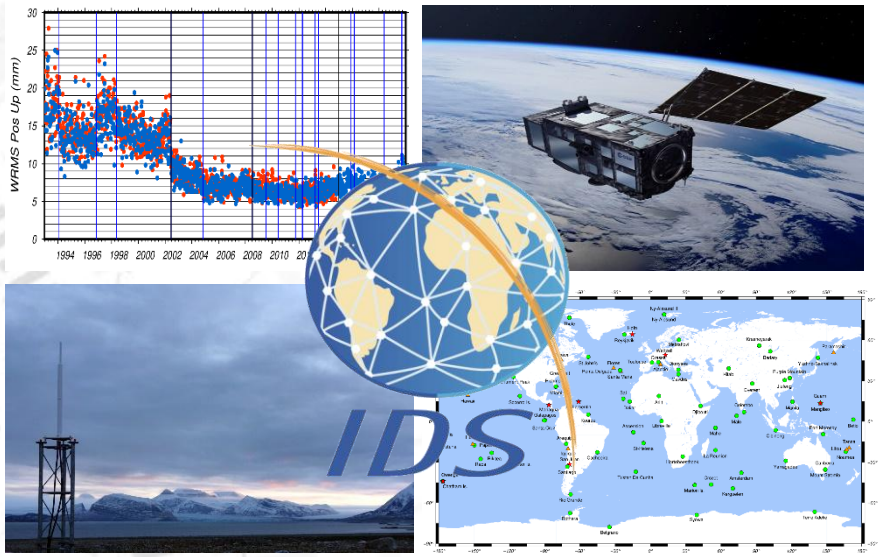
# DPOD2020 Version 7.0

***Guilhem Moreaux***
Collecte Localisation Satellites

2026/10/26



# DPOD2020 Version 7.0

- **Is based on the DORIS position and velocity cumulative solution ids26d02**

  **(stacking of the IDS combined series ids 19/28 from 1993 doy 003 to 2026 doy 179). More details on that cumulative solution can be found on https://ids-doris.org/user-corner/combination/cumulative-solution.html**

- **As versions 5.0 and 6.0, this new release includes:**
  - **Annual and semi-annual corrections.**
  - **Periodic terms are only estimated for sites with observations after mid-2002.**
  - **Post-Seismic Deformation corrections from DORIS observations only.**
    **Concerns only SODA (Socorro Island) and GONC (Goldstone) stations.**

- **New: Post-Seismic Deformation corrections for DJIB (Djibouti – see slide 8).**

- **Is available in SINEX and text formats.**

- **SINEX solution contains two additional (and unofficial) blocks:**
  - **SOLUTION/DISCONTINUITY: origin (ex: earthquake, beacon change, antenna problem…) of the position discontinuities.**
  - **SOLUTION/DATA_REJECT: periods of time not included in the combination.**

- **To facilitate the identification of stations which were active mid-2026, for these stations, their ending time in the SOLUTION/EPOCHS were set to 49:365:86399.**

