



Cleaning up in Unalakleet after the big storm. Photo by Victoria Kotongan

Local Environmental Observer (LEO) Network Map – View our November map for a new observation about unusually warm weather and open water on Yukon River, evidence of a shrimp die off in Metlakatla, delayed winter in Nondalton and increasing PSP levels in King Cove. [ANTHC](#). Visit our [archives](#) and follow us on [Facebook](#)

Climate Events in the Circumpolar North - View our November map to see media reports from around the circumpolar north. In *USA*, warm weather causes freezing rain in Fairbanks, restless bears in Talkeetna and Anchorage, and a violent winter storm results in damage and disaster in Western Alaska. In *Canada*, the cause of a sudden increase in giardiasis in Ontario is unknown. In *Sweden*, drought in the south raises concerns about groundwater supply. In *Russia*, record high temperatures in Moscow. [ANTHC](#)

Preparing for hell and high water: researchers advocate for climate adaptation science November 7, 2013. As climate changes get more pronounced, people everywhere will have to adjust. An international group of researchers urge the development of appropriate science. As an example of how practical and basic research can work together, Moss described work in the U.S. involving water utilities, university scientists, and private firms to pilot use of climate models and water utility modeling to design resilient water systems. [ScienceDaily](#)

Northwest Arctic sheefish study finds healthy spawners November 8, 2013. Scientists congregated at the Selawik River sheefish spawning grounds this fall to continue a three-year study of the Arctic fish. One of the reasons for the ongoing study is to establish whether or not the "permafrost thaw slump" in 2004, which happened 40 miles upriver from the spawning grounds and turned the usually-clear river water turbid and silty, has affected the population. [Arctic Sounder](#)

Why timing of bird migration is changing November 12, 2013 Researchers at the University of East Anglia have found out why birds are migrating earlier and earlier each year. Experts have long suspected climate change is somehow driving this advancing migration pattern. But new research published today reveals that individual birds migrate like clockwork -- arriving at the same time each year. However, climate warming is resulting in earlier nesting and hatching earlier each year, and this appears to be linked to the advancing migration. [ScienceDaily](#)

Relief efforts mobilize in Western Alaska villages as new storm approaches. November 14, 2013. Relief operations mobilizing in the western coastal village of Kotlik as several hundred people were sheltering in the local school Wednesday to evade forecasted floodwaters. More than 250 people, or nearly half the village, fled low lying homes for the school's higher ground. According to Dana Bach with YKHC "We have never had coastal flooding situation like this where the water has come up in the winter months." [Anchorage Daily News](#)

Polar Bear Attacks: Scientists Warn of Fresh Dangers in Warming Arctic November 4, 2013. A polar bear attack in Canada that left two people injured has brought new warnings from scientists of a dangerous rise in human-bear encounters in a warming Arctic. The friends had just walked out of the door in the pre-dawn hours after a party when the young polar bear crept up behind them, unheard and unseen. [The Guardian](#)

Video of the Week – Time lapse cameras at work documenting local environment November 14, 2013. This two minute video by ANTHC shows a daily image of Nondalton Alaska, from July 5th, to November 25th 2013. The cameras were installed by the Nondalton Tribal Council, Bristol Bay Native Association, and the ANTHC Local Environmental Observer (LEO) Network to provide long term observations of environmental conditions. According to Charlotte Balluta with the Nondalton Traditional Council, the video documents unusually conditions including high water level in the lake delayed snowfall, and delayed freeze up of the lake. [YouTube](#)

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Regards – Mike

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