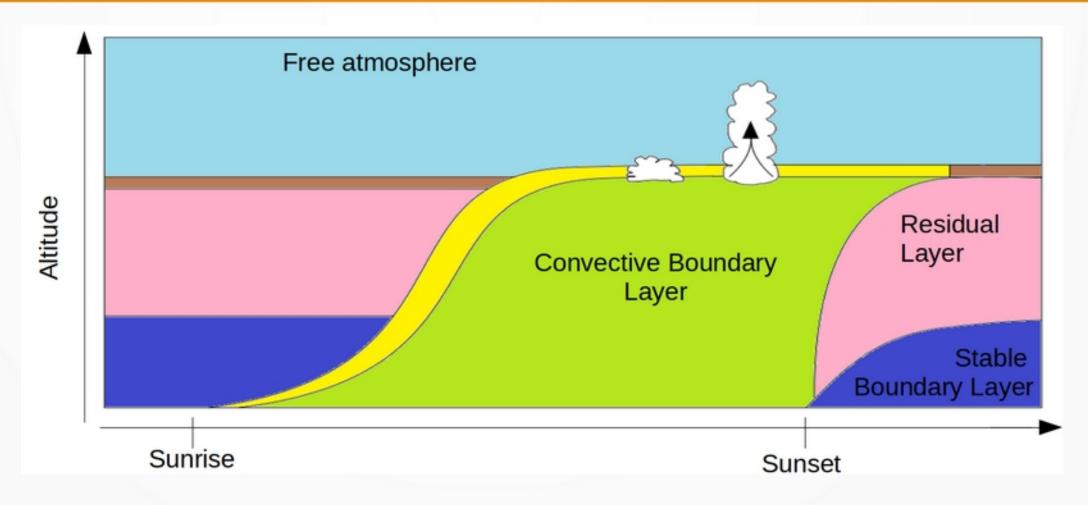
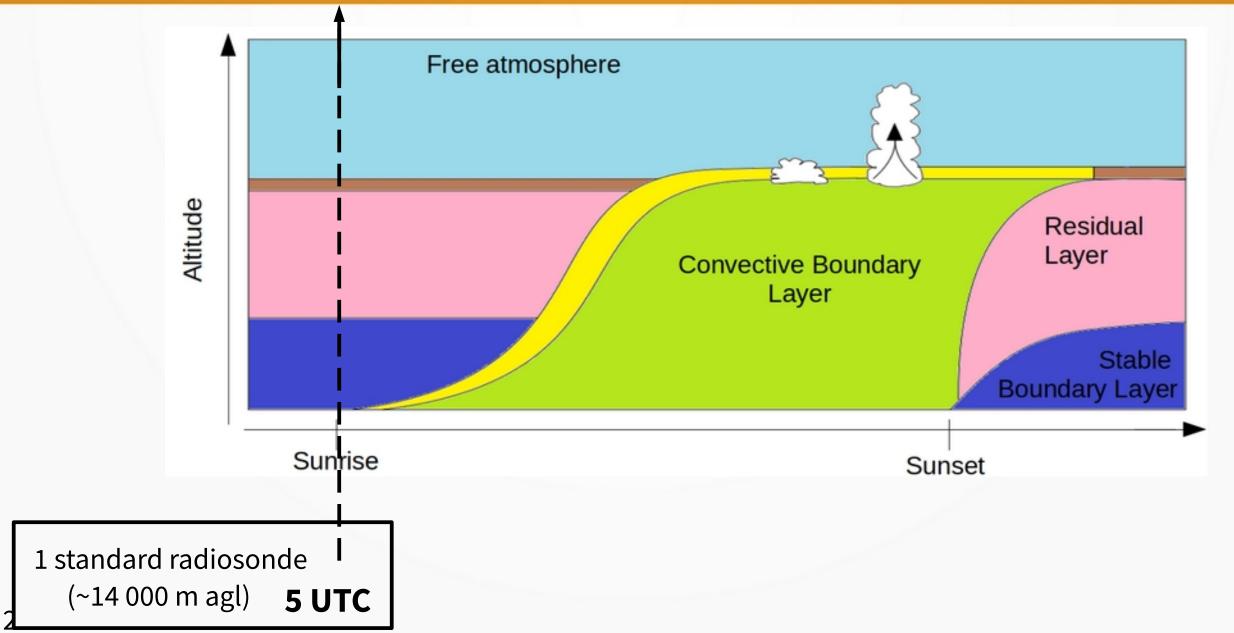


