

Subproject: Air-Ice Fluxes And The Spring/Summer Evolution Of The Surface Heat Budget (SEB)

Actual field dates: April 14 – June 30, 2014

Field site: Cambridge Bay, Nunavut, Canada

Number of man-days in the field: 125

Summary:

An eddy covariance flux and microclimate tower was installed over first-year sea ice near to the community of Cambridge Bay. The resulting data has undergone preliminary processing and will be subject to post-processing by MSc students Diaz and Wickström. The data record covers the seasonal episodes of pre-melt to advanced melt, and as such provide an opportunity to document the response of the CO₂ and heat fluxes to changes (physical, chemical and biological) in the underlying ice.

Photos:

Fig.1: Flux tower over first-year sea ice

Credit: Jens Ehn

Fig. 2: Site visit at flux tower

Credit: Jens Ehn

Fig. 3: Research site showing melt-pond development

Credit: Jens Ehn

Participants:

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Figure 1



Figure 2



Figure 2