SnowNoSnow 2018

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Ny-Ålesund, Svalbard islands (Norway)

# Short abstract

The campaign was scheduled considering different tasks: fieldwork was focused on installing a terrestrial camera at the Climate Change Tower facility, on surveying the available cameras in the area and on identifying ground control points useful for the geometrical correction of the cameras available in the Ny Alesund area. Spectral measurements were carried out in order to update the existing snow spectral library.

# Keywords

*Fractional snow cover, snow reflectance, satellite multispectral image, terrestrial photography*

# Scientific question

Terrestrial photography provides information about the snow cover that can be combined to remotely sensed images in order to enhance the estimation of the snow cover extension at high latitudes. Ground-based cameras support the availability of long time series concerning the fractional snow cover and the macro-physical characteristics of the surface under heavy cloud conditions.

# Location:

Hemisphere: *North*

Location coordinates (in Google form): *78.917498, 11.894075*

Campaign start and end dates: *8.04.2018 - 20.04.2018*

Type of measurements (mark with an x):

|  |  |  |  |
| --- | --- | --- | --- |
| Ground-based in-situ | Ground-based remote sensing | Airborne in-situ | Airborne remote sensing |
| X |  |  |  |

# Measured parameters:

Aerosols, details:

Gases, details:

Clouds, details:

Others, what: Fractional snow cover, snow reflectance

# Part of a bigger project / activity / infrastructure? If yes, which one?

Climate Change Tower infrastructure

# Participating institutes

*National Research Council of Italy (Institute of Atmospheric Pollution Research)*

# Additional participation possible? Wishes

# Optional files (e.g. map)