# DPOD2020 Version 7.0

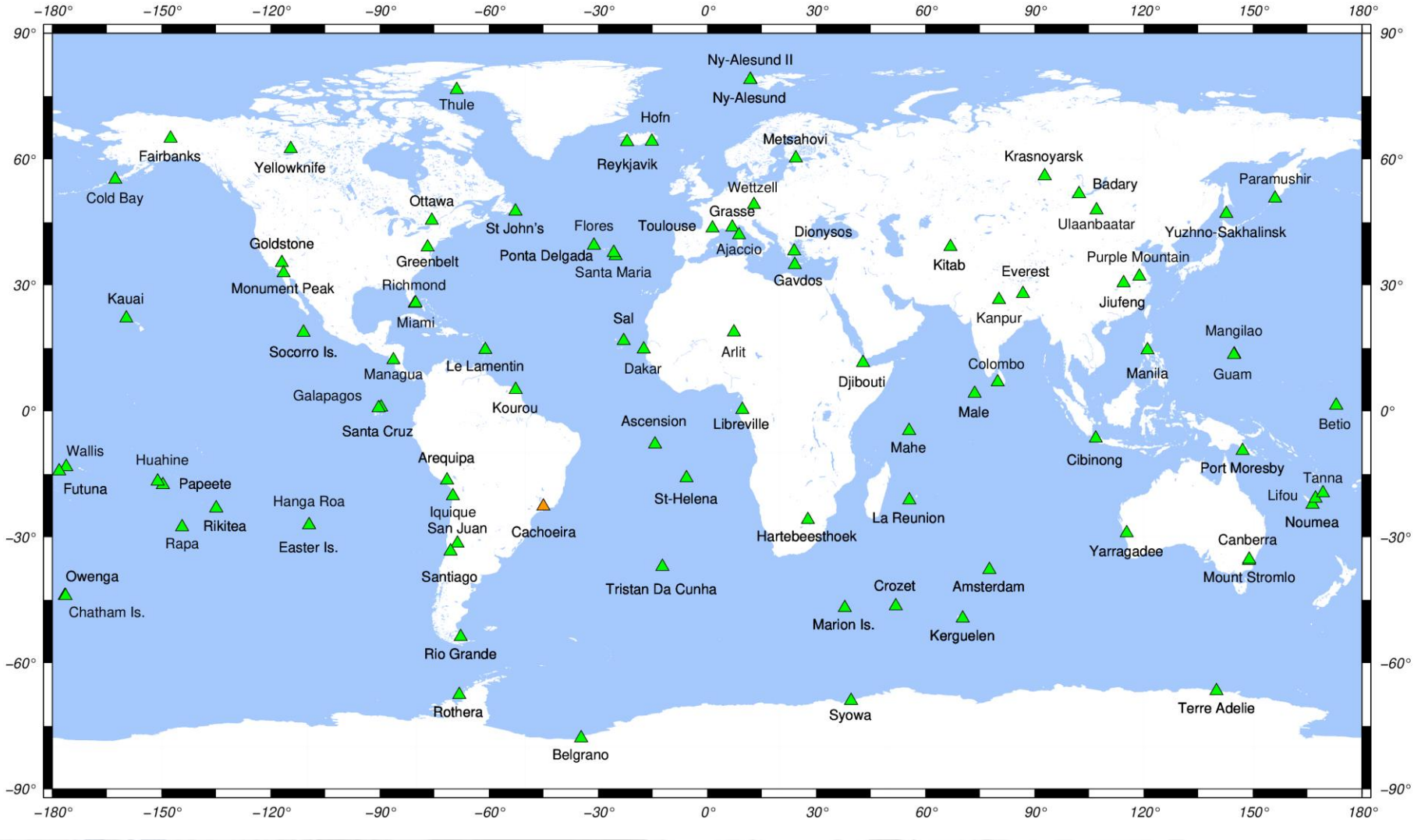
| | Version 6.0 | Version 7.0 |
|---|---|---|
| Observations time span | 1993.0-2026.0 | 1993.0-2026.5 |
| Nb of stations | 228 | 229 |
| Nb of sites | 91 | 91 |
| **Discontinuities** | | |
| Overall number | 140 | 140 |
| Nb of affected sites | 51 | 51 |
| Nb of affected stations | 69 | 69 |
| With geophysical origin | 63 | 64 |
| With technical origin | 26 | 25 |
| With unknown origin | 51 | 51 |