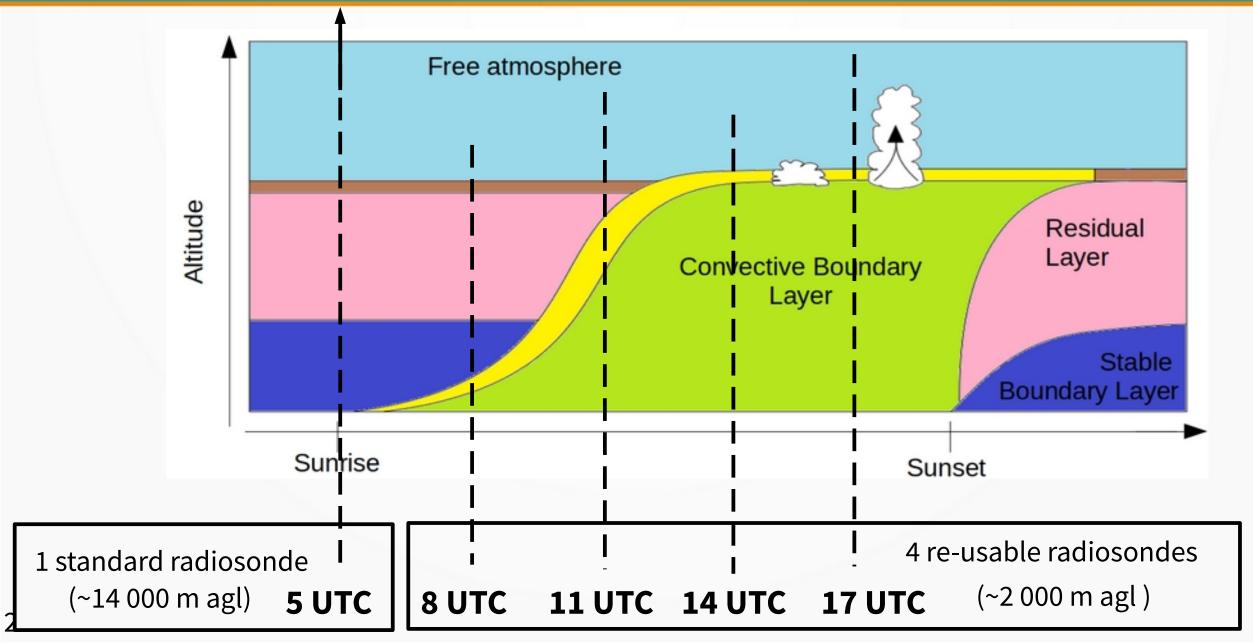
Aim: Description of the boundary layer evolution during each IOP



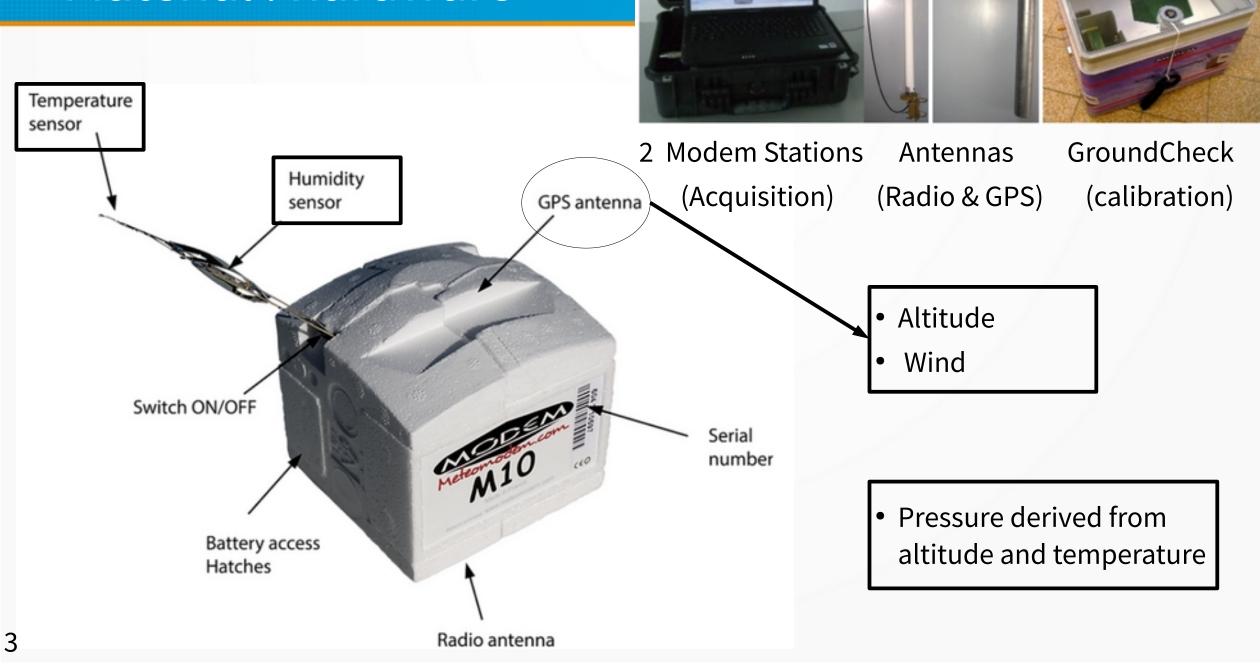
Aim: Description of the boundary layer evolution during each IOP



