

SORPIC

5 May Polar 5 Flight

Christophe Gurbeyre, Jean – François Gayet and Régis Dupuy

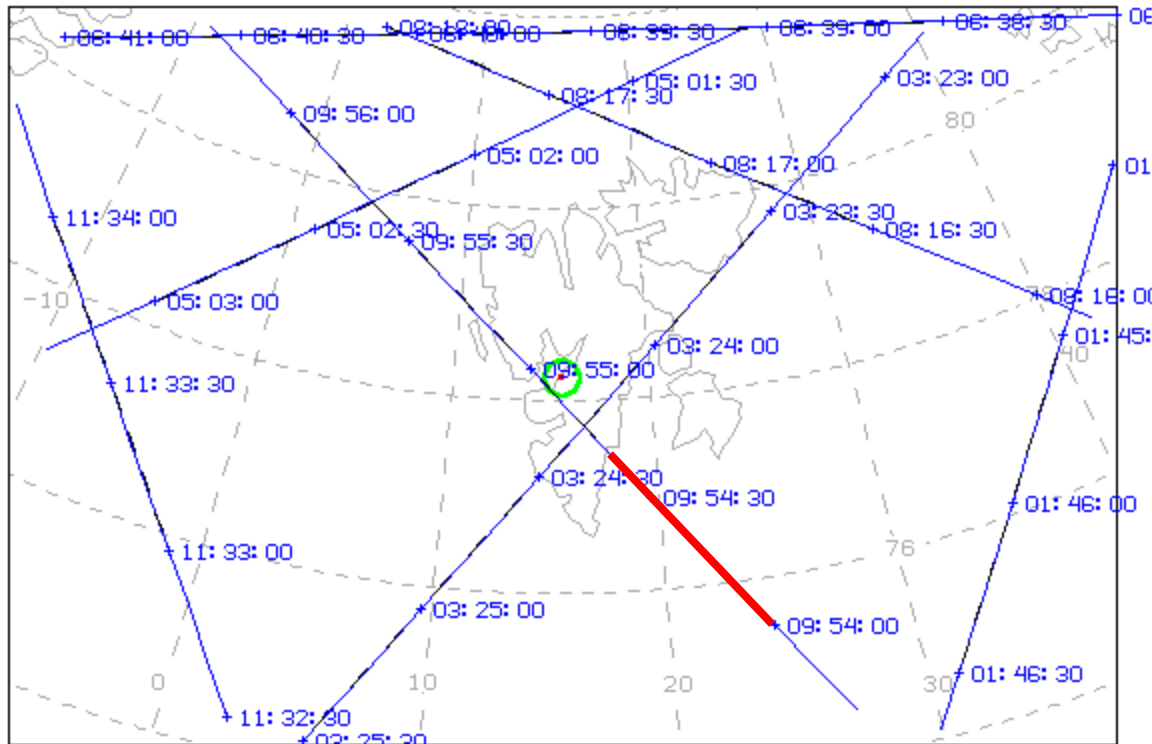
LaMP CNRS / Université Blaise Pascal



CloudSat Overpass

9:54:00 75.5017N 24.3266E
9:54:30 76.9587N 19.6409E
9:55:00 78.3165N 13.8757E

Bearing: 320°02'47"



CLOUDSAT 2010/05/05 UTC (2010125)

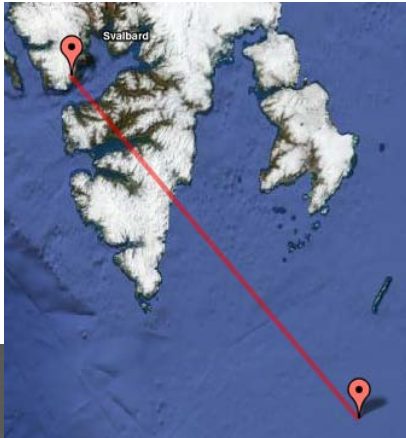
EPOCHDATE=10/05/03 EASTLON+

■ LAT: 78.2461 LON(E+): 15.4655

20km radius circle

Map Res: 4 km

CloudSat



9:54:00 75.5017N 24.3266E

9:54:30 76.9587N 19.6409E

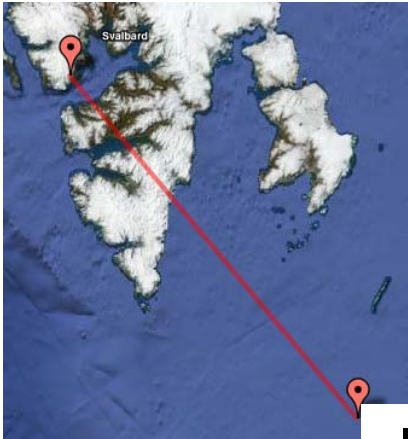
9:55:00 78.3165N 13.8757E

Bearing: 320°02'47"



