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research diary with Kate  
Ricke (climate scientist)  
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Richard Feely - Ocean  
Acidification: Trouble  
for Ocean Ecosystems

Ocean acidification  
explained in two minutes

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Abstract. Ocean acidification (OA)

reduces the concentration of seawater carbonate ions that stony corals need to produce their calcium carbonate skeletons and is considered a significant threat to the functional integrity of coral reef ecosystems. However, detection and attribution

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of OA impact on corals in nature are confounded by concurrent environmental changes, including ocean warming.

## Ocean Acidification Has Impacted Coral Growth on the Great ...

A group of thirteen researchers from six countries has released a new scientific paper

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rejecting an earlier study claiming ocean acidification has no effects of the behavior of coral reef fishes.

Researchers publish rebuttal of prior study on ocean ...

Date Written: October 15, 2013. Abstract.

Ocean acidification, the changing chemistry of the oceans as they absorb

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Acidification Research Paper

carbon dioxide from the atmosphere, is likely to transform many aspects of the global marine environment by mid century, with severe impacts expected for calcifying organisms. This chapter examines how ocean acidification is currently addressed in international law, and what the future may hold in store for the regulation

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of one of the most  
pressing threats to the  
marine ...

Ocean Acidification by  
Tim Stephens :: SSRN

In this paper, we show  
(using boron isotopes  
and Earth system  
modeling) that the  
impact caused rapid  
ocean acidification, and  
that the resulting  
ecological collapse in the

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oceans had long-lasting effects for global carbon cycling and climate. Our data suggest that impact, not volcanism, was key in driving end-Cretaceous mass extinction.

Rapid ocean acidification and protracted Earth system ...

Nature Climate Change has two papers—one about the affect of

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acidification on several different species, and the other on how ocean acidification causes even more global warming. For the first paper , German researchers surveyed previous studies that dealt with the consequences of ocean acidification for marine species from five animal taxa: corals, crustaceans, mollusks, fish, and

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echinoderms.

## Acidification Research Paper

Ocean Acidification

Research | California

Academy of Sciences

in carbonate due to  
ocean acidification.

Recent research indicates  
that ocean acidification  
might also result in  
increasing levels of  
jellyfish in some marine  
ecosystems. Aside from  
direct effects, ocean



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acidification together  
with other global change-  
induced impacts such as  
marine and coastal  
pollution and the  
introduction of invasive  
alien

Impacts of Ocean  
Acidification - European  
Science Foundation

Ocean acidification  
(OA) threatens coral reef  
futures by reducing the

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concentration of carbonate ions that corals need to construct their skeletons. However, quantitative predictions of reef futures under OA are confounded by mixed responses of corals to OA in experiments and field observations.

[Ocean acidification affects coral growth by reducing ...](#)

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Ocean acidification is a problem that impacts the ocean ecosystem as well as commercial industries like oyster farms. This topic can be taught in conjunction with lessons about food webs and ecosystems, the environmental impacts of climate change and CO<sub>2</sub> emissions, and chemistry lessons concerning real-life applications. Students

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can explore data, including real-time information about carbon dioxide levels in seawater and in the atmosphere.

[Ocean acidification | National Oceanic and Atmospheric ...](#)

The NOAA Ocean Acidification Program coordinates research, monitoring, and other

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activities to improve our understanding of how (and how fast) the chemistry of the ocean is changing, how variable that change is by region, and what impacts these changes are having on marine life, people, and the local, regional, and national economies.

[OAP Home](#)

Ocean Acidification

*Page 21/35*

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Essay. 861 Words4 Pages.

The topic of this research paper will cover over

Ocean Acidification and the effects on marine ecosystems. Ocean acidification is the decrease in pH levels of the Earth 's oceans, due to overbearing carbon dioxide being brought by the atmosphere. The carbon dioxide is drawn by seawater, where the

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chemical reactions take place, which minimize the pH levels in the ocean, the carbonate levels and the important calcium carbonate which these sea ...

Ocean Acidification  
Essay - 861 Words |  
Internet Public ...

Specifically, we explore how ocean acidification affects the quantity and

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quality of resources key to human health and well-being in the context of:

(1) malnutrition and poisoning, (2) respiratory issues, (3) mental health impacts, and (4) development of medical resources.

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Ocean Acidification and  
Human Health  
Effects of Ocean and



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Coastal Acidification on  
Marine Life. B The  
minerals that animals  
build their shells out of  
are calcium carbonate  
compounds. y releasing  
carbon dioxide to the  
atmosphere, humans are  
rapidly altering the  
chemistry of the ocean  
and affecting marine life.  
The acidity of the ocean  
has increased by about  
25% since before the

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Industrial Revolution,  
greater than any other  
time within the last two  
million years.

## Effects of Ocean and Coastal Acidification on Marine Life ...

In a recent paper, coral  
biologists reported that  
ocean acidification could  
compromise the  
successful fertilization,  
larval settlement and

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Acidification  
Research Paper

survivorship of Elkhorn coral, an endangered species. These research results suggest that ocean acidification could severely impact the ability of coral reefs to recover from disturbance.

## What is Ocean Acidification?

At its core, the issue of ocean acidification is simple chemistry. There

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are two important things to remember about what happens when carbon dioxide dissolves in seawater. First, the pH of seawater water gets lower as it becomes more acidic.

## Ocean Acidification | Smithsonian Ocean

Ocean acidification is the ongoing decrease in the pH of the Earth's oceans,

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caused by the uptake of carbon dioxide ( $\text{CO}_2$ ) from the atmosphere.

The main cause of ocean acidification is the burning of fossil fuels. Seawater is slightly basic (meaning  $\text{pH} > 7$ ), and ocean acidification involves a shift towards pH-neutral conditions rather than a transition to acidic conditions ( $\text{pH} < 7$ ).

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## Acidification

[Ocean acidification -  
Wikipedia](#)

The Ocean Acidification Program is soliciting proposals for collaborative projects of up to 3 years in duration that synthesize ocean acidification information at a regional scale (e.g. Large Marine Ecosystem, large estuary or collection of small estuaries, and

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state or collection of states in US waters) to determine where societal vulnerabilities to ocean acidification exist or are emerging, in order to provide actionable information for marine resource decision makers.

Research Proposals -  
Ocean Acidification  
Program

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This briefing paper  
from the International  
Ocean Acidification  
Reference User Group  
provides essential  
information and  
highlights the actions  
needed on ocean  
acidification by  
Governments at Rio+20  
There is little doubt that  
the ocean is undergoing  
dramatic changes that  
will impact many human



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Acidification  
Research Paper

lives now and ever more  
so in the coming  
generations, unless we act  
quickly and decisively.

## International Union for Conservation of Nature - IUCN

A multidisciplinary field  
of research such as ocean  
acidification brings  
together various research  
expertise including  
engineering sophisticated

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systems to manipulate and monitor seawater carbonate chemistry, building systems that can house organisms for long periods, and expertise in measuring the appropriate physiological /biogeochemical/ecological responses to ocean acidification.

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