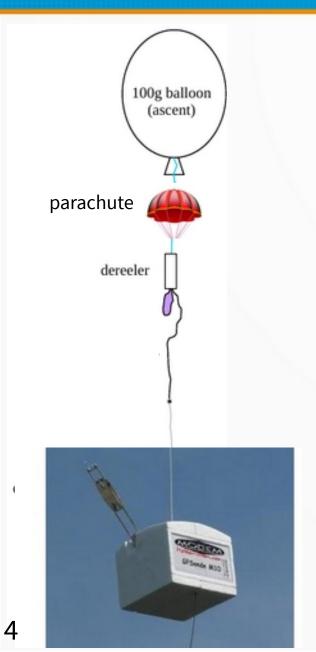
Aim:
Description of the boundary layer evolution during each IOP



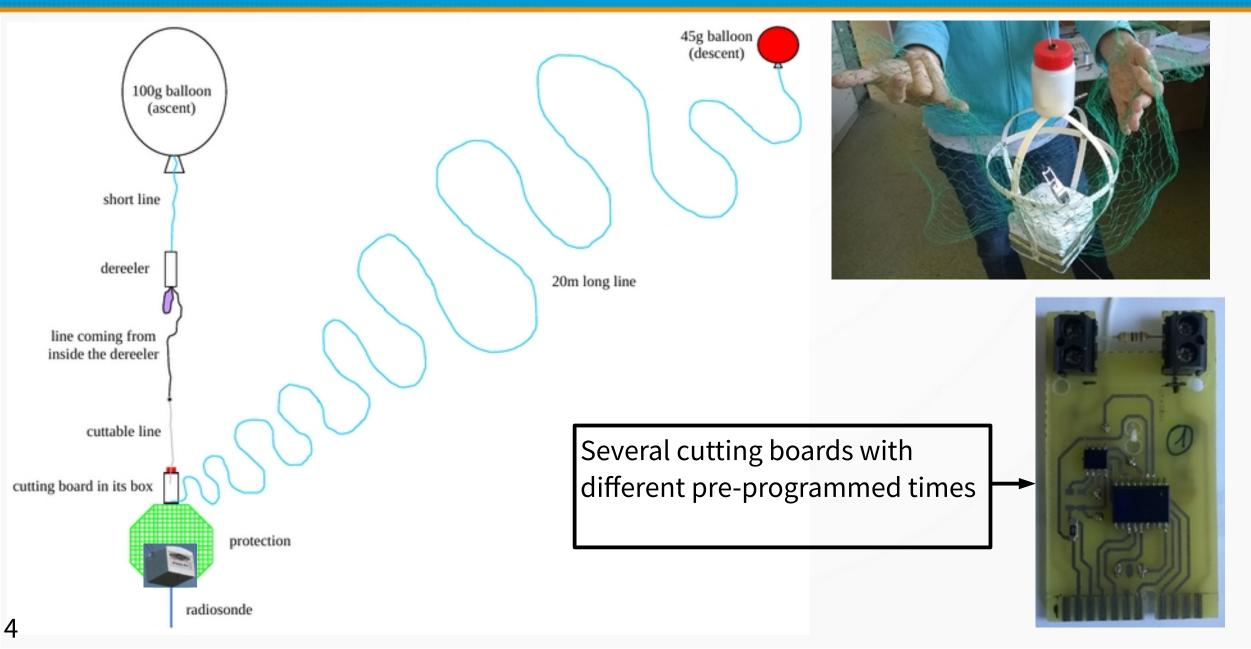
Material: hardware



Material: Flying chain (standard)



Material: Flying chain (re-usable)

