

Description of the GNSS time series provided as a result of the monitoring of Cornegliano Stoccaggio by OGS

Publication year: 2023

Temporal coverage: 2015-08-30 / 2021-12-31

Description of the directories in the main folder GNSS_TimeSeries:

OL01	rinex and raw data of OL01 station, named LODI in the repository.
EURA	coordinate time series in Eurasia fixed reference frame (Altamimi et al., 2012). The files also contain the estimated velocities and discontinuities.
ITRF08	coordinate time series in ITRF08 (Altamimi et al., 2012). The files also contain the estimated velocities and discontinuities.
Res	Residuals of the north, east, and vertical (positive upward) time series of the GNSS stations included in the analysis. Residuals were obtained by subtracting the trend from each reference station time series (calculated in the ITRF system). The relative displacement of station OL01 (purple dots in the foreground) was determined by subtracting the average trend of the four reference stations from the absolute measurement. To highlight the movement of OL01 with respect to the reference frame, the mean value of OL01 calculated from January 2017 to June 2019 (i.e., until the data break in the graph) was set to zero. MILA time series combined time series of MILA and MIL2 stations.

The **folder tree** is represented below:

GNSS_TimeSeries

```
├── EURA
│   ├── RATE.CREA.ogs.orbit.res
│   ├── RATE.CREM.ogs.orbit.res
│   ├── RATE.MIL2.ogs.orbit.res
│   ├── RATE.MILA.ogs.orbit.res
│   ├── RATE.OL01.ogs.orbit.res
│   └── RATE.PAVI.ogs.orbit.res
├── ITRF08
│   ├── RATE.CREA.ogs.orbit.res
│   ├── RATE.CREM.ogs.orbit.res
│   ├── RATE.MIL2.ogs.orbit.res
│   ├── RATE.MILA.ogs.orbit.res
│   ├── RATE.OL01.ogs.orbit.res
│   └── RATE.PAVI.ogs.orbit.res
├── OL01
├── README.pdf
└── Res
    ├── CREA.res
    ├── CREM.res
    ├── MEAN.res
    ├── MILA.res
    ├── OL01.res
    └── PAVI.res
```