



海洋科学类文献的获取、阅读与管理

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综合类期刊

序号	期刊名	分区	2014年IF	3年平均IF
1	NATURE	1	41.456	40.801
2	SCIENCE	1	33.611	32.038
3	Nature Communications	1	11.470	10.742
4	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	1	9.674	9.740
5	Scientific Reports	2	5.578	4.528
6	Annals of the New York Academy of Sciences	2	4.383	4.262
7	Journal of the Royal Society Interface	3	3.917	4.227
8	Research Synthesis Methods	3	3.898	3.898
9	PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES	3	2.147	2.634
10	PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES	3	2.192	2.189
11	NATURWISSENSCHAFTEN	3	2.098	2.071
12	CHINESE SCIENCE BULLETIN	3	1.579	1.421
13	Progress in Natural Science-Materials International	3	1.873	1.335
14	Jove-Journal of Visualized Experiments	3	1.325	1.325
15	SCIENTIFIC AMERICAN	3	1.070	1.292
16	JOURNAL OF CULTURAL HERITAGE	3	1.568	1.285
17	COMPLEXITY	3	1.041	1.134
18	SCIENCE AND ENGINEERING ETHICS	4	0.963	1.127
19	Proceedings of the Romanian Academy Series A-Mathematics Physics Technical Sciences Information Science	4	1.658	1.103
20	JOURNAL OF THE ROYAL SOCIETY OF NEW ZEALAND	4	0.657	1.099

地学与海洋学类

- 大类分区：地学、环境科学与生态学
- 小类分区：海洋学、海洋工程(Marine Engineering)、海洋工程(Ocean Engineering)、环境科学、海洋与淡水生物学

大类分区：地学期刊

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1区		2区		3区		4区	总计	学科影响因子	
阈值	数量	阈值	数量	阈值	数量	数量	数量	2014年	2012-2014年
4.228	19	2.613	58	1.460	94	210	381	1.869	1.815

序号	期刊名	分区	2014年IF	3年平均IF
1	Annual Review of Marine Science	1	14.356	15.035
2	REVIEWS OF GEOPHYSICS	1	14.800	13.035
3	Nature Geoscience	1	11.740	11.925
4	BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY	1	11.808	9.991
5	Geochemical Perspectives	1	8.143	8.197
6	GONDWANA RESEARCH	1	8.235	7.918
7	EARTH-SCIENCE REVIEWS	1	7.885	7.453
8	PRECAMBRIAN RESEARCH	1	5.664	5.376
9	ATMOSPHERIC CHEMISTRY AND PHYSICS	1	5.053	5.287
10	Geoscientific Model Development	1	3.654	4.923
11	Journal of Advances in Modeling Earth Systems	1	4.922	4.728
12	EARTH AND PLANETARY SCIENCE LETTERS	1	4.734	4.602
13	JOURNAL OF CLIMATE	1	4.435	4.567
14	Cryosphere	1	5.516	4.553
15	JOURNAL OF PETROLOGY	1	4.424	4.541
16	GEOLOGY	1	4.884	4.536
17	CLIMATE DYNAMICS	1	4.673	4.508
18	QUATERNARY SCIENCE REVIEWS	1	4.572	4.406
19	SURVEYS IN GEOPHYSICS	1	3.447	4.228

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序号	期刊名	分区	2014年IF	3年平均IF
1	GEOPHYSICAL RESEARCH LETTERS	2	4.196	4.211
2	GEOLOGICAL SOCIETY OF AMERICA BULLETIN	2	3.870	4.185
3	GEOCHIMICA ET COSMOCHIMICA ACTA	2	4.331	4.155
4	Elements	2	4.463	4.040
5	JOURNAL OF METAMORPHIC GEOLOGY	2	4.147	3.974
6	LITHOS	2	4.482	3.972
7	QUARTERLY JOURNAL OF THE ROYAL METEOROLOGICAL SOCIETY	2	3.252	3.903
8	Reviews in Mineralogy & Geochemistry	2	4.760	3.815
9	PALEOCEANOGRAPHY	2	3.738	3.651
10	LIMNOLOGY AND OCEANOGRAPHY	2	3.794	3.605
11	TECTONICS	2	3.318	3.600
12	HYDROLOGY AND EARTH SYSTEM SCIENCES	2	3.535	3.588
13	PROGRESS IN OCEANOGRAPHY	2	3.025	3.573
14	JOURNAL OF HYDROMETEOROLOGY	2	3.645	3.497
15	AMERICAN JOURNAL OF SCIENCE	2	2.917	3.482
16	Climate of the Past	2	3.382	3.473
17	CHEMICAL GEOLOGY	2	3.524	3.387
18	JOURNAL OF GEOPHYSICAL RESEARCH	2	3.426	3.347
19	CONTRIBUTIONS TO MINERALOGY AND PETROLOGY	2	3.484	3.327
20	PROGRESS IN PHYSICAL GEOGRAPHY	2	2.612	3.305