Time 09:56:27 09:53:16 | Lat 81.3 73.3 | Lon -12.1 29.6

CALIPSO

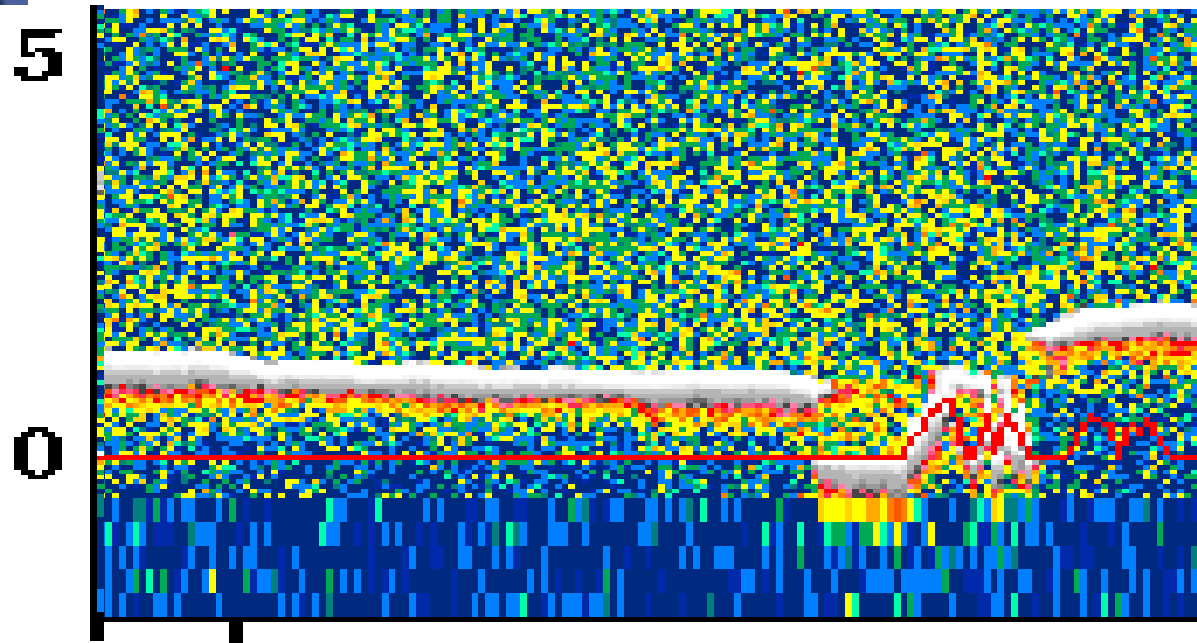


9:54:00 75.5017N 24.3266E

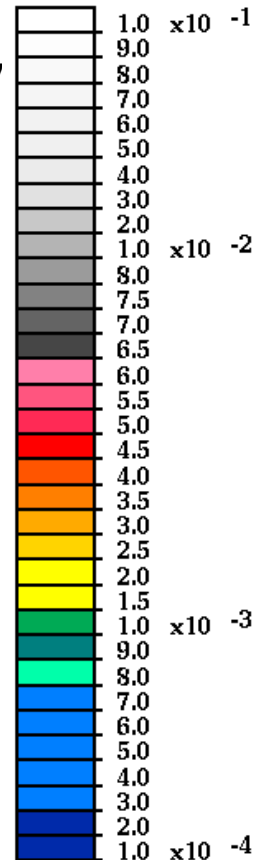
9:54:30 76.9587N 19.6409E

9:55:00 78.3165N 12.2757E

Bearing: 320°02'47"



