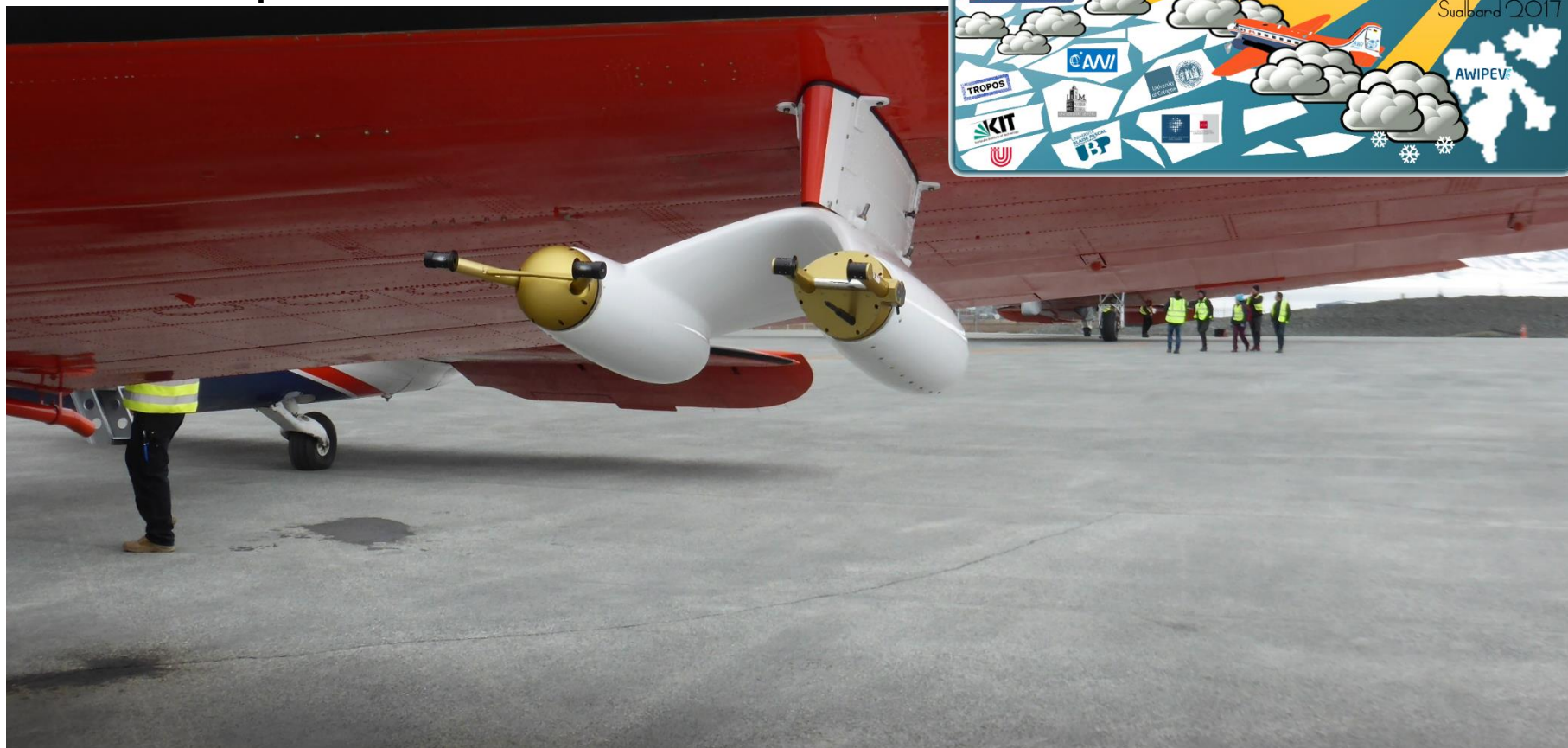
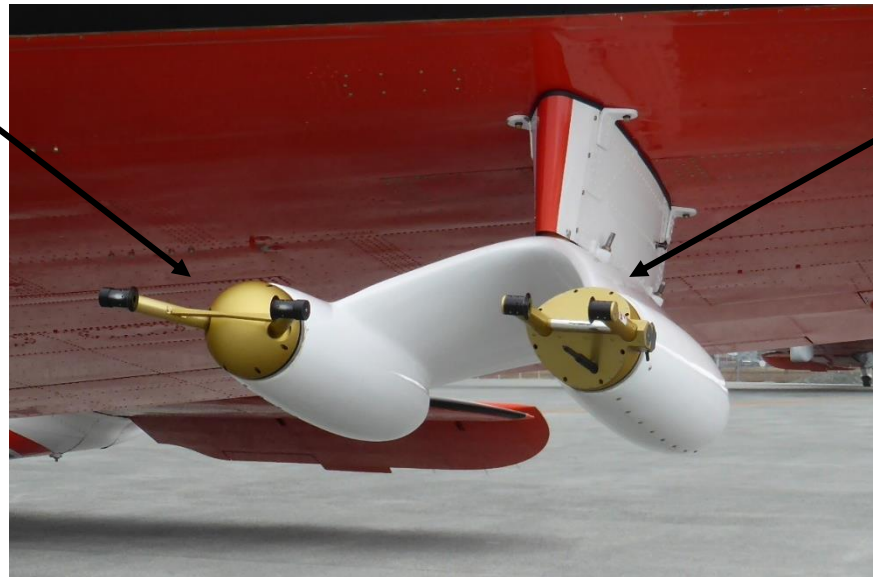


# ACLOUD campaign CIP and PIP probes



# ACLOUD campaign –CIP and PIP probes

PIP  
(Precipitation  
Imaging  
Probe)



CIP  
(Cloud  
Imaging  
Probe)