序号	期刊名	分区	2014年IF	3年平均IF
21	GEOSTANDARDS AND GEOANALYTICAL RESEARCH	2	3.208	3.257
22	MONTHLY WEATHER REVIEW	2	3.358	3.244
23	INTERNATIONAL JOURNAL OF CLIMATOLOGY	2	3.157	3.147
24	JOURNAL OF GEODESY	2	2.699	3.141
25	ORE GEOLOGY REVIEWS	2	3.558	3.119
26	Atmospheric Measurement Techniques	2	2.929	3.113
27	JOURNAL OF GLACIOLOGY	2	3.240	3.112
28	HOLOCENE	2	2.283	3.098
29	Quaternary Geochronology	2	2.687	3.059
30	BASIN RESEARCH	2	2.732	3.036
31	TELLUS SERIES B-CHEMICAL AND PHYSICAL METEOROLOGY	2	2.147	3.035
32	JOURNAL OF QUATERNARY SCIENCE	2	3.357	2.986
33	OCEANOGRAPHY	2	2.935	2.974
34	GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS	2	2.923	2.972
35	JOURNAL OF PHYSICAL OCEANOGRAPHY	2	2.856	2.969
36	JOURNAL OF THE ATMOSPHERIC SCIENCES	2	3.143	2.950
37	Advances in Geophysics	2	5.167	2.944
38	JOURNAL OF SYSTEMATIC PALAEOLOGY	2	3.727	2.943
39	Earth System Dynamics	2	3.062	2.917
40	IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing	2	3.026	2.909

序号	期刊名	分区	2014年IF	3年平均IF
41	JOURNAL OF HYDROLOGY	2	3.053	2.903
42	TECTONOPHYSICS	2	2.872	2.807
43	ORGANIC GEOCHEMISTRY	2	3.072	2.806
44	SEDIMENTOLOGY	2	2.948	2.767
45	DEEP-SEA RESEARCH PART I-OCEANOGRAPHIC RESEARCH PAPERS	2	2.566	2.736
46	International Journal of Applied Earth Observation and Geoinformation	2	3.470	2.728
47	NEWSLETTERS ON STRATIGRAPHY	2	3.200	2.718
48	OCEAN MODELLING	2	2.927	2.715
49	GEOPHYSICAL JOURNAL INTERNATIONAL	2	2.560	2.712
50	EARTH SURFACE PROCESSES AND LANDFORMS	2	2.845	2.677
51	JOURNAL OF THE GEOLOGICAL SOCIETY	2	2.639	2.674
52	JOURNAL OF ASIAN EARTH SCIENCES	2	2.741	2.650
53	INTERNATIONAL JOURNAL OF BIOMETEOROLOGY	2	3.246	2.647
54	GEOMORPHOLOGY	2	2.785	2.638
55	CLIMATE RESEARCH	2	2.496	2.629
56	PALEOBIOLOGY	2	2.658	2.624
57	Lithosphere	2	3.013	2.623
58	BULLETIN OF VOLCANOLOGY	2	2.519	2.613

小类分区：海洋学期刊

Oceanography and Marine Biology: An Annual Review, 2015, **53**, 215-295
© R. N. Hughes, D. J. Hughes, I. P. Smith, and A. C. Dale, Editors
Taylor & Francis

PALEOCEANOGRAPHY, VOL. 25, PA3205, doi:10.1029/2009PA001831, 2010

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Article

Holocene marine ^{14}C reservoir age variability: Evidence from ^{230}Th -dated corals in the South China Sea

Kefu Yu,^{1,2} Quan Hua,³ Jian-xin Zhao,² Ed Hodge,³ David Fink,³ and Mike Barbetti²

Received 29 July 2009; revised 11 December 2009; accepted 1 April 2010; published 27 July 2010.

