books have been added to the library.

TOPIC I : OCEANOGRAPHY

1. DATA ANALYSIS METHODS IN PHYSICAL OCEANOGRAPHY

THOMSON, R.E., WILLIAM J. EMERY, JUNE 2015/57811/95.2.236 *

Data Analysis Methods in Physical Oceanography, Third Edition is a practical reference to established and modern data analysis techniques in Earth and ocean sciences. Its five major sections address data acquisition and recording, data processing and presentation, statistical methods and error handling, analysis of spatial data fields and time series analysis methods. The revised third edition updates the instrumentation used to collect and analyze physical oceanic data and adds new techniques including Kalman Filtering.

2. OCEANOGRAPHY

SAVINDRA SINGH, OCTOBER 2015/ 57982/ 95.1.55*

The book comprises of 18 chapters wherein besides traditional topics, viz., meaning and scope of oceanography, history of growth of the science of oceanography, origin of ocean basins, ocean morphology and bottom reliefs, temperature and density of seawater, ocean salinity, marine sediments and deposits, surface ocean currents, watermasses and deep currents, tides and coral reefs, a few new chapters of great relevance have been included such as atmosphere –sea interactions, sea waves, shoreline processes and coastal scenery, tsunami, ocean habitats etc.

3. OCEAN CIRCULATION AND CLIMATE

GEROLD SIEDLER, STEPHEN M. GRIFFIES, JOHN GOULD & JOHN A. CHURCH
OCTOBER 2015 / 57985 / 95.2.237*

The second edition of Ocean Circulation and Climate is an up-to-date summary of the state of the science relating to the role of the oceans in the physical climate system. The book is structured to guide the reader through the analysis, interpretation, modeling and synthesis of ocean climate phenomena, with extensive cross-referencing between chapters and a comprehensive index.

4. DATUMS AND MAP PROJECTIONS

J.C. ILIFFE, October 2015 / 57986 / 95.2.238*

This book has been written as a practical guide to the problems that are commonly encountered when using datums and map projections. It is aimed at students and practitioners in the areas of remote sensing, geographic information systems and surveying.

TOPIC II : EARTH'S ATMOSPHERE

5. ATMOSPHERIC RADIATION : A PRIMER WITH ILLUSTRATIVE SOLUTIONS

COAKLEY, JIM & PONG, JUNE 2015/57812/8.3.576*

A first look at radiative transfer in planetary atmospheres with a particular focus on the Earth's atmosphere and climate. The textbook covers the basics of the radiative transfer of sunlight, treating absorption and scattering and the transfer of the thermal infrared appropriate for local thermodynamic equilibrium, absorption and emission. The examples included show how the solutions of the radiative transfer equation are used in remote sensing to probe the thermal structure and composition of planetary atmospheres. This motivates students by leading them to a better understanding of and appreciation for the computer-generated numerical research.

6. AN INTRODUCTION TO THE GLOBAL CIRCULATION OF THE ATMOSPHERE

DAVID RANDALL, NOVEMBER 2015 / 57987 / 8.3.577*

This is a graduate level textbook on the global circulation of the Earth's atmosphere – the large scale system of winds by which energy is transported around the planet, from the tropical latitudes to the poles. The book describes the many phenomena of the circulation and explains them in terms of current ideas of vector calculus. The book also describes the major historical contributions of key scientists, giving a human dimension to the narrative and it closes with a discussion of how the global circulation is evolving as the Earth's climate changes.

TOPIC III : CLIMATOLOGY

7. MODELLING ATMOSPHERIC AND OCEANIC FLOWS : INSIGHTS FROM LABORATORY EXPERIMENTS AND NUMERICAL SIMULATIONS

THOMAS VON LARCHER AND PAUL D. WILLIAMS, OCTOBER 2015/57981/11.4.94*

The book provides a broad overview of recent progress in using laboratory experiments and numerical simulations to model atmospheric and oceanic fluid motions. This volume not only surveys novel research topics in laboratory experimentation, but also highlights recent developments in the corresponding computational simulations.

8. INTRODUCTION TO MODERN CLIMATE CHANGE

ANDREW E. DESSLER, OCTOBER 2015/ 57983 / 11.3.345

This textbook gives students an entire overview of recent climate change science, economics and policy – enabling them to engage in informed debate of public policy. The focus is on the problems of anthropogenic climate change. The combination of science with economic and policy options makes this a unique introduction among climate change textbooks.

9. ASSESSING CLIMATE CHANGE: Temperatures, Solar Radiation and Heat Balance
DONALD RAPP, JANUARY 2016 / 57988/ 11.3.346*

This updated and revised new edition of Assessing Climate Change deals with the full gamut of essential questions in relation to global warming and climate change, uniquely providing an balanced and impartial discussion of this controversial subject.

10. FLEXIBLE GLOBAL OCEAN – ATMOSPHERE – LAND SYSTEM MODEL
TIANJUN ZHOU et al, JANUARY 2016 / 57991/ 11.4.95*

This book is the first book to offer systematic evaluations of the model viz., FGOALS ' s performance. It is comprehensive in scope, covering both developmental and application – oriented aspects of this climate system model. It also provides an outlook of future development of FGOALS and offers an overview of how to employ the model. It represents a valuable reference work for researchers and professional s working within the related areas of climate variability and change.