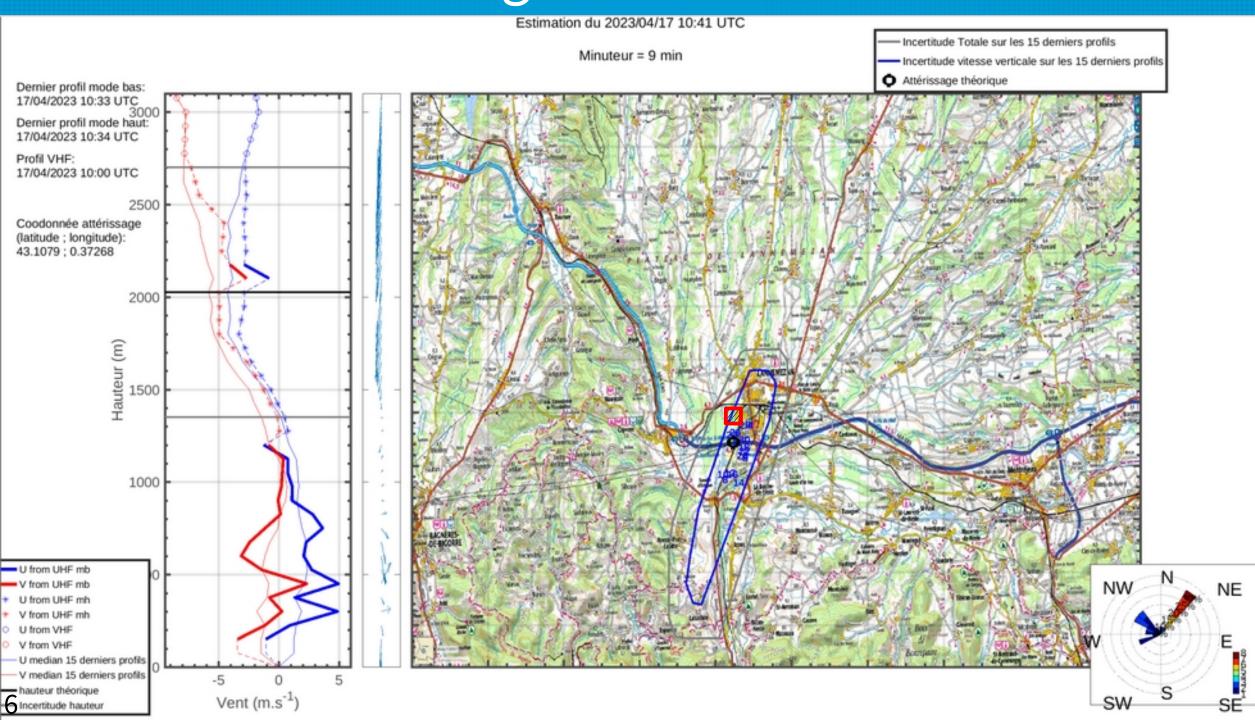


Softwares

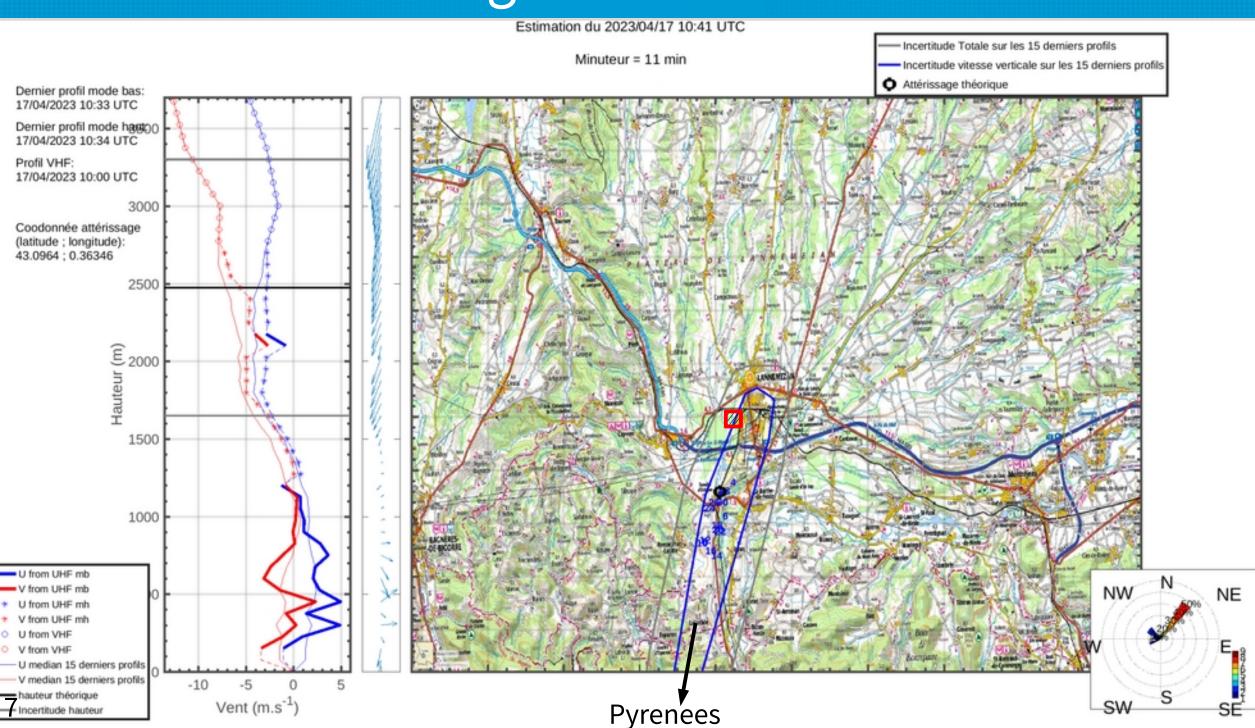
- Acquisition: IR2010 & Icare
- Home-made landing prediction software (to avoid the highway and prison 🖾):
 - → Based on UHF & VHF wind profiler data
 - → Last 30min profiles (15 profiles for UHF & 1 profile for VHF)
 - → Area of uncertainty:
 - Ascent & descent velocity uncertainty
 - Wind measurement uncertainty