**One new station: CADC (Cachoeira).**

# DORIS Station Network

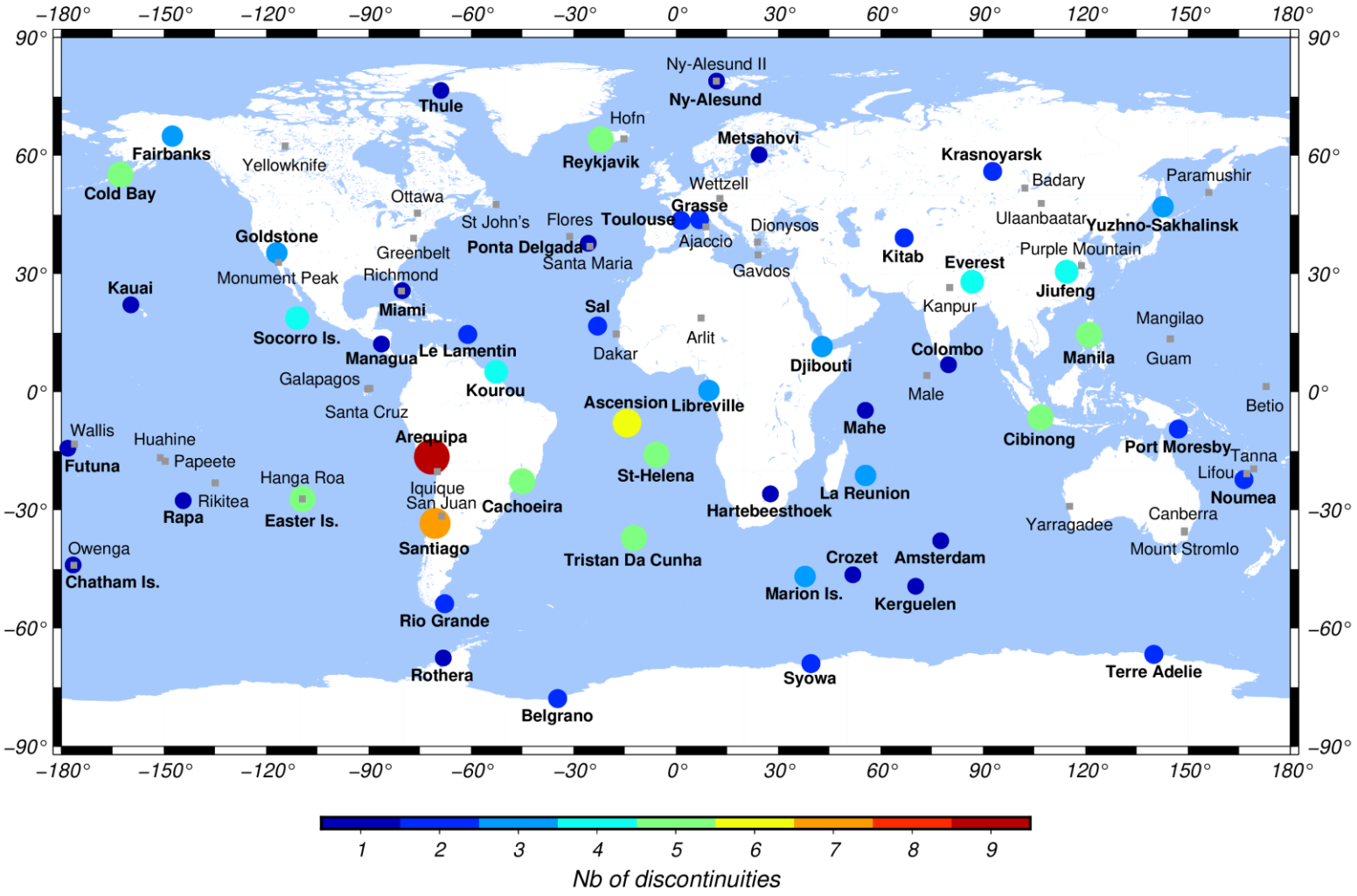
**91 DORIS sites – 229 DORIS stations**

**Compared to DPOD2020 v6.0: one new station - CADC (Cachoeira).**



# Site Discontinuities

Number of discontinuities by DORIS site. Sites with discontinuities are in boldface.
Sites with no discontinuity are indicated with grey squares.



