

KMA's Activities of GSICS

2nd Teleconference Meeting

2008. 12. 16

GEO-LEO IR Calibration

Establish the inter-calibration system for MTSAT-1R with AIRS and IASI

- Implement GSICS S/W using MTSAT-1R data
- Period : Jun.2007 ~ May. 2008
- Test conditions
 - AIRS vs. IASI
 - Convolution vs. constraint method





 \rightarrow Filtering problem of Inhomogeneous scene for operation





 \rightarrow Time difference conditions for fast moving cloud system

Time series of ∆T(MTSAT-AIRS/IASI) with Convolution method



Time series of ∆T(MTSAT-AIRS/IASI) with Constraint method



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Vicarious Calibration for VIS

Desert target : Algorithm flow chart



Sample Results



Results : Radiance Vs. Digital count



Results : Time series



Future Plan of KMA

□ Vicarious calibration for VI channel

- > Monitoring and updating the desert target method
- ➢ Collaborating with SNU for DCC target method
- Establish the inter-calibration system for COMS with AIRS and IASI
 - ➤ Implement the GSICS system for COMS
 - > Monitor the long term stability of COMS detectors