64 photodiodes

100  $\mu\text{m}$

**Resolution**

25  $\mu\text{m}$

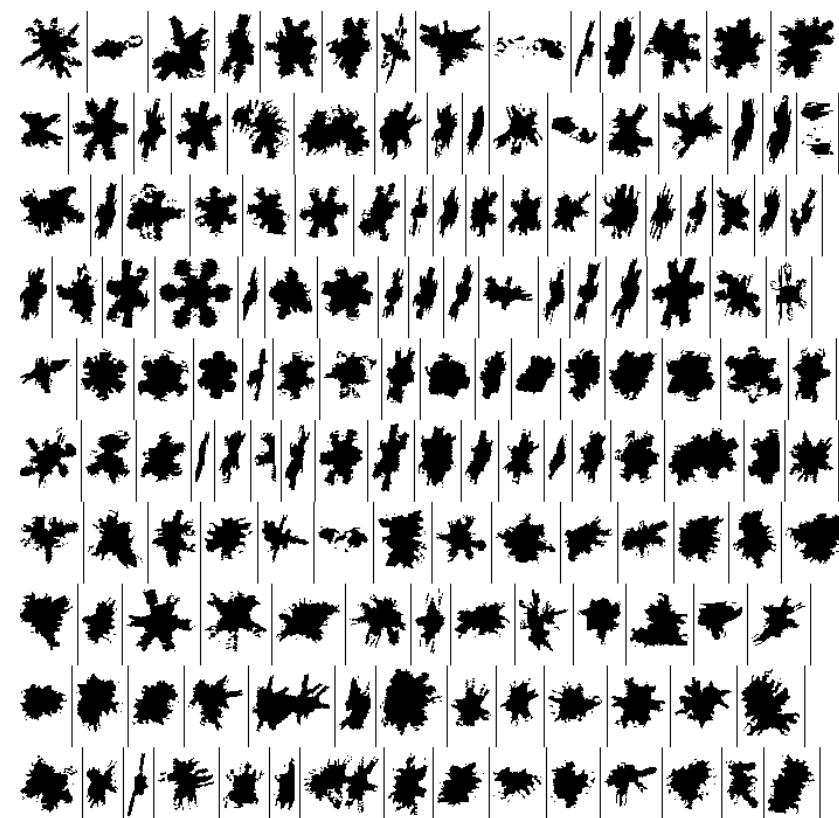
100  $\mu\text{m}$  – 6.4 mm

**Range**

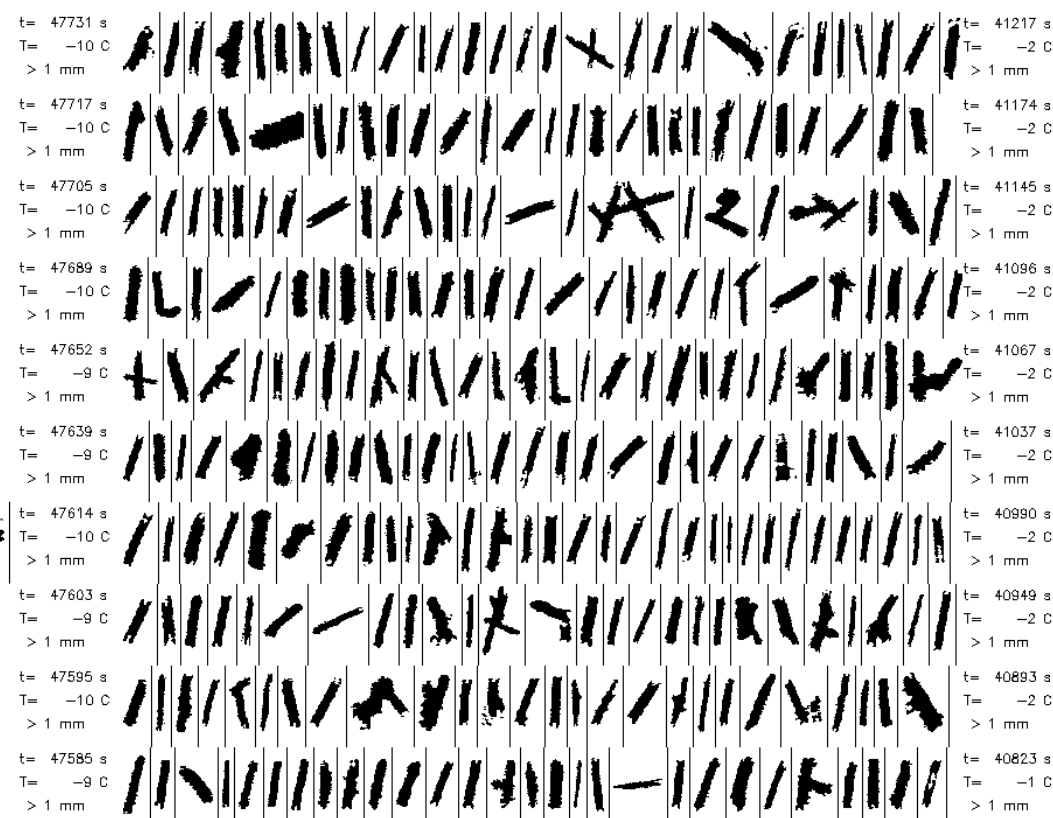
25  $\mu\text{m}$  – 1.6 mm



# ACLOUD campaign – Example of CIP images

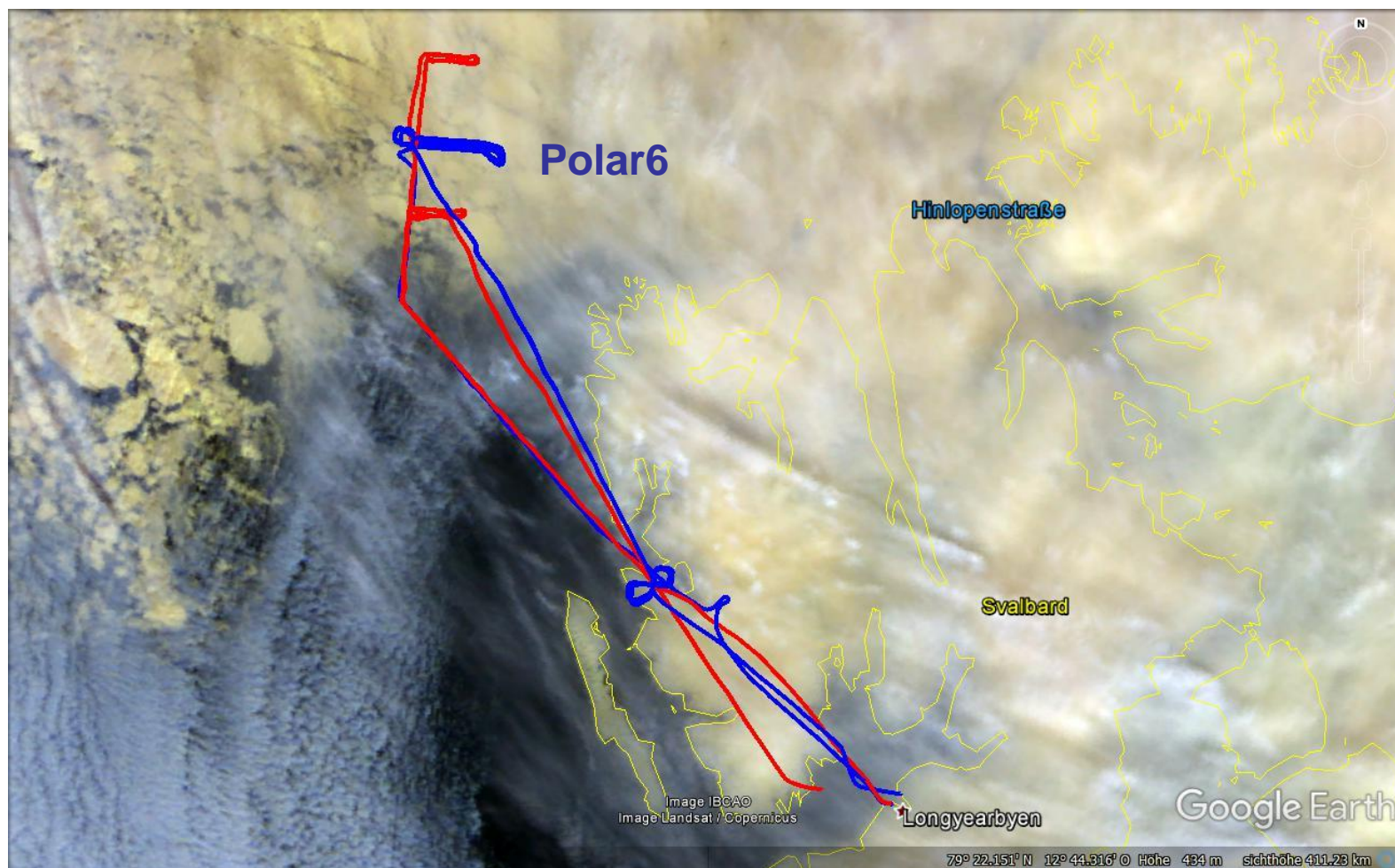


Dendrites and aggregates of dendrites



Columns, needles, and aggregates of those

# ACLOUD – Polar 6 – Flight 08

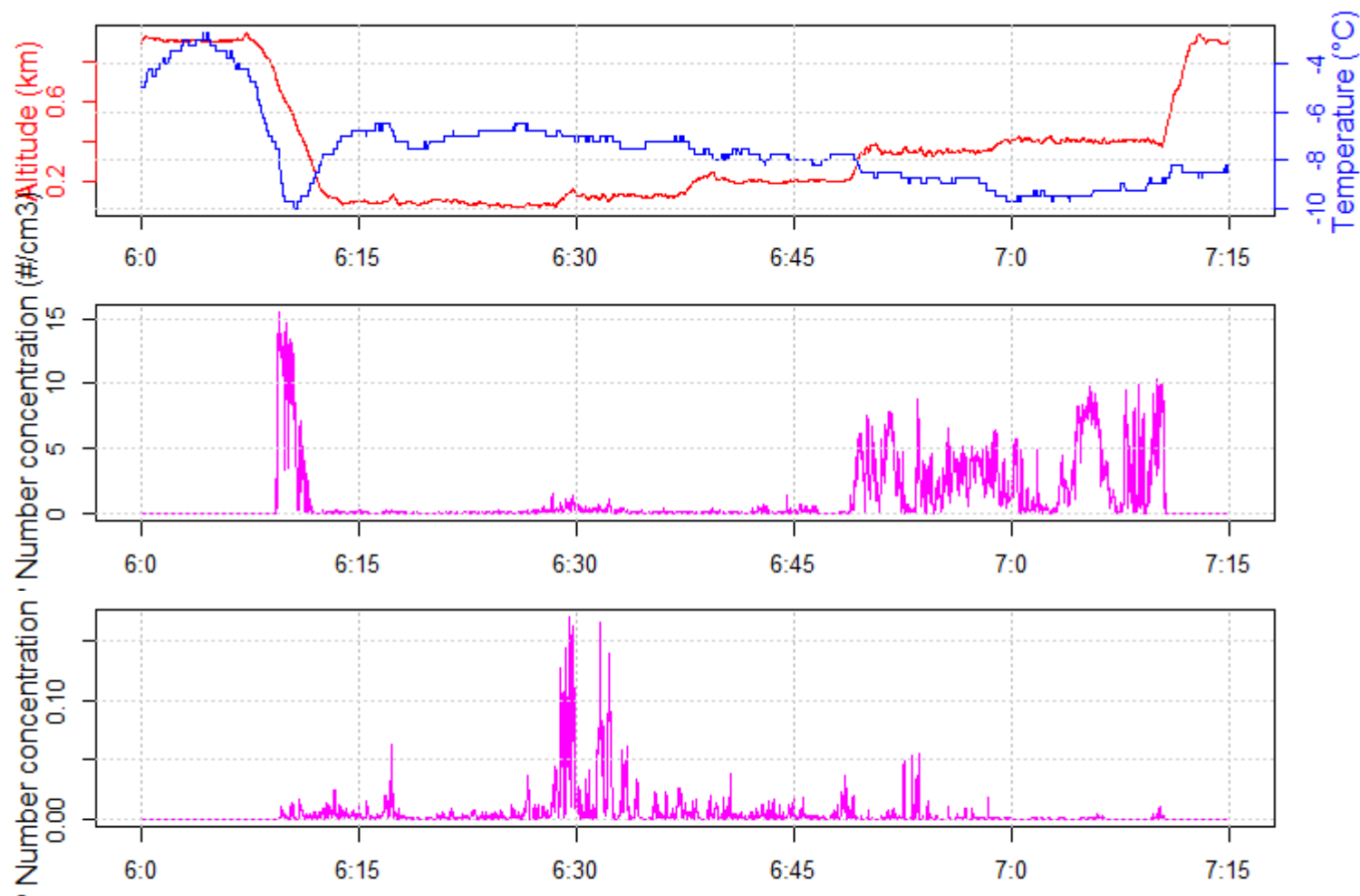




# ACLOUD – Polar 6 – Flight 08

## CIP & PIP raw data

Flight 8 - 20170529 - LaMP Preliminary quicklook

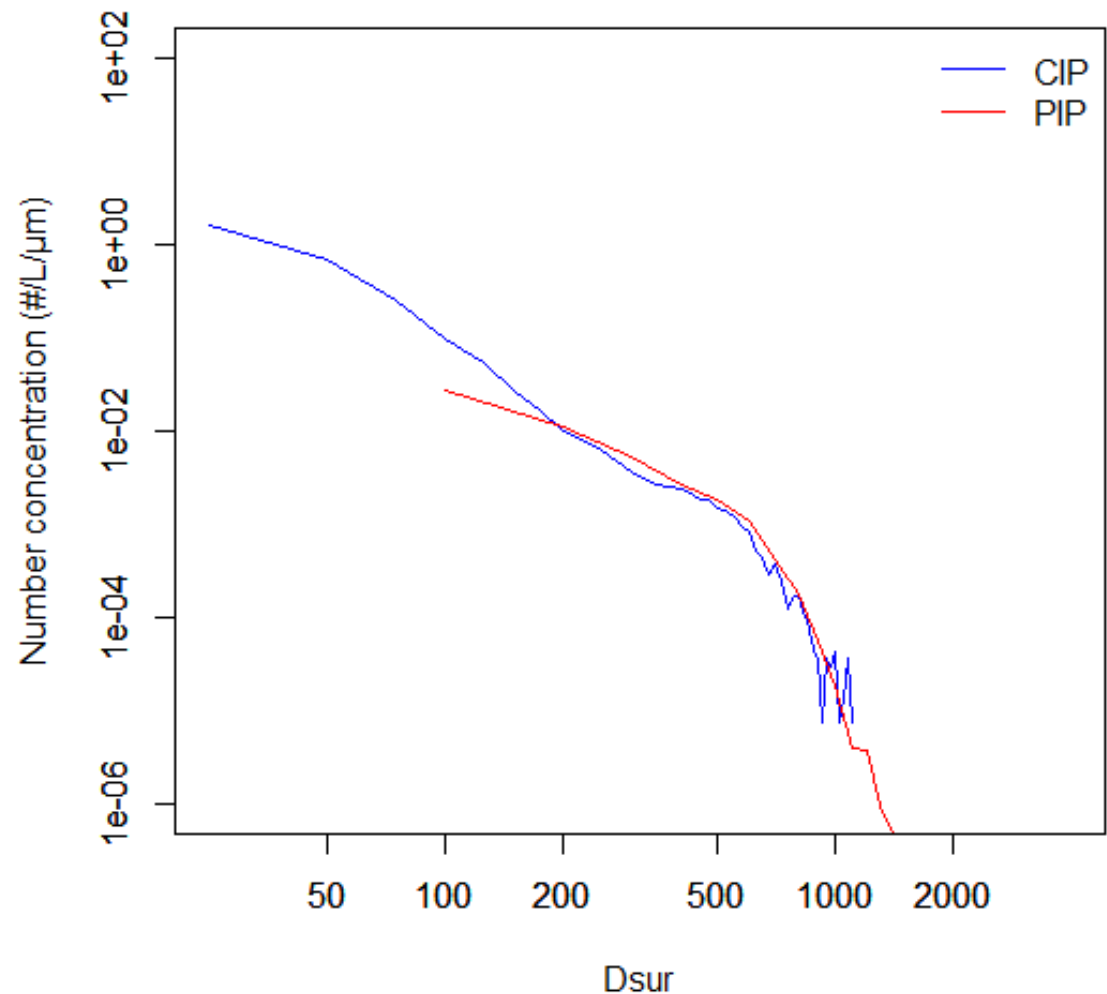


# ACLOUD

## Polar 6 – Flight 08

First leg at 200ft  
over sea ice &  
below cloud  
(6:21 – 6:27)