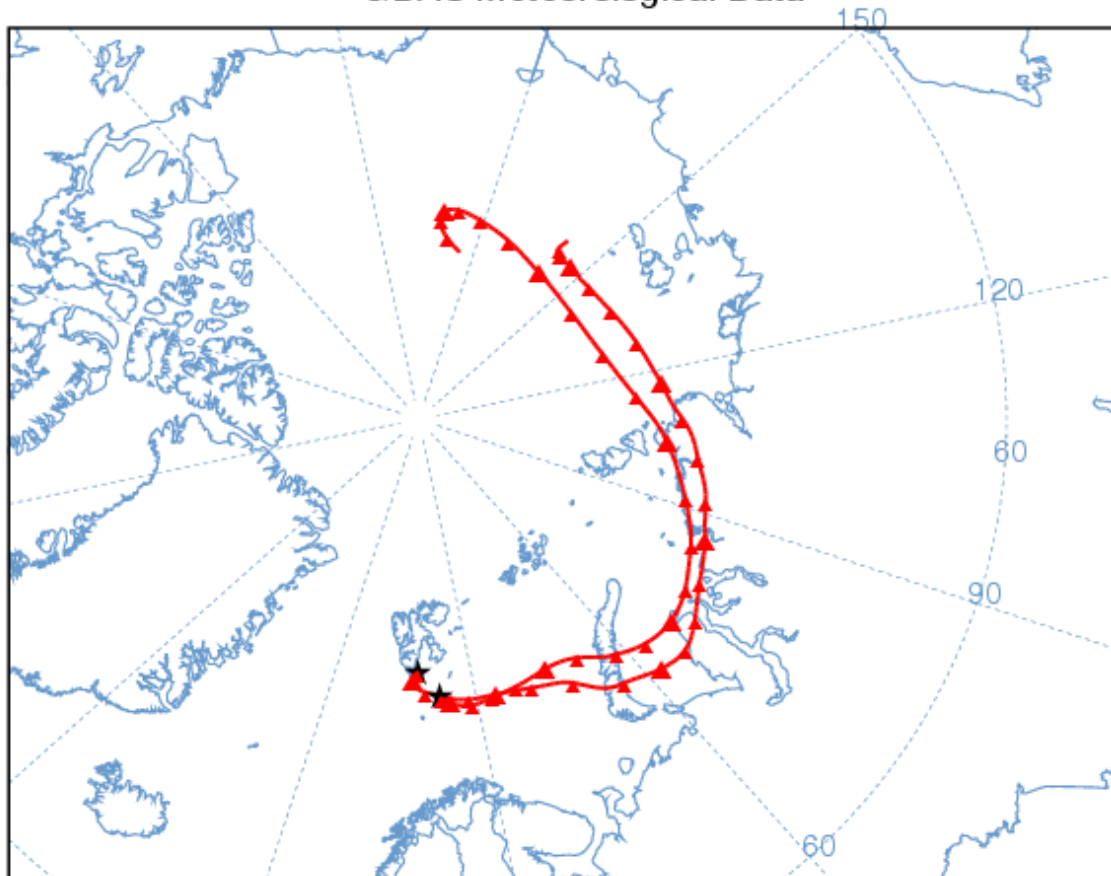
73.94
28.30



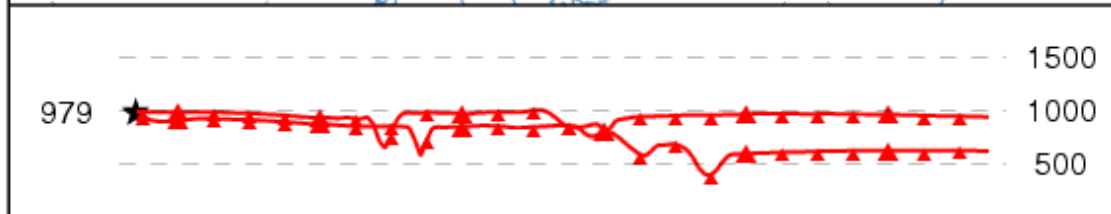
MODIS : AQUA



Source ★ at multiple locations



Meters AGL



06 00 18 12 06 00 18 12 06 00 18 12 06 00 18 12 06 00 18 12 06 00 18 12
05/05 05/04 05/03 05/02 05/01 04/30