[1] The South China Sea (SCS) is well connected with the western Pacific and influenced by the East Asian monsoon. We have examined temporal variations in radiocarbon marine reservoir ages (R) and regional marine reservoir corrections (ΔR) of the SCS during the Holocene using paired measurements of AMS ^{14}C and TIMS ^{230}Th on 20 pristine corals. The results show large fluctuations in both R and ΔR values over the past 7500 years (yrs) with two distinct plateaus during 7.5–5.6 and 3.5–2.5 thousand calendar years before present (cal ka BP). The respective weighted mean ΔR values of these plateaus are 151 ± 85 and 89 ± 59 yrs, which are significantly higher than its modern value of -23 ± 52 yrs. This suggests that using a constant modern ΔR value to calibrate ^{14}C dates of the SCS marine samples will introduce additional errors to the calibrated ages. Our results provide the first database for the Holocene R and ΔR values of the SCS for improved radiocarbon calibration of marine samples. We interpret the two ΔR plateaus as being related to two intervals with weakened El Niño - Southern Oscillation (ENSO) and intensified East Asian summer monsoon (EASM). This is because the ^{14}C content of the SCS surface water is controlled by both the ^{14}C concentration of the Pacific North Equatorial Current (NEC) which is in turn influenced by ENSO-induced upwelling along the Pacific equator and vertical upwelling within the SCS as a result of moisture transportation to midlatitude region to supply the EASM rainfall.

Citation: Yu, K., Q. Hua, J. Zhao, E. Hodge, D. Fink, and M. Barbetti (2010), Holocene marine ^{14}C reservoir age variability: Evidence from ^{230}Th -dated corals in the South China Sea, *Paleoceanography*, 25, PA3205, doi:10.1029/2009PA001831.

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序号	期刊名	分区	2014年IF	3年平均IF
1	LIMNOLOGY AND OCEANOGRAPHY	2	3.794	3.605
2	PROGRESS IN OCEANOGRAPHY	2	3.025	3.573
3	MARINE CHEMISTRY	2	2.735	2.978
4	OCEANOGRAPHY	2	2.935	2.974
5	JOURNAL OF PHYSICAL OCEANOGRAPHY	2	2.856	2.969
6	DEEP-SEA RESEARCH PART I-OCEANOGRAPHIC RESEARCH PAPERS	2	2.566	2.736
7	OCEAN MODELLING	2	2.927	2.715
8	MARINE ECOLOGY PROGRESS SERIES	2	2.619	2.602
9	MARINE GEOLOGY	2	2.710	2.548
10	JOURNAL OF MARINE SYSTEMS	2	2.508	2.546

海洋化学

物理海洋

海洋生态

海洋地质

序号	期刊名	分区	2014年IF	3年平均IF
1	FISHERIES OCEANOGRAPHY 海洋渔业	3	2.543	2.427
2	DEEP-SEA RESEARCH PART II-TOPICAL STUDIES IN OCEANOGRAPHY	3	2.190	2.399
3	ICES JOURNAL OF MARINE SCIENCE	3	2.377	2.393
4	JOURNAL OF PLANKTON RESEARCH	3	2.407	2.368
5	TELLUS SERIES A-DYNAMIC METEOROLOGY AND OCEANOGRAPHY	3	1.756	2.337
6	ESTUARINE COASTAL AND SHELF SCIENCE	3	2.057	2.211
7	Ocean Science	3	2.232	2.119
8	GEO-MARINE LETTERS	3	2.122	2.012
9	CONTINENTAL SHELF RESEARCH	3	1.892	1.965
10	LIMNOLOGY AND OCEANOGRAPHY-METHODS	3	2.254	1.960
11	MARINE AND FRESHWATER RESEARCH	3	1.474	1.902
12	JOURNAL OF SEA RESEARCH	3	1.990	1.891
13	OCEAN DYNAMICS	3	1.943	1.796
14	OCEAN & COASTAL MANAGEMENT	3	1.748	1.705
15	DYNAMICS OF ATMOSPHERES AND OCEANS	3	1.600	1.638