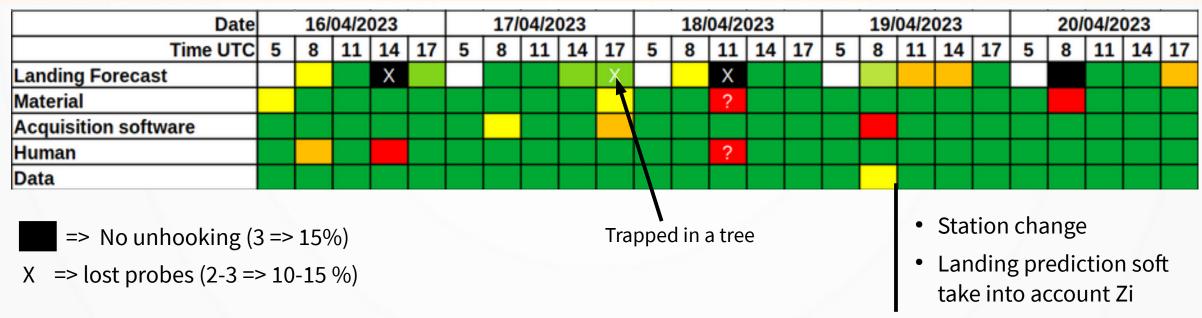
Landing forecast: 9 min



Landing forecast: 11 min

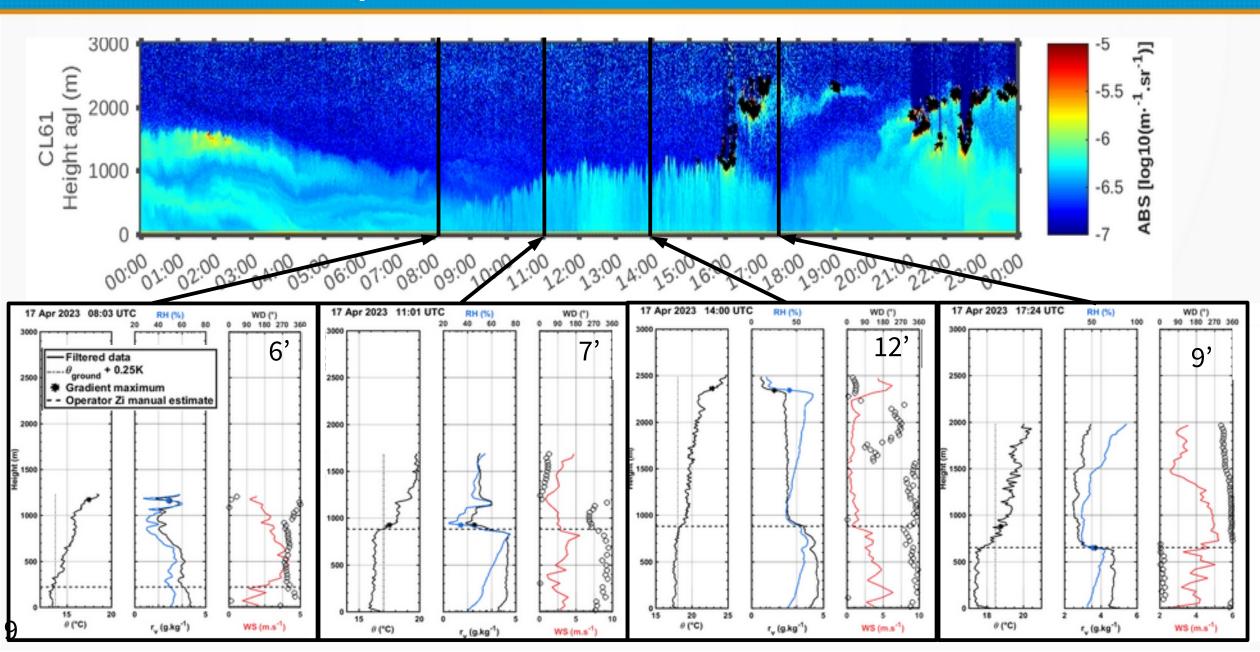


Recap tables of all soundings launched

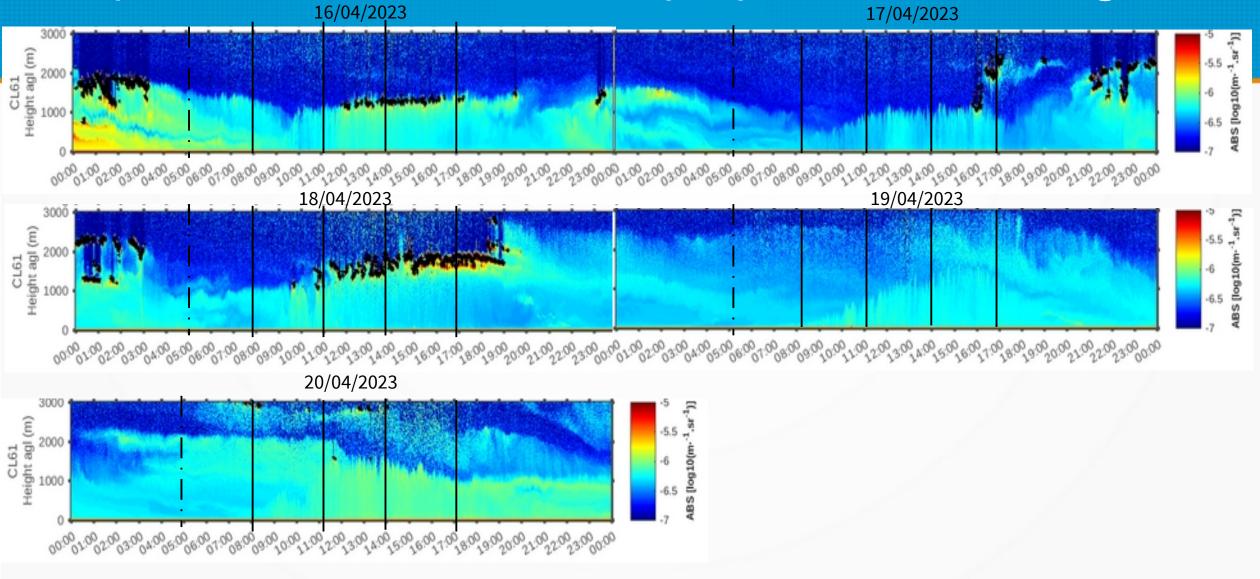


- Material: no way around (1 probe temporarily lost)
- Acquisition: Spare station used, no problem afterwards
- Human: 3 mistakes that were never repeated (2 probes definitively lost)
- Landing Forecast: successful improvements along the way, not perfect, doing our best
- Data: only one impacted profile, but we have the descent close to CRA!

