

Validation Discussion and Recommendation

L1 CPR

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Validation (L1 CPR)



- *Calibration by Agency (NICT&JAXA)* H124 Tomiyama, H212 Horie
- Under Flight - for direct comparison
 - MIRA on HALO (PERCUSSION) H116 Ewald, H225 Imura, Airborne Campaigns Overview H324 Bismarck, ECALOT H419 Borque, MORECALVAL (RASTA), H420 Francois, CRS @NASA/GSGC H423 McLinden, PONEX (planning) H425 Walker, MiRAC-A (COMPEX-EC) H426 Gelder,
 - HG-SPIDER(NICT Koganei) H212 Horie, Annex51 Hagihara ACTRIS H213 Pfitzenmaier, H323 Wandinger, Annex54 Feuillard, Annex61 Trisolino, Annex64 Weiss, Weather radar (Finland) H214 Moisseev, Mario Zucchelli (Antarctic) H215 Roversi,
- Ground-based Radar – for Statistical Comparison
 - HG-SPIDER(NICT Koganei) H212 Horie, Annex51 Hagihara ACTRIS H213 Pfitzenmaier, H323 Wandinger, Annex54 Feuillard, Annex61 Trisolino, Annex64 Weiss, Weather radar (Finland) H214 Moisseev, Mario Zucchelli (Antarctic) H215 Roversi,
- Other Method
 - EarthCARE/CPR-GPM/DPR
 - Surface Doppler Velocity
 - NWP Model
 - coincidence H119 Aoki,
 - statistics H202 Treserras, add high altitude echo Annex60 Takahashi,
 - ECMWF Operational Forecast System H306 Mroz,



KNOWN ISSUE

(calibration: H124 Tomiyama, H212 Horie)

- Z factor : no issue after vCb
Most Validations are performed by Level 2 but almost same information as Level1 (CPR_NOM)
- Doppler Velocity : bias correction
need beam mispointing correction in Level1 (CPR_NOM)
succeeded bias correction using surface Doppler velocity in Level2
- Spectrum Width : not revealed (new information !) (H424 Tanelli)
- Surface Product: DEM accuracy (introduce new DEM in L2 CPR_ECO Annex57 Kanemary)



- Continue Ground Radar Validation Activity for statistical agreement
- Continue Under Flight (Campaigns) Activity for direct comparison / statistical comparison
- Perform beam mispointing correction by Level 1 processing
- Reconsider the DEM accuracy in Level 1 processing
- Consider the validation of Spectrum Width