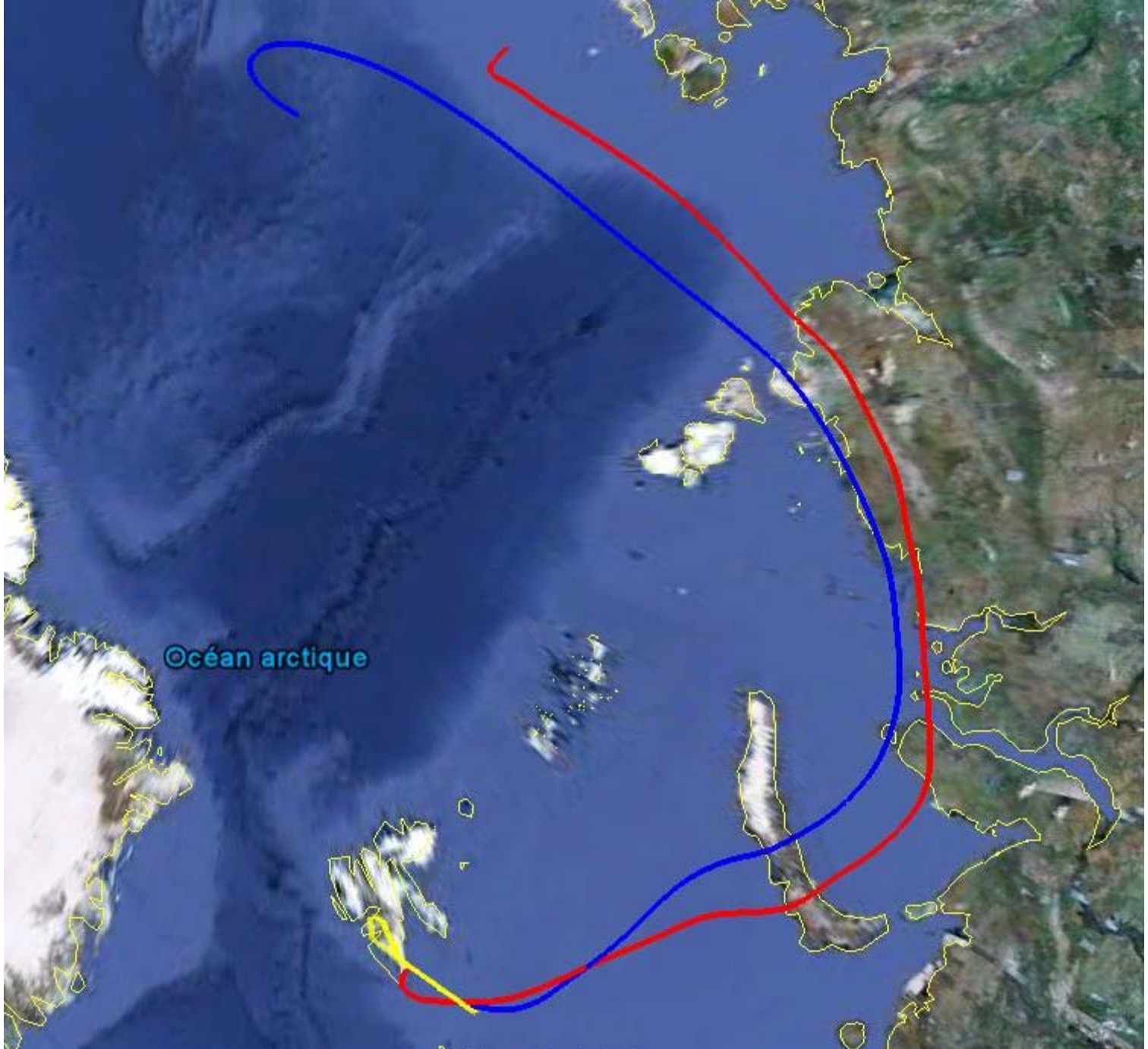
Job ID: 3307 Job Start: Fri May 7 15:00:08 UTC 2010
Source 1 lat.: 76.78429 lon.: 18.29299 height: 1000 m AMSL

Trajectory Direction: Backward Duration: 144 hrs
Vertical Motion Calculation Method: Isobaric
Meteorology: 0000Z 01 May 2010 - GDAS1

