## Arctic Report Card: Update for 2012 Tracking recent environmental changes Home About Printouts \* **Previous Report Cards NOAA Arctic Theme Page** Contacts HOME **Executive Summary** ¥ More info What's new in 2012? **ATMOSPHERE** New records set for snow Temperature & Clouds extent, sea ice extent and ice Ozone & UV Radiation sheet surface melting, despite Greenhouse Gases air temperatures - a key cause of melting - being unremarkable relative to the last decade. **SEA ICE & OCEAN** Sea Ice Multiple observations provide Ocean strong evidence of widespread, MARINE ECOSYSTEMS sustained change driving Arctic environmental system into new Seabirds **Primary Productivity & Nutrients Barrow Canyon Ecosystem** Fish & Fisheries **Highlights Marine Mammals** Benthos Duration of melting was the Record low snow extent and low Arctic fox is close to extinction TERRESTRIAL ECOSYSTEMS sea ice extent occurred in June longest observed yet on the in Fennoscandia and vulnerable to

and September, respectively.

Growing season length is increasing along with tundra greenness and above-ground biomass. Below the tundra, record high permafrost temperatures occurred in northernmost Alaska.

Greenland ice sheet, and a rare, nearly ice sheet-wide melt event cycle and the encroaching Red fox. occurred in July.

Massive phytoplankton blooms below summer sea ice suggest previous estimates of ocean primary productivity might be ten times too

further changes in the lemming

Severe weather events included extreme cold and snowfall in Eurasia, and two major storms with deep central pressure and strong winds offshore of western and northern Alaska.



Waders (Shorebirds)

Caribou & Reindeer

Glaciers & Ice Caps Greenland Ice Sheet Permafrost

TERRESTRIAL CRYOSPHERE

Vegetation

Lemmings

Arctic Fox

Snow









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