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Autore	Behrisch Erika
Titolo	Discovery, Innovation, and the Victorian Admiralty : Paper Navigators / / by Erika Behrisch
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Soggetti	Great Britain - History Military history Science - History Civilization - History History of Britain and Ireland Military History History of Science Cultural History
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1: Introduction: Triangulating the New: Discovery, Innovation, Bureaucracy -- Chapter 2: "A monotonous and arduous service": Science, Surveying, and Servitude Aboard -- Chapter 3: "Considerable Magnetic Disturbance": The Niger Expedition, Science, and Networks of Influence -- Chapter 4: En Route with the British Admiralty's Manual of Scientific Enquiry (1849) -- Chapter 5: Private Inventions, Public Purse: Innovation and the Admiralty -- Chapter 6: Conclusion: Notes in the Margin.
Sommario/riassunto	This book examines the British Admiralty's engagement with science and technological innovation in the nineteenth century. It is a book about people, and gross misunderstanding, about the dreams and disappointments of scientific workers and inventors in relation to the administrators who adjudicated their requests for support, and about

the power of paper to escalate arguments, reduce opinions, and frustrate hopes. From instructions for naval surveying to debates about rewards to civilians for inventions, *Paper Navigators* puts a wide range of primary sources in the context of public debates and explores the British Admiralty's engagement with, decision-making around, and management of questions of value, support, and funding with citizen inventors, the broader public, and their own employees. Concentrating on the Admiralty's private, internal correspondence to explore these themes, it offers a fresh perspective on the Victorian Navy's history of innovation and exploration and is a novel addition to literature on the history of science in the nineteenth century. Erika Behrisch is Professor in the Department of English, Culture, and Communication at the Royal Military College of Canada.

2. Record Nr.

**Titolo**

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Data Assimilation for Atmospheric, Oceanic and Hydrologic Applications (Vol. III) // edited by Seon Ki Park, Liang Xu

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**Descrizione fisica**

1 online resource (XXXVI, 553 p. 216 illus., 155 illus. in color.)

**Disciplina**

333.7

**Soggetti**

Environmental sciences

Calculus of variations

Computer simulation

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Calculus of Variations and Optimal Control; Optimization

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Atmospheric Sciences

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Includes bibliographical references at the end of each chapters and index.

Nota di contenuto

Kernel Methods for Data Assimilation in Geophysical Modeling -- Adjoint-free 4d variational assimilation into regional models, - Investigation of scale sensitivity using a nested adjoint model -- Assessment of radiative effects of hydrometeors in rapid radiative transfer model in support of satellite cloud and precipitation data assimilation -- Data assimilation over complex terrain -- Assessing the impacts of ocean surface winds and 3-D wind measurements on high-impact weather forecasting -- Quantification of Uncertainty in forecast using Polynomial Chaos and Unscented Transformations and their impact in ensemble data assimilation -- Soil Moisture Data Assimilation -- Toward new applications of the adjoint sensitivity tools in variational data assimilation -- Information Quantification for Data Assimilations -- Impact of Data Assimilation on Super Typhoon (2010) -- Forecast sensitivity to observations -- Data assimilation for coupled modeling systems -- GPS TPW Assimilation with the JMA Nonhydrostatic 4DVAR and Cloud Resolving Ensemble Forecast for the 2008 August Tokyo -- Validation and operational implementation of the four dimensional variational data assimilation system for the Navy coastal ocean model -- Recent Advances in Bottom Topography Mapping via Data Assimilation in Rivers, Estuaries, and the Coastal Ocean -- Data Assimilation Experiments of Refractivity Observed by JMA Operational Radar -- Stratospheric and Mesospheric Data Assimilation -- A review on variational methods for geophysical flows -- A new multi-outerloop formulation for NAVDAS-AR -- Impact of model physics on assimilation of precipitation and cloudy radiance observations in 4DVar -- A coupled atmosphere-chemistry data assimilation: Application to a tropical cyclone -- Improving the snow albedo parameterization using optimal estimation in land surface modeling -- Study of the impact of uncertainty of climate change on the simulation of terrestrial ecosystem by using the conditional nonlinear optimal perturbation of parameters -- Target Observations for High-impact Ocean-Atmospheric Environmental Events.

Sommario/riassunto

This book contains the most recent progress in data assimilation in meteorology, oceanography and hydrology including land surface. It spans both theoretical and applicative aspects with various methodologies such as variational, Kalman filter, ensemble, Monte Carlo and artificial intelligence methods. Besides data assimilation, other important topics are also covered including targeting observation, sensitivity analysis, and parameter estimation. The book will be useful to individual researchers as well as graduate students for a reference in the field of data assimilation.