序号	期刊名	分区	2014年IF	3年平均IF
1	Ocean Science Journal	4	1.605	1.605
2	POLAR RESEARCH	4	1.141	1.483
3	ENVIRONMENTAL FLUID MECHANICS	4	1.297	1.453
4	ATMOSPHERE-OCEAN	4	1.398	1.420
5	HELGOLAND MARINE RESEARCH	4	1.364	1.405
6	JOURNAL OF MARINE RESEARCH	4	1.562	1.359
7	BULLETIN OF MARINE SCIENCE	4	1.306	1.312
8	Journal of Operational Oceanography	4	1.050	1.301
9	OCEAN ENGINEERING	4	1.351	1.283
10	MARINE GEODESY	4	1.306	1.276
11	JOURNAL OF OCEANOGRAPHY	4	1.271	1.262
12	IEEE JOURNAL OF OCEANIC ENGINEERING	4	1.175	1.219
13	APPLIED OCEAN RESEARCH	4	1.287	1.207
14	MARINE GEOPHYSICAL RESEARCH	4	1.264	1.027
15	OCEANOLOGIA	4	1.000	0.984
16	TERRESTRIAL ATMOSPHERIC AND OCEANIC SCIENCES	4	0.703	0.823
17	Australian Meteorological and Oceanographic Journal	4	0.939	0.812
18	NEW ZEALAND JOURNAL OF MARINE AND FRESHWATER RESEARCH	4	0.800	0.787
19	JOURNAL OF NAVIGATION	4	0.949	0.753
20	ACTA OCEANOLOGICA SINICA	4	0.747	0.671

序号	期刊名	分区	2014年IF	3年平均IF
21	OCEANOLOGICAL AND HYDROBIOLOGICAL STUDIES	4	0.670	0.646
22	CHINESE JOURNAL OF OCEANOLOGY AND LIMNOLOGY	4	0.657	0.639
23	IZVESTIYA ATMOSPHERIC AND OCEANIC PHYSICS	4	0.568	0.631
24	MARINE TECHNOLOGY SOCIETY JOURNAL	4	0.434	0.623
25	BRAZILIAN JOURNAL OF OCEANOGRAPHY	4	0.662	0.600
26	THALASSAS	4	0.130	0.575
27	REVISTA DE BIOLOGIA MARINA Y OCEANOGRAFIA	4	0.574	0.549
28	OCEANOLOGY	4	0.638	0.518
29	ACTA ADRIATICA	4	0.655	0.498
30	Journal of Ocean University of China	4	0.558	0.470
31	MARINE GEORESOURCES & GEOTECHNOLOGY	4	0.644	0.467
32	Indian Journal of Geo-Marine Sciences	4	0.294	0.313
33	NAVAL ENGINEERS JOURNAL	4	0.074	0.088

小类分区：海洋工程（Marine）

序号	期刊名	分区	2014年IF	3年平均IF
1	MARINE STRUCTURES	1	1.278	1.284
2	OCEAN ENGINEERING	2	1.351	1.283
3	JOURNAL OF MARINE SCIENCE AND TECHNOLOGY	2	0.805	0.789
4	JOURNAL OF SHIP RESEARCH	3	0.821	0.776
5	JOURNAL OF NAVIGATION	3	0.949	0.753
6	Ships and Offshore Structures	3	0.583	0.562
7	Proceedings of the Institution of Mechanical Engineers Part M-Journal of Engineering for the Maritime Environment	4	0.700	0.534
8	International Journal of Naval Architecture and Ocean Engineering	4	0.384	0.319
9	Polish Maritime Research	4	0.330	0.318
10	International Journal of Maritime Engineering	4	0.361	0.304
11	Brodogradnja	4	0.294	0.242
12	Journal of Marine Engineering and Technology	4	0.310	0.214
13	Journal of Ship Production and Design	4	0.205	0.205
14	NAVAL ENGINEERS JOURNAL	4	0.074	0.088

