

# 2011 Educator Fellowship Program



**Do you teach middle school math or science?**

**Through our partnership with the Northrop Grumman Foundation you may be eligible for an Earthwatch Fellowship! If selected you will...**

**Receive** funding to participate on one of Earthwatch's exciting expeditions in the arctic or Bahamas.

**Join** a team of educators for 1 to 2 weeks over the summer and conduct environmental research with leading scientists.

**Share** experiences with your students and community through lesson plans and community events inspired by your experience.

For more information and to apply visit the [Northrop Grumman Foundation](http://NorthropGrummanFoundation.org) website or [earthwatch.org/Northrop](http://earthwatch.org/Northrop).

## Take a look!

Here are the research expeditions available through this opportunity!

### *Coastal Ecology of the Bahamas*

*June 27- July 8, 2011*

The Bahamian archipelago is a unique ecosystem, constituting 700 islands and 2000 cays in the northeast Caribbean Sea. Tourism is a major industry in the Bahamas, depicted as an exotic paradise because of the sandy beaches, turquoise seas and tropical weather. However, due to the small size of the islands and their ecology, there are limitations to the level of development that can occur without irreversible environmental changes occurring.

Work with Dr Kathleen Sullivan-Sealey and help develop a model to predict the potential biological diversity fisheries production of Bahamian coastal marine communities and test remediation strategies for destroyed and degraded habitats.



### *Climate Change at the Arctic's Edge*

*June 19- 29, 2011*

Global warming is being felt first and most dramatically at the edge of the Arctic, where the world's peatlands run in a broad strip around the globe. These wetlands contain as much as 20 percent of the world's carbon, often locked in permafrost. If global warming thaws the permafrost, the decomposing peat could release carbon dioxide and methane, the most important greenhouse gases. What happens to the peat here will not only alter the local ecosystem, but could also have dramatic consequences for the ecology of the entire planet. You can help Dr. Peter Kershaw monitor ecosystem responses to global warming at the Churchill Northern Studies Center, perched on the edge of the Arctic tundra in Manitoba.

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