flight 08 \_22860-23220

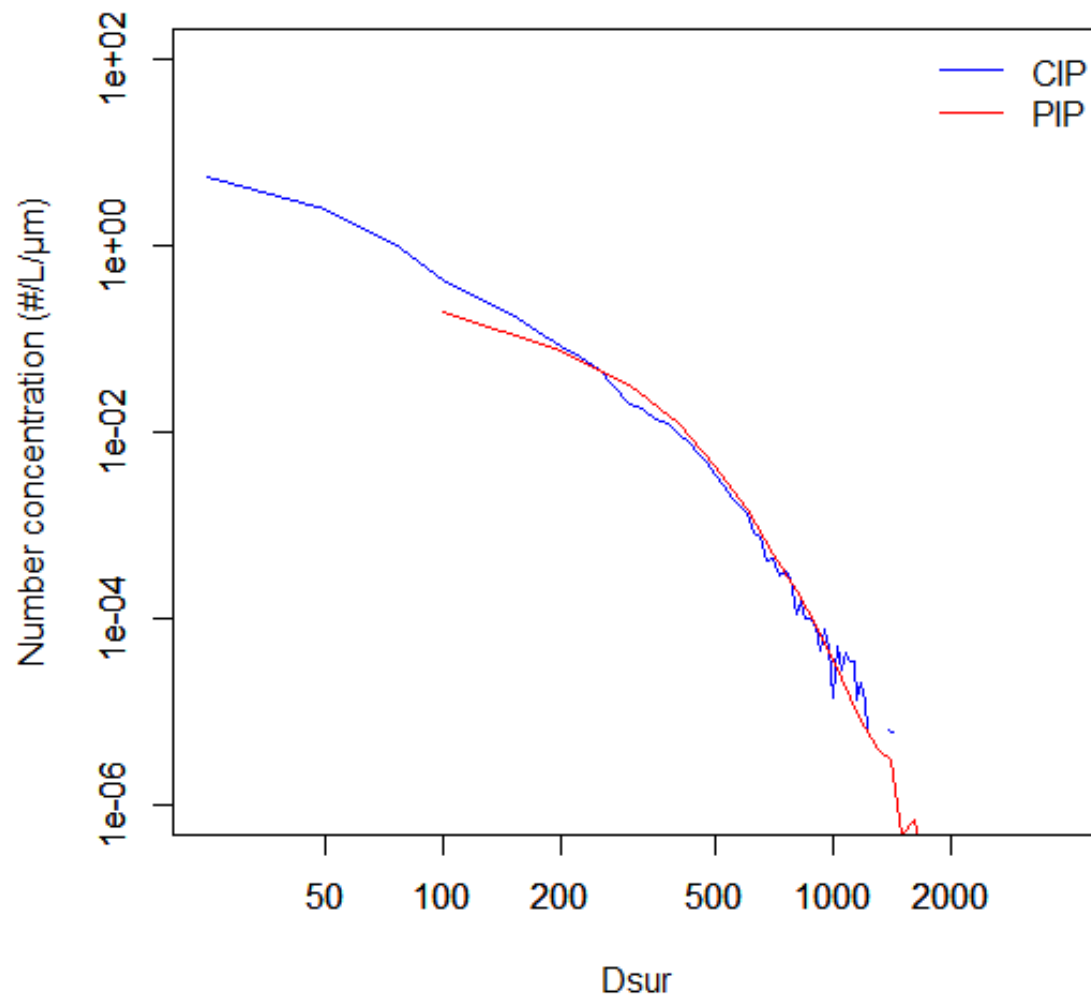


# ACLOUD

## Polar 6 – Flight 08

2nd leg at 400ft  
over sea ice &  
below cloud  
(6:31 – 6:37)

flight 08 \_23460-23820

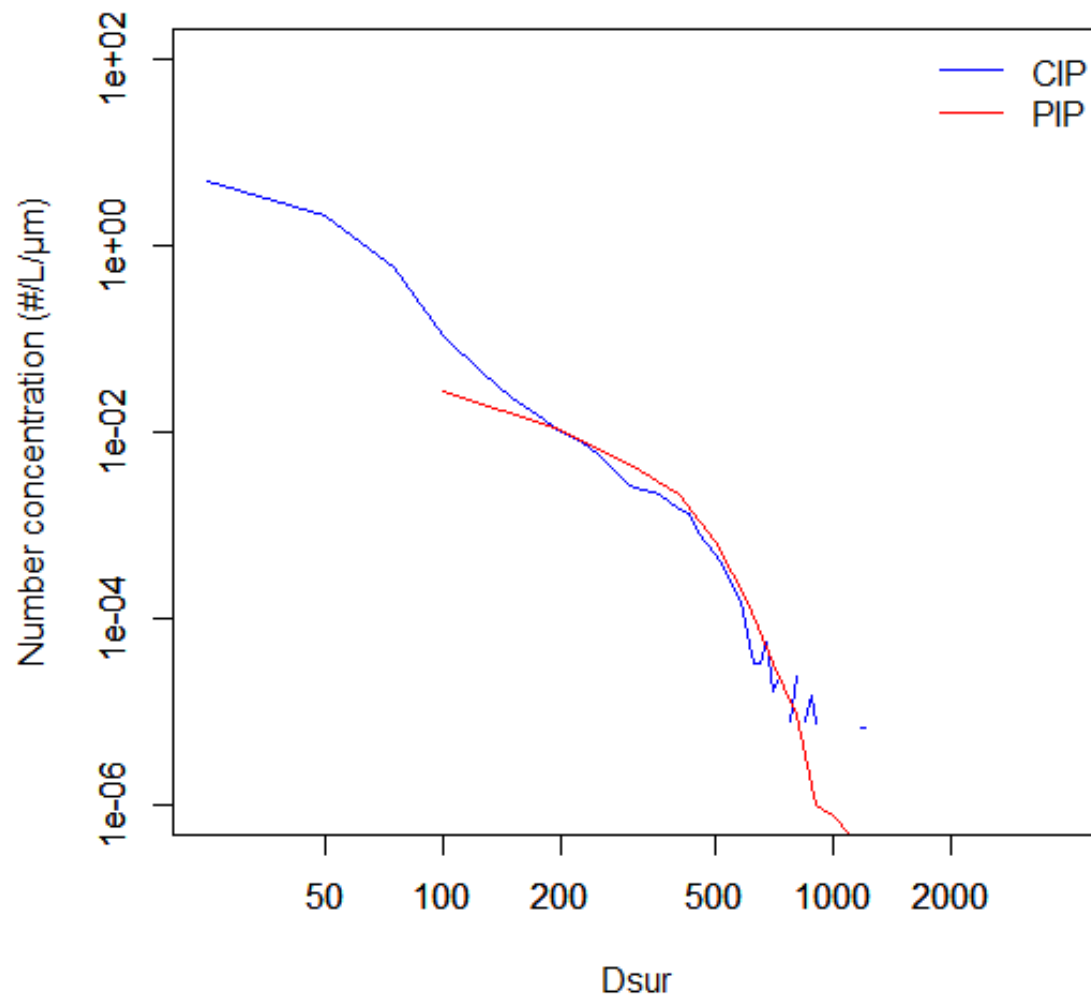


# ACLOUD

## Polar 6 – Flight 08

3rd leg at 600ft  
over sea ice &  
below cloud  
(6:42 – 6:48)

flight 08 \_24120-24480



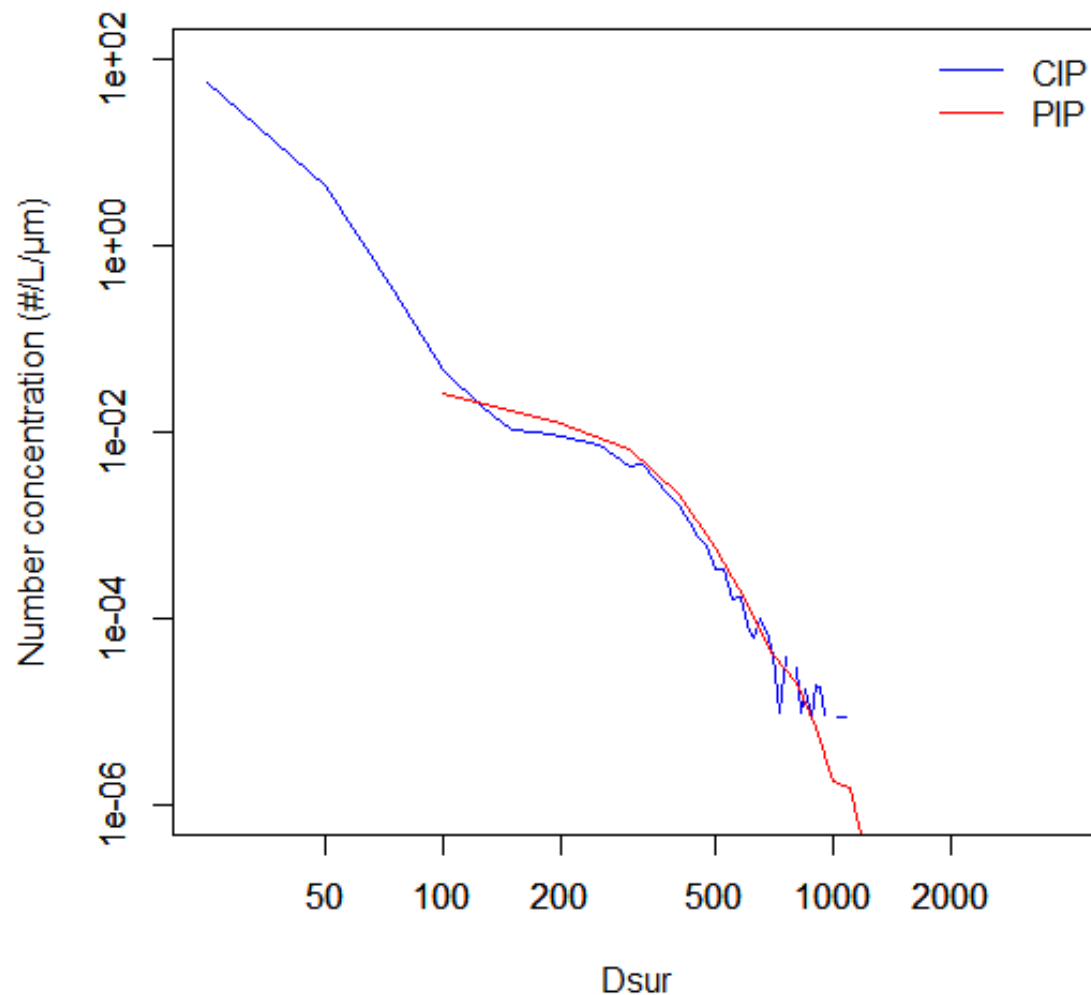


# ACLOUD

## Polar 6 – Flight 08

4th leg at 1000ft  
over sea ice &  
inside cloud  
(6:53 – 6:58)

flight 08 \_24780-25080

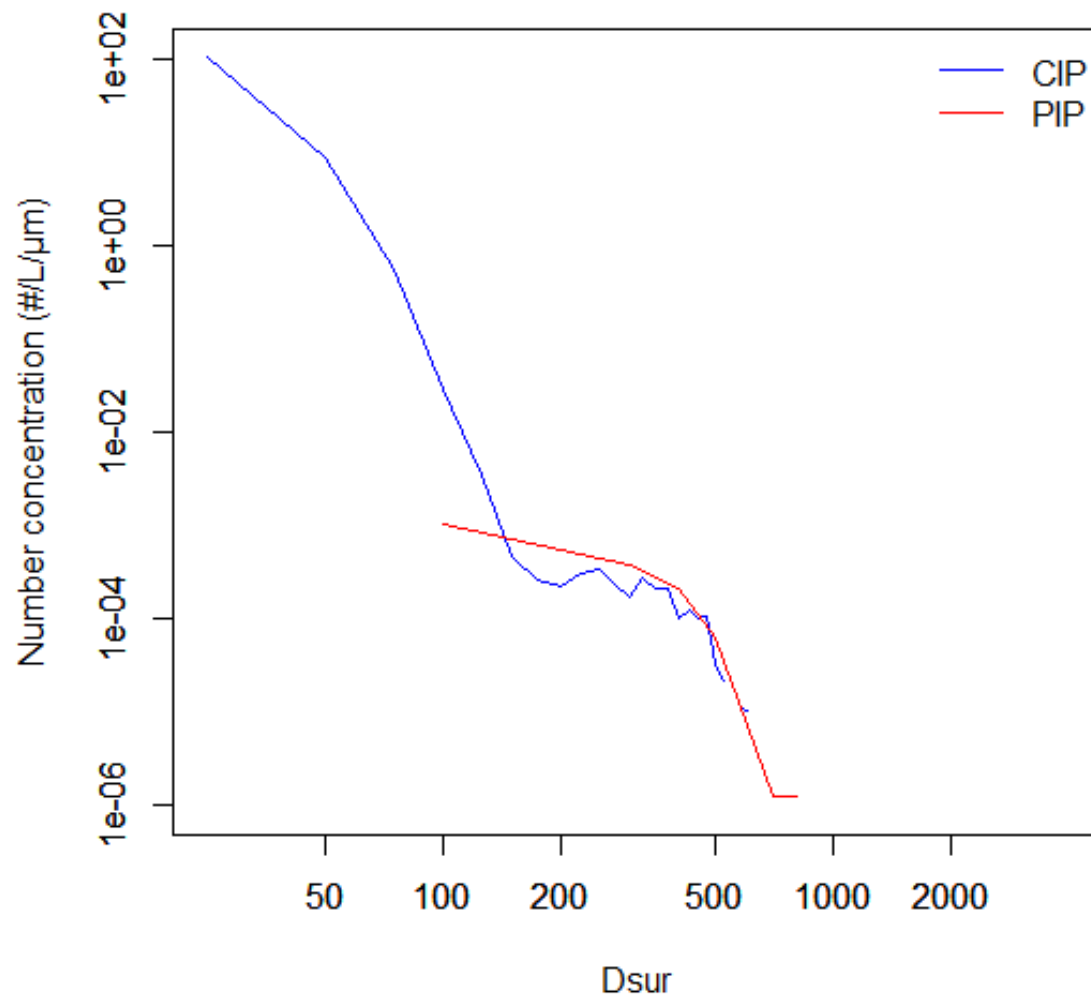


# ACLOUD

## Polar 6 – Flight 08

5th leg at 1200ft  
over sea ice &  
inside cloud  
(7:03 – 7:08)

