# Long Product Filenames

- Inspired by RINEX 3 filenames

- Proper distinction of legacy and MGEX products of the different product lines (ultra, rapid, final)

- Already used for MGEX

- Draft version prepared by Nacho Romero sent to WG chairs and ACs

- File name contains information about:

  - Analysis center

  - Product version

  - Campaign/project (e.g., repro3)

  - Solution type

  - Coverage period, sampling

  - Content type and file format

# File Naming Scheme

**AAAVPPPTTT_YYYYDDDHHMM_LEN_SMP_CNT.FMT[.gz]**

| | |
|---|---|
| **AAA** | 3 characters analysis center/combination abbreviation (e.g., COD) |
| **V** | 1 character version/solution identifier (0-9) |
| **PPP** | 3 characters campaign/project specification (e.g., RP3) |
| **TTT** | 3 characters solution type identifier (e.g., FIN) |
| **YYYYDDDHHMM** | 11 digits product nominal start epoch |
| **LEN** | 3 characters intended (nominal) product period (e.g., 01D) |
| **SMP** | 3 characters temporal sampling resolution (e.g. 15M , 000 if not applicable) |
| **CNT** | 3 characters content type (e.g., ORB) |
| **FMT** | 3 characters file format (e.g., SP3) |
| **.gz** | Compression method extension; gzip |

# Long Product Filenames: Examples

## `COD0RP3FIN_20173360000_01D_05M_ORB.SP3`

- CODE final repro3 solution
- 1-day SP3 orbit file for one day, 336/2017 with 5 minute sampling

## `SHA0MGXRAP_20182700000_01D_05M_CLK.CLK.gz`

- SHAO rapid MGEX solution
- 1-day RINEX clock file for one day, 270/2018 with 5 minute sampling, gzip compressed

# Long Product Filenames: Earth Rotation Parameters

**IGS0RP3<span style="color:red">FIN</span>_20190970000_07D_01D_ERP.ERP**

- IGS final ERPs from orbit combination of repro3

**IGS0RP3<span style="color:red">SNX</span>_20190970000_07D_01D_ERP.ERP**

- IGS final ERPs from SINEX combination of repro3

# Long Product Filenames: IGS Reference Frame Products/Summary Files

Additional content types (already included in proposal):

- `CRA`  Station coordinates/velocities for all stations

- `CRR`  Reduced set of station coordinates

- `RES`  Residuals w.r.t. daily combination

- `REI`  Residuals w.r.t. current IGS RF

- `REC`  Residuals w.r.t. cumulative IGS solution

Additional file type (not yet included in proposal)

- `SUM`  Summary file in free ASCII format

# Long Product Filenames: Long-term Files

- Cumulative solutions do not fit into proposed file naming scheme
- **Proposal**: time window with start/end DoY + year instead of start date + length **only for long-term files**

`IGS0RP3FIN_`**`1994001_2020366`**`_000_CRA.SNX.gz`

- Combined final IGS repro3 cumulative solution 1/1994 – 366/2020
- Coordinates of all stations in SINEX format
- Also applicable for other long-term solutions, e.g., monthly biases since 1994

# Long Product Filenames: Summary of Discussion

- Daily ERP files should be implemented together with transition to long file names (ACC)

- Replace SMP "not applicable 000" by "unspecified 00U" like in RINEX 3

- Content type "ATT" for attitude information

- Extension "OBX" for ORBEX

- The longest possible unit should be used for specifying the length and the sampling, e.g., 01D instead of 24H

- Antenna Working Group will decide on naming of ANTEX file

- Add "nominal" to the start epoch (e.g., first epoch of a clock file is missing)

- Explicitly mention that filenames must be uppercase

- Change repro identifier to Rnn, e.g., R03 (?)

- Use long filenames for all repro3 activities including test solutions

- Introduce long filenames for operational products when switching to repro3 standards in operational processing