RESEARCH & PUBLICATIONS

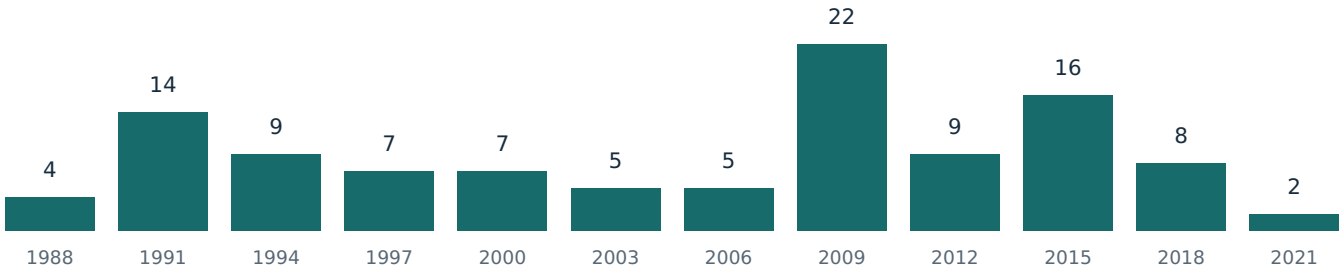
Manuel Barange

A publication record at a glance

108	7,987	44
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 3-year periods



MOST CITED IN THIS LIST

Feeding 9 Billion by 2050 – Putting Fish Back on the Menu — 777
2015 Food Security

Global Ensemble Projections Reveal Trophic Amplification of Ocean Biomass Declines With Climate Change — 540
2019 Proceedings of the National Academy of Sciences of the United States of America

Impacts of Climate Change on Marine Ecosystem Production in Societies Dependent on Fisheries — 502
2014 Nature Climate Change

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2023

01 **Aquatic Food Systems for Blue Transformation: A Vision for FAO**
Journal unavailable
https://exaly.com/article/175790606
8 citations

2022

02 **(Action): Sustainable Arctic Ocean**
Informed Decisionmaking for Sustainability
https://exaly.com/article/145067853
0 citations

2019

03 **Recent Advances in Understanding the Effects of Climate Change on the World's Oceans**
ICES Journal of Marine Science
https://exaly.com/article/71903437
3 citations

04 **Recent Advances in Understanding the Effects of Climate Change on the World's Oceans**
ICES Journal of Marine Science · 76, 1940-1940
https://exaly.com/article/72546899
9 citations

05 **Global Ensemble Projections Reveal Trophic Amplification of Ocean Biomass Declines With Climate Change**
Proceedings of the National Academy of Sciences of the United States of America · 116, 12907-12912
https://exaly.com/article/73103122
540 citations

06 **Avoiding Misinterpretation of Climate Change Projections of Fish Catches**
ICES Journal of Marine Science · 76, 1390-1392
https://exaly.com/article/73284040
15 citations

07 **Biology and Fisheries of Hilsa Shad in Bay of Bengal**
Science of the Total Environment · 651, 1720-1734
https://exaly.com/article/74800057
62 citations

2018

08 **A Graphic Novel From the 4th International Symposium on the Effects of Climate Change on the World's Oceans**
ICES Journal of Marine Science
https://exaly.com/article/70395352
4 citations

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2018 / continued

09 **A Protocol for the Intercomparison of Marine Fishery and Ecosystem Models: Fish-MIP v1.0**
Geoscientific Model Development · 11, 1421-1442
https://exaly.com/article/71179117
170 citations

10 **Marine Ecosystems and Fisheries: Trends and Prospects**
Journal unavailable
https://exaly.com/article/71270921
2 citations

2017

11 **FAO's Statistic Data and Sustainability of Fisheries and Aquaculture: Comments on Pauly and Zeller (2017)**
Marine Policy · 81, 401-405
https://exaly.com/article/66702986
54 citations

12 **Climate Change Implications for Fisheries and Aquaculture**
Journal unavailable
https://exaly.com/article/67040577
109 citations