flight 08 \_25380-25680

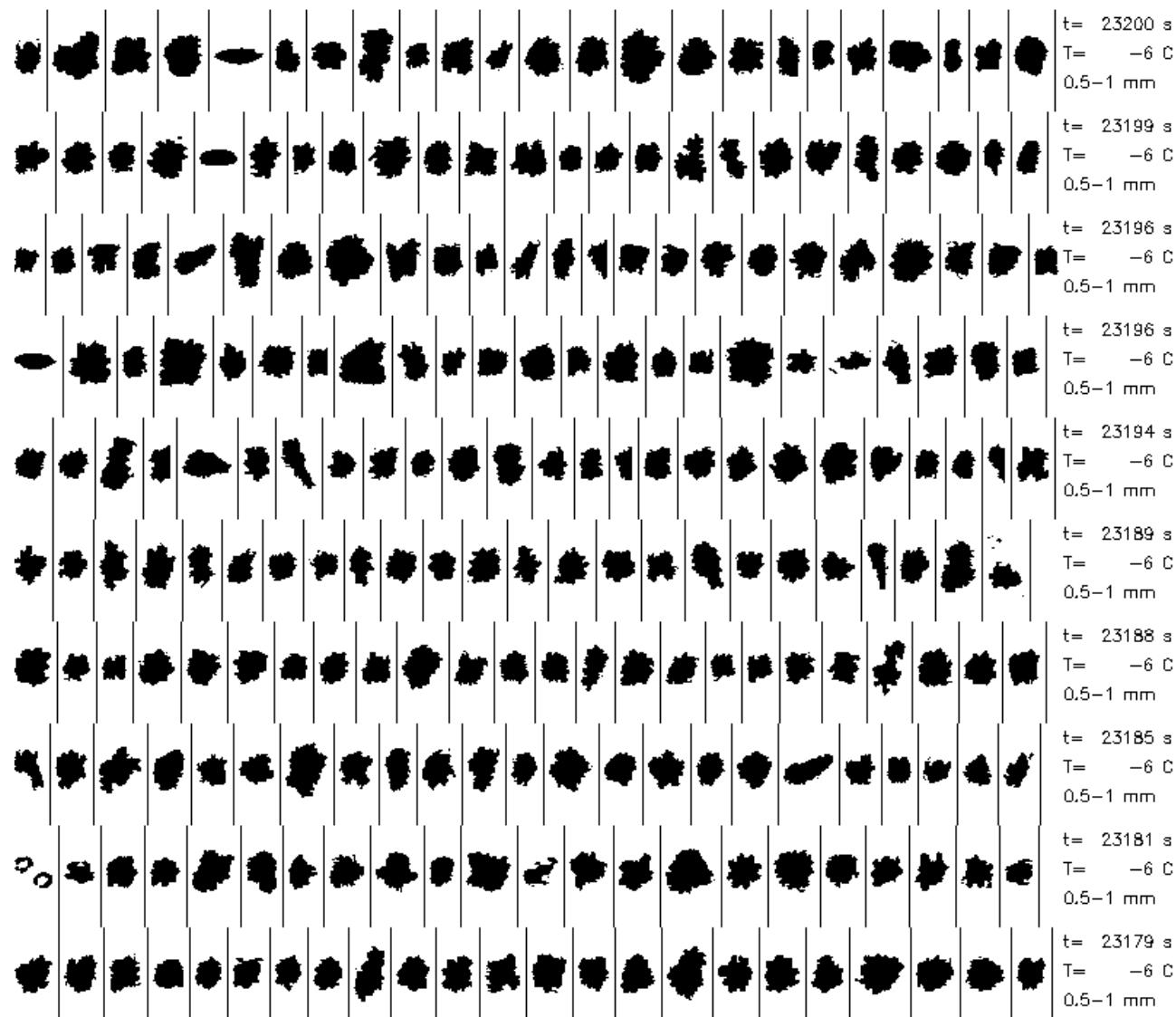




# ACLOUD

## Polar 6 – Flight 08

First leg at 200ft  
over sea ice &  
below cloud  
(6:21 – 6:27)



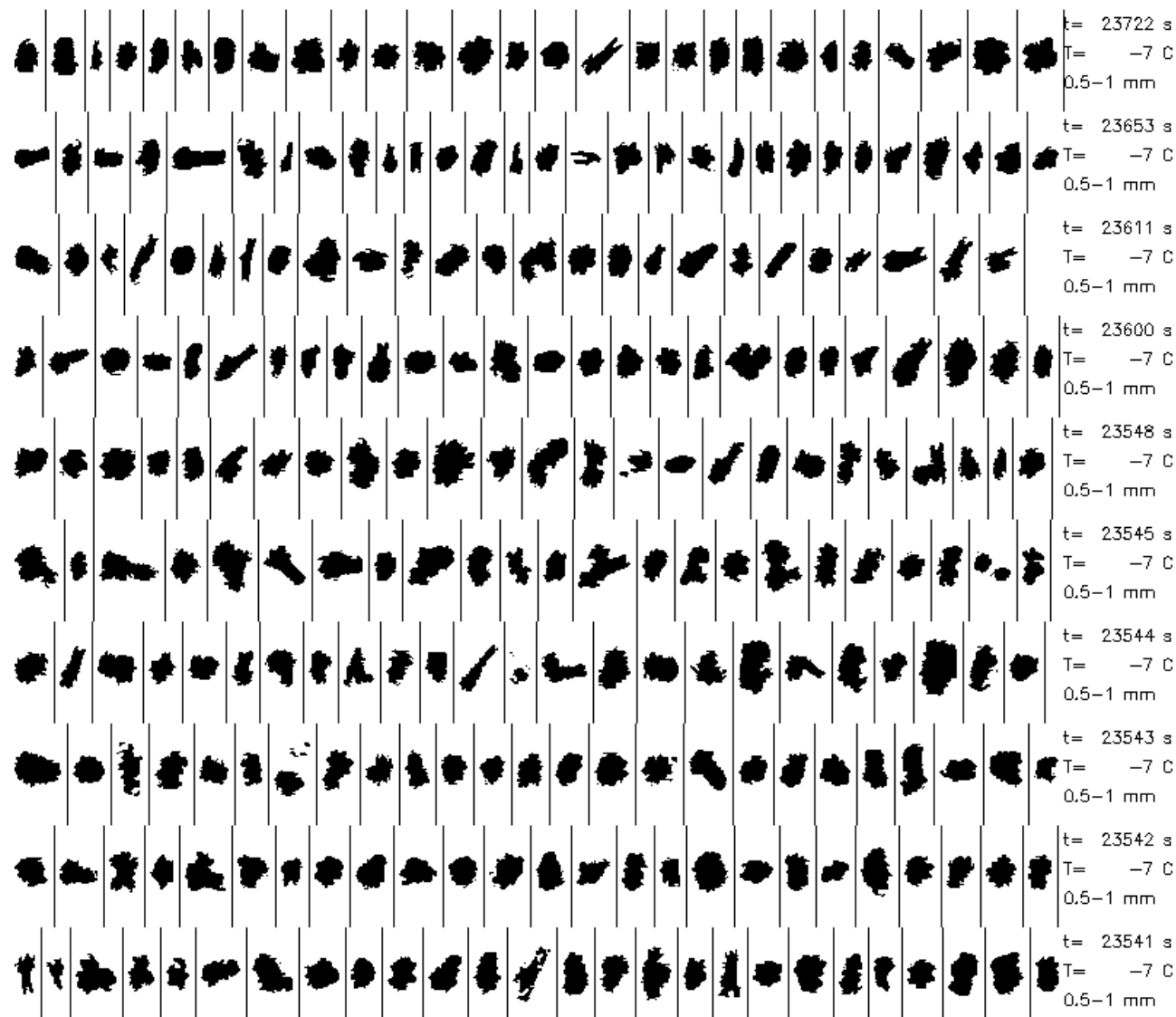




# ACLOUD

## Polar 6 – Flight 08

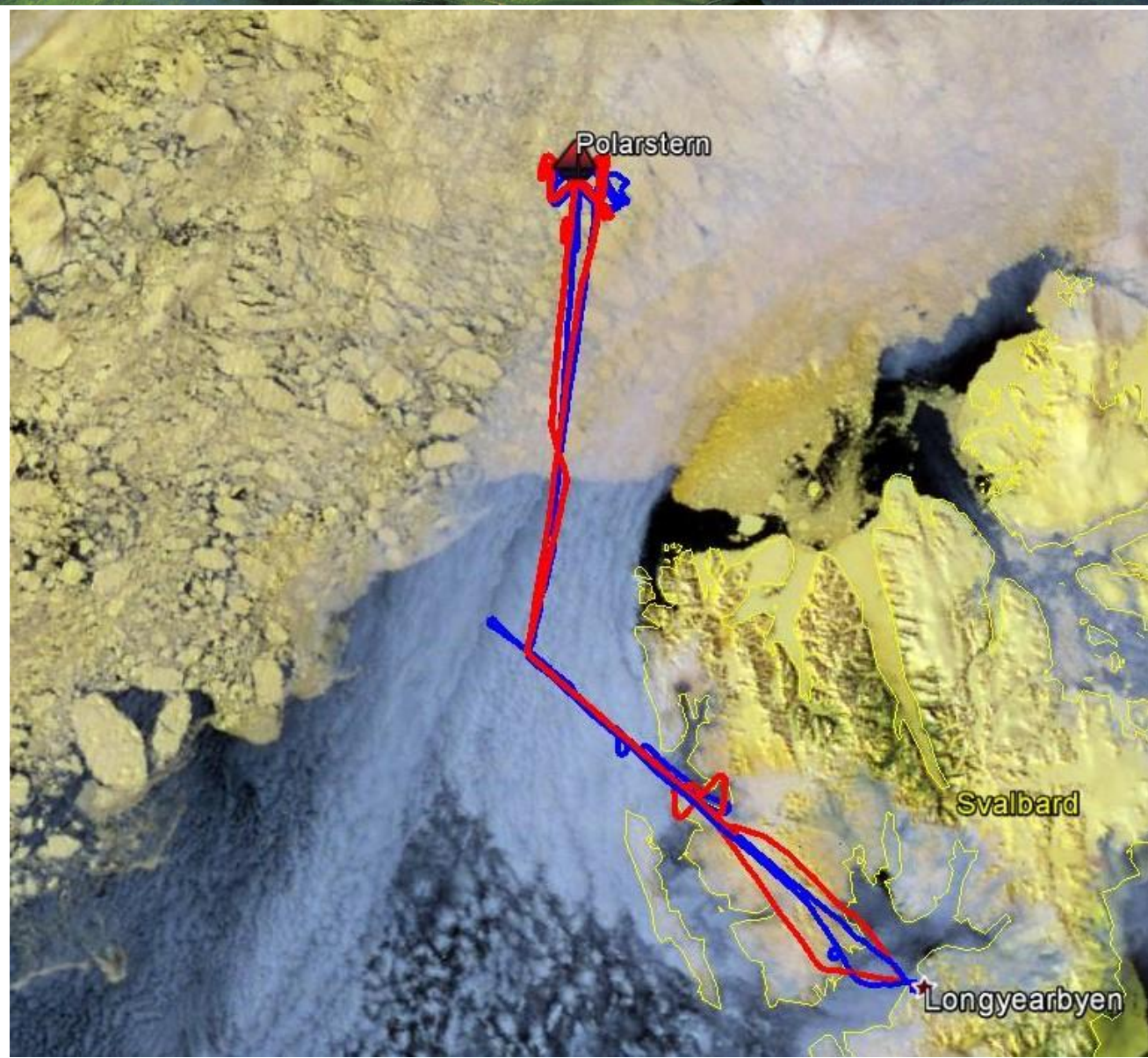
2nd leg at 400ft  
over sea ice &  
below cloud  
(6:31 – 6:37)





