

Mid-Project ICE-T Meeting

Objectives of Meeting

- Calendar for remaining flight days
- How to best achieve remaining goals
 - Group by group assessment
 - Educational Outreach
 - Stith/Lawson/TBD
- Suggest flight patterns

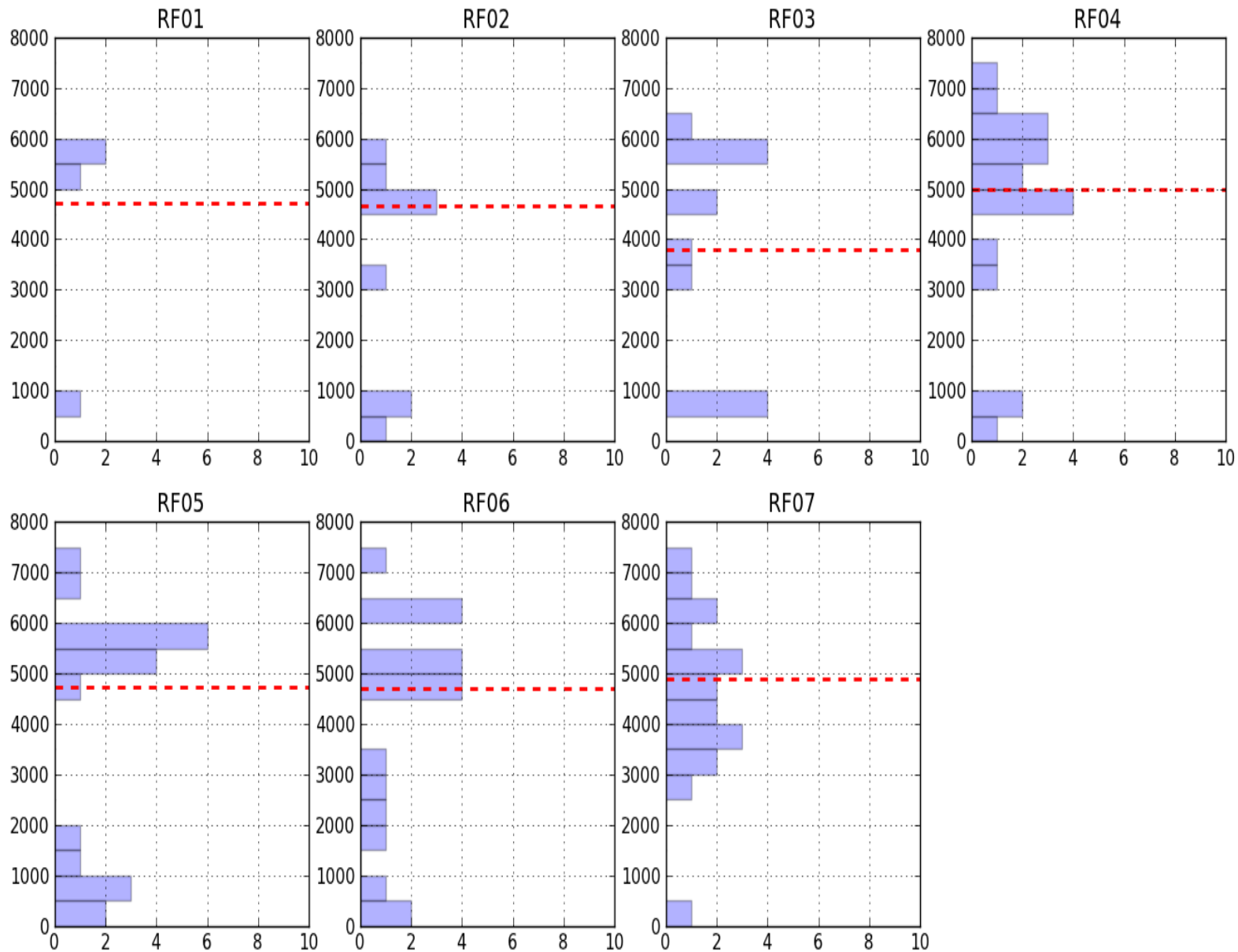
July 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
17	18	19	20	21 Hard-Down WCR Repair	22 C130 to PR	23
24	25	26	27	28 Hard-Down	29	30
31						

After RF07: 32.8 flight hours remaining (~30 flight hours after Puerto Rico)

8 flyable days

5 flights (6 ?)



RF01 -- 20110701

Leg 2 of ??