3. Record Nr.	UNINA9911019908103321
Autore	Pullaiah T
Titolo	Wetlands of Tropical and Subtropical Asia and Africa : Biodiversity, Livelihoods and Conservation
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Nota di contenuto	Cover -- Series Page -- Title Page -- Copyright Page -- Contents -- About the Editor -- List of Contributors -- Preface -- Chapter 1 Recommendations for Sustainable Management of Wetlands in Indian Tropics -- 1.1 Introduction -- 1.2 Methodology -- 1.3 Status of Wetlands in India -- 1.4 Inland and Coastal Wetlands -- 1.5 Natural and Man-Made Wetlands -- 1.6 Overall Findings -- 1.7 Challenges Faced by Natural Wetland Ecosystem in India -- 1.7.1 Climate Change Related -- 1.7.2 Anthropogenic -- 1.7.2.1 Urbanization and Land Use Changes -- 1.7.2.2 Agricultural, Municipal, and Industrial Pollution -- 1.8 Recommendations for Managing Wetlands Sustainably -- 1.8.1 Improve Governance -- 1.8.2 Enable Finance -- 1.8.3 Strengthen Data and Information -- 1.8.4 Drive Cooperation, Knowledge Sharing, and Stakeholder Engagement -- 1.9 Conclusion -- References -- Chapter 2 Wetlands of Bangladesh: Biodiversity, Livelihoods, and Conservation -- 2.1 Introduction -- 2.2 Types of Wetlands in Bangladesh -- 2.2.1 Riverine Wetlands -- 2.2.2 Floodplain Wetlands -- 2.2.3 Coastal Wetlands -- 2.2.4 Marshes and Swamps, Oxbow

Lakes, and Beels -- 2.3 Biodiversity -- 2.3.1 Riverine Wetland Biodiversity -- 2.3.2 Floodplain Wetland Biodiversity -- 2.3.3 Coastal Wetland Biodiversity -- 2.3.4 Marshes and Swamps Biodiversity -- 2.3.5 Oxbow Lakes and Beels Biodiversity -- 2.4 Red Listed Species By IUCN -- 2.5 Livelihoods of People Living in Wetland Areas -- 2.6 Conservation -- 2.7 Conclusion -- References -- Chapter 3 Wetlands of Myanmar: Biodiversity, Livelihoods, and Conservation -- 3.1 Introduction -- 3.2 Wetlands in Myanmar -- 3.2.1 Inland Wetlands -- 3.2.2 Marine/Coastal Wetlands -- 3.2.3 Human-Made Wetlands -- 3.3 Important Wetland Sites in Myanmar -- 3.3.1 Ayeyarwaddy River - Bagan Section -- 3.3.2 Ayeyarwaddy River - Bhamo Section. 3.3.3 Ayeyarwaddy River - Myitkyina-Sinbo Section -- 3.3.4 Ayeyarwaddy River - Singu Section -- 3.3.5 Gulf of Mottama -- 3.3.6 Indawgyi Lake Wildlife Sanctuary -- 3.3.7 Inle Lake Wildlife Sanctuary -- 3.3.8 Kyon Ka Pyin-Tap Seik Community Conservation Area, Ayeyarwaddy Delta -- 3.3.9 Lampi Marine National Park -- 3.3.10 Meinmahla Kyun Wildlife Sanctuary -- 3.3.11 Nanthar Island Marine National Park -- 3.3.12 Paleik Lake -- 3.3.13 Pyu Lake -- 3.4 Wetland Management Policy and Practices in Myanmar -- 3.4.1 Evolution of Policy: From the Past to the Present -- 3.4.2 Wetland Management for Biodiversity -- 3.4.3 Wetland Management for Livelihoods -- 3.4.4 Wetland Management for Conservation -- 3.5 Challenges in Wetland Management in Myanmar -- 3.6 Conclusion -- References -- Chapter 4 Wetlands of Plains of Pakistan -- 4.1 Introduction -- 4.2 Wetlands in Plains of Pakistan -- 4.3 The Haleji Wetland -- 4.4 The Keenjar Lakes -- 4.5 Chashma Barrage Wildlife Sanctuary -- 4.6 Taunsa Barrage Wildlife Sanctuary -- 4.7 Astola Island -- 4.8 Jiwani Wetland -- 4.9 Miani Hor -- 4.10 Uchhali Complex -- 4.11 Indus River Basin Wetlands -- 4.12 Mekran Coastal Wetlands -- References -- Chapter 5 Wetlands of Sri Lanka: Biodiversity, Livelihoods, and Conservation -- 5.1 Introduction -- 5.2 Biodiversity -- 5.2.1 Salt Marsh -- 5.2.1.1 Salt Marshes in Mannar District -- 5.2.2 Mangrove Forests -- 5.2.2.1 Livelihoods -- 5.2.2.2 Conservation -- 5.2.3 Basin Mangrove Forest -- 5.2.4 Brackish Water Marsh -- 5.2.5 Fern Marsh -- 5.2.6 Permanently Flooded Inland Marsh -- 5.2.6.1 Colombo Wetlands -- 5.2.7 Seasonally Flooded Inland Marsh -- 5.2.8 Thermal Marsh -- 5.2.9 Spring Forest -- 5.2.10 Villu Grassland -- 5.2.11 Gilgai Wetland -- 5.2.12 Dry Riverine Evergreen Forest -- 5.2.13 Dry Canal-Associated Evergreen Forest -- 5.2.14 Saline Sparse and Open Scrub. 5.2.15 Montane Wet Patana Grassland -- 5.2.15.1 Dwarf Bamboo Assemblage -- 5.2.15.2 Marsh-Peat Assemblage -- Acknowledgments -- References -- Chapter 6 Wetlands of Israel -- 6.1 Introduction to the Climate, Topography, Geomorphology, and Hydrology of Israel -- 6.1.1 The Western Drainage Characteristics -- 6.1.2 The Eastern Drainage Characteristics -- 6.2 Lotic Habitats -- 6.2.1 Lowland Perennial streams -- 6.2.1.1 Abiotic Characteristics -- 6.2.1.2 Biotic Characteristics -- 6.2.1.3 Conservation/Rehabilitation Measures -- 6.2.2 Perennial Mountainous Streams -- 6.2.2.1 Abiotic Characteristics -- 6.2.2.2 Biotic Characteristics -- 6.3 The Jordan River -- 6.3.1 The Upper Jordan -- 6.3.1.1 Abiotic Characteristics -- 6.3.2 Montane River -- 6.3.3 Delta -- 6.3.3.1 Biotic Characteristics -- 6.3.3.2 Conservation/Rehabilitation Measures -- 6.4 Lentic Habitats -- 6.4.1 Biotic Characteristics -- 6.4.2 Abiotic Characteristics -- 6.4.3 Biotic Characteristics -- 6.5 Dalia Marsh -- 6.5.1 Abiotic Characteristics -- 6.5.2 Biotic Characteristics -- 6.6 Measures of Rehabilitation and Restoration -- 6.7 Vernal Pools -- 6.7.1 Abiotic Characteristics -- 6.7.2 Biotic Characteristics -- References -- Chapter 7 Wetlands of Angola: Locations, Biodiversity, and Conservation -- 7.1 Introduction