# ACLOUD

## Polar 6 – Flight 11

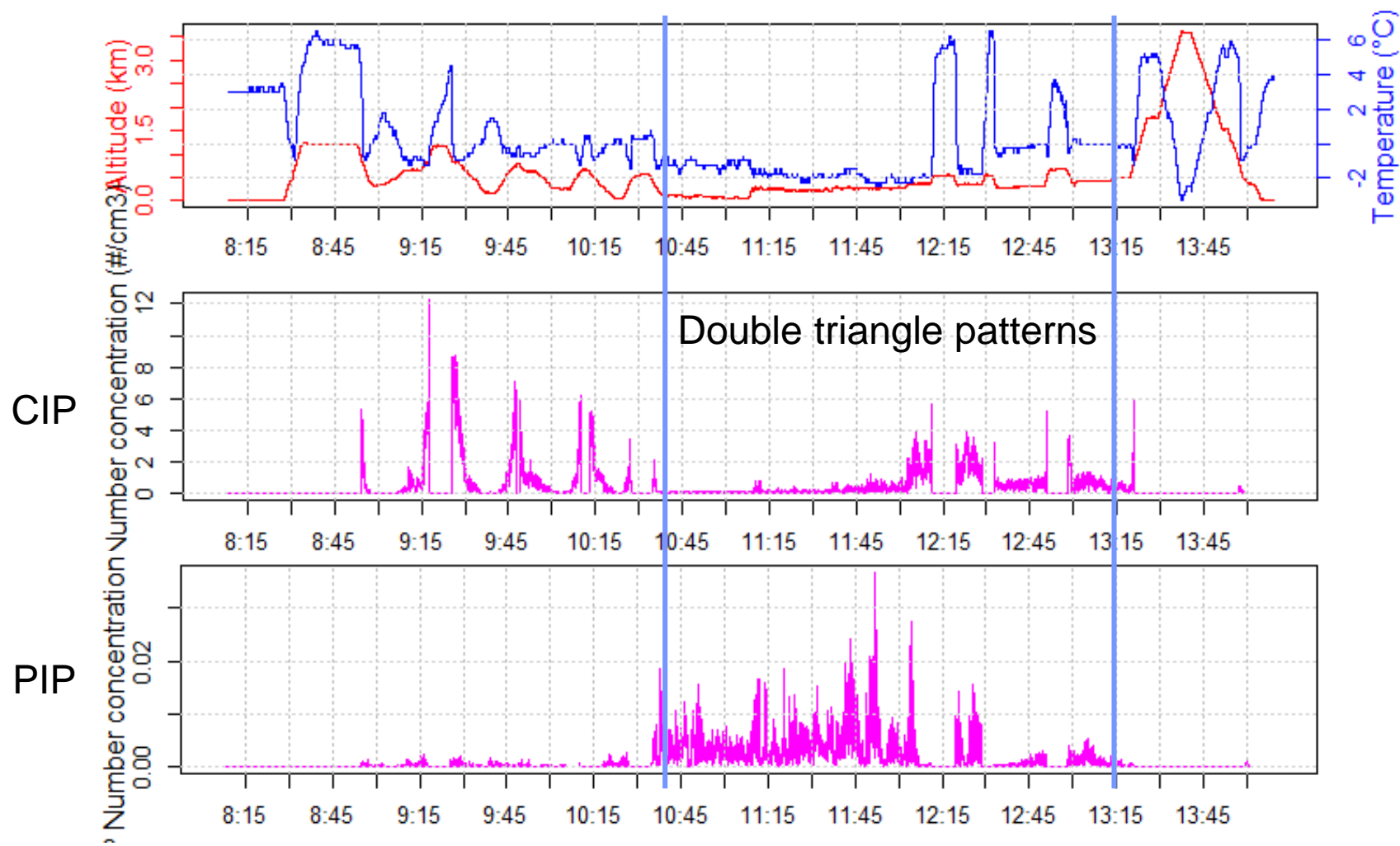




# ACLOUD - Polar 6 – Flight 11

## CIP & PIP raw data

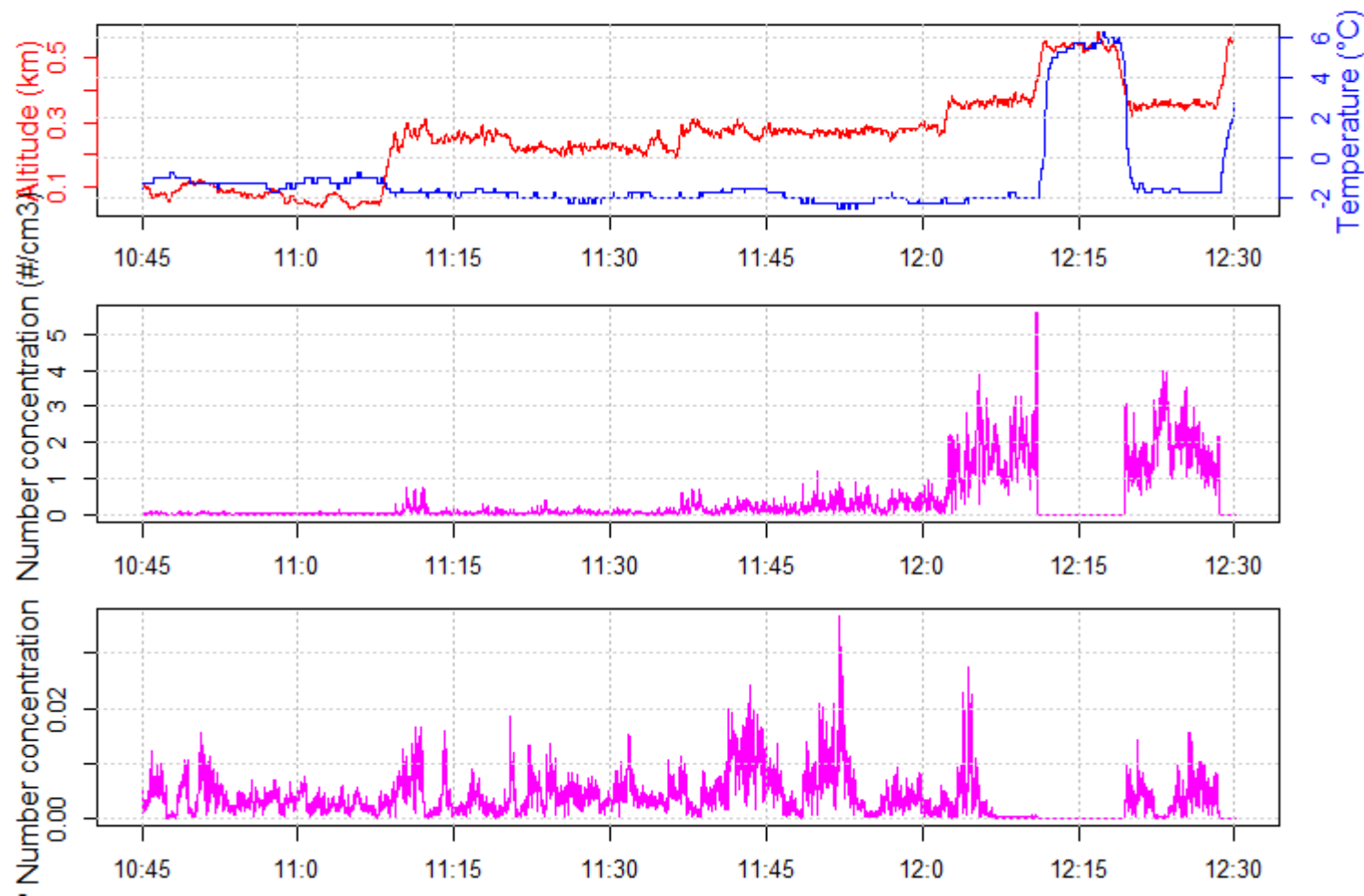
Flight 11 - 20170602 - LaMP Preliminary quicklook



# ACLOUD - Polar 6 – Flight 11

## CIP & PIP raw data

Flight 11 - 20170602 - LaMP Preliminary quicklook

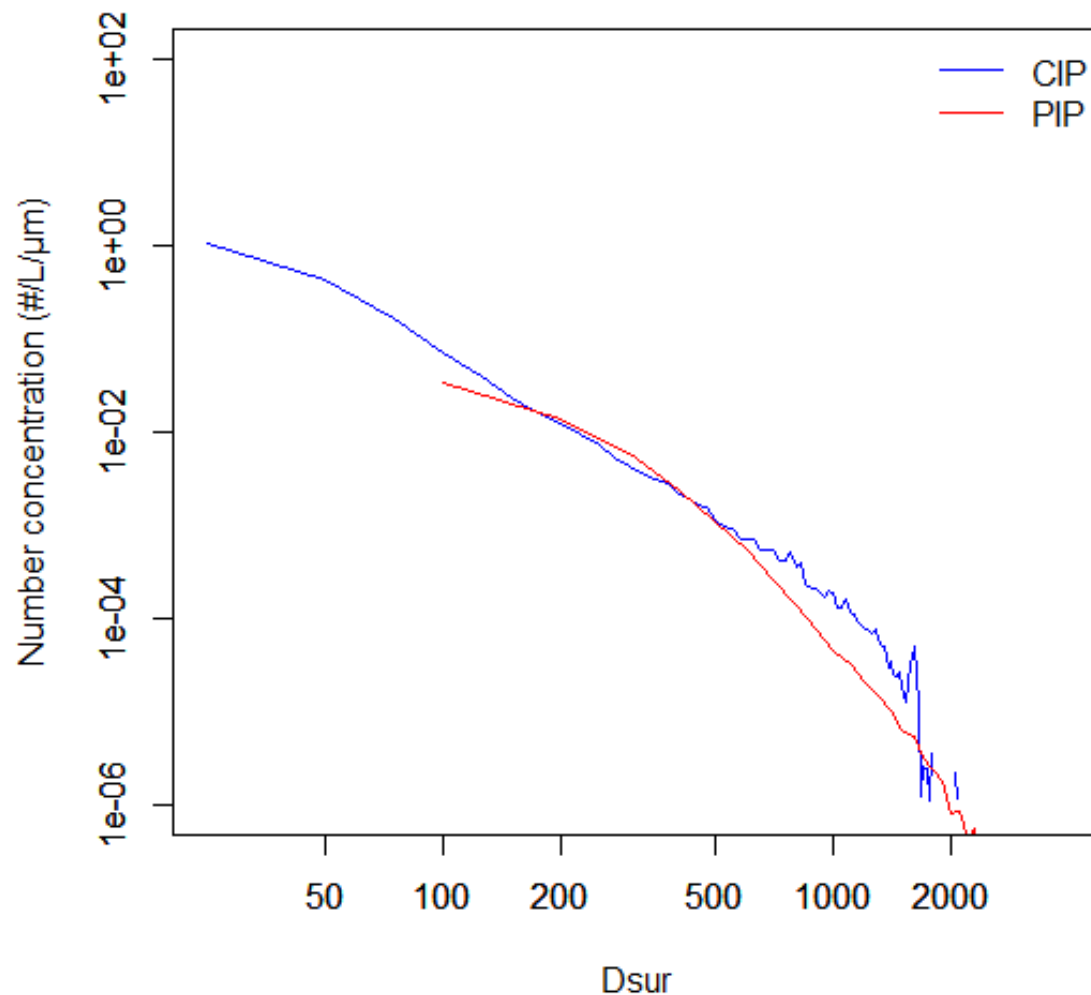


# ACLOUD

## Polar 6 – Flight 11

First double  
triangle close to  
Polarstern  
(10:51 – 11:19)

