**Ecosystem Type: ICE AND SNOW**

**Category: Clean Air**

1. **Materials**

***Supplier*** – A study found that snowpacks and ice sheets provide a sink for sulfate, a pollutant that affects the atmosphere (Jaffrezo et al., 1994).

***Driver*** – not applicable

***Demander*** – not applicable

1. **Nutrition**

***Supplier*** – not applicable

***Driver*** -not applicable

***Demander*** - not applicable

1. **Energy**

***Supplier*** – not applicable

***Driver*** – not applicable

***Demander*** - not applicable

1. **Mediation of Waste, Toxics, and Other Nuisances**

***Supplier*** – not applicable

***Driver*** – not applicable

***Demander*** – not applicable

1. **Mediation of Flows**

***Supplier*** – not applicable

***Driver*** – not applicable

***Demander*** – not applicable

1. **Maintenance of Physical, Chemical, and Biological Indicators**

***Supplier*** – not applicable

***Driver*** – not applicable

***Demander*** – not applicable

1. **Spiritual, Symbolic, Religious, and Social Experiences**

***Supplier*** – not applicable

***Driver*** –not applicable

***Demander*** – not applicable

1. **Physical and Intellectual Interactions w/ Biota, Ecosystems, and Land/Seascapes**

***Supplier*** –not applicable

***Driver*** – not applicable

***Demander*** - not applicable

**Sources:**

Jaffrezo, J.L. et al. (1994) Sulfate and MSA in the air and snow on the Greenland Ice Sheet. *Journal of Geophysical Research, 99*(D1), 1241-1253. DOI: 10.1029/93JD02913. [abstract only]