

**The following presentation focuses on one of the most pressing issues facing our stewardship of our planet. When we examine the different issues I want you to make a note of the one that will effect you and your decedents the most. Then you will follow the instructions below.**

- Which of the 11 issues would have the greatest impact on your immediate family and their next two generations the most? Provide support for your answer.
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# Patterns in Chaos

**Is it a conspiracy, fact, a divine act, what's the deal?**



**Who really gets the blame?**

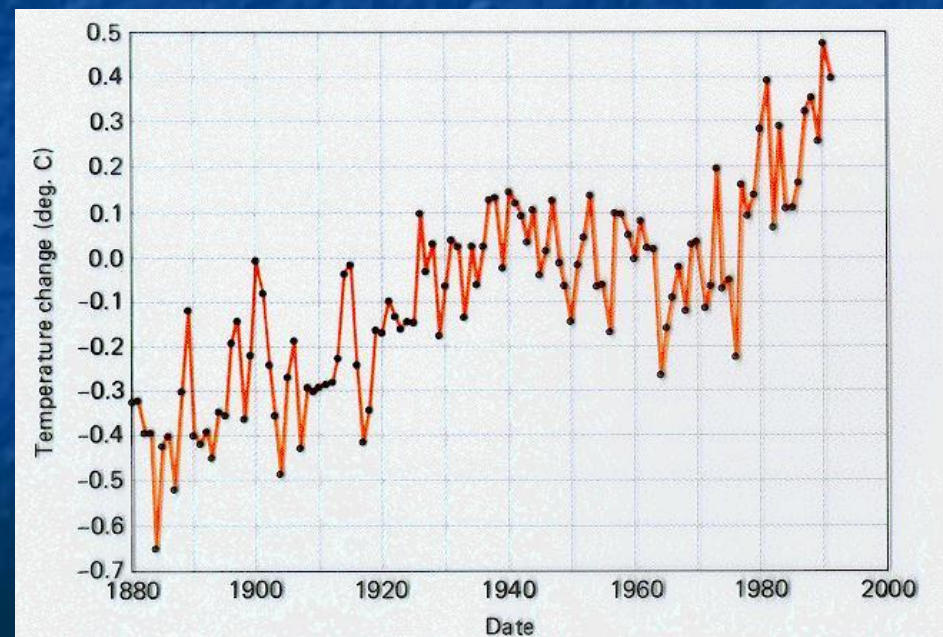


**Presented by  
Gary K. Wolfe**

**Marine and Environmental Educational Specialist  
Eau Gallie High School, Melbourne, Florida  
Rollins College, Winter Park, Florida**

# Question

Is global warming due to human activity, natural cycling or a combination of both?

