# Metadata Details

**Title**

Investigations of atmospheric aerosols and there characterization over the Arctic during summer season

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**Science Keywords**

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|---|---|
| Category | Atmosphere |
| Topic | Aerosols |
| Expedition Year | 2015-2016 |
| **ISO Topic** | Atmosphere |

**Summary**

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Abstract

Polar regions hold an important place while answering the key questions about the global climate change. The role of atmospheric aerosols in producing the ?Arctic haze? and associated phenomenon is well recognized. In view of reports on thinning of Arctic sea ice and phenomenon like Arctic haze due to increase in the industrialization in northern hemisphere, there is an increased need for a better understanding of aerosol properties as well as aerosol interaction with radiation in the Arctic regions. Arctic atmosphere is impacted by long range transport of dust and also from the emissions from mid latitude regions. Characterization of absorbing aerosols over high reflecting surfaces of snow and ice in Arctic are important, as they can reduce the surface albedo, thereby perturbing the radiation balance of Earth atmosphere system.

Purpose

Polar regions hold an important place while answering the key questions about the global climate change. The role of atmospheric aerosols in producing the ?Arctic haze? and associated phenomenon is well recognized. In view of reports on thinning of Arctic sea ice and phenomenon like Arctic haze due to increase in the industrialization in northern hemisphere, there is an increased need for a better understanding of aerosol properties as well as aerosol interaction with radiation in the Arctic regions. Arctic atmosphere is impacted by long range transport of dust and also from the emissions from mid latitude regions. Characterization of absorbing aerosols over high reflecting surfaces of snow and ice in Arctic are important, as they can reduce the surface albedo, thereby perturbing the radiation balance of Earth atmosphere system.


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**Data Center**