13 **Global Mismatch Between Fishing Dependency and Larval Supply From Marine Reserves**
Nature Communications · 8, 1-9
https://exaly.com/article/67148746
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14 **Estimating the Ecological, Economic and Social Impacts of Ocean Acidification and Warming on UK Fisheries**
Fish and Fisheries · 18, 389-411
https://exaly.com/article/67640815
65 citations

15 **The Cost of Reducing the North Atlantic Ocean Biological Carbon Pump**
Frontiers in Marine Science · 3, 173521
https://exaly.com/article/68394010
32 citations

2016

16 **The Evolving and Increasing Need for Climate Change Research on the Oceans**
ICES Journal of Marine Science · 73, 1267-1271
https://exaly.com/article/64065517
13 citations

17 **Uncertainties in Projecting Climate-Change Impacts in Marine Ecosystems**
ICES Journal of Marine Science · 73, 1272-1282
https://exaly.com/article/64083148
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2016 / continued

18 **Ocean Planning in a Changing Climate** — 37 citations
Nature Geoscience · 9, 730-730
https://exaly.com/article/64287884

19 **Solutions for Ecosystem-Level Protection of Ocean Systems Under Climate Change** — 59 citations
Global Change Biology · 22, 3927-3936
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20 **Projecting Marine Fish Production and Catch Potential in Bangladesh in the 21st Century Under Long-Term Environmental Change and Management Scenarios** — 68 citations
ICES Journal of Marine Science · 73, 1357-1369
https://exaly.com/article/65246479

21 **Quantitative Pathways for Northeast Atlantic Fisheries Based on Climate, Ecological–Economic and Governance Modelling Scenarios** — 28 citations
Ecological Modelling · 320, 273-291
https://exaly.com/article/65707541

2015

22 **ICES and PICES Strategies for Coordinating Research on the Impacts of Climate Change on Marine Ecosystems** — 5 citations
Oceanography · 27, 160-167
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23 **The Western Channel Observatory** — 46 citations
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24 **Feeding 9 Billion by 2050 – Putting Fish Back on the Menu** — 777 citations
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25 **Scaling Up Experimental Ocean Acidification and Warming Research: From Individuals to the Ecosystem** — 156 citations
Global Change Biology · 21, 130-143
https://exaly.com/article/62883459

26 **Improving the Performance of a Mediterranean Demersal Fishery Toward Economic Objectives Beyond MSY** — 29 citations
Fisheries Research · 161, 131-144
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2014

27 **Introduction to the BASIN Special Issue: State of Art, Past Present a View to the Future**
Progress in Oceanography · 129, 171-175
https://exaly.com/article/57889364
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28 **Sardine Cycles, Krill Declines, and Locust Plagues: Revisiting 'Wasp-Waist' Food Webs**
Trends in Ecology and Evolution · 29, 309-316
https://exaly.com/article/58722709
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29 **Estimating the Economic Loss of Recent North Atlantic Fisheries Management**
Progress in Oceanography · 129, 314-323
https://exaly.com/article/58736302
16 citations

30 **Impacts of Climate Change on Marine Ecosystem Production in Societies Dependent on Fisheries**
Nature Climate Change · 4, 211-216
https://exaly.com/article/59362258
502 citations

2013

31 **Projected Impacts of Climate Change on Marine Fish and Fisheries**
ICES Journal of Marine Science · 70, 1023-1037
https://exaly.com/article/55143787
307 citations

32 **Modelling the Effects of Climate Change on the Distribution and Production of Marine Fishes: Accounting for Trophic Interactions in a Dynamic Bioclimate Envelope Model**
Global Change Biology · 19, 2596-2607
https://exaly.com/article/55856048
120 citations

2012

33 **Potential Consequences of Climate Change for Primary Production and Fish Production in Large Marine Ecosystems**
Philosophical Transactions of the Royal Society B: Biological Sciences · 367, 2979-89
https://exaly.com/article/52548284
371 citations

