

MTG LI: L2 product validation concept

- 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