CLMS Product Filenaming - Filename Tree

Copernicus Land Monitoring Service - Technical Library

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1. CLMS Product Filenaming - Filename Tree

A visual navigation of all possible CLMS filename variants. Each level shows the options for that field. All structural variants are shown, but the lists of variables, tiles, dates & values are exemplary - not exhaustive.

```
CLMS_{CODE}-{VARIABLE}[-{SUBVARIABLE}]_{TEMPORAL}_{RES}_{EXTENT}_{EPSG}_{VERSION}-{REVISION}.ext
```

1.1 By Product Code

```
CLMS_
├── VLCC-                          Vegetated Land Cover Characteristics (upgraded HRL)
│   ├── GRA_{YYYY}0101P1Y_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│   ├── DLT_{YYYY}0101P1Y_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│   └── CTY_{YYYY}0101P1Y_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│
├── HRL-                           High Resolution Layers (legacy, not yet upgraded)
│   ├── TCD_{YYYY}0101P1Y_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│   ├── FTY_{YYYY}0101P1Y_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│   ├── IMD_{YYYY}0101P1Y_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│   ├── IBU_{YYYY}0101P1Y_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│   ├── WAW_{YYYY}0101P1Y_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│   ├── SWF_{YYYY}0101P1Y_R5m_E{XXX}N{YYY}_3035_V01-R00.tif
│   ├── TCD_C{YYYY}-{YYYY}_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│   └── IMD_C{YYYY}-{YYYY}_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│
├── NVLCC-                         Non-Vegetated Land Cover Characteristics
│   └── IMCCS_{YYYY}0101P1Y_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│
├── SLF-                           Small Landscape Features
│   └── SFW_{YYYY}0101P1Y_R5m_E{XXX}N{YYY}_3035_V01-R01.tif
│
├── WSI-                           Water & Snow/Ice
│   ├── SP-SCD_{YYYYMMDD}P1Y_R20m_T{ZZ}{GZD}{AA}_V01-R00.tif
│   ├── SWS-WSM_{YYYYMMDD}T{HHMMSS}_R60m_T{ZZ}{GZD}{AA}_S1B_V01-R00.tif
│   └── WDS-SSC_{YYYYMMDD}T{HHMMSS}_R60m_T{ZZ}{GZD}{AA}_S1B_V01-R00.tif
│
├── EUHYDRO-                       EU Hydro
│   └── NET_{YYYY}0101P1Y_R10m_EUROPE_3035_V02-R00.gpkg
│
├── UA-                            Urban Atlas
│   ├── LCU_{YYYY}0101P1Y_V025ha_{FUA}_3035_V01-R00.gpkg
│   └── LCU_C{YYYY}-{YYYY}_V025ha_{FUA}_3035_V01-R00.gpkg
│
├── CLCPLUS-                       CLC+ Raster
│   └── LCU_{YYYY}0101P1Y_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│
├── VPP2-                          Vegetation Phenology & Productivity v2
│   ├── ST-PPI_{YYYYMMDD}P10D_R10m_T{ZZ}{GZD}{AA}_V01-R00.tif
│   ├── VPP-SOSD-S1_{YYYYMMDD}P1Y_R10m_T{ZZ}{GZD}{AA}_V01-R00.tif
│   ├── GPP-TOTAL_{YYYYMMDD}P1Y_R10m_T{ZZ}{GZD}{AA}_V01-R00.tif
│   └── GPP-TOTAL-QFLAG_{YYYYMMDD}P1Y_R10m_T{ZZ}{GZD}{AA}_V01-R00.tif
│
├── CLC-                           Corine Land Cover
```

```
│   └── LCU_{YYYY}0101P1Y_V25ha_EUROPE_3035_V01-R00.gpkg
│
└── EGMS-                          European Ground Motion Service
    ├── L3-U_{YYYYMMDD}P{duration}_V100m_E{XXX}N{YYY}_3035_V01-R00.csv
    ├── L3-EW_{YYYYMMDD}P{duration}_R100m_E{XXX}N{YYY}_3035_V01-R00.tif
    ├── L2a-A_{YYYYMMDD}P{duration}_V20-5m_{Orbit}-{BurstID}-{SubSwath}_V01-R00.csv
    └── L2b-D_{YYYYMMDD}P{duration}_V20-5m_{Orbit}-{BurstID}-{SubSwath}_V01-R00.csv
```

1.2 By Temporal Situation

```
{TEMPORAL}_
├── {YYYYMMDD}T{HHMMSS}_           Sensing instant    (single acquisition)
│   └── e.g. 20210217T053159_
│
├── {YYYYMMDD}P{duration}_        Period             (start date plus ISO 8601 duration)
│   ├── 20240101P10D_             dekadal composite
│   ├── 20240101P1M_              monthly composite
│   ├── 20240101P1Y_              annual period
│   ├── 20210101P1Y_              status year
│   └── 20190101P5Y_              multi-year series
│
└── C{YYYY}-{YYYY}_                Change             (change between two reference years)
    └── C2018-2021_                3-year change
```