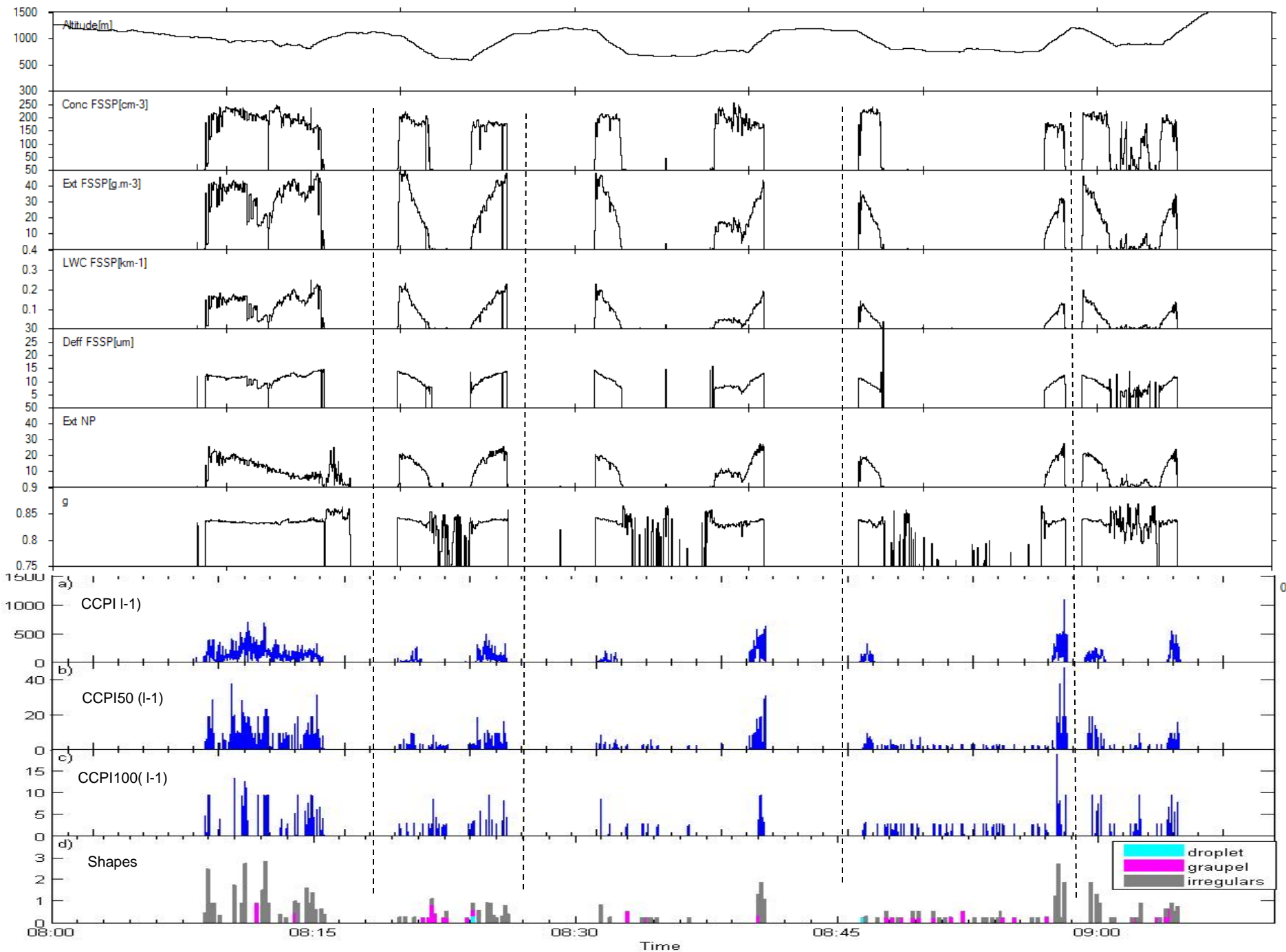
Backtrajectories

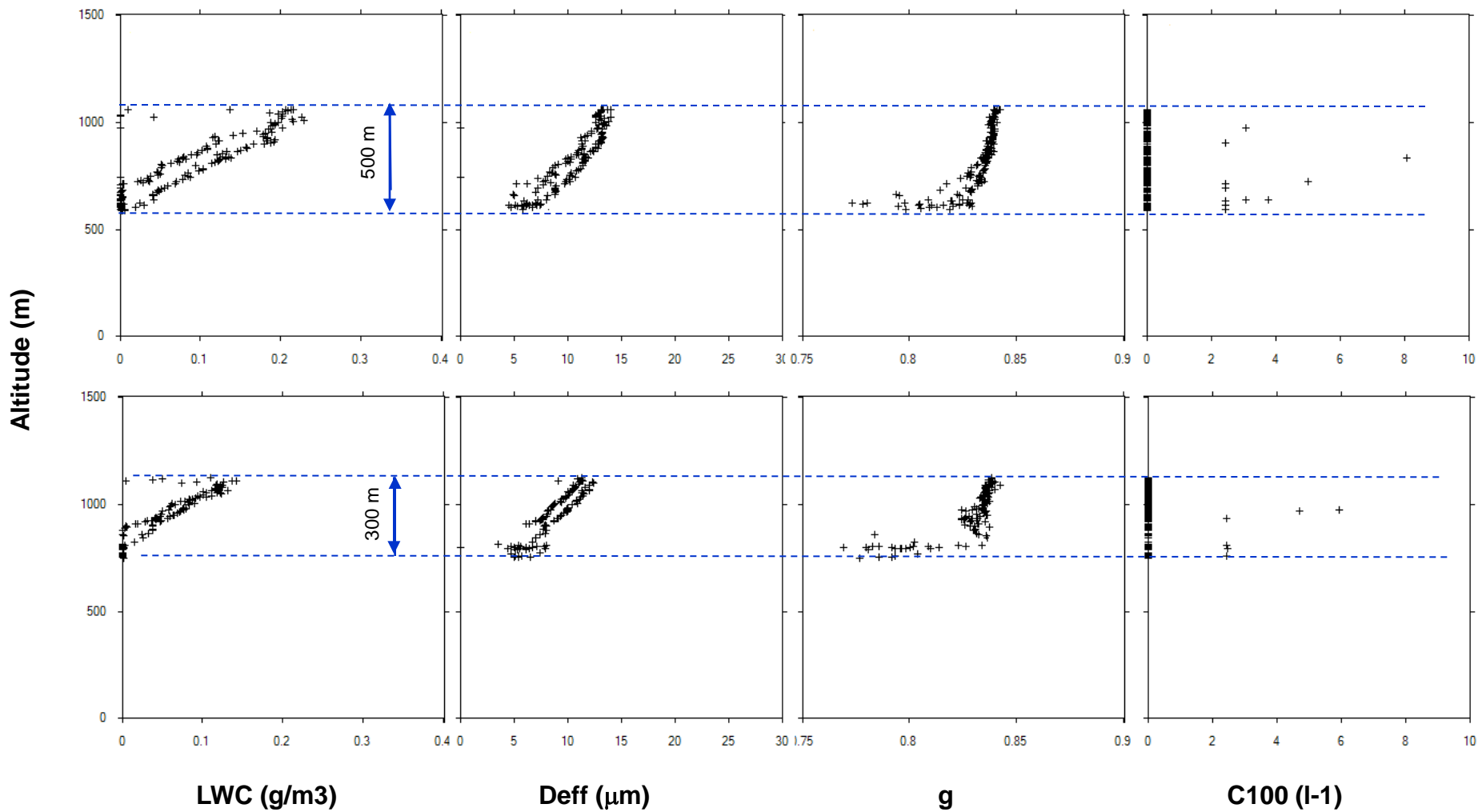
