

Metadata Details

Title

Brown carbon and HULIS in the Arctic

Science Keywords

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Summary

Abstract

The Arctic is a particularly sensitive region to global climate change. In this context, there is an increased need in understanding the role of atmospheric aerosols in changing the snow Albedo, phenomenon like "Arctic haze" and "thinning of Arctic Sea" and perturbation to the radiation balance in the Arctic region. A more realistic evaluation of these changes is possible when long term measurements are made available from remote Arctic locations. It is important to note that while air pollution in most heavily populated areas of the world comes predominantly from local and regional emissions, pollution in the remote Arctic is primarily a result of long-range transport from source regions outside the Arctic. The strong anthropogenic influence over the Arctic Region is primarily due to the position of the Arctic polar front and presence of human population in Europe, North America and North Asia located north of polar front. In addition, the feedback and coupling between the Arctic.

Purpose

The Arctic is a particularly sensitive region to global climate change. In this context, there is an increased need in understanding the role of atmospheric aerosols in changing the snow Albedo, phenomenon like "Arctic haze" and "thinning of Arctic Sea" and perturbation to the radiation balance in the Arctic region. A more realistic evaluation of these changes is possible when long term measurements are made available from remote Arctic locations. It is important to note that while air pollution in most heavily populated areas of the world comes predominantly from local and regional emissions, pollution in the remote Arctic is primarily a result of long-range transport from source regions outside the Arctic. The strong anthropogenic influence over the Arctic Region is primarily due to the position of the Arctic polar front and presence of human population in Europe, North America and North Asia located north of polar front. In addition, the feedback and coupling between the Arctic.

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