1.3 By Resolution

```
{RES}_
├── R{value}[unit]_                    Raster (pixel spacing)
│   ├── R1m
│   ├── R5m
│   ├── R10m
│   ├── R20m
│   ├── R60m
│   ├── R100m
│   ├── R300m
│   ├── R1km
│   └── R20-5m                         irregular grid
│
└── V{value}[unit]_                   Vector MMU / point grid
    ├── V025ha                         vector MMU 0.25ha
    ├── V25ha                          vector MMU 25ha
    ├── V100m                          point grid (regular)
    └── V20-5m                         point grid (irregular)
```

1.4 By Spatial Extent

```
{EXTENT}_
├── T{ZZ}{GZD}{AA}_                MGRS               (S2 raster tile)
│   └── T33UVS_
│
├── E{XXX}N{YYY}_                  LAEA 100km         (pan-European grid)
│   └── E27N48_
```

```
│
├── {Orbit}-{BurstID}-{SubSwath}_  IW burst          (Sentinel-1 swath)
│   └── 054-0154-IW1_
│
├── {NNN}{CC}C{L}_                 FUA code          (Functional Urban Area)
│   └── DK004L3_
│
├── {CC}_                          Country code      (nation-level vector)
│   ├── DE_
│   └── IT_
│
├── DU{NNN}_                       Delivery Unit     (large-area tiling)
│   └── DU001_
│
├── EUROPE_                        Continental       (entire European continent)
│
├── NORTHERNHEMISPHERE_            Hemispherical     (Northern Hemisphere)
│
├── SOUTHERNHEMISPHERE_            Hemispherical     (Southern Hemisphere)
│
└── GLOBAL_                        Global            (full Earth coverage)
```

1.5 By Variable (Sub-product)

The variable is hyphen-appended to the product code at position 2: `CLMS_{CODE}-{VARIABLE}[-{SUBVARIABLE}]_…`

```
{CODE}-{VARIABLE}_
├── {PARAM}                        Single token      (VLCC, NVLCC, SLF, HRL)
│   ├── GRA, DLT, CTY              (VLCC)
│   ├── IMCCS, SBCC, SFW, CM       (NVLCC, SLF)
│   ├── TCD, FTY, IMD, IBU, WAW    (HRL - 10m)
│   └── SWF                        (HRL - 5m)
│
├── {SUB}-{PARAM}                  Two-level         (WSI, VPP2)
│   ├── SP-SCD
│   ├── SWS-WSM, WDS-SSC
│   └── ST-PPI, VPP-SOSD, GPP-TOTAL
│
├── {SUB}-{PARAM}-{SEASON}         With season       (VPP2)
│   ├── VPP-SOSD-S1
│   └── GPP-SEASONAL-S1
│
├── {SUB}[-{PARAM}]-QFLAG          Quality flag      (all products)
│   ├── ST-PPI-QFLAG               (leaf-level)
│   ├── VPP-SOSD-QFLAG             (product-level)
│   └── VPP-QFLAG                  (family-level)
│
├── LCU                            Land Cover Land Use status/change   (UA, CLC, CLCPLUS, RZ, …)
│
├── L3-U, L3-EW                    EGMS velocity components (EGMS Ortho - L3)
│
├── L2a-A, L2a-D, L2b-A, L2b-D     Orbit (EGMS Calibrated - L2)
│
└── NET, DIR, SUB                  EU Hydro           (EUHYDRO)
```

1.6 Full Example Walkthrough

```
CLMS_
      ├── WSI-SP-SCD_                  Water & Snow/Ice - Snow Cover Duration
      │   └── 20240101P1Y_            annual period
      │       └── R20m_                raster 20m
      │           └── T38TKL_          MGRS tile
      │               └── 3035_        EPSG 3035
      │                   └── V01-R00.tif  version 1, revision 0
      │
      └── EGMS-L2a-A_                  European Ground Motion - L2a ascending
          └── 20190101P5Y_            5-year period
              └── R20-5m_              irregular grid 20x5m
                  └── 054-0154-IW1_    IW burst
                      └── V01-R00.tif  version 1, revision 0
```

Tree version: draft. Each branch represents a valid structural variant of the CLMS filename convention. See CLMS_Filenaming_Design_Principles.md for the full rules.

2. Change Log

Date	Version	Summary
2026-11-10	1.2.0	• Updated document date in frontmatter. • Revised the filename tree to incorporate the new 'Period' temporal format, removing `S`, `A`, and `T` prefixes from temporal fields. • Restructured the 'By Temporal Situation' section to reflect the consolidated 'Period' format for aggregated data, status years, and timeseries. • Added `NET, DIR, SUB` codes for EU Hydro products in the 'By Variable Code' section. • Updated examples in the 'Full Example Walkthrough' to conform to the new temporal field conventions.
2026-10-29	1.1.0	Initial publication of the 'CLMS Product Filenaming - Filename Tree' document, offering a visual and structured navigation of CLMS filename variants by product code, temporal situation, resolution, spatial extent, and variable.