



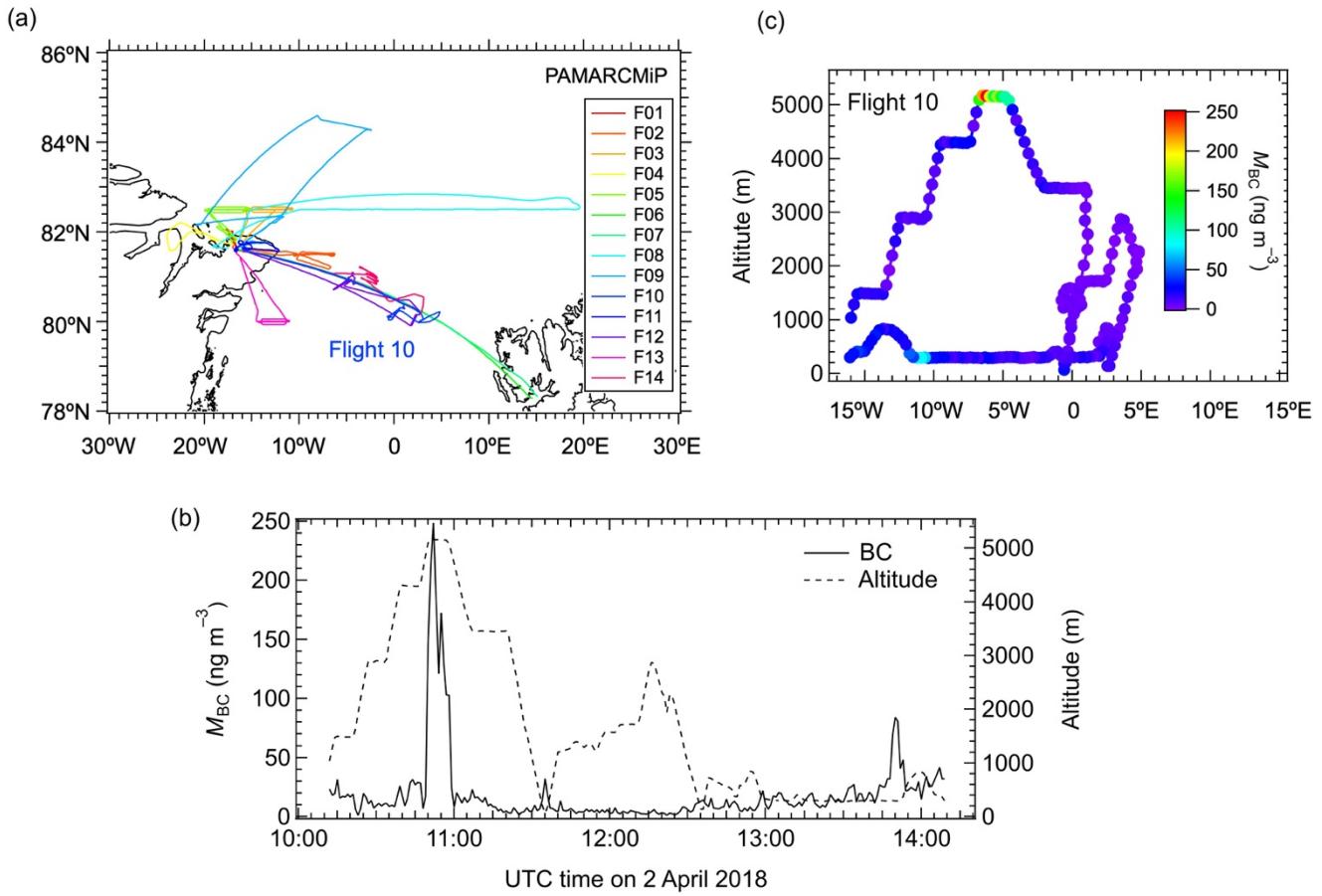
*Supplement of*

## **Arctic black carbon during PAMARCMiP 2018 and previous aircraft experiments in spring**

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**Figure S1.** (a) Map of the flight tracks of the PAMARCMiP aircraft-based field experiment. (b) Time series of one-minute data of BC mass concentration ( $M_{BC}$ ) (solid line) and aircraft altitudes (dashed line) for Flight 10 on 2 April 2018. (c) Altitude-longitude cross section of  $M_{BC}$  for the same flight. The plumes with enhanced  $M_{BC}$  values were observed at altitudes around 5 km.