MTG LI: L2 product validation concept
Topics

• L2 validation

• Campaign planning
L2 validation

• Products to be validated
  • (Groups)
  • Flashes
  • Accumulated products

• A separate topic is validating the filter elements’ performance => feedback to filter tuning
  • Filtering will be a L0-L2 activity, not contained only in an early part of the processing chain
Reference data

• No reference data set is a “one-solution-fits-all”

• Using of existing surface-based lightning observations understanding their strengths and weaknesses

• Data currently considered (*) for validation
  • ATDnet
  • GLD360
  • LINET
  • LMA (Europe)
  • ISS-LIS

(*) Considered = have experience with data and/or existing contact with data providers

• Other data providers/data sources can be added as the cal/val planning matures
Reference data – some notes (1)

- **ATDnet**
  - A natural EUMETSAT partner.
  - In talks to provide data also for the GLM validation in 2016=> (at EUMETSAT cost)
  - Coverage semi-global, best over Europe
  - Network expansion until LI era still TBC

- **GLD360**
  - Only first data evaluations started so far
  - Waiting also for GLM cal/val experiences
  - No formal cooperation with Vaisala in place
Reference data – some notes (2)

• **LINET**
  • Long-term partner with EUMETSAT for proxy data development and delivery
  • Campaign contribution to GLM cal/val proposed: mobile LINET units placed in TBC locations in CONUS area (similar to CHUVA campaign)

• **LMA (Europe)**
  • Interesting networks in development in Europe
  • In LI-era these should be fully tested already
  • Opening the possibility of cross-validation with experiences obtained with GLM vs. LMA experiments
  • Access to data?

• **ISS-LIS**
  • LIS coverage over Europe – potentially a direct reference to both GLM and LI as a “bridging” observation
  • Launch in 2016 – available still in MTG era (2019 =>) ?
Campaigns and LI Cal/Val planning

• Campaigns:
  • From previous slide: proposed campaign contribution to GLM cal/val – mobile LINET units placed in TBC locations in CONUS area (similar to CHUVA campaign)
  • Q: Maturity of campaign planning on GLM side to include a EUM-LINET contribution?

• Cal/Val planning for LI:
  • Will start in 2016 with a preparation of a Cal/Val plan document