flight 11\_39060-40740



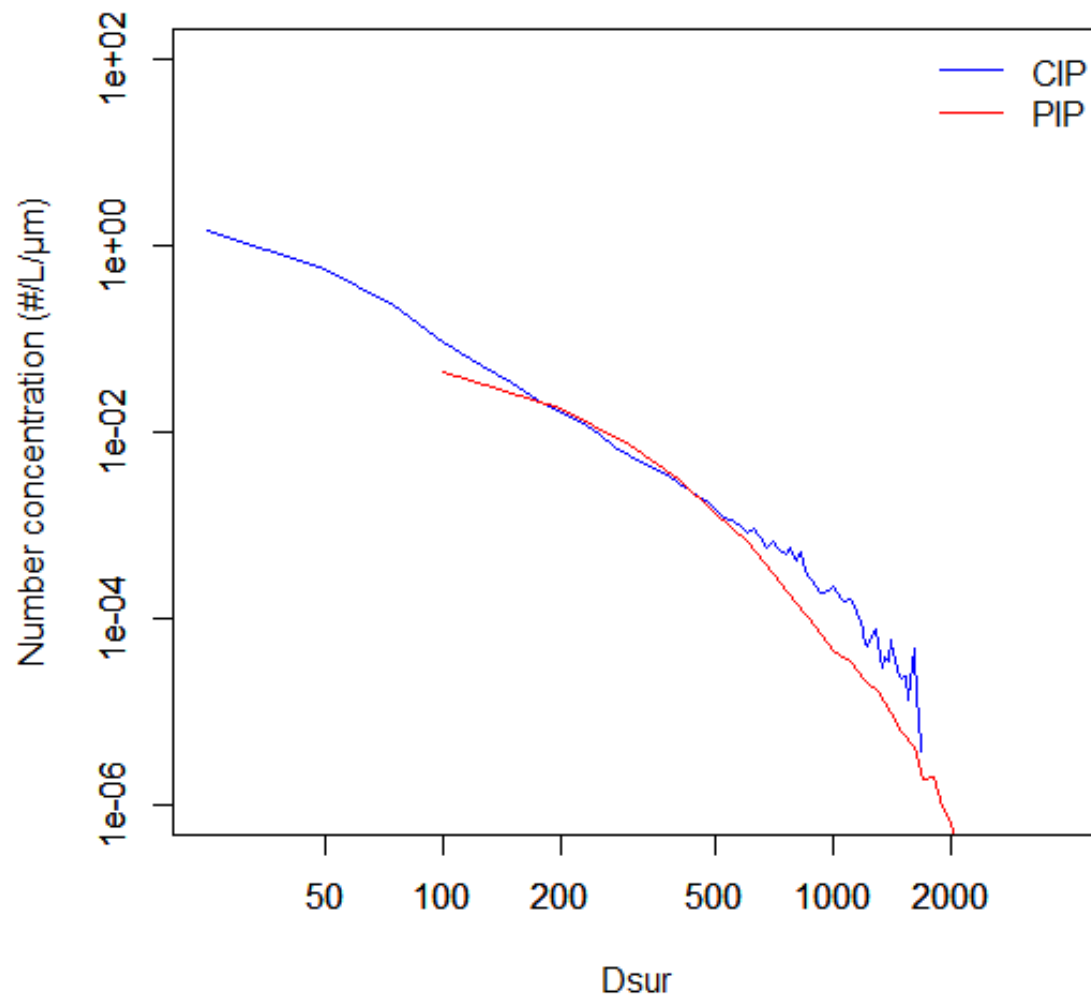


# ACLOUD

## Polar 6 – Flight 11

2nd double  
triangle close to  
Polarstern  
(11:19 – 11:37)

flight 11 \_40740-41820

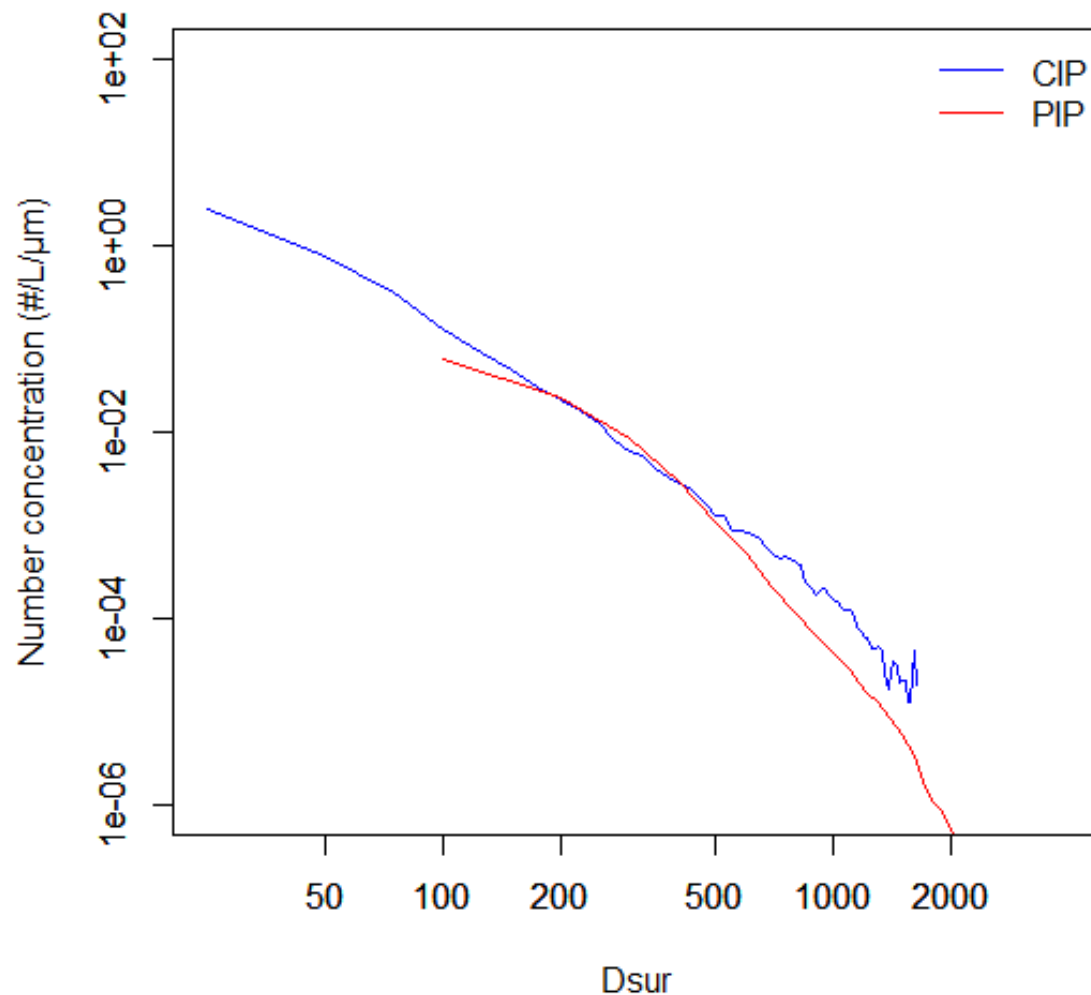


# ACLOUD

## Polar 6 – Flight 11

3rd double  
triangle close to  
Polarstern  
(11:43 – 12:03)

flight 11 \_42180-43380

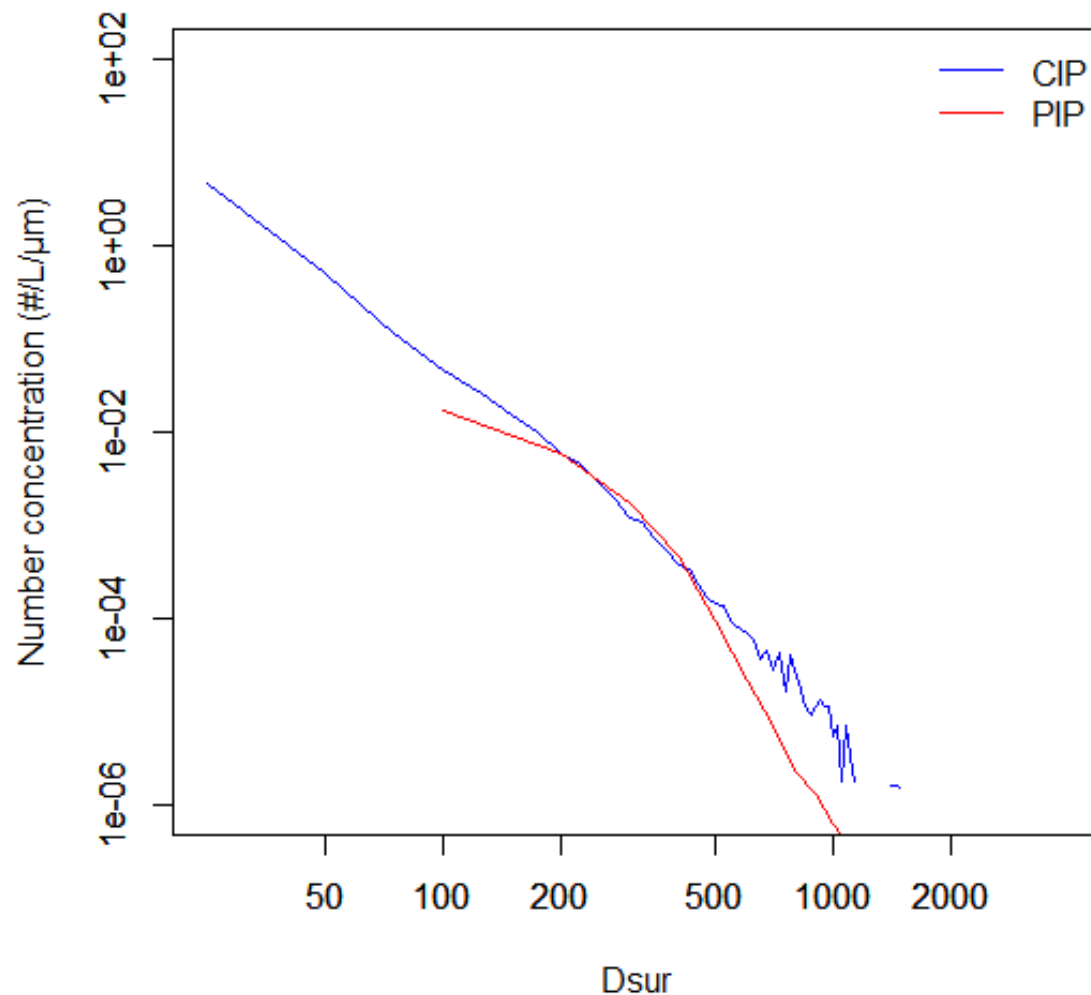


# ACLOUD

## Polar 6 – Flight 11

4th double  
triangle close to  
Polarstern  
(12:06 – 12:29)