小类分区：海洋工程（Ocean）

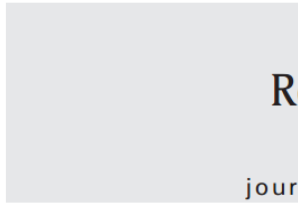
序号	期刊名	分区	2014年IF	3年平均IF
1	COASTAL ENGINEERING	1	2.428	2.243
2	JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY	2	1.725	1.746
3	COASTAL ENGINEERING JOURNAL	2	2.250	1.465
4	OCEAN ENGINEERING	3	1.351	1.283
5	IEEE JOURNAL OF OCEANIC ENGINEERING	3	1.175	1.219
6	APPLIED OCEAN RESEARCH	3	1.287	1.207
7	JOURNAL OF WATERWAY PORT COASTAL AND OCEAN ENGINEERING	4	0.792	0.966
8	MARINE TECHNOLOGY SOCIETY JOURNAL	4	0.434	0.623
9	JOURNAL OF OFFSHORE MECHANICS AND ARCTIC ENGINEERING—TRANSACTIONS OF THE ASME	4	0.570	0.566
10	PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS—MARITIME ENGINEERING	4	0.312	0.563
11	MARINE GEORESOURCES & GEOTECHNOLOGY	4	0.644	0.467
12	INTERNATIONAL JOURNAL OF OFFSHORE AND POLAR ENGINEERING	4	0.517	0.436
13	CHINA OCEAN ENGINEERING	4	0.344	0.384
14	SEA TECHNOLOGY	4	0.101	0.071

小类分区：环境科学

序号	名称	代码	数量	占比
1	Energy & Environmental S			
2	Nature Climate Change			



ELSEVIER



Ecosystem-Based Assessment Indices of Restoration for Daya Bay near a Nuclear Power Plant in South China

XIAOYAN CHEN,^{†,‡} HUIWANG GAO,^{*,†}
 XIAOHONG YAO,[†] HONGDA FANG,[‡]
 ZHENHUA CHEN,[§] AND ZHANZHOU XU[‡]
Key Laboratory of Marine Environment and Ecology (Ocean University of China), Ministry of Education of China, Qingdao, China, South China Sea Environmental Monitoring Center, South China Sea Branch of the State Oceanic Administration, Guangzhou, China, and College of Physical and Environmental Oceanography, Ocean University of China, Qingdao, China

Sea-air CO₂ fluxes in the South China Sea during summer in 2009

Suqing Xu^{a,b,*}, Liqi Chen^a, Haiying Chen^c

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18	ENVIRONMENTAL POLLUTION			
19	CLIMATIC CHANGE			
20	BIOLOGICAL CONSERVATION	2	3,762	3,864

Received March 17, 2010. Revised manuscript received July 19, 2010. Accepted July 22, 2010.

小类分区：海洋与淡水生物学

序号	期刊名	分区	2014年IF	3年平均IF
1	Annual Review of Marine Science	1	14.356	15.035
2	Oceanography and Marine Biology	1	4.091	7.361
3	AQUATIC TOXICOLOGY	1	3.451	3.565
4	CORAL REEFS	1	3.324	3.536
5	Advances in Marine Biology	1	3.483	3.510

Coral Reefs (2014) 33:39-44
DOI 10.1007/s00338-013-1109-y

NOTE

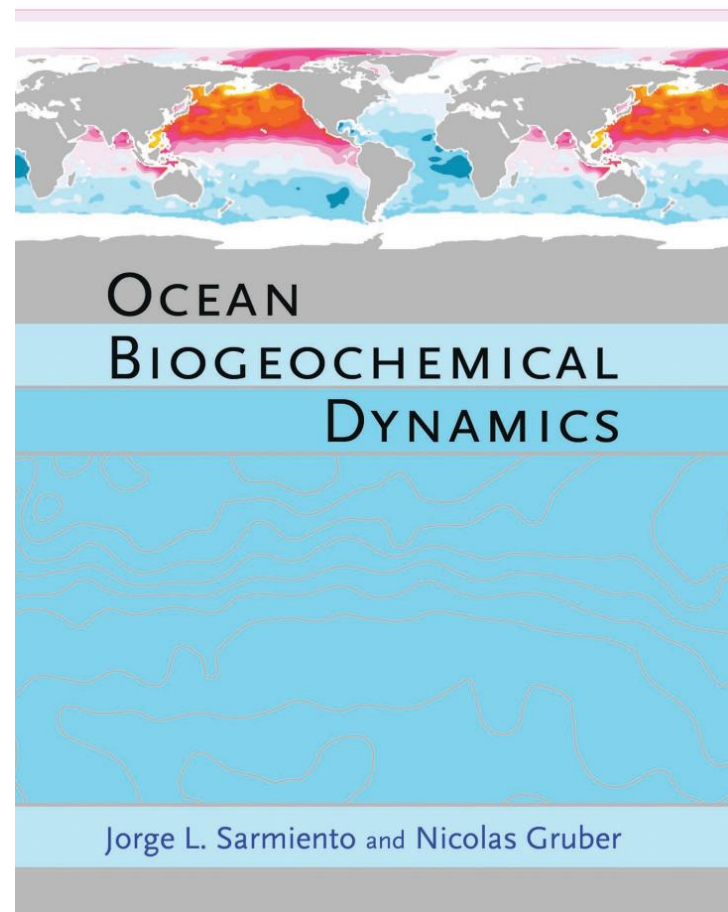
Age structure of massive *Porites lutea* corals at Luhuitou fringing reef (northern South China Sea) indicates recovery following severe anthropogenic disturbance

