









Arctic Report Card 2007

Tracking recent environmental changes

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|  Atmosphere |  Biology |
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Warming and mixed signals

Collectively, the observations indicate that the overall warming of the Arctic system continued in 2007. There are some elements that are stabilizing or returning to climatological norms. These mixed tendencies illustrate the sensitivity and complexity of the Arctic System.



Atmosphere
Hot spot shifts toward Europe



Sea Ice
Summer extent at record minimum



Biology
• Increasing tundra shrub cover and variable treeline advance
• Up to 80% declines in some caribou herds, while goose populations double



Ocean
North Pole
Temperatures at depth returning to 1990s values



Greenland
Recent warm temperatures associated with net ice loss



Land
Increase in permafrost temperatures is slowing down

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[BAMS State of the Climate in 2006: Executive Summary \(PDF\)](#) :: [Full report \(PDF\)](#)



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