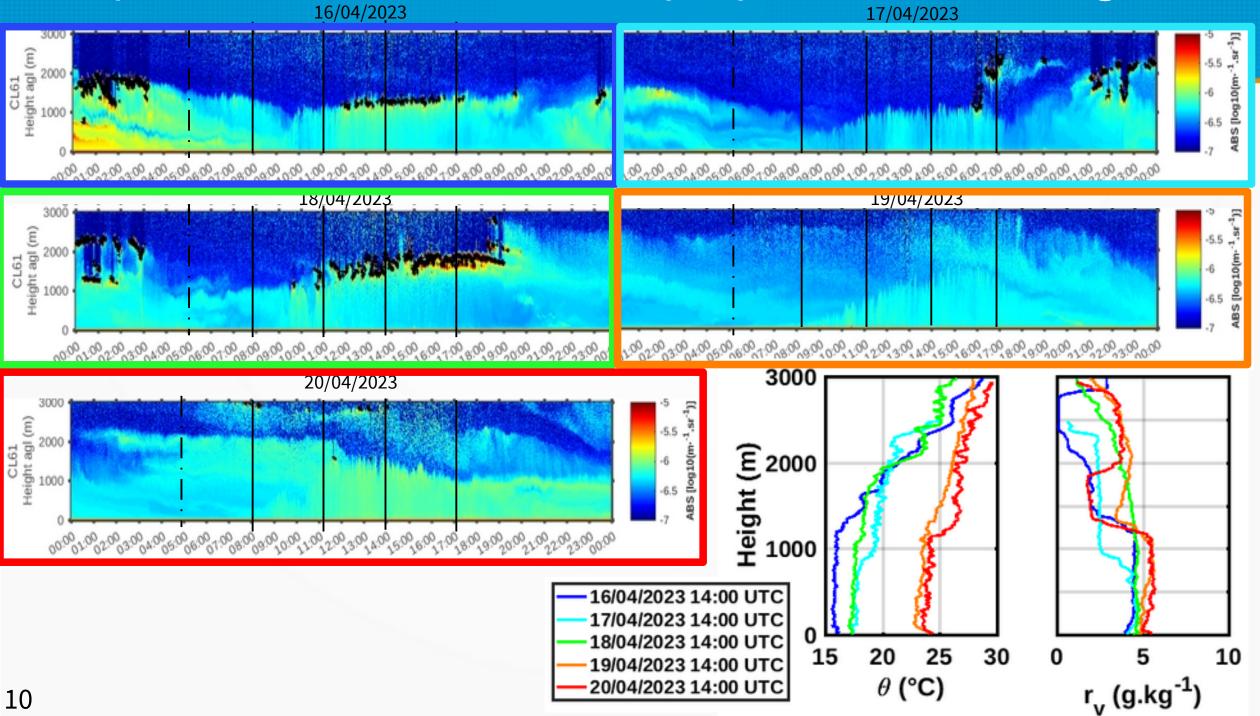
Profile examples: 17/04/2023



Comparison between boundary layer and launching time



Comparison between boundary layer and launching time



Conclusion

- No lost data, 2 lost probes
- Good times to launch, for August SOP too
- Landing forecast works but depends on wind variability
- Some technical problems mostly solved:
 - Human error (
 - Aquisition software problem
 - Radio problem to watch out for at the August SOP (



=> Objective: no losses!



