EARWiG Summary

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Main Points

GHRSST PO Requests

- Approach to consensus in retrieval algorithms/cloud masking *etc*.
  - Is consensus possible?
    - **Maybe, but not yet**
  - Is it desirable?
    - **Not right now. It would stifle innovation**
- Approaches for interacting GSICS and using real-time corrections
  - Meteosat SEVIRI is now operational and other geostationary sensors will follow
  - Noone is using it yet (that we are aware of)
  - N.B. Only for geostationary sensors
  - Using the matchup data to derive actual fixes for calibration would be better, but those data are not being made available publically

Main Points

- 8 presentations shows that there continues to be a lot of activity and interest
  - Not bad for a group whose very raison d'etre was questioned at the outset
- Physical retrieval methodologies are coming to the fore
  - Radiative transfer, instrument calibration and NWP input are issues
  - Need a good source of aerosol data to include (preferably 3-d)
  - Metrics which calculate quality of SST retrieval on a pixel-by-pixel basis have potential to improve SSES
  - Additional channels of new instruments offer prospect of improved retrievals (more complex state state vector)
  - Can consider iterative methods
  - Smoothing inputs related to 'atmospheric' parameters shows promise
- Improvements to cloud detection
  - Bayesian gives ~20% ('traditional' methods ~10%)
  - Implication that a good retrieval is possible for ~30% of data
- Other comments
  - Is it necessary to have many variations on certain algorithms (e.g. NLSST)
  - Include 'SST sensitivity' metric in assessment of algorithms
  - Consensus on metrics is desirable – obvious link to STVAL