NASA-led scientists say ocean data ties manmade emissions to warmer Earth

Researchers with the National Oceanic and Atmospheric Administration found that rising ocean temperatures are due to an increase in carbon dioxide and other manmade greenhouse gases. The atmosphere is getting warmer than normal, and human activity is responsible.

Researchers say the finding confirms that computer models of climate change are accurate and that global temperatures will rise 1 degree Fahrenheit (0.56 degrees Celsius) this century, unless significant changes are made to reduce greenhouse gas emissions.

This study, published in the journal Science, is the latest to report growing certainty about global warming predictions.

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Robots measure warming seas

Researchers with the National Oceanic and Atmospheric Administration have developed a robot called "Argus" that can monitor ocean temperature changes. The robot will be deployed in the Pacific Ocean to measure changes in sea temperature.

Researchers also developed a miniaturized sensor that can be used in robotic vehicles to measure ocean temperatures. The sensor will be tested in the Great Barrier Reef.

Researchers say the findings confirm that manmade greenhouse gases are responsible for warming the oceans.

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Argo Data System
U.S. Argo
Delayed Mode Salinity QC

Example of a float with salinity drift:

- Float trajectory (red) & historical data locations (blue dots)
- Original float T-S diagram (lines) with historical map (o’s with error bars). Both progress blue to red over float life.

- Float Salinity (blue) drifts w.r.t. historical map (red with error bars) and adjusted values (green shading shows error estimate) on deep isotherm
- Adjusted T-S diagram after QC