Source 1 : 76.78429N
18.29299E

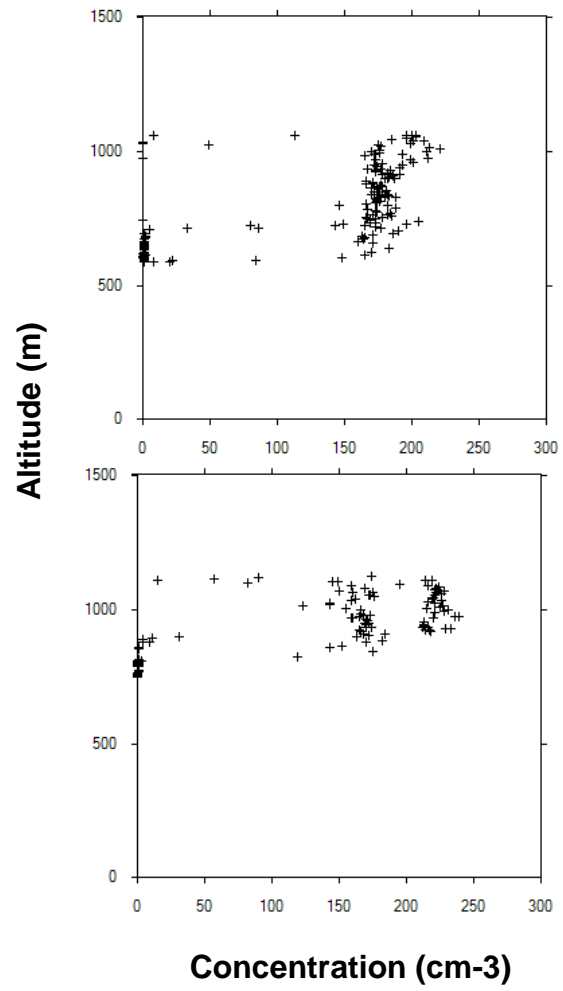
Source 2 : 75.42535N
22.66376E
6 days back