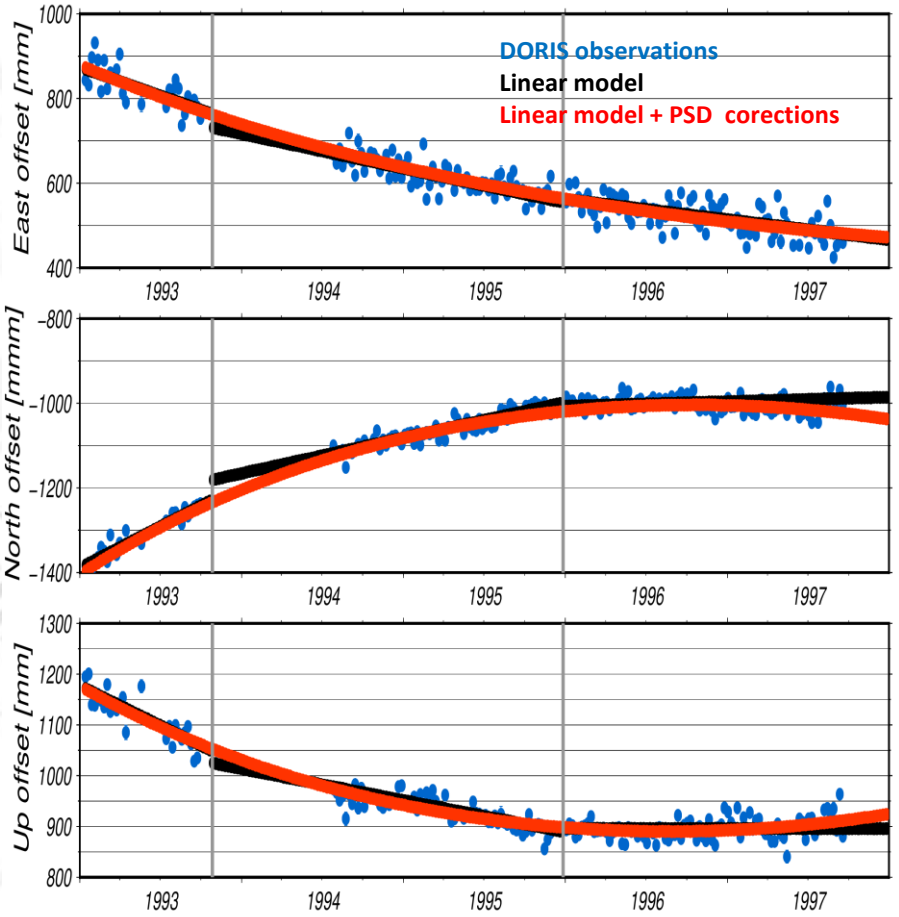
# Post-Seismic Deformation Corrections

## SODA – Socorro Island




**DORIS is at Socorro since 1991/02/08.**
**Host agency: INEGI & Armada de Mexico.**
**Tide gauge (Gloss nb 162) @ 370m.**
**No GNSS, no SLR, no VLBI.**

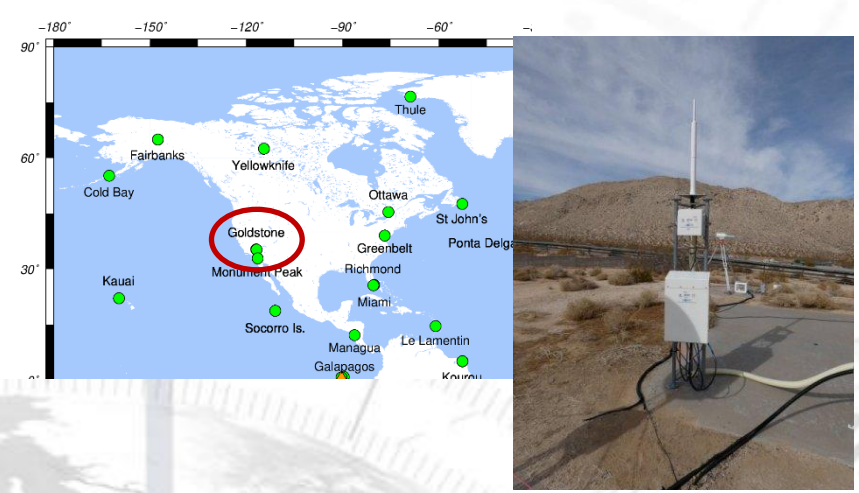
**Submarine eruption on 1993/01/29 @ 4km.**



