Fast-FSSP measurements

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# Data Base overview

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<th>Calibration</th>
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Release by the end of August
Fast-FSSP Calibration

After RF11

Before RF11

RICO

After RF13

After RF12

After RF11

Before RF11
There is **now** a good agreement between the different C130 probes except the FSSP-100

- **Comparison with BAE146 CDP:**
  - Agreement for droplet number concentration
  - But discrepancy for the size distributions and then for the LWC

**What about the G1 intercomparison flights?**

**Are the C130 CDP spectra too narrow?**
$1 \text{ s} \approx 100 \text{ m}$
DYCOMS-II RF03 Cloud top structures
DYCOMS-II RF03

RH ~ 30 %
w ~ 0.6 m/s
ql ~ 0.7 g/m3
D ~ 15 μm

τ_t ~ 17 s
τ_d ~ 0.8 s
τ_d / τ_t ~ 0.05

SCMS-06/08

RH ~ 30 %
w ~ 6 m/s
ql ~ 4 g/m3
D ~ 30 μm

τ_t ~ 1.7 s
τ_d ~ 3.2 s
τ_d / τ_t ~ 1.9

SCMS-11/08

RH ~ 80 %
w ~ 6 m/s
ql ~ 4 g/m3
D ~ 30 μm

τ_t ~ 1.7 s
τ_d ~ 11.3 s
τ_d / τ_t ~ 6.6

Burnet and Brenguier, JAS 2007