flight 11 \_43560-44940



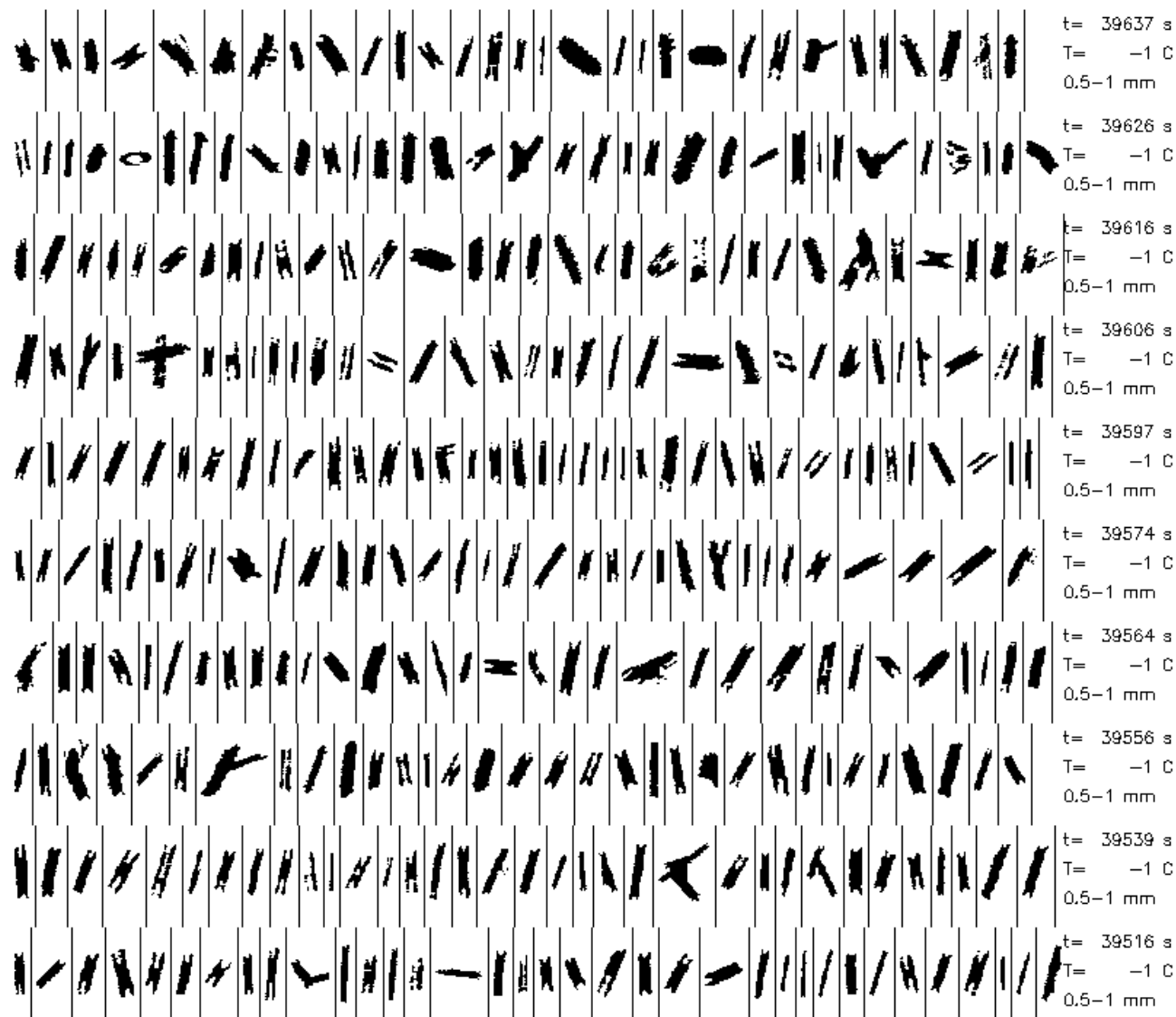




# ACLOUD

## Polar 6 – Flight 11

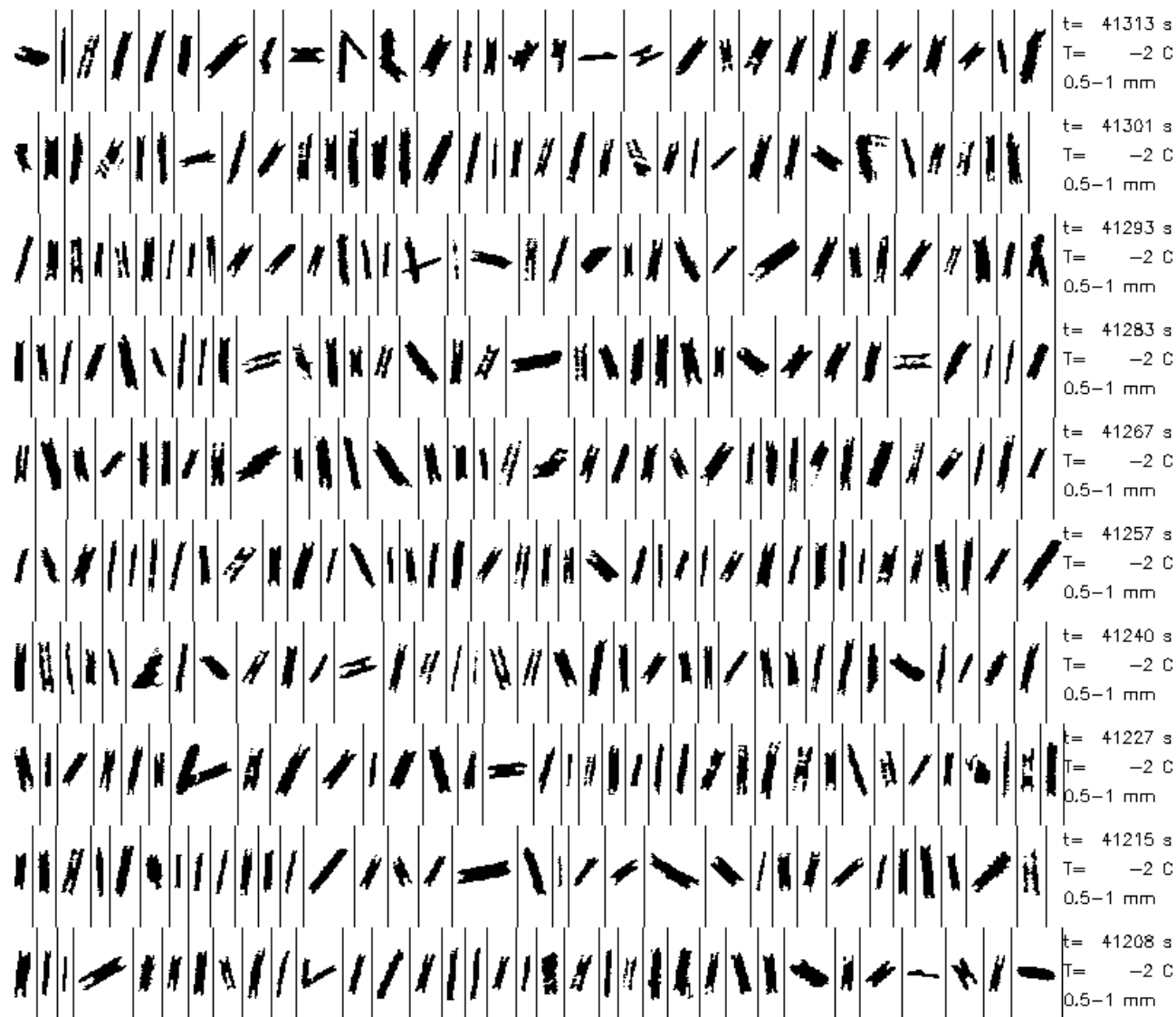
First double  
triangle close to  
Polarstern  
(10:51 – 11:19)





# ACLOUD Polar 6 – Flight 11

2nd double  
triangle close to  
Polarstern  
(11:19 – 11:37)

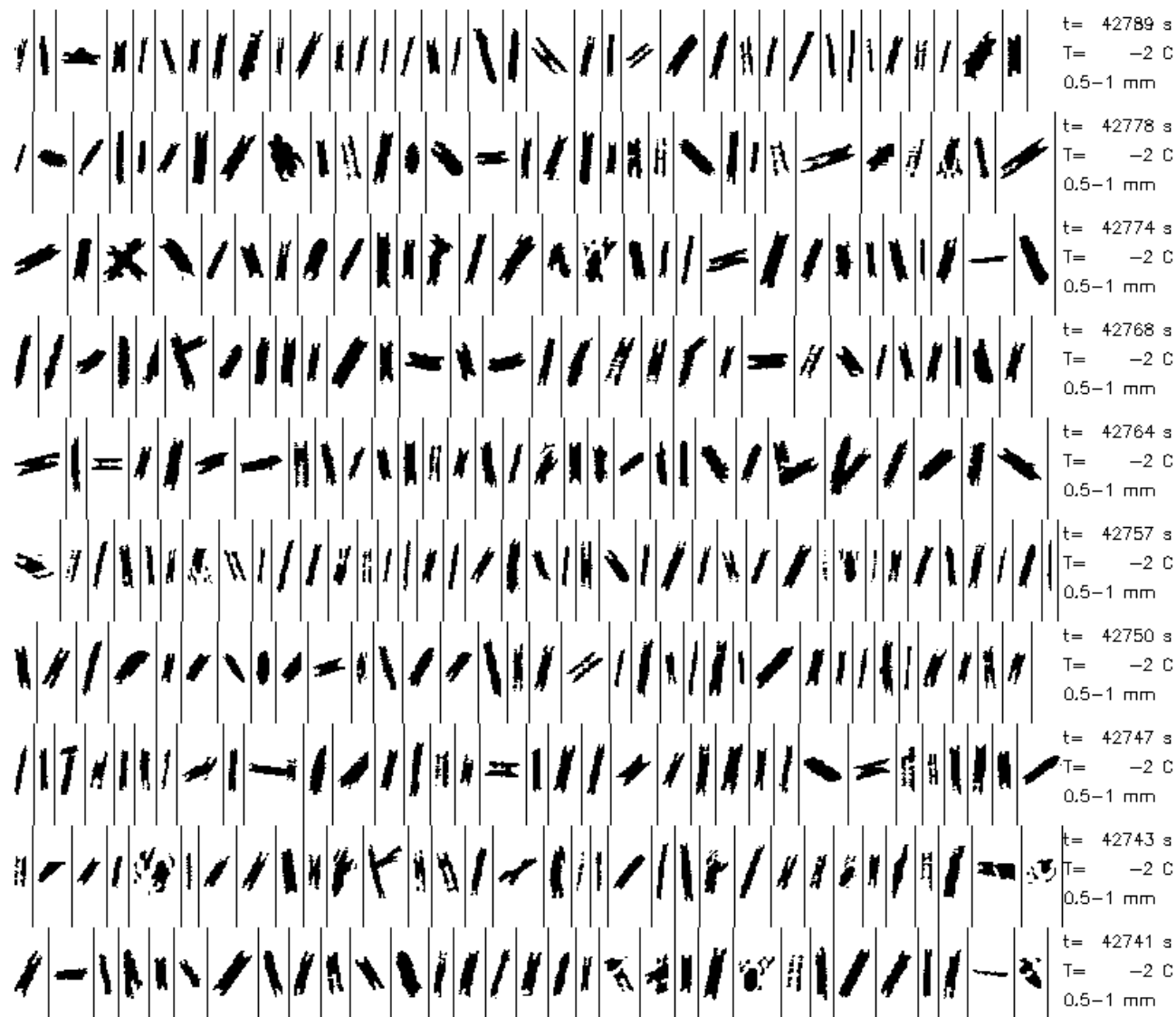




# ACLOUD

## Polar 6 – Flight 11

3rd double  
triangle close to  
Polarstern  
(11:43 – 12:03)

