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The Monsoon Currents In The North Indian Ocean

***Results are presented from
two cases of a model of the***

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seasonal circulation in the Northwest Indian Ocean. The model is a nonlinear reduced gravity transport model, with realistic basin geometry and using observed winds as forcing.

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One case is forced by the monthly mean of the FGGE winds while the other is forced by the monthly mean climatological winds. The two cases are compared and inferences

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***are made as to the
importance of the different
mechanisms at work in the
generation and decay of
the Somali Current system
during the southwest
monsoon. The Southern***

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Hemisphere currents are shown to reverse before the local winds, due to the relaxation of the northeast monsoon winds. The southern gyre of the two-gyre system responds

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primarily to the Southern Hemisphere tradewinds, while the northern gyre forms north of 4 N in response to the development of the Findlater jet and its

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***associated wind stress curl.
The two-gyre system
collapse is highly
correlated with a decrease
in the westerly component
of the equatorial wind
stress. The circulation***

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patterns are strongly influenced by the gradient of the wind stress curl, as well as by the curl itself. The transition from southwest to northeast monsoon conditions

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***depends on the remnants
of the previous season's
circulation patterns.
(Author).***

***New Scientist magazine
was launched in 1956 "for
all those men and women***

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who are interested in scientific discovery, and in its industrial, commercial and social consequences". The brand's mission is no different today - for its consumers, New Scientist

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***reports, explores and
interprets the results of
human endeavour set in
the context of society and
culture.***

***Ceylon Journal of Science
Sailing Directions (planning***

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***Guide) for the North Pacific
Ocean***

***Variations in the Thermal
Structure and Wind Field
Occurring in the Western
Indian Ocean During the
Monsoons***

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**Proceedings of the Indian
Science Congress
Monsoon as Method**

*The African Seas include marginal basins
of two major oceans, the Atlantic and the
Indian, a miniature ocean, the
Mediterranean Sea, and an infant ocean,
the Red Sea. Understanding the wide*

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spectrum of environmental features and processes of such a varied collection of marine and coastal regions requires that in situ observation systems be integrated and actually guided, by the application of orbital remote sensing techniques. This volume reviews the current potential of Earth Observations to help in the exploration of

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the marginal seas around Africa, by virtue of both passive and active techniques, working in several spectral ranges – i.e. measuring either reflected visible and near-infrared sunlight, as well as surface emissions in the thermal infrared and microwave spectral regions, or again the surface reflection of transmitted lidar or

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radar impulses of visible or microwave radiation. The in-depth evaluation of the advantages offered by each technique and spectral region and in particular by the development of advanced multi-technique systems, contributes to the assessment of the abundant natural resources that the Seas of Africa have to offer, of those in dear need

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of being – sustainably – exploited and of others that should be protected and maintained in their still pristine conditions.

Vols. 10-11 include Meteorology of England by James Glaisher as seperately paged section at end.

Physiography for High Schools

Monsoon-currents in the Java Sea and Its

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Entrances

Publication

*The Indian Ocean and the Future of
American Power*

General Examination of the Pacific Ocean

***Features the science behind
these destructive natural
disasters and tells how societies***

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around the world cope with their ferocity, covering such topics as the making of a monsoon, famous floods, and types of damage.

The Indian Ocean represents a part of the global Ocean that has been less studied by modern oceanography than the Atlantic

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and Pacific parts. This is remarkable, since the Indian Ocean was subject to much historic exploration through navigators from Asia, India, the Middle East and lastly from Europe. This unique, comprehensive reference set on

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the Indian Ocean, covers all oceanographical aspects with its physics, chemistry, biology and geology in 21 peer-reviewed expert-written chapters. Besides the well-ground basis on the Ocean's characteristics and a wealth of data, some unique

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features presented are the monsoon - the biennial reversal of winds and the resultant surface circulation; the tropical and sub-tropical jet streams, namely the Somali current, the Agulhas current and the Leewin current; the oxygen-poor

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intermediate waters in its northern part which significantly contribute several green house gases to the atmosphere, for example, carbon dioxide, nitrous oxide, methane and dimethyl sulphide; its exhaustive coral reefs and mangrove vegetation;

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and the polymetallic nodules at its depths and its other mineral resources. Moreover, an analysis is provided of the anthropogenic contributions and their impacts on the health of the Indian Ocean; and that of estuary environments of important rivers

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of the 15 littoral countries.

*Intended for research scientists,
professionals and students
working in physical, chemical and
geological oceanography.*

*Monsoon-Currents in the Java
Sea and Its Entrances. [With
Charts.]*

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***A Universal Geography, in Four
Parts***

***Memorandum on the
meteorological conditions
prevailing in the Indian monsoon
region before the advance of the
South-west monsoon of 1903,
with an estimate of the probable***

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*distribution of the monsoon
rainfall in 1903*

*Research and Forecast
Meteorology. Section E.*

**Results of a numerical
model of the wind driven
seasonal (ocean surface**

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**currents) circulation in
the Arabian Sea are
presented, with particular
emphasis on the ocean's
response to the monsoon
winds. The model
equations are the fully**

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**nonlinear reduced gravity
transport equations in
spherical coordinates.
The model resolution is
1/8 deg in the east-west
direction and 1/4 deg in
the north-south direction.**

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The model basin geometry corresponds as closely to that of the north-west Indian Ocean and includes the gulfs of Aden and Oman, and the islands of Socotra and the

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Seychelles. The wind stress data used to force the model comes from the NOAA National Climate Center's TD-9757 Global Marine Sums data, which consists of monthly mean

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**winds compiled on 1 deg
squares from over 60
years of ship
observations. After a one
year spin up, the model
settles into a regular
periodic seasonal cycle,**

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**even though the solution
to the model equations is
locally highly nonlinear,
with large nonlinear
eddies developing in the
same location at the same
time of the year from one**

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year to the next.