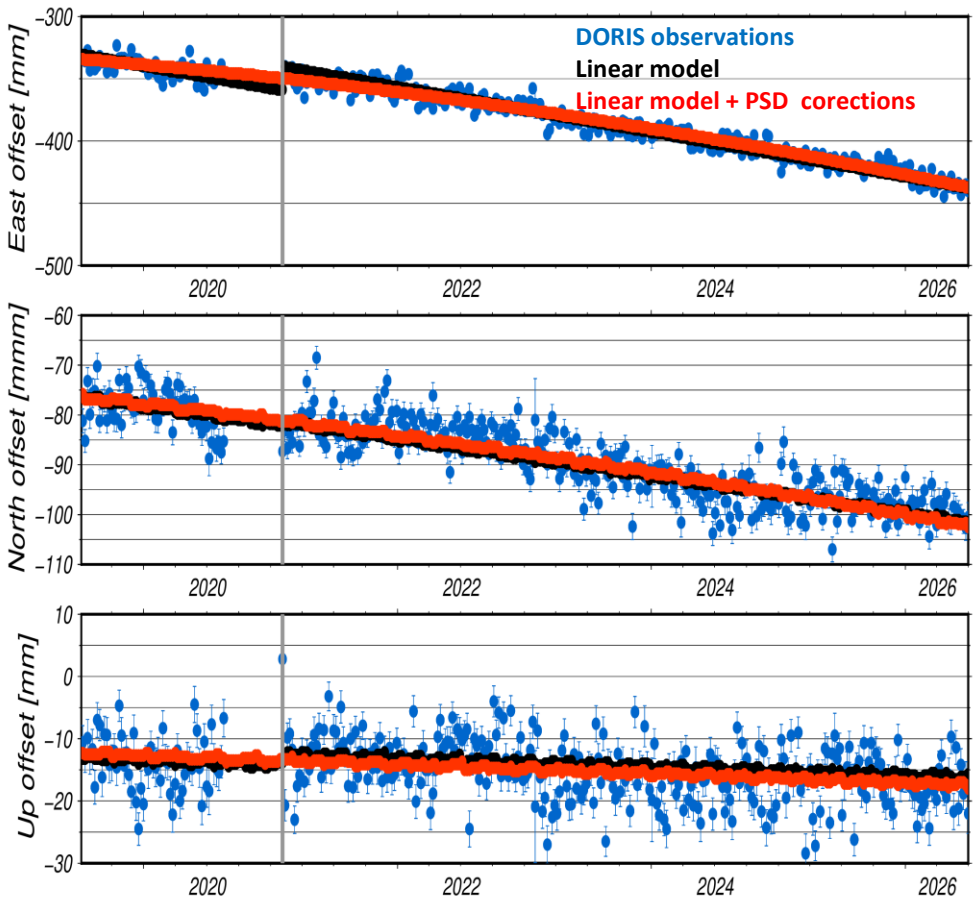

**PSD weekly corrections from 1993/01/13 to 1998/05/13.**
***PSD corrections are given in ASCII text file dpod2020_070_psd_corr.txt.***

