

Subproject: Ozonesonde programme – Tropospheric ozone in the summertime Arctic

Actual field dates: July 15-Aug 23rd, 2014
 Field site: Labrador Resolute Bay
 Number of man-days in the field: 8

Summary:

Ozonesondes were deployed on July 15th, 17th, 20th, 21st, and 23rd in conjunction with Polar6 NETCARE flights. Ozonesonde profiles highlight anomalous behavior in the lower troposphere during unusually strong northerly winds and the opening of flaw leads in the vicinity of Resolute. Differences between land- and marine-based ozonesonde measurements are also observed. Difficulties encountered include issues associated with an inability to extract the recorded data using Vaisala software. As a result, ozonesonde data was processed and provided to CEOS by Jonathan Davies from Environment Canada.

Photos:

Fig. 1: Map of the study area within Resolute Bay showing marine- and terrestrial-based ozonesonde measurement locations.

Credit: Jennifer Lukovich

Fig. 2: Lauren Candlish release a radiosonde from the Amundsen

Credit: Lauren Candlish

Fig. 3: Flight path of Polar6 for NETCARE campaign during ozonesonde programme. Credit: Lauren Candlish

Fig. 4: Preparation of ozonesondes prior to deployment.

Credit: Lauren Candlish

Participants:

Lauren Candlish (CEOS); Jennifer Lukovich (CEOS); Masayo Ogi (CEOS); Ralf Staebler (Env Canada); Jonathan Davies (CEOS); David Taraski; David Barber (CEOS)

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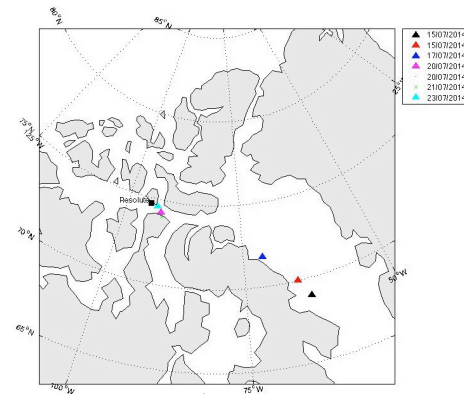


Figure 1



Figure 2

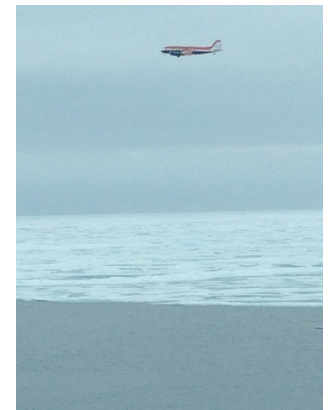


Figure 3

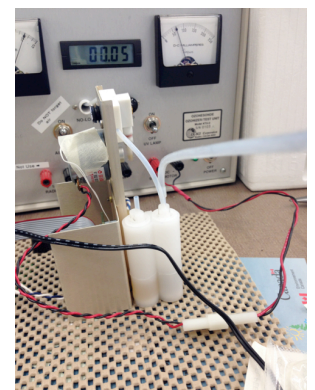


Figure 4