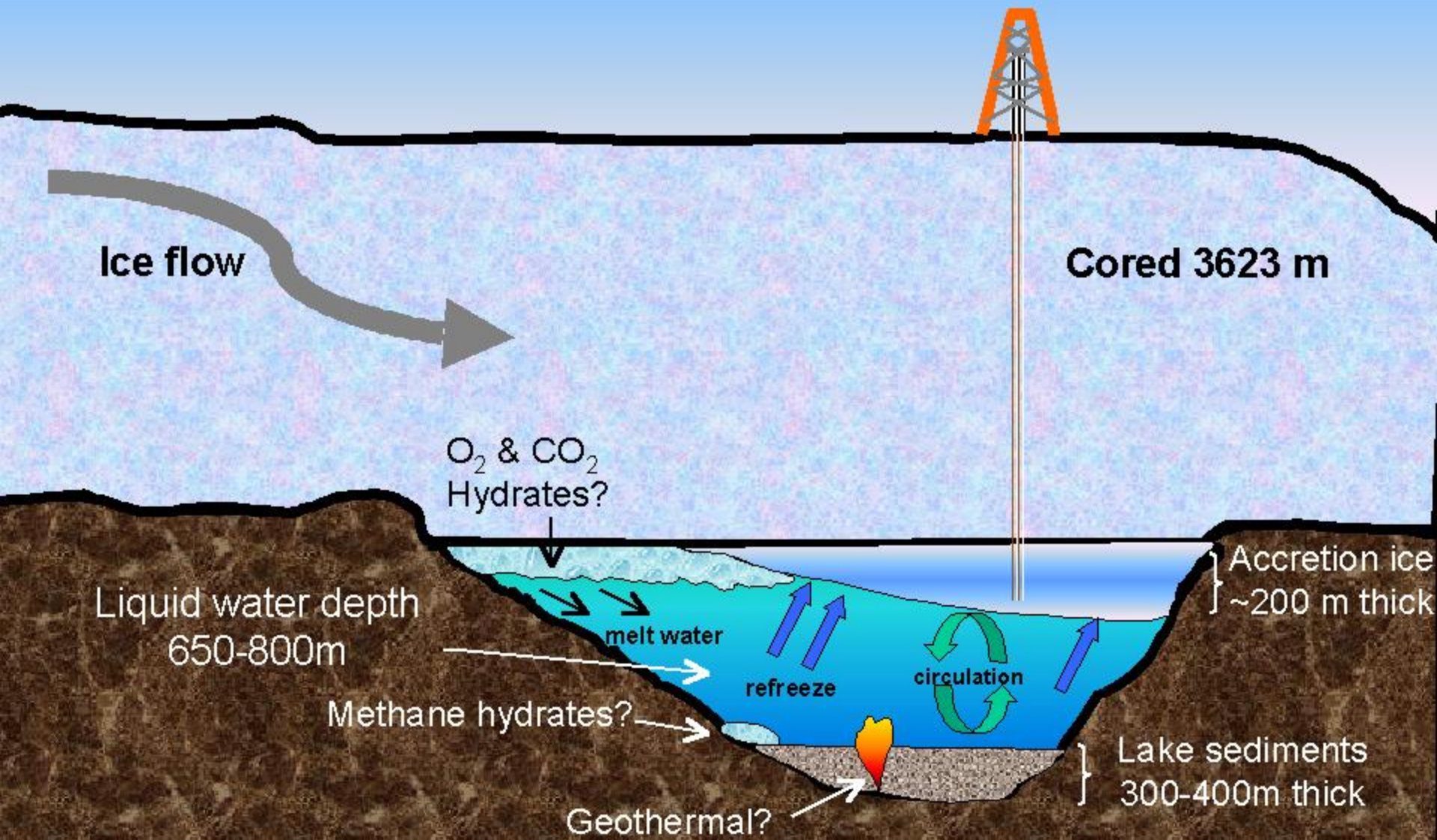


***"The farther backward  
you can look,  
the farther forward you  
are likely to see."  
- Winston Churchill***

**How do we look in the past?**

# LAKE VOSTOK

Vostok Station

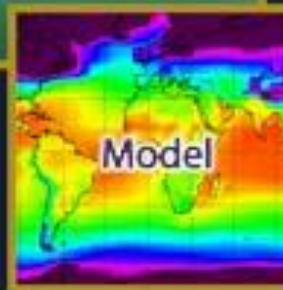


# Vostok Ice Core Analysis

## A Lesson in Paleoclimatology



# NOAA Paleoclimatology



# Issue #1

## The Effects of Global Climate Change on the Arctic Ice Cap



## Issue #2

# The Effects of Global Climate Change on Tropical Coral Reefs



# Issue #3

## The Effects of Climate Change on Indigenous Cultures of the Arctic.



# Issue #4

## The Effects of Global Climate Change on Low Lying Islands.



## Issue #5

# The Effects of Global Climate Change on Coastal Metropolitan Regions



## Issue #6

# The Effects of Global Climate Change on Hurricane Frequency and Intensity



## Issue #7

The Effects of Global Climate Change on Polar Bears and other species that require very specific ecological conditions.