**Development of the model
Somali Current system
with the onset of the
(northern hemisphere)
summer monsoon is
consistent with the**

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available observations in the region. The model shows that it is possible to stimulate very complicated flows, if one has sufficient wind data, using fairly simple

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**models with a realistic
basin geometry.**

**All hydrographic data
collected during the
International Indian
Ocean Expedition from
1960 to 1965, and**

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**additional data from
previous years, have been
compiled at the
University of Hawaii so
that an atlas of the
physical oceanography of
the Indian Ocean can be**

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prepared. The present investigation, which is based on these data, is limited to a discussion of the effects of the monsoonal winds on the surface circulation north

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of 20 degrees S. Although the accumulated data is the most comprehensive material on the Indian Ocean, it is still very heterogeneous; hence, it was necessary to apply

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**statistical criteria in
order to remove errors
and variations that were
introduced partly by
nonsynoptic observations.
The first part of this
investigation presents the**

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**dynamic topographies of
the sea surface for spring,
early summer, late
summer, fall, and winter.
The second part presents
a theoretical model in an
attempt to interpret the**

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**peculiarities of the
monsoonal circulation.**

**Remote Sensing of the
African Seas**

New Scientist

Monthly Weather Review

The Monsoon Regime of

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the Currents in the Indian Ocean Nature

**An edited volume by Monsoon
Assemblages, a European Research
Council funded research project. The
book presents the methods that**

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Monsoon Assemblages has evolved for engaging the monsoon, a globally connected weather system, as a coproducer of urban life and space in South and Southeast Asian cities. It challenges views of climate as an inert backdrop to urban life, instead suggesting that it is materially and

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spatially active in shaping urban politics, ecologies, infrastructures, buildings and bodies. It combines critical texts with cartography, photography and ethnography to present the project's methodology and its outcomes and invites urban practitioners to think differently about

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space, time, representation and human and non-human agency. It offers intra-disciplinary, intra-active methods for rethinking human and non-human relations with weather in ways that meet the challenges of climate change and the Anthropocene.

The Arabian Sea (AS) shows marked

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seasonal changes in the current pattern due to the reversal of monsoon winds.

The main aim of the study is to understand and interpret the surface and sub-surface processes associated with the winds and fluxes. The various processes which determine the characteristics of the region such as

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Mini Cold Pool, Mini Warm Pool, Upwelling/Downwelling, and Temperature Inversion are also simulated. Computed sea surface elevation, currents, temperature and salinity have been analyzed to understand physical and dynamical processes of the region. The effect of

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remote forcing like Kelvin wave and river discharge along the eastern AS is also studied. It is inferred that the currents in the Gulf of Khambhat near North Eastern Arabian Sea during summer monsoon are onshore and prevents low-saline waters to advect offshore as the rivers discharge

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freshwater in the region. In the transition period, the prevailing currents slowly turn into offshore and continue till winter. These offshore currents would help in flushing out the low-saline waters during this season that were trapped during monsoon season as the currents were not

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favourable.

**Monsoon-currents in the Java Sea and
Its Entrances, by Dr. H. P. Berlage Jr
Indian West Coast**

**Near Surface Currents Off the Somali
Coast in the Summer Monsoon, August
1964**

Morphology of the Somali Current

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**System During the Southwest Monsoon
With Descriptions of Its Coasts,
Islands, Etc., from the Cape of Good
Hope to the Strait of Sunda and
Western Australia : Including Also the
Red Sea and the Persian Gulf, the
Winds, Monsoons, and Currents, and
the Passages from Europe to Its**

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Various Ports

Kept up to date with
Changes (some have title:
Sailing directions for
North Pacific Ocean).
The Monsoon Regime of the
Currents in the Indian

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Ocean University of Hawaii
Press

The American

Meteorological Journal

Sailing Directions

(enroute) for East Africa

and the South Indian Ocean

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Quarterly Journal of the
Royal Meteorological
Society

Separation of the Monsoon
Component from the General
Atmospheric Currents

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On the world maps common in America, the Western Hemisphere lies front and center, while the Indian Ocean region all but disappears. This convention reveals the geopolitical focus of the now-departed twentieth century, but in the twenty-first century

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that focus will fundamentally change. In this pivotal examination of the countries known as “Monsoon Asia”—which include India, Pakistan, China, Indonesia, Burma, Oman, Sri Lanka, Bangladesh, and Tanzania—bestselling author Robert

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D. Kaplan shows how crucial this dynamic area has become to American power. It is here that the fight for democracy, energy independence, and religious freedom will be lost or won, and it is here that American foreign policy must

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concentrate if the United States is to remain relevant in an ever-changing world. From the Horn of Africa to the Indonesian archipelago and beyond, Kaplan exposes the effects of population growth, climate change, and extremist politics on this unstable

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region, demonstrating why Americans can no longer afford to ignore this important area of the world.