# Post-Seismic Deformation Corrections

## GONC – Goldstone





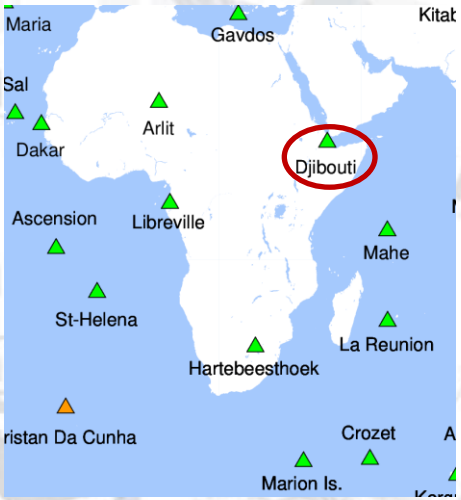

**DORIS is at Socorro since 1988/01/21.**
**Host agency: NASA.**
**No colocation.**

**M7.1 Earthquake on 2019/07/06 @ 93km.**

**PSD weekly corrections from 2019/07/10 to 2027/12/29.**
***PSD corrections are given in ASCII text file dpod2020_070_psd_corr.txt.***

# Post-Seismic Deformation Corrections

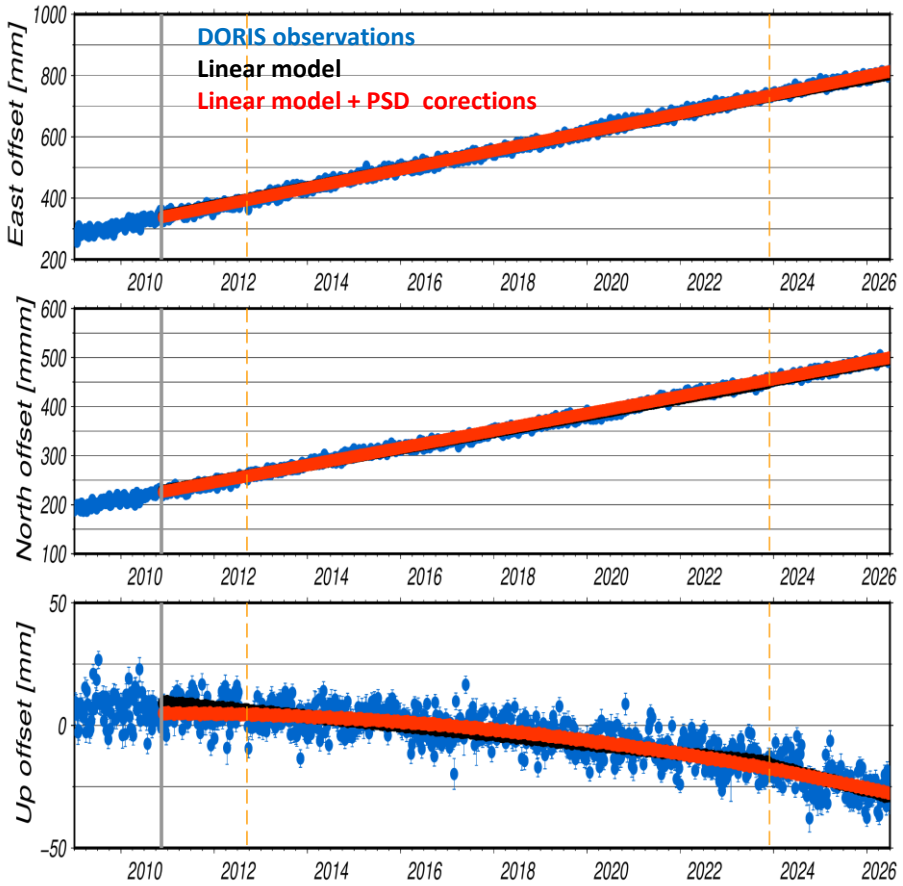
## DJIB – Djibouti






**DORIS is at Djibouti since 1987/03/10.**
**Host agency: Observatoire Géophysique d'Arta (CERD).**
**Colocation with GNSS receiver (DJIG).**

**M5.5 Earthquake on 2010/11/14 @ 101km.**




**PSD weekly corrections from 2019/07/10 to 2027/12/29.**
***PSD corrections are given in ASCII text file dpod2020_070_psd_corr.txt.***