Validation of Level 2 Products: The First Year

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AIRS Science Team Meeting

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Solvang

Additional Validation Data Sets

- Denise Hagan will start analyzing Surface Marine around L+2 months
- Radiosondes are pouring in
  - Hundred of daily match-ups, will to be analyzed *a posteriori* around L+5-7 months.
- ACARS/MOZAIC data acquired from the get-go
  - More L+5-7 months processing.
- The Golden, er, *Focus* Day for extensive comparison with AVN & ECMWF is currently scheduled for L+70 days
  - Useful mainly for sanity checks.

TDS Reprocessing Priorities for Validation

- All Level 1B at L+5 months

- Level 2 match-ups at L+7. Priorities:
  1. ARM and Validation Team sites
  2. Golden Day
  3. Radiosondes and ACARS/MOZAIC
  4. Surface Marine
  5. Synoptic match-ups

Validation Conclusions

- The dedicated sites and Validation Team experiments are ready to go at around L+2.5
  - We are working on getting sample data to JPL and into TDS
- We have finite computing resources
  - Reprocessing has to be planned accordingly.
- Things get busy with the first stable Level 1B PGE (L+5)
- Things get REALLY busy with RTA delivery at L+7

  …because Level 2 code at JPL must be stabilized around L+9 for delivery to DAAC around L+10!

IEEE Paper
'AIRS / AMSU / HSB Validation'

- Overview, current operational data sets, including Validation Team experiments.
- Twenty-three current authors (!)
- Several sections:
  I. Intro, including overview and error source discussion
  II. Routine Data for AIRS Validation
  III. Special Observations for AIRS / AMSU / HSB Validation
  IV. Sample Sizes and Error Characteristics of the Correlative Data Sets
  V. Schedule of Validation Activities
  VI. Summary