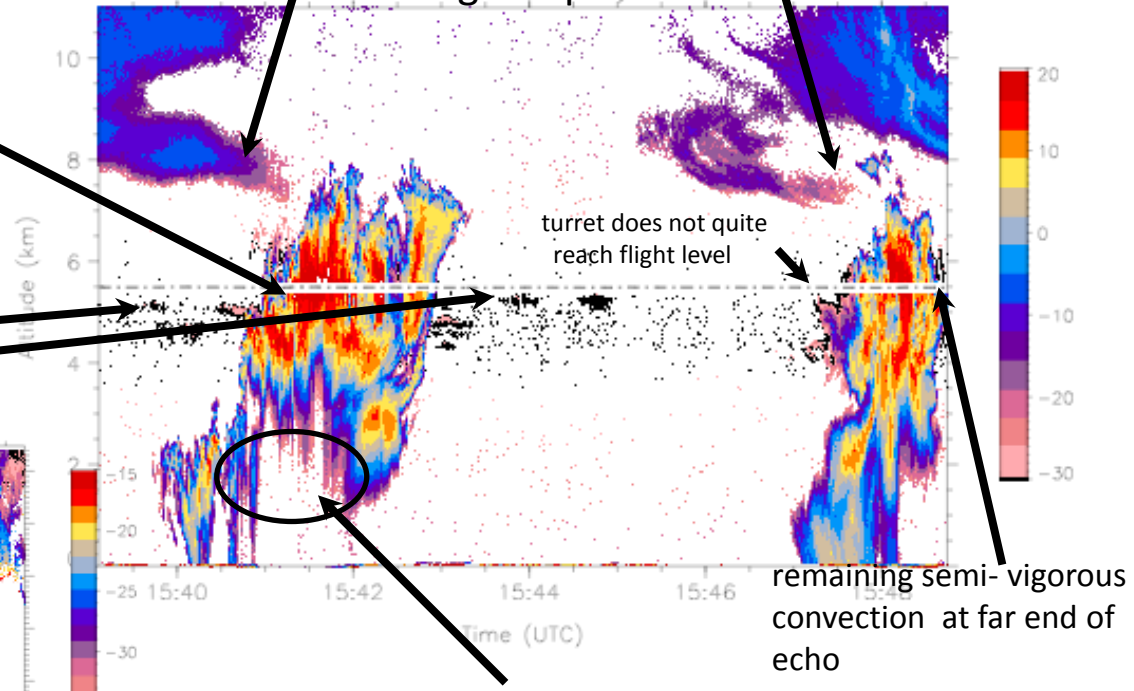
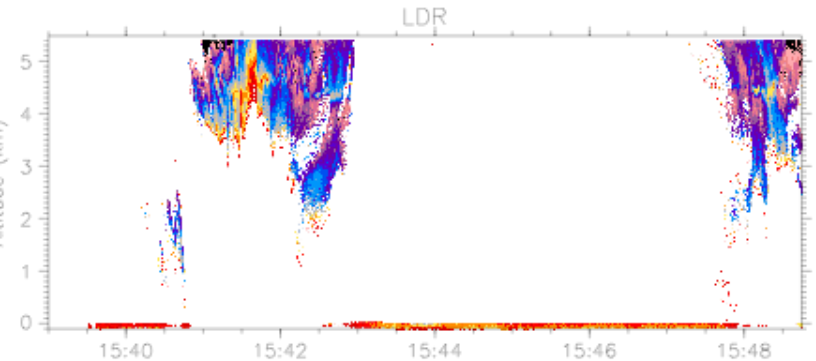
15:39:20 -- 15:48:45

Level flight at ~5.5 km altitude

new turret developing here

high altitude cloud layer may be seeding sampled cells

C130 flying ~300-500m above boundary of some kind. Some thin, non-glaciated clouds (black is Z < -30 dBZ, but above noise threshold used)



Strong attenuation indicates high liquid water contents or liquid drops from ~300 um -- ~3 mm diameter

2 Convective cells penetrated: 15:40 -- 15:43, 15:47 -- 15:49

© 15:40 -- 15:43: Cell appears to be thoroughly glaciated, but strong attenuation indicates high liquid water contents or ~1mm water drops. Overall, this cell appears to be midway through its lifecycle, but still has significant dynamics and cloud water.

