



Geostationary Constellation for Observing Global Air Quality: Geophysical Validation Needs document

Objective of today's working meeting:

- How to make the document useful?
- Document consolidation steps

The document is meant to capture

- Validation Needs
- lessons learnt from heritage missions
- inter-mission consistency needs
- GEO specifics needs

The doc is meant to be used for

- Identify needs for new validation infrastructure or approaches
- Provide reference for mission-specific validation requirements



1. Introduction
2. Missions
 - 2.1. GEMS
 - 2.2. Sentinel-4
 - 2.3. TEMPO
 - 2.4. Sentinel-5 Precursor / TROPOMI
 - 2.5. Common Parameters in L1b and L2 Products
3. Lessons Learned
4. Geophysical Validation Needs
 - 4.1. Common Geophysical Validation Needs
 - 4.1.1. Pre-launch
 - 4.1.2. Phase E1
 - 4.1.3. Phase E2
 - 4.1.4. Phase F
 - 4.2. Inter-Mission Geophysical Validation Needs
 - 4.2.1. Pre-launch
 - 4.2.2. Phase E1
 - 4.2.3. Phase E2
 - 4.2.4. Phase F
 - 4.3. Development Needs for New Validation Infrastructure or Approaches

ANNEX A: Geophysical Validation

Infrastructure

A.1 Instrumentation

A.1.1 Airborne Instrumentation

A.1.2 Balloon-borne Instrumentation

A.1.3 Ground-based Instrumentation

A.1.4 Other Instrumentation

A.2 Infrastructures

A.2.1 Existing Airborne Networks

A.2.2 Existing Balloon-based Networks

A.2.3 Existing Ground-based Networks

A.2.4 Existing Sites

A.3 Campaigns

A.4 Other Cal/Val Infrastructures



- Review Lessons Learnt (Section 3)
- Review Geophysical Validation Needs (Section 4)
- Current doc specifies 'needs'. Include 'requirements'?
- Common set of Level 2 performance targets?
- Structure? (Common needs / Inter-mission / Development Needs, Phases)