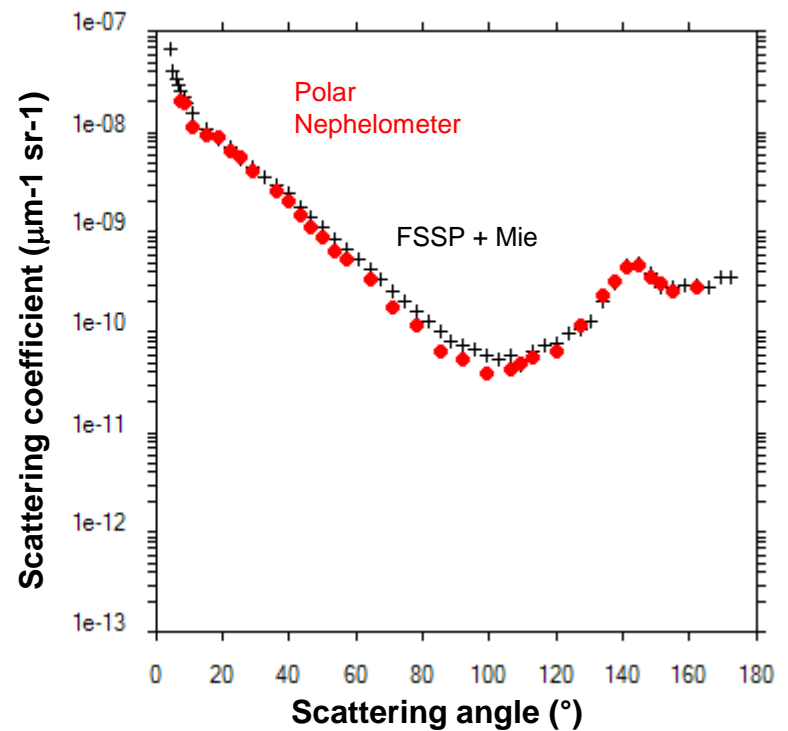
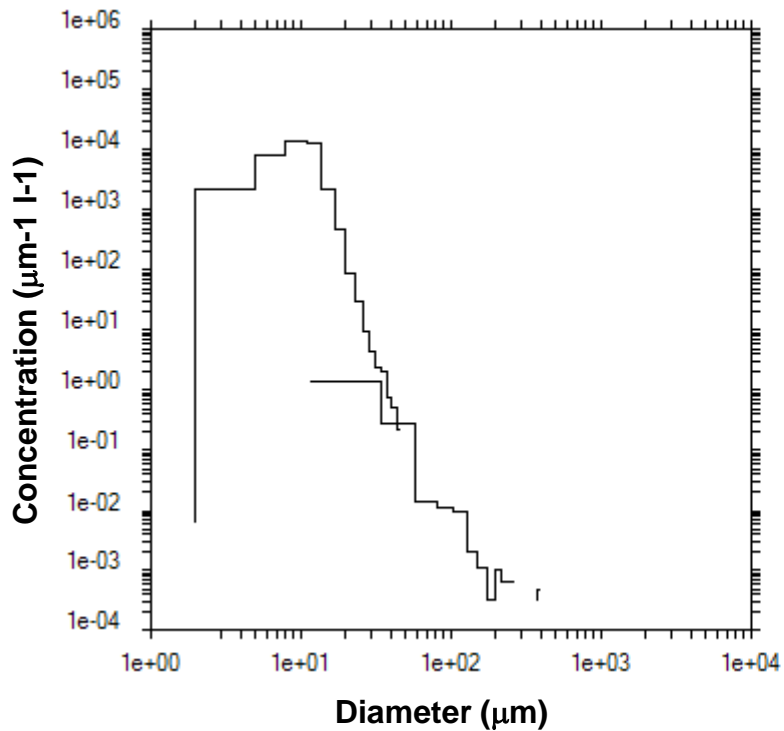