34 **Can Marine Fisheries and Aquaculture Meet Fish Demand From a Growing Human Population in a Changing Climate?**
Global Environmental Change · 22, 795-806
https://exaly.com/article/53836218
367 citations

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2012 / continued

35 Review of Climate Change Impacts on Marine Fisheries in the UK and Ireland
97 citations
Aquatic Conservation: Marine and Freshwater Ecosystems · 22, 368-388
https://exaly.com/article/54361559

2011

36 Marine Social–Ecological Responses to Environmental Change and the Impacts of Globalization
123 citations
Fish and Fisheries · 12, 427-450
https://exaly.com/article/50958328

37 Effects of Climate Change on Fish and Fisheries: Forecasting Impacts, Assessing Ecosystem Responses, and Evaluating Management Strategies
32 citations
ICES Journal of Marine Science · 68, 984-985
https://exaly.com/article/51241371

38 Predicting the Impacts and Socio-Economic Consequences of Climate Change on Global Marine Ecosystems and Fisheries
9 citations
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39 Modelling the Sequential Geographical Exploitation and Potential Collapse of Marine Fisheries Through Economic Globalization, Climate Change and Management Alternatives
15 citations
Scientia Marina · 75, 779-790
https://exaly.com/article/89467418

2010

40 Modelling the Potential Impacts of Climate Change and Human Activities on the Sustainability of Marine Resources
64 citations
Current Opinion in Environmental Sustainability · 2, 326-333
https://exaly.com/article/47836685

41 The Challenge of Adapting Marine Social–Ecological Systems to the Additional Stress of Climate Change
69 citations
Current Opinion in Environmental Sustainability · 2, 356-363
https://exaly.com/article/47836686

42 Climate Variability and Change Scenarios for a Marine Commodity: Modelling Small Pelagic Fish, Fisheries and Fishmeal in a Globalized Market
52 citations
Journal of Marine Systems · 81, 196-205
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43 Global Changes in Marine Systems: A Social–Ecological Approach
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Progress in Oceanography · 87, 331-337
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44 Climate Change, Uncertainty, and Resilient Fisheries: Institutional Responses Through Integrative Science
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45 Introduction to the GLOBEC 3rd Open Science Meeting: From Ecosystem Function to Ecosystem Prediction
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Progress in Oceanography · 87, 1-5
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46 Conclusions to the GLOBEC Compendium
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47 Introduction to the GLOBEC Compendium: A Selection of Papers From the GLOBEC International Research Programme
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Progress in Oceanography · 87, S2-S5
https://exaly.com/article/48013081

48 Impacts of Global Environmental Change and Aquaculture Expansion on Marine Ecosystems
58 citations
Global Environmental Change · 20, 586-596
https://exaly.com/article/49513782

49 Needs Assessment for Climate Information on Decadal Timescales and Longer
53 citations
Procedia Environmental Sciences · 1, 275-286
https://exaly.com/article/49547966

50 End-to-End Models for the Analysis of Marine Ecosystems: Challenges, Issues, and Next Steps
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Marine and Coastal Fisheries · 2, 115-130
https://exaly.com/article/49684257

51 Chapter 1 Introduction: Oceans in the Earth System
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52 Chapter 8 Interactions Between Changes in Marine Ecosystems and Human Communities
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53 **Chapter 9 Marine Resources Management in the Face of Change: From Ecosystem Science to Ecosystem-Based Management**
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54 **Marine Ecosystems and Global Change: A Synthesis**
3 citations
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2009

55 **Habitat Expansion and Contraction in Anchovy and Sardine Populations**
115 citations
Progress in Oceanography · 83, 251-260
https://exaly.com/article/45846685

56 **Eastern Boundary Upwelling Ecosystems: Integrative and Comparative Approaches**
159 citations
Progress in Oceanography · 83, 1-14
https://exaly.com/article/45846707

57 **Modeling the Global Fishmeal and Fish Oil Markets**
38 citations
Natural Resource Modelling · 22, 564-609
https://exaly.com/article/47103912