M. X. Zhao · K. F. Yu · Q. M. Zhang ·
Q. Shi · G. Roff

15	JOURNAL OF MARINE SYSTEMS	2	2.508	2.546
16	JOURNAL OF PHYCOLOGY	2	2.844	2.537
17	REVIEWS IN FISH BIOLOGY AND FISHERIES	2	2.726	2.520
18	MARINE ENVIRONMENTAL RESEARCH	2	2.762	2.476
19	JOURNAL OF APPLIED PHYCOLOGY	2	2.559	2.459
20	Estuaries and Coasts	2	2.535	2.447

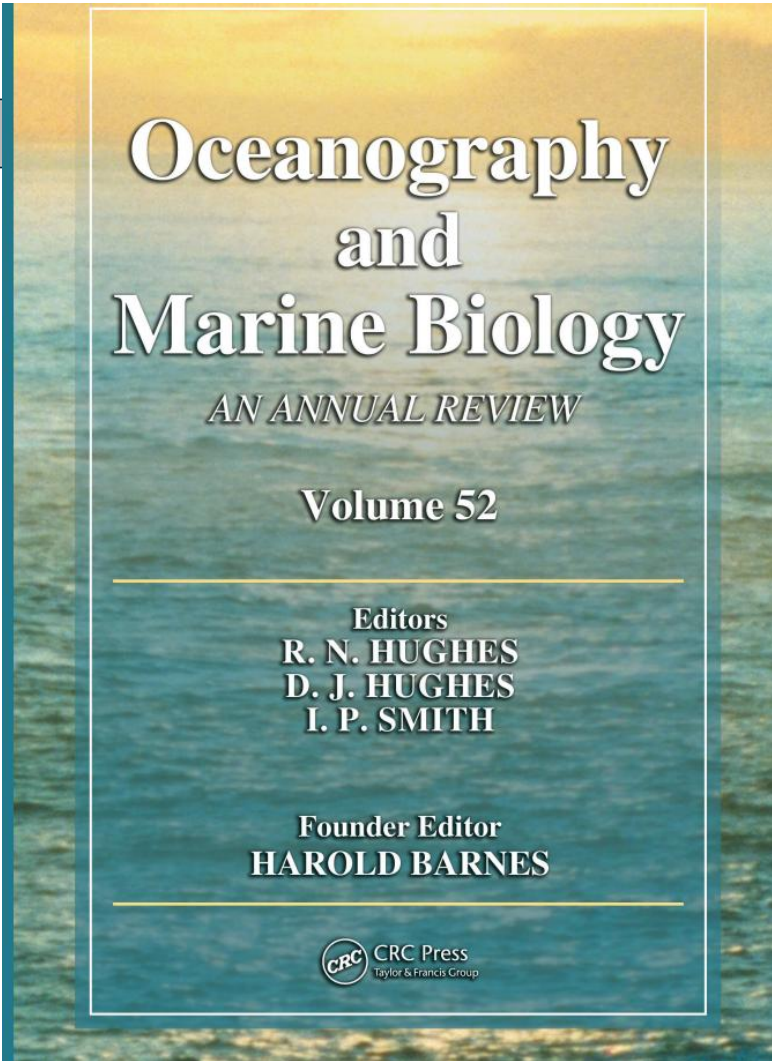
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Kefu Yu^{a, b}, , , , Jian-xin Zhao^b, , Qi Shi^a, , Gilbert J. Price^b, 

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Research paper

Recent massive coral mortality events in the South China Sea: Was global warming and ENSO variability responsible?

