

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_S_{YYYY}_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│   ├── DLT_S_{YYYY}_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│   └── CTY_S_{YYYY}_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
├── HRL-                               High Resolution Layers (legacy, not yet upgraded)
│   ├── TCD_S_{YYYY}_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│   ├── FTY_S_{YYYY}_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│   ├── IMD_S_{YYYY}_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│   ├── IBU_S_{YYYY}_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│   ├── WAW_S_{YYYY}_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
│   ├── SWF_S_{YYYY}_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_S_{YYYY}_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
├── SLF-                               Small Landscape Features
│   └── SFW_S_{YYYY}_R5m_E{XXX}N{YYY}_3035_V01-R01.tif
├── WSI-                               Water & Snow/Ice
│   ├── SP-SCD_A_{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_S_{YYYY}_R10m_EUROPE_3035_V02-R00.gpkg
├── UA-                               Urban Atlas
│   ├── LCU_S_{YYYY}_V025ha_{FUA}_3035_V01-R00.gpkg
│   └── LCU_C_{YYYY}-{YYYY}_V025ha_{FUA}_3035_V01-R00.gpkg
├── CLCPLUS-                           CLC+ Raster
│   └── LCU_S_{YYYY}_R10m_E{XXX}N{YYY}_3035_V01-R00.tif
├── VPP2-                             Vegetation Phenology & Productivity v2
│   ├── ST-PPI_A_{YYYYMMDD}P10D_R10m_T{ZZ}{GZD}{AA}_V01-R00.tif
│   ├── VPP-SOSD-S1_A_{YYYYMMDD}P1Y_R10m_T{ZZ}{GZD}{AA}_V01-R00.tif
│   ├── GPP-TOTAL_A_{YYYYMMDD}P1Y_R10m_T{ZZ}{GZD}{AA}_V01-R00.tif
│   └── GPP-TOTAL-QFLAG_A_{YYYYMMDD}P1Y_R10m_T{ZZ}{GZD}{AA}_V01-R00.tif
└── CLC-                               Corine Land Cover
```

```
└─ LCU_S{YYYY}_V25ha_EUROPE_3035_V01-R00.gpkg
└─ EGMS-                               European Ground Motion Service
    └─ L3-U_T{YYYYMMDD}P{duration}_V100m_E{XXX}N{YYY}_3035_V01-R00.csv
    └─ L3-EW_T{YYYYMMDD}P{duration}_R100m_E{XXX}N{YYY}_3035_V01-R00.tif
    └─ L2a-A_T{YYYYMMDD}P{duration}_V20-5m_{Orbit}-{BurstID}-{SubSwath}_V01-R00.csv
    └─ L2b-D_T{YYYYMMDD}P{duration}_V20-5m_{Orbit}-{BurstID}-{SubSwath}_V01-R00.csv
```

1.2 By Temporal Situation

{TEMPORAL}_		
└─ {YYYYMMDD}T{HHMMSS}_	Sensing instant	(satellite scene)
└─ e.g. 20210217T053159_		
└─ A{YYYYMMDD}P{duration}_	Aggregated	(sub-annual composite)
└─ A20240101P10D_	dekadal	
└─ A20240101P1M_	monthly	
└─ A20240101P1Y_	annual NRT	
└─ S{YYYY}_	Status	(single reference year)
└─ S2021_		
└─ C{YYYY}-{YYYY}_	Change	(change between two Status years)
└─ C2018-2021_	3-year change	
└─ T{YYYYMMDD}P{duration}_	Timeseries	(multi-year aggregate)
└─ T20190101P5Y_	5-year timeseries	

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{YYYY}_	LAEA 100km	(pan-European grid)
└─ E27N48_		
└─ {Orbit}-{BurstID}-{SubSwath}_	IW burst	(EGMS InSAR 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 grid	(EGMS L3)

└ L2a-A, L2a-D, L2b-A, L2b-D	EGMS calibrated	(EGMS L2)
└ NET, DIR, SUB	EU Hydro	(EUHYDR0)

1.6 Full Example Walkthrough

```
CLMS_
├ WSI-SP-SCD_           Water & Snow/Ice - Snow Cover Duration
│   └ A20240101P1Y_     annual composite
│       └ R20m_         raster 20m
│           └ T38TKL_    MGRS tile
│               └ 3035_   EPSG 3035
│                   └ V01-R00.tif version 1, revision 0
├ EGMS-L2a-A_           European Ground Motion - L2a ascending
│   └ T20190101P5Y_     5-year timeseries
│       └ 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.