2008

58 **Regime Shifts in Marine Ecosystems: Detection, Prediction and Management**
377 citations
Trends in Ecology and Evolution · 23, 402-409
https://exaly.com/article/44022879

59 **Refined Estimates of South African Pelagic Fish Biomass From Hydro-Acoustic Surveys: Quantifying the Effects of Target Strength, Signal Attenuation and Receiver Saturation**
44 citations
African Journal of Marine Science · 30, 205-217
https://exaly.com/article/44759570

2007

60 **Ecological Functioning of the Iberian Seas: A Synthesis of GLOBEC Research in Spain and Portugal**
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Progress in Oceanography · 74, 95-97
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2006

61 **Climate Variability, Fish, and Fisheries**
436 citations
Journal of Climate · 19, 5009-5030
https://exaly.com/article/39750386

62 **Climate Change and the Economics of the World's Fisheries: Examples of Small Pelagic Stocks**
22 citations
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2005

63 **Vertical Migration, Catchability and Acoustic Assessment of Semi-Pelagic Cape Horse Mackerel Trachurus trachurus Capensis in the Southern Benguela**
7 citations
African Journal of Marine Science · 27, 459-469
https://exaly.com/article/38923084

64 **Strategies of Space Occupation by Anchovy and Sardine in the Southern Benguela: The Role of Stock Size and Intra-Species Competition**
46 citations
ICES Journal of Marine Science · 62, 645-654
https://exaly.com/article/39277694

2003

65 **ENVIFISH: An EU/Southern African Collaborative Project Investigating Environmental Causes of Pelagic Fisheries Variability**
2 citations
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https://exaly.com/article/35011383

66 **Ecosystem Science and the Sustainable Management of Marine Resources: From Rio to Johannesburg**
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67 **Ecosystem Science and the Sustainable Management of Marine Resources: From Rio to Johannesburg**
1 citations
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https://exaly.com/article/88413815

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68 **Direct Hydroacoustic Observations of Chokka Squid Loligo vulgaris Reynaudii Spawning Activity in Deep Water**
13 citations
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69 **Surplus Production, Variability, and Climate Change in the Great Sardine and Anchovy Fisheries** — 83 citations

Canadian Journal of Fisheries and Aquatic Sciences · 58, 1891-1903

https://exaly.com/article/32336906

70 **Species Identification of Pelagic Fish Schools on the South African Continental Shelf Using Acoustic Descriptors and Ancillary Information** — 85 citations

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71 **Current Trends in the Assessment and Management of Stocks** — 41 citations

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72 **Synthesis and Perspective** — 3 citations

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73 **Surplus Production, Variability, and Climate Change in the Great Sardine and Anchovy Fisheries** — 21 citations

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74 **Measurements of Three-Dimensional Fish School Velocities With an Acoustic Doppler Current Profiler** — 42 citations

Fisheries Research · 47, 201-214

https://exaly.com/article/32027793

1999

75 **Trends in the Abundance and Distribution of Anchovy and Sardine on the South African Continental Shelf in the 1990s, Deduced From Acoustic Surveys** — 111 citations

African Journal of Marine Science · 21, 367-391

https://exaly.com/article/30268370

1998

76 **Pelagic Community Structure of the Subtropical Convergence Region South of Africa and in the Mid-Atlantic Ocean** — 30 citations

Deep-Sea Research Part I: Oceanographic Research Papers · 45, 1663-1687

https://exaly.com/article/29237558

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1998 / continued

77 Distribution Patterns, Stock Size and Life-History Strategies of Cape Horse Mackerel Trachurus trachurus Capensis, Based on Bottom Trawl and Acoustic Surveys

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African Journal of Marine Science · 19, 433-447

https://exaly.com/article/29472424

78 Feeding Habits, Daily Ration and Vertical Migration of the Cape Horse Mackerel Off South Africa

25 citations

African Journal of Marine Science · 19, 263-274

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1997

79 Performance of a New Phase Algorithm for Discriminating Between Single and Overlapping Echoes in a Split-Beam Echosounder