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Conc = 120 cm⁻³

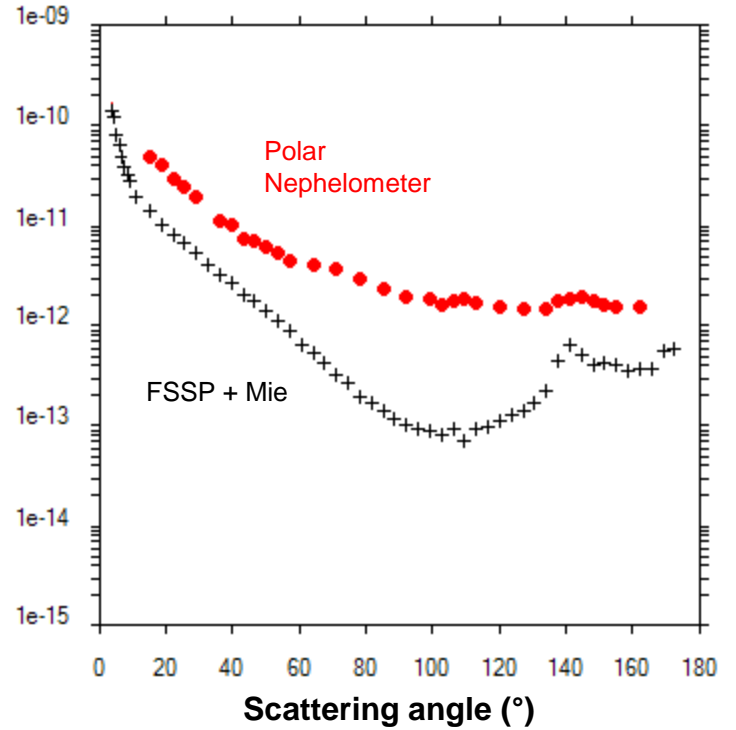
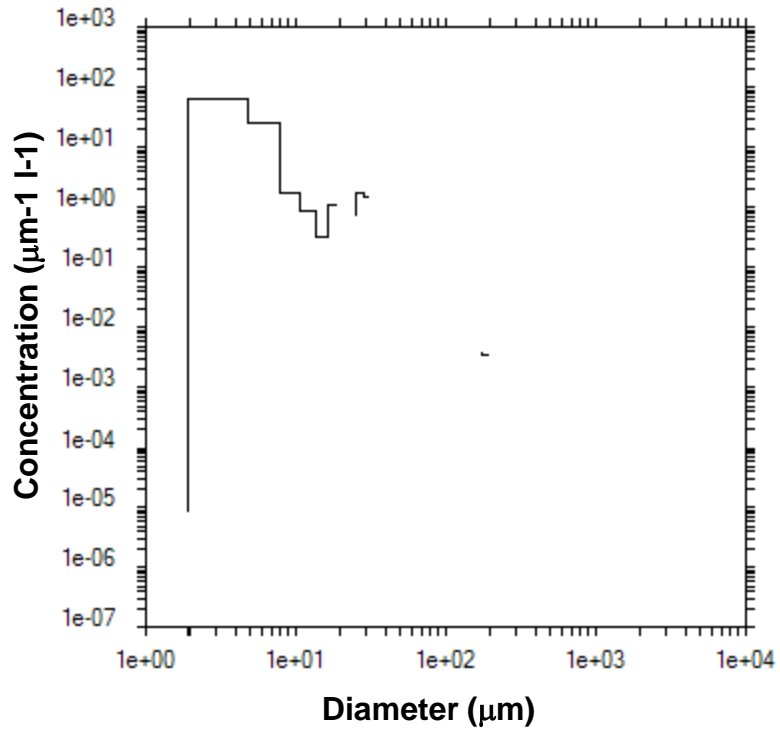
LWC = 0.10 g/m³

Ext = 20 km⁻¹

Deff = 12 μm

CCPI = 0.2 l⁻¹

g = 0.829



Conc = 0.3 cm^{-3}
 LWC = $0. \text{ g/m}^3$
 Ext = $0. \text{ km}^{-1}$
 CCPI = 0.2 I^{-1}
 $g = 0.770$