-- 7.2 Methodology -- 7.3 Results -- 7.3.1 Physical Properties and Hydrology -- 7.3.2 Extent of Wetlands -- 7.3.3 Examples of Wetland Systems -- 7.4 Discussion -- 7.4.1 Wetlands in Angola: Environmental Controls -- 7.4.2 Wetland Biodiversity -- 7.4.3 Wetland Systems and Livelihoods -- 7.4.4 Threats to Wetland Systems -- 7.4.5 Wetlands of International Importance -- 7.4.6 Wetland Conservation -- 7.5 Conclusions -- References -- Chapter 8 Wetlands of Benin (West Africa): Biodiversity, Livelihoods, and Conservation -- 8.1 Introduction -- 8.2 Methods -- 8.2.1 Study Area -- 8.2.2 Data Collection.  
8.2.2.1 Document Reviews -- 8.2.2.2 Primary Data -- 8.2.2.3 Secondary Data -- 8.2.3 Data Analysis -- 8.3 Results -- 8.3.1 Wetlands Ecosystems in Benin: Typology, Mapping, and Geographical Distribution -- 8.3.2 Conservation Status of the Wetlands in Benin -- 8.3.3 Biological Diversity of the Wetlands in Benin -- 8.3.3.1 Plant Diversity -- 8.3.3.2 Animal Diversity -- 8.3.4 Importance of Wetlands in Benin -- 8.3.5 Threats to Wetlands in Benin -- 8.4 Discussion -- 8.4.1 Spatial Distribution, Conservation, and Importance of Wetlands in Benin -- 8.4.2 Biodiversity, Uses, and Threats to Wetlands in Benin -- 8.4.3 Dynamics of Wetlands in Benin: Current Situation and Prospects -- References -- Chapter 9 Wetlands of Burkina Faso: Biodiversity, Livelihoods, and Conservation: -- 9.1 Introduction -- 9.2 Burkina Faso and Its Wetlands -- 9.2.1 Wetlands in Burkina Faso -- 9.3 Biodiversity in Wetlands of Burkina Faso -- 9.3.1 Fish and Amphibians -- 9.3.2 Birds and Mammals -- 9.3.3 Reptiles -- 9.3.4 Macro-Invertebrates -- 9.4 Wetland Goods and Services -- 9.5 Wetland Conservation Measures -- 9.6 Conclusion -- References -- Chapter 10 Wetlands of Cameroon: Biodiversity, Livelihoods, and Conservation -- 10.1 Introduction -- 10.2 Potentials of Wetlands Biodiversity -- 10.2.1 Delimitation, Typology, and Distribution of Wetland Habitats in Cameroon -- 10.2.2 Estimation of the Size of Wetlands Habitats in Cameroon -- 10.3 Wetland Species -- 10.4 Importance and Values of Wetlands for Livelihoods and Development in Cameroon -- 10.5 Threats to Wetlands Degradation and Loss in Cameroon -- 10.6 Overview of Evolving Strategies for Mainstreaming Wetlands Conservation and Wise Use into Livelihoods Development and Poverty Reduction Efforts in Cameroon -- 10.6.1 Impact of International and Regional Conventions on Wetlands Conservation.  
10.6.2 Status of Mainstreaming Within Sectoral Policies, Plans, Programs, and Projects -- 10.6.3 Integrated River/Lake Basin and Transboundary Approaches -- 10.6.4 National, Transboundary Wetland-Protected Areas and Ramsar Sites -- 10.6.4.1 National Wetlands Conservation -- 10.6.4.2 Transboundary Wetlands Conservation -- 10.6.5 Wetland Inventories and Economic Valuation -- 10.6.6 Building Networks and Partnerships -- 10.6.7 Payment for Wetland Ecosystem Service Schemes and Carbon Markets -- 10.6.8 Toward National Wetland Policies, Legal and Institutional Framework Development -- 10.6.9 Wetland Conservation and Poverty Reduction Efforts -- 10.7 Conclusion -- Acknowledgements -- References -- Chapter 11 Wetlands of Ghana: Biodiversity, Community Livelihoods, and Conservation -- 11.1 Introduction -- 11.2 Types of Wetlands in Ghana -- 11.2.1 Coastal Wetlands -- 11.2.1.1 Keta Lagoon -- 11.2.1.2 Songor Lagoon -- 11.2.1.3 Sakumo Lagoon -- 11.2.1.4 Densu Delta -- 11.2.1.5 Muni Lagoon -- 11.2.2 Inland Wetlands -- 11.3 Biodiversity Richness of Ghanaian Wetlands -- 11.3.1 Waterbirds -- 11.3.2 Fish Diversity -- 11.3.3 Herpetofauna -- 11.3.4 Invertebrates -- 11.3.5 Wetland Vegetation -- 11.4 Wetland Resources and Community Livelihoods -- 11.5 Threats to Ghanaian Wetlands -- 11.6 Conservation Actions and Initiatives Taken by Ghana to Manage Its Wetlands -- 11.7