74 citations

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80 Diel Variability in Bottom Trawl Catches and Feeding Activity of the Cape Hakes Off the West Coast of South Africa

35 citations

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https://exaly.com/article/27872509

81 Spatial Structure of Co-Occurring Anchovy and Sardine Populations From Acoustic Data: Implications for Survey Design

60 citations

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82 Empirical Determination Ofin Situtarget Strengths of Three Loosely Aggregated Pelagic Fish Species

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83 Potential Improvements to Current Methods of Recognizing Single Targets With a Split-Beam Echo-Sounder

38 citations

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85 Zoogeography and Diversity of Euphausiids Around Southern Africa
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86 Diel Feeding Periodicity, Daily Ration and Vertical Migration of Juvenile Cape Hake Off the West Coast of South Africa
36 citations
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1994

87 Influence of Trawling on in Situ Estimates of Cape Horse Mackerel (Trachurus trachurus Capensis) Target Strength
24 citations
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88 Determination of Composition and Vertical Structure of Fish Communities Using in Situ Measurements of Acoustic Target Strength
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89 Some Observations on the Pelagic Decapod Pasiphaea Semispinosa Holthuis 1951 in the Benguela Upwelling System
5 citations
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90 Acoustic Identification, Classification and Structure of Biological Patchiness on the Edge of the Agulhas Bank and Its Relation to Frontal Features
114 citations
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1993

91 Antarctic Krill Aggregation Characteristics From Acoustic Observations in the Southwest Atlantic Ocean
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92 Feeding Selectivity of Juvenile Cape Hake Merluccius capensis in the Southern Benguela
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93 Internal Structure of Antarctic Krill Euphausia superba Swarms Based on Acoustic Observations

Marine Ecology - Progress Series · 99, 205-213

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94 Life History, Circulation and Maintenance of Nyctiphanes capensis (Euphausiacea) in the Northern Benguela Upwelling System

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95 Cross-Shelf Circulation, Zonation and Maintenance Mechanisms of Nyctiphanes capensis and Euphausia Hanseni (Euphausiacea) in the Northern Benguela Upwelling System

Continental Shelf Research · 12, 1027-1042

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96 Major Pelagic Borders of the Benguela Upwelling System According to Euphausiid Species Distribution

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97 Community Structure and Trophic Ecology of Euphausiids in the Benguela Ecosystem

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98 Vertical Migration and Feeding of Euphausia Lucens (Euphausiacea) in the Southern Benguela

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99 Distribution Patterns, Abundance and Population Dynamics of the euphausiidsNyctiphanes capensis andEuphausia Hanseni in the Northern Benguela Upwelling System

Marine Biology · 109, 93-101

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100 Variability of Particulate Organic Carbon and Nitrogen in the Namibian Upwelling System

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101 **Influence of the Frontal System on the Cross-Shelf Distribution of Euphausia Lucens and Euphausia recurva (Euphausiacea) in the Southern Benguela System**

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102 **Relationship Between Measurements of Hake Biomass and Sea Surface Temperature Off Southern Namibia**

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103 **Models of Species Abundance: A Critique of and an Alternative to the Dynamics Model**

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104 **Diet and Feeding of Euphausia Hanseni and Nematoscelis Megalops (Euphausiacea) in the Northern Benguela Current: Ecological Significance of Vertical Space Partitioning**

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https://exaly.com/article/88958592

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105 **Vertical Migration and Habitat Partitioning of Six Euphausiid Species in the Northern Benguela Upwelling System**

65 citations

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https://exaly.com/article/21545979

106 **Zooplankton of the Northern Benguela Region in a Quiescent Upwelling Period**

18 citations

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https://exaly.com/article/21568385

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107 **Feeding Cycles and Prey Capture in Eudendrium racemosum (Cavolini, 1785)**

35 citations

Journal of Experimental Marine Biology and Ecology · 115, 281-293

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108 **Prey Selection and Capture Strategies of the Benthic Hydroid Eudendrium racemosum**

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