

TRANSCRIPT FROM NOAA/GFDL EDUCATIONAL VIDEO:

PATTERNS OF GREENHOUSE WARMING

[PRODUCTION DATE: JUNE 2009; VIDEO LENGTH: APPROX 2:11]

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[music - approx 5 seconds]

ANNOUNCER [KF]: Patterns of Greenhouse Warming: Animations and graphics displaying results of climate model experiments.

NARRATOR [TD]: This animation shows a computer climate model projection of how surface air temperatures may change during the 21st century.

The temperature changes are in response to increasing levels of greenhouse gases and variations in the amount of aerosols in the Earth's atmosphere.

You can see the annually averaged surface air temperatures rising as time progresses, though the rate of warming differs from place to place.

The air over the continents warms more quickly than over the oceans, and the warming tends to be the largest in the high northern latitudes of the Northern Hemisphere.

The patterns of greenhouse gas-induced warming also vary seasonally.

As seen in this image, the greatest warming is expected to occur during the winter months in northern North America and north-central Asia.

These results are from the NOAA GFDL CM2.1 climate model, and are consistent with a broad consensus of modeling results and the conclusions found in the 2007 reports of the Intergovernmental Panel on Climate Change.

[music - approx 40 seconds]

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