Conclusion -- References -- Appendix 11.1 Importance of the Ghanaian coastal Ramsar sites for waterbirds. -- Chapter 12 Biodiversity, Change, and Use of Moroccan Wetlands -- 12.1 Introduction -- 12.2 Wetlands Biodiversity -- 12.2.1 Plantae -- 12.2.2 Freshwater Animalia -- 12.2.3 Microalgae -- 12.3 Conservation Status -- 12.4 Wetland Services -- 12.5 Drivers of Changes -- 12.6 Planning and Management -- 12.7 Concluding Remarks -- References. Chapter 13 Does Malawi Need a Wetland Policy to Achieve the Wise Use Principle of the Ramsar Convention?.

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#### Sommario/riassunto

A comprehensive survey of exemplary wetlands that highlights their importance for local livelihoods as well as for global biodiversity. Covering 17 different regions, Wetlands of Tropical and Subtropical Asia and Africa provides detailed information on some of the world's most important wetlands and wetland types across those countries, as well as their current and potential biological resources. Each wetland is analyzed by a regional expert. Written with UN sustainable development goals in mind, Wetlands of Tropical and Subtropical Asia and Africa includes information on: Recommendations for the sustainable management of wetlands in the Asian and African tropics. The importance of sustaining local economic livelihoods in each wetland region by providing food resources as well as recreational opportunities. Wetland ecosystem services including carbon sequestration, water filtration, nutrient retention, and flood mitigation. Threats to the integrity of each wetland region as well as management strategies and practical conservation and restoration measures. Wetlands of Tropical and Subtropical Asia and Africa is an essential reference on the subject for ecologists, conservation scientists, hydrologists, and environmental and water resource managers. Governmental agencies and professionals in fisheries, agriculture, and rural development will also find value in the book.

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