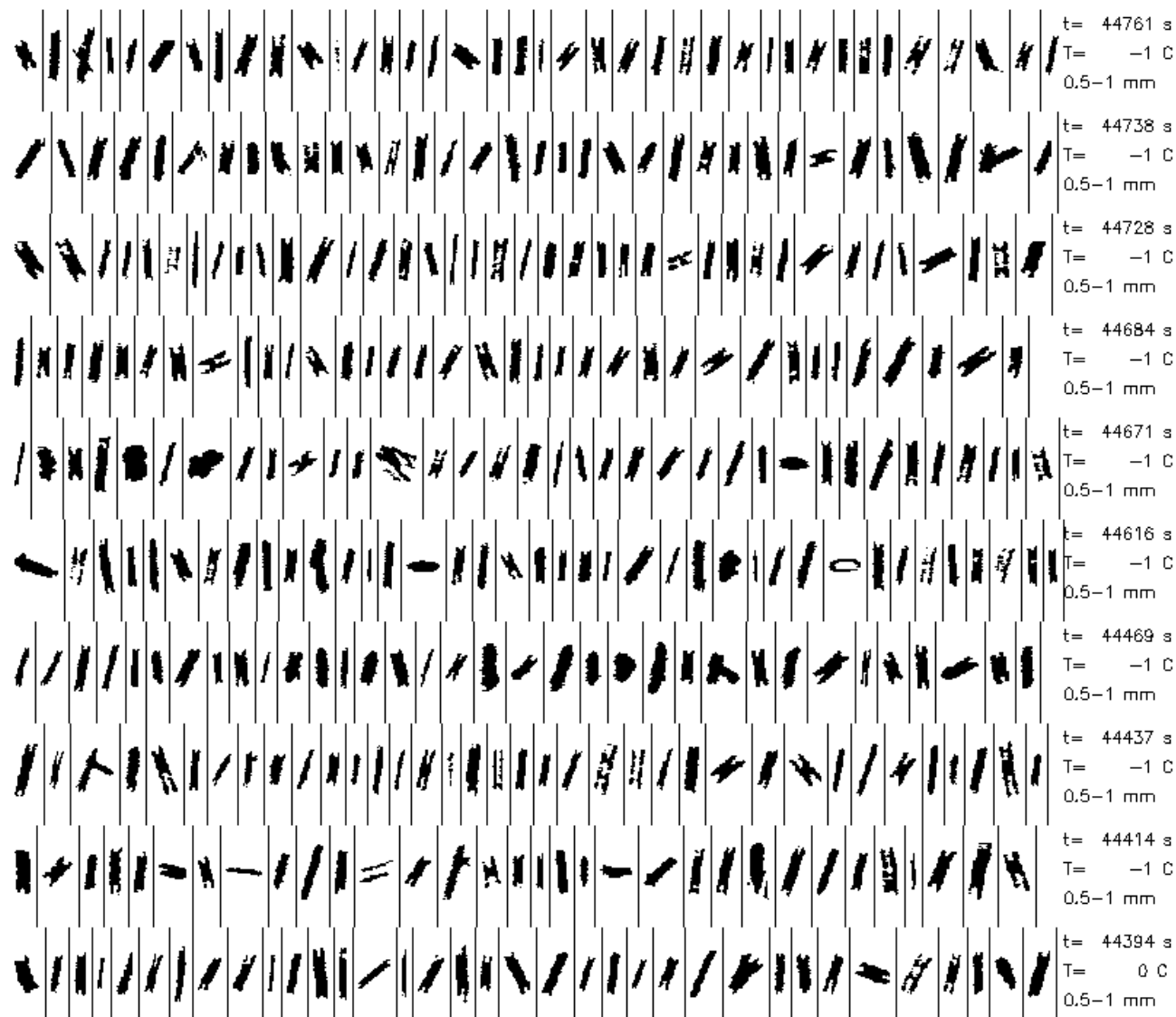






# ACLOUD Polar 6 – Flight 11

4th double  
triangle close to  
Polarstern  
(12:06 – 12:29)





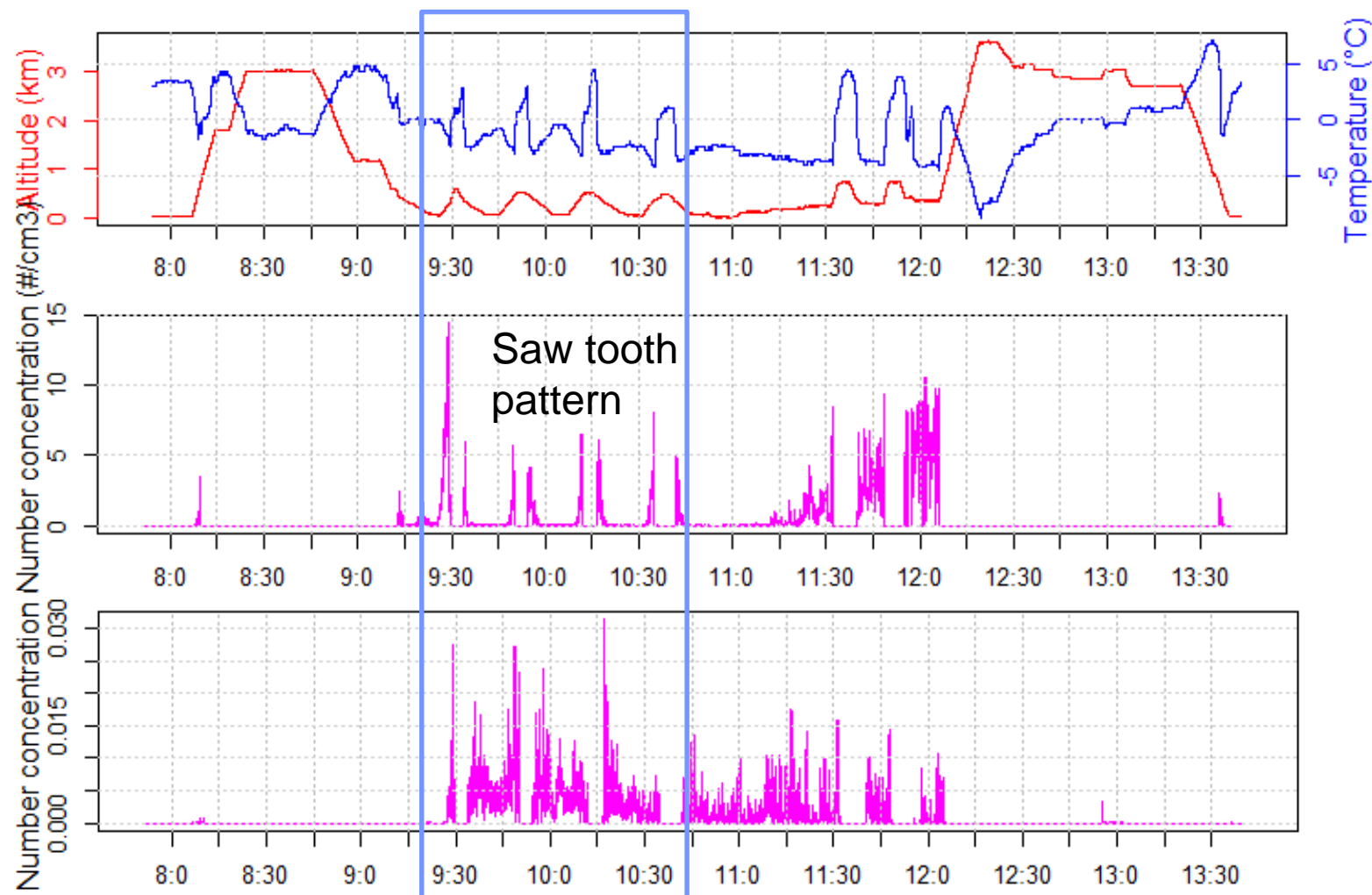
# ACLOUD

## Polar 6 – Flight 12

# ACLOUD - Polar 6 – Flight 12

## CIP & PIP raw data

Flight 12 - 20170604 - LaMP Preliminary quicklook

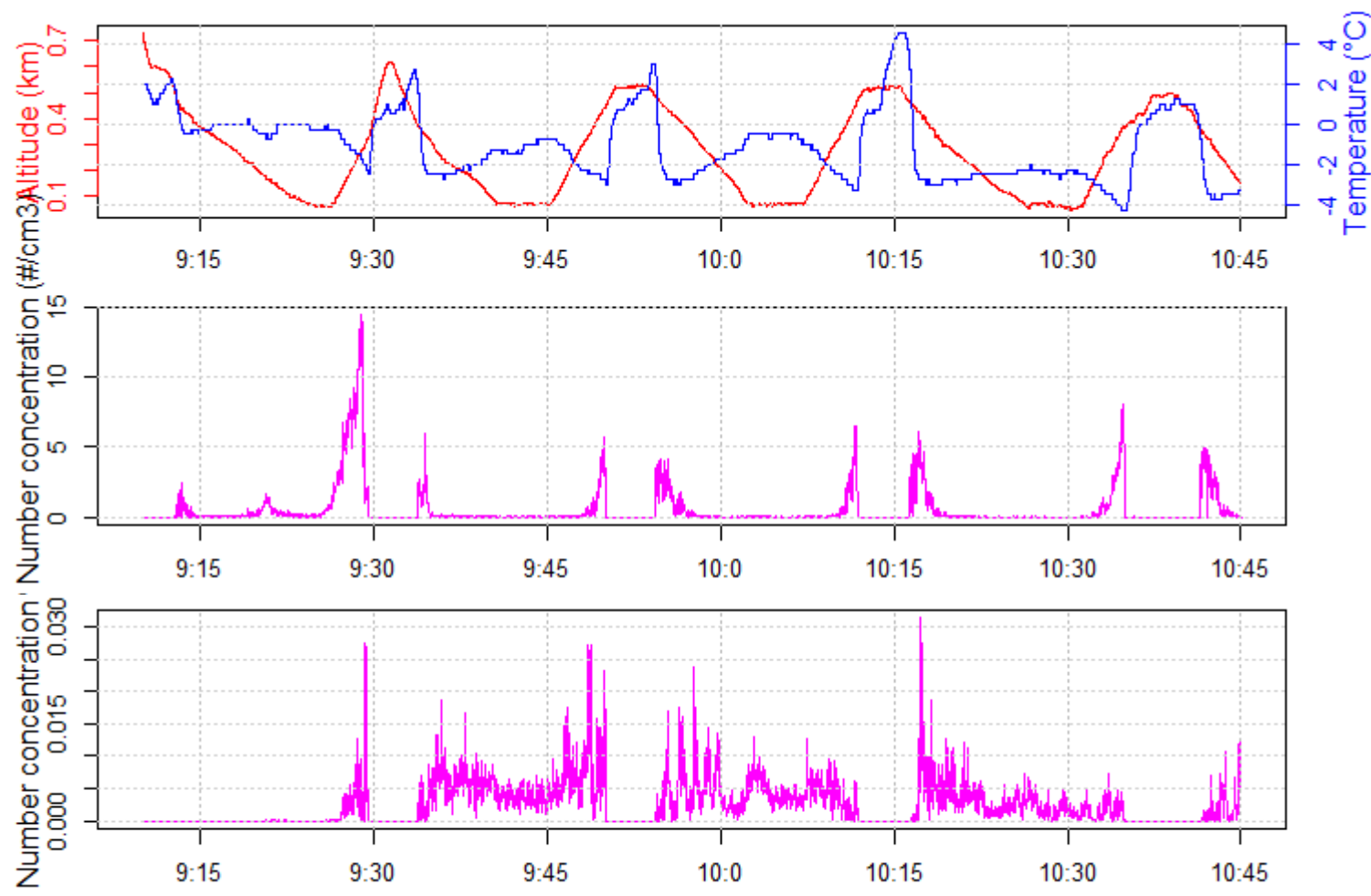




# ACLOUD - Polar 6 – Flight 12

## CIP & PIP raw data

Flight 12 - 20170604 - LaMP Preliminary quicklook



CIP

PIP