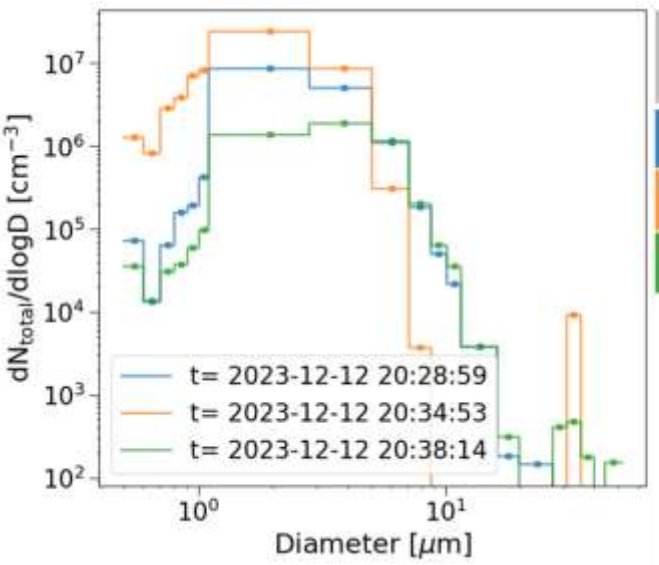
In Figure 1 three contrail ice crystal size distributions measured by the CAPS instrument are shown. Data from the flight on the 12 December 2023 is used here. The apparent ice emission index (AEI) and the effective diameter (ED) of the ice crystals are calculated for each measurement and are displayed in the table on the right.

- 20:28:59 (blue): ED = 4.2µm, AEI = $4.6 \cdot 10^{14}\,kg^{-1}$, ambient temperature = 230.7K
- 20:34:53 (orange): ED = 2.8µm, AEI = $2.5 \cdot 10^{15}\,kg^{-1}$, ambient temperature = 230.3K
- 20:38:14 (green): ED = 5.1µm, AEI = $1.8 \cdot 10^{14}\,kg^{-1}$, ambient temperature = 230.7K



ED [µm]	AEI [kg^{-1}]
4.2	$4.6 \cdot 10^{14}$
2.8	$2.5 \cdot 10^{15}$
5.1	$1.8 \cdot 10^{14}$

Figure 1: FCEE contrail ice crystal size distributions measured by the CAPS probe for three different plume measurement sequences.