

**Template for information regarding the Committee on Earth Observation
Satellites (CEOS) Working Group on Calibration and Validation (WGCV)
Infrared and Visible Optical Sensors (IVOS) Cal/Val sites**

1. Purpose of the Site

2. Core Site

- Need a conventional name.
- Location (City, State, Country)
- Altitude above sea level (meters)
- Centre Latitude/Longitude (degrees)
- Size/shape of usable area (meters) – indicate North direction and major and minor dimensions as appropriate
- Point Of Contact (POC): name, address, email, phone and fax

3. Description of Site

- Percent vegetated
- Percent water cover
- Vegetation types
 - Light scrub / heath
 - Grassland
 - Wood / forest
 - Mixed
- Soil type
 - Desert
 - Playa
 - Dunes
 - Salt flat
 - Snow field
 - Stony
- Water type
 - Ocean
 - Coastal
 - Lake
- Other types
 - Urban
 - Asphalt
 - Concrete

4. Picture(s) Including Surroundings

- Google (to be updated regularly if necessary)
- Digital topographic data screenshots (SRTM/GTOPO30)
- Moderate and high resolution data screenshots (Landsat/SPOT/DMC)

5. Current Status of the Site

- Instrumented
- Maintained
- Regularly visited (state frequency)
 - Human
 - Satellite
 - Aircraft
 - Automated
- Source of funding for maintenance
- Open access (to other teams)

6. Surface Measurements

- Meteorological instrumentation (list)
- Historical record of site from (year)
- Average number of days with clear skies
- Seasonal constraints

7. Data Policies (in-situ and/or satellite)

- Data availability
- Data format
- Data access
- POC
- Data tractability

8. Surface Characteristics – Surface Measurements

- Instrumentation description used by site “owner”
 - Route of traceability
 - Estimated uncertainty of reflectance/radiance at surface
 - Public reference / evidence / uncertainty breakdown
 - Estimated uncertainty of reflectance/radiance at TOA
 - Public reference / evidence / uncertainty breakdown
- Sampling strategy
- Surface reflectance – variability across site (uniformity) (%)
- Average site reflectance plot (calibration site)
 - At nadir
 - BRDF (or specific angles)
- Principal site reflectance plots (validation site)
 - At nadir
 - BRDF (or specific angles)
- Site stability (measurement variability)
 - Visit-to-visit
 - Long term
- Surface elevation and slope (angle and direction) - DEM
- Atmospheric stability (aerosol loading and water vapor content)
- Number and availability of well surveyed points

9. Site Usage

- Historical record of comparisons (ground, aircraft and satellite)
 - Dates / sensors / location of results
- Regularity of satellite data (if known)
 - Satellite and sensor ID

10. Auxiliary Data

- Landsat WRS2 Path/Row
 - NW Corner Latitude/Longitude (degrees)
 - NE Corner Latitude/Longitude (degrees)
 - SW Corner Latitude/Longitude (degrees)
 - SE Corner Latitude/Longitude (degrees)
- Polygon Vertices