TOPIC IV : CLOUD PHYSICS

11. CLOUD DYNAMICS (SECOND EDITION)

ROBERT A.HOUZE, Jr., OCTOBER 2015 / 57984 / 10.4.186*

This second edition of Cloud Dynamics provides the essential information that students and researchers need to be able to understand how clouds affect climate and weather. It is a comprehensive treatment that examines the underlying physics and dynamics of every type of cloud found in Earth's atmosphere. Covering both the microphysical and macrophysical aspects of clouds, this book comprehensively treats all of the scales involved in cloud processes, from the individual drops and ice particles up to the scales of storms in which the cloud occur.

TOPIC V : STATISTICS

12. MATHEMATICS & CLIMATE

HANS KAPER & HANS ENGLER, JANUARY 2016 / 57989 / 23.2.319*

Mathematics and Climate is a timely textbook aimed at students and researchers in mathematics and statistics who are interested in current issues of climate science as well as at climate scientists who wish to become familiar with qualitative and quantitative methods of mathematics and statistics. This book is intended for mathematicians, statisticians, data scientists and geoscientists in academia, national laboratories and public service organizations interested in current issues of climate and sustainability. It is written at the level of advanced undergraduate and beginning graduate students and assumes only basic familiarity with linear algebra, calculus, elementary differential equations and statistics.

13. CLIMATE TIME SERIES ANALYSIS

MANFRED MUDELSEE, JANUARY 2016 / 57990 / 23.4.499*

Climate is a paradigm of a complex system. Analyzing climate data is an exciting challenge, which is increased by non-normal distributional shape, serial dependence, uneven spacing and timescale uncertainties. This book presents bootstrap resampling as a computing –intensive method able to meet the challenge. It shows the bootstrap to perform reliably in the most important statistical estimation techniques: regression, spectral analysis, extreme values and correlation. This book is written for climatologists and applied statisticians. It explains step by step the bootstrap algorithms (including novel adaptations) and method for confidence interval construction. It analyses a large array of climate time series, giving a detailed account on the data and the associated Climatological questions.

*Purchase date/Acc.No./Shelf No.

B) PRINT JOURNALS IN ADGM (R) PUNE LIBRARY:

List of International journals subscribed in 2016

1. Climatic change
2. Climate Dynamics
3. Electronics World
4. International Journal of Climatology
5. Meteorology & Atmospheric Physics
6. National Geographic
7. Nature climate change
8. Weather

List of Indian journals subscribed in 2016

- | | |
|--|--|
| 1. Agricultural Reviews | 12. Journal of Computer Society of India |
| 2. Asian Journal of Water, Environment & Air Pollution | 13. Journal of Earth System Sciences |
| 3. Bharatiya Krishi Anusandhan Patrika (Hindi) | 14. Journal of Education |
| 4. Down to Earth | 15. Journal of Indian Geophysical Union |
| 5. Electronics for You | 16. Journal of Research |
| 6. Indian Farming | 17. Open Source for You |
| 7. Indian Journal of Agricultural Research | 18. Resources, Energy and Development |
| 8. Indian Journal of Agronomy | 19. Science India |
| 9. Indian Journal of Geo-marine Science | 20. Science Reporter |
| 10. Indian Journal of Radio & Space Physics | 21. Telecommunications |
| 11. Journal of Agronomy | 22. Vaigyanik (Hindi) |
| | 23. Vigyan Pragati (Hindi) |
| | 24. Yojana (Hindi) |

C) AMS JOURNALS (ONLINE)

1. BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY
2. EARTH INTERACTIONS
3. JOURNAL OF APPLIED METEOROLOGY AND CLIMATOLOGY
4. JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY
5. JOURNAL OF CLIMATE
6. JOURNAL OF HYDROMETEOROLOGY
7. JOURNAL OF PHYSICAL OCEANOGRAPHY
8. JOURNAL OF THE ATMOSPHERIC SCIENCES
9. MONTHLY WEATHER REVIEW
10. WEATHER AND FORECASTING
11. WEATHER, CLIMATE AND SOCIETY

Steps to access journals online:

- 1) Enter "amsjournalsonline" directly under Google. Click on desired journal or enter "American Met Society" under Google. Choose option "Journals online" and choose the desired journal.
- 2) Displays the available current and back issues of volumes of the journal.
- 3) Click on desired volume / issue: displays the table of contents.
- 4) Click on the desired article. Displays article with full text and option to take printout or download PDF.

D) ONGOING PROJECTS OF THE LIBRARY

1) E GRANTHALAYA :

There is a proposal by HQ office to digitize the catalogue of the library holdings. In this connection, Shri A.R. Sable, AM II and Mrs. S.J. Deuskar, Librarian attended a three day training session on e-Granthalaya conducted jointly by NIC and YASHADA from 15th February 2016 to 17th February 2016 at YASHADA, Pune.

2) Renovation at Ramdurg House Annexe :

The library holdings on the ground and the first floor of Ramdurg House annexe have been shifted to the second and third floor. The ground floor is vacated completely and handed over to CPWD for renovation. The library staff were assisted by the contract laborers for shifting the books and the work was accomplished in three weeks. Library holdings will be shifted back to the ground floor once the renovation work is completed.

3) Woodwork Repairs :

Repairs of the display panels, ladder, chairs and tables were undertaken.

CPWD has been contacted for repair and polish of the wooden flooring of the library.