The changes occurring in the temperature field in the Somali Basin and off the Arabian coast have been monitored from October 1975 through

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December 1979 by a time series of temperature sections obtained along the tanker sea lane offshore between 2° S and 22° N. The development and decay of the large eddy (up to roughly 600 km in diameter) in the northern Somali Basin and its smaller

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associated eddies were observed each southwest monsoon. Strong horizontal thermal gradients particularly in the upper 200 m occur at the eddy boundaries, and currents in this region can attain velocities of up to 7 knots. Monthly wind stress contoured

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for the western Indian Ocean clearly shows the southwest monsoon from May through September (with values over 4 dynes/sq. cm during July) to be considerably stronger than the northeast monsoon with a maximum in January. Maps of wind stress curl

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during the southwest monsoon show a large region of negative curl (over -4×10 to the -8 th dynes/cc) to the northeast off the somali coast, whereas a region of a high positive curl occurs off the Arabian peninsula and in a small band off the Somali

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east coast north of 5 N. Sverdrup mass transports of up to 40×10^{10} to the -12 g/sec to the north off the Somali coast are in rough agreement with observed values. (Author).

Monsoon

Deep and Surface Circulation in the

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Northwest Indian Ocean from Argo,
Surface Drifter, Satellite, and in Situ
Profiling Current Observations
Monsoon and Currents in the Indian
Ocean
A Model of the Seasonal Circulation
in the Arabian Sea Forced by

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Observed Winds

Global Monsoon System, The:
Research And Forecast (2nd Edition)

This book presents a
current review of the
science of monsoon
research and

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forecasting. The contents are based on the invited reviews presented at the World Meteorological Organization's Fourth International Workshop

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on Monsoons in late
2008, with subsequent
manuscripts revised from
2009 to early 2010. The
book builds on the
concept that the
monsoons in various

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parts of the globe can be viewed as components of an integrated global monsoon system, while emphasizing that significant region-specific characteristics

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are present in individual monsoon regions. The topics covered include all major monsoon regions and time scales (mesoscale, synoptic,

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intraseasonal,
interannual, decadal,
and climate change). It
is intended to provide
an updated comprehensive
review of the current
status of knowledge,

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modeling capability, and future directions in the research of monsoon systems around the world.

The physical oceanography in the

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northwest Indian Ocean is largely controlled by the seasonal monsoon. The seasonal variability in circulation is complex. Many studies have investigated

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processes in the Persian
(Arabian) Gulf and
Arabian Sea, but little
is understood about the
Sea of Oman. This thesis
incorporated
observations from Argo

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floats, surface drifters
and satellite imagery to
study the deep and
surface circulation in
the northwest Indian
Ocean. An assessment of
four independent

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moorings located in the
Sea of Oman and Arabian
Sea, as well as a model
skill comparison of the
Simple Ocean Data
Assimilation (SODA)
model, contributed to

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understanding the
dynamics in this region.
Spatial patterns of
surface current velocity
produced from surface
drifter data from
1995-2009 agreed with

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previously known surface currents. The Somali Current, East Arabian Current, Equatorial Current, Northeast/Southwest Monsoon Current, Great

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Whirl and Ras al Hadd Jet were all identified. During the Southwest Monsoon, flow direction was to the east and southeast in the Arabian Sea. The Somali Current

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flowed northeast along
the Somali Coast
extending to the East
Arabian Current along
the Oman coast. During
the Northeast Monsoon,
evaporation increased

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over the Arabian Sea,
which resulted in a
salinity gradient. This
imbalance caused low-
salinity surface water
from the northeast
Indian Ocean to flow

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into the northwest
Indian Ocean as the
Northeast Monsoon
Current. Current
direction reversed with
the change of wind
direction from the

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Southwest Monsoon to the Northwest Monsoon. Many characteristics seen at the surface were also identified in the subsurface as deep as 1500m. The comparison of

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moored observations to the Argo observations co-located in space and time showed reasonable agreement with the largest salinity difference of 0.23 and

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largest temperature
difference of 0.78°C.

The Murray Ridge mooring
had a temperature
correlation of 0.97 when
compared to Argo
observations. Argo

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observations were compared with SODA model numerical output from 1992-2001, and, after Argo, were assimilated from 2002-2009. With assimilation of Argo

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data into the SODA
model, the temperature
and salinity from the
model numerical output
improved, with most
differences between
model numerical output

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and Argo observations
falling within one
standard deviation.

Reports from the Ceylon
Marine Biological
Laboratory

The Global Monsoon

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System

H.O. Pub

Scottish Geographical
Magazine

Scientific Results of
Marine Investigations of
the South China Sea and

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the Gulf of Thailand,
1959-1961