

**Template for information regarding the prime Committee on Earth Observation Satellites (CEOS) Working Group on Calibration & Validation (WGCV) Cal/Val site**

- 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
  
- Description of the Site
  - Desert
  - Playa
  - Dunes
  - Salt flat
  - Snow field
  - Stony
  - Vegetated
    - Light scrub / heath
    - Grassland
    - Wood / forest
    - Mixed
  - Water
    - Ocean
    - Coastal
    - Lake
  - Other
  
- 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)
  
- 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)

- Surface Measurements
  - Meteorological instrumentation (list)
  - Historical record of site from (year)
  - Average number of days with clear skies
  - Seasonal variation
    - High
    - Medium
    - Low
  
- 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 slope (angle and direction)
  - Atmospheric stability (aerosol loading and water vapor content)
  - Number and availability of well surveyed points
  
- 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

#### **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)
- Mask (if relevant)