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ARTICLE INFO

Article history:
 Received 20 January 2012
 Received in revised form 19 May 2012
 Accepted 20 May 2012
 Available online 4 June 2012

Editor: B. Sherwood Lollar

Keywords:
 Coral bleaching
 Massive coral mortality
 El Niño
 El Niño Southern Oscillation
 Global warming
 South China Sea

ABSTRACT

The key to predicting the possible response(s) of coral reefs to hypothesized future global warming is the knowledge of their response(s) to previous extreme climatic events. We obtained 40 high-resolution (17th age for 78 dead massive Porites colonies from the Nansha Islands, South China Sea, with an aim to understand the long-term history, frequency, timing and causes of local coral mortality. Our results reveal a number of significant episodes of coral mortality since 1860 AD, with an apparent increase in frequency and severity since 1930 AD, and more recently since 1970, especially when only synchronized mortality events found to have occurred on both reefs were compared. The synchronized mortality events centered around 1865–1875, 1895–1900, 1910–1920, 1930–1945, 1970–1985 and 1990–2005 AD, which imply regional common causes, were found to correlate well with the warm phases of the El Niño Southern Oscillation (ENSO) (i.e. El Niño years, e.g. some recent ones during 1972–1973, 1982–1983, 1991–1994, 1997–1998 AD) on inter-annual time scale, as well as with positive phases of the Pacific Decadal Oscillation (PDO) or its sharp phase transitions on inter-decadal time scale. Synchronized coral mortality was absent during prolonged negative PDO phases, e.g. during 1950–1970 AD. Overall, the data shows that immediately before, and at the time of, modern local ecological monitoring, the region's coral communities had already experienced several recent episodes of stress. The increased frequency distribution of mortality ages since 1930 AD and more recently since 1970 AD appears to coincide with progressively warmer sea-surface temperatures, both regionally and globally. Our data highlight the vulnerability of local coral communities in the face of present and predicted future warming.

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1. Introduction

There is unequivocal evidence that coral reefs worldwide are in decline. For example, in the Caribbean, living coral cover decreased from ~50% to just 10% during 1977 to 2001 AD (Cairdler et al., 2003); in Lulubou fringing reef (northern South China Sea), coral cover decreased from ~85% to ~12% between 1960 and 2009 AD (Zhao et al., 2012); and the Great Barrier Reef (Australia) has seen coral cover decline from ~50% to only ~20% from 1960 to 2003 AD (Bellwood et al., 2004). Global warming-induced coral bleaching, ocean acidification due to rising levels of CO₂, outbreak of diseases and predators, and direct human pressures (e.g., over-fishing, increased sedimentation and nutrient runoff) are considered to be among the most significant causes of reef mortality and degradation (Wilkinson, 2004).

history, timing and causes of past reef declines, as well as the prehistoric environmental factors that have shaped the modern reef ecosystems. Of particular importance is an understanding of coral reef responses to previous regional climatic cycles and global warming events. However, our current understanding of coral reef dynamics is based largely upon direct observations during the relatively recent period of ecological monitoring (i.e., post-1960s for most reefs worldwide). Thus, there is a general paucity of information of coral reef response(s) to longer-term impacts prior to the modern period of ecological surveys. If significant coral mortality has occurred before monitoring was in place, then there is an urgent need to overcome the “shifting baseline syndrome” whereby each new generation of managers and scientists have a different view of what constitutes “natural” (Fandolfi et al., 2003).

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Can reef coral be a novel bioindicator for nuclear power plant?

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Abstract: ⁹⁰Sr is one of most concerned artificial radionuclides and is widely measured in the environmental matrices. However, the investigation of ⁹⁰Sr in coral reef is seldom reported, which may be attributed to the spatial mismatching of coral reef (low latitude) and nuclear power plant (middle and high latitude). In this study, ⁹⁰Sr are comparatively researched for coral

总结

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- 数据分析与撰写
- 创新？

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宗旨：追求**自愿、自由、高效、极简**的讨论模式。

时间：原则上定在每周一晚上，8点-9点，绝不超时。时间上希望各位领导和老师避让支持。

讨论模式：尽量做到10分钟背景故事、20分钟问题、30分钟讨论，合计1小时。

发起成员：王丽伟（材料工程、化学组成分析、环境工程等方向）、唐兴颖（环境工程、水处理技术、污染物研究等）、裴继影（仪器分析、有机物检测、质谱分析等）、王少鹏（环境地球化学、仪器分析等）、林武辉（海洋过程、同位素海洋学等）

Other reference

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