# Issue #8

## The Effects of Global Climate Change on Coastal Erosion



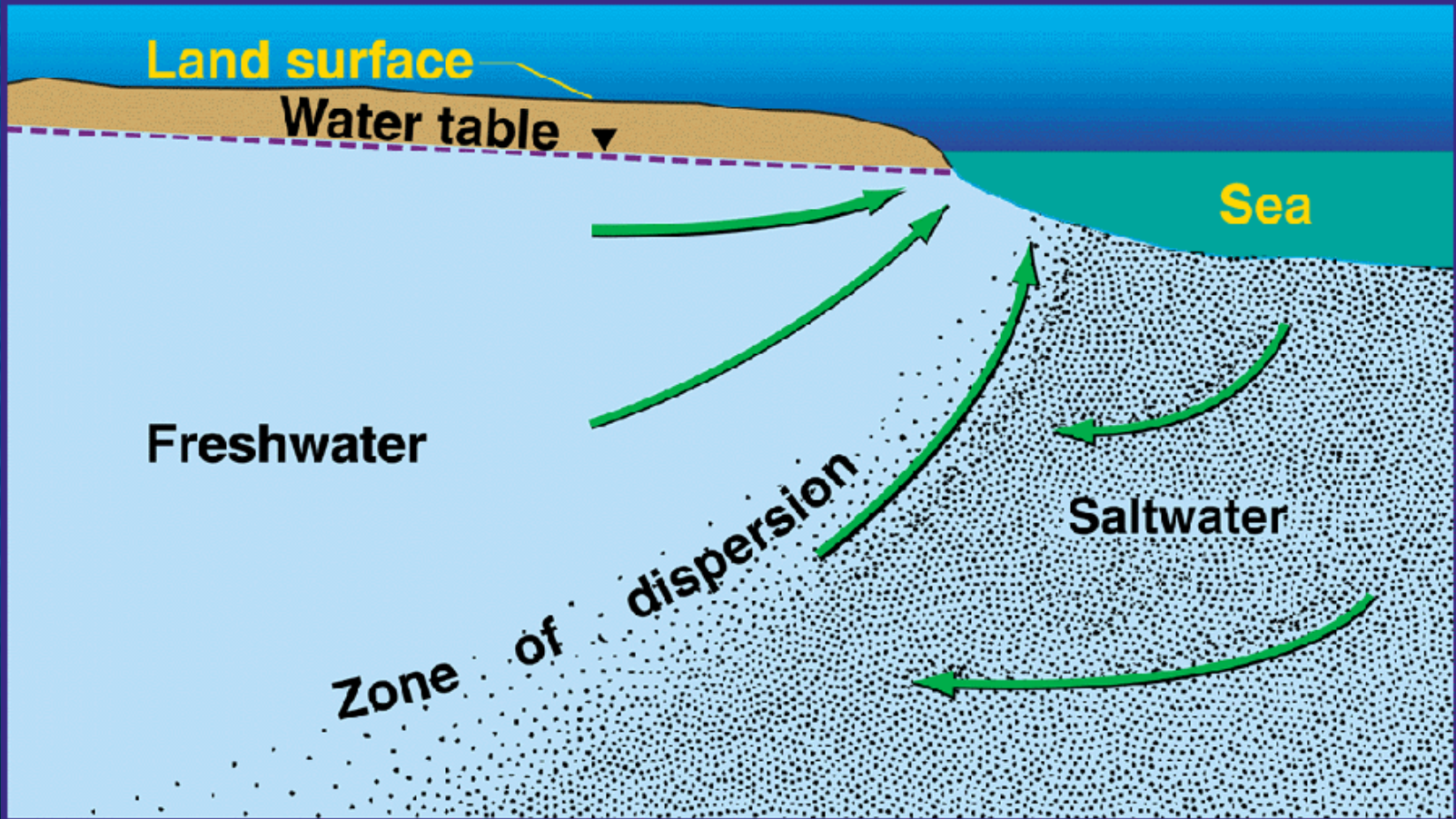
# Issue #9

## Effects of Global Climate Change on Marine Food Webs and Energy Flows



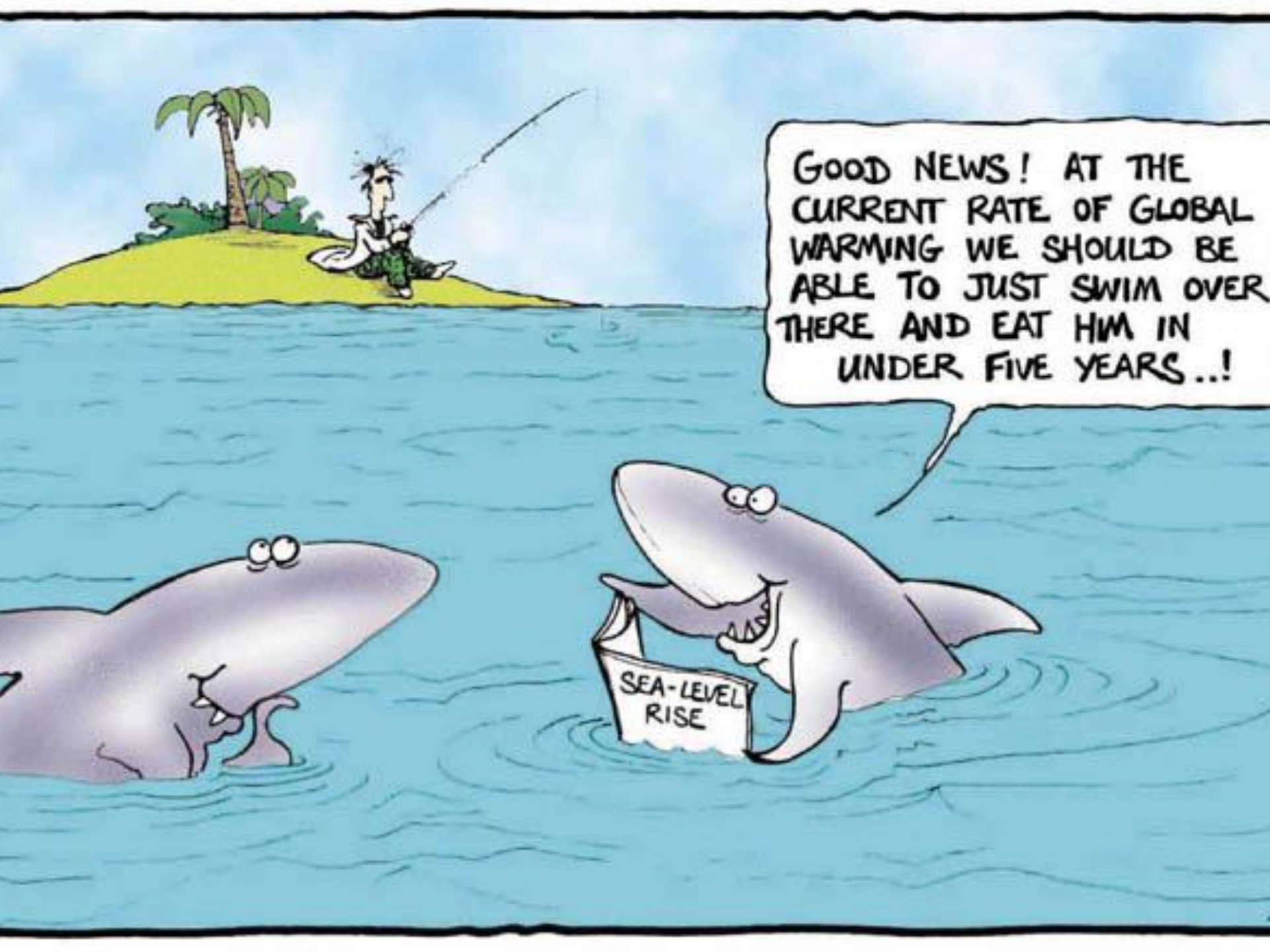
# Issue #10

## Effects of Global Climate Change on Saltwater Intrusion and Coastal Freshwater Drinking Supplies





**Issue #11: Affects on Biological Cycles**



GOOD NEWS! AT THE  
CURRENT RATE OF GLOBAL  
WARMING WE SHOULD BE  
ABLE TO JUST SWIM OVER  
THERE AND EAT HIM IN  
UNDER FIVE YEARS..!

SEA-LEVEL  
RISE

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