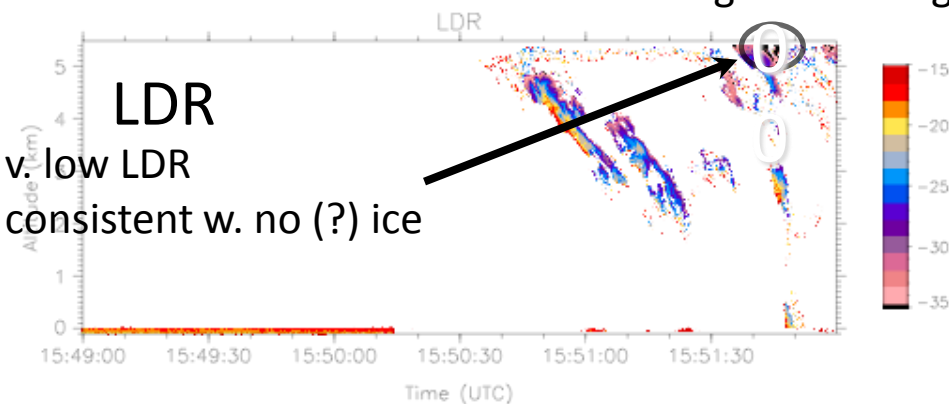
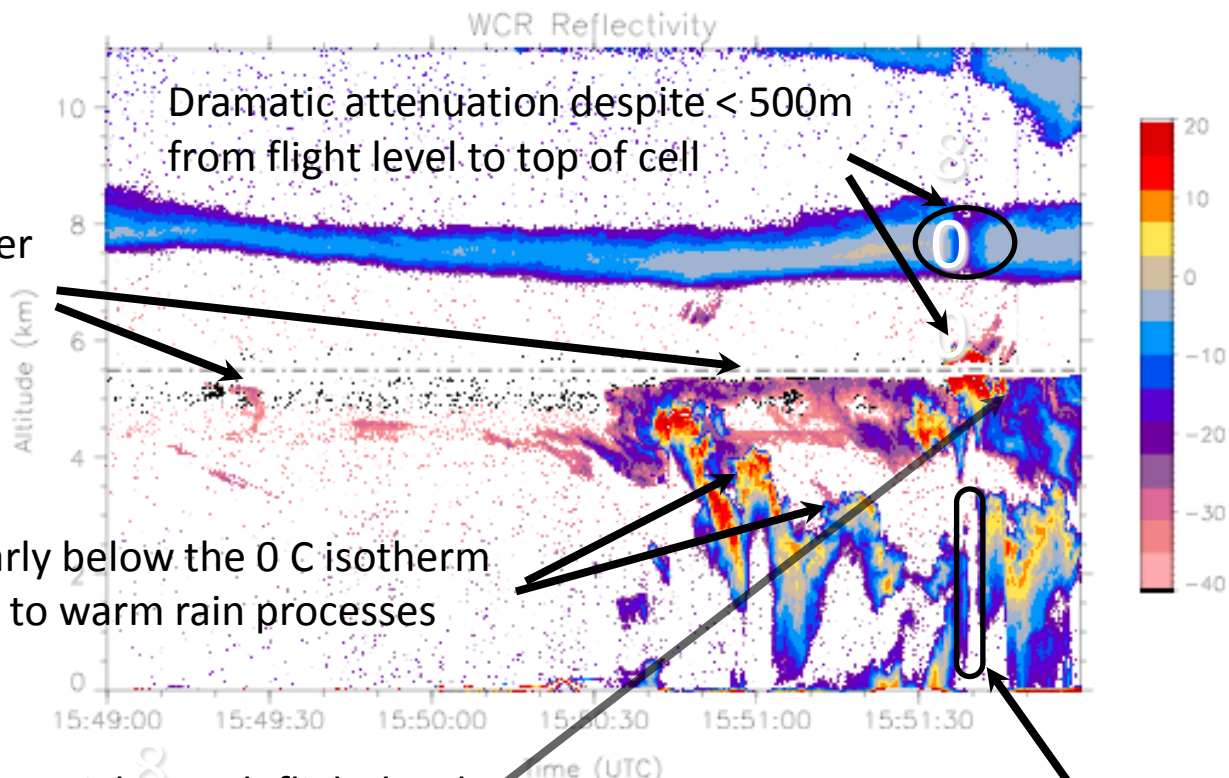
© 15:47 -- 15:48:45 : Cell in similar stage of development. However there is less obvious attenuation. Note the proximity of the upper layer cloud to cloud-top for this cell makes it nearly certain that ice from above is reaching this cell.

C130 flying 100s of m above As layer
Skimming and may enter this layer
after 15:51

'Bubbles' are clearly below the 0 C isotherm
Strong echoes due to warm rain processes

turret might reach flight level

Strong attenuation evident here.
Attenuation probably occurs close
to flight level



C130 skimmed just over top of this cell

Aircraft flying ~300m above some sort of boundary (evident from small cloud fragments below)

