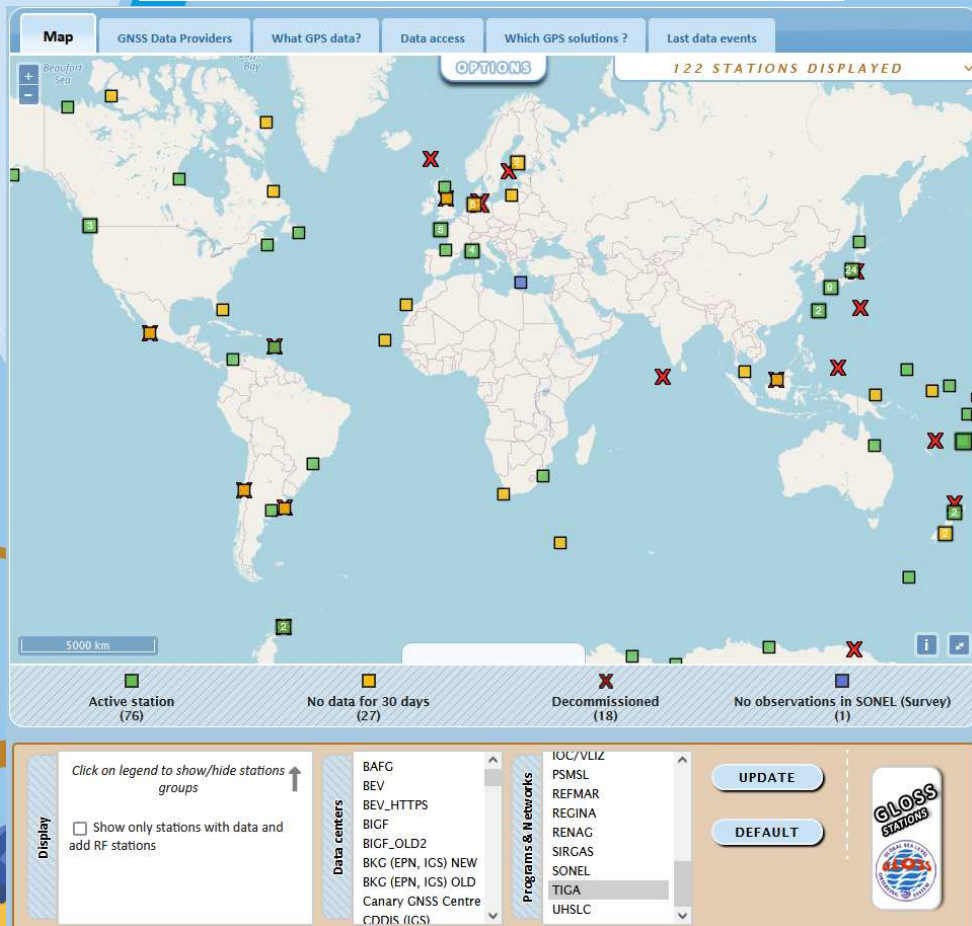


TIGA Network Coordinator report

Elizabeth PROUTEAU
- SONEL -
LIENSs - UMR CNRS ULR 7266

TIGA network status

GNSS@TG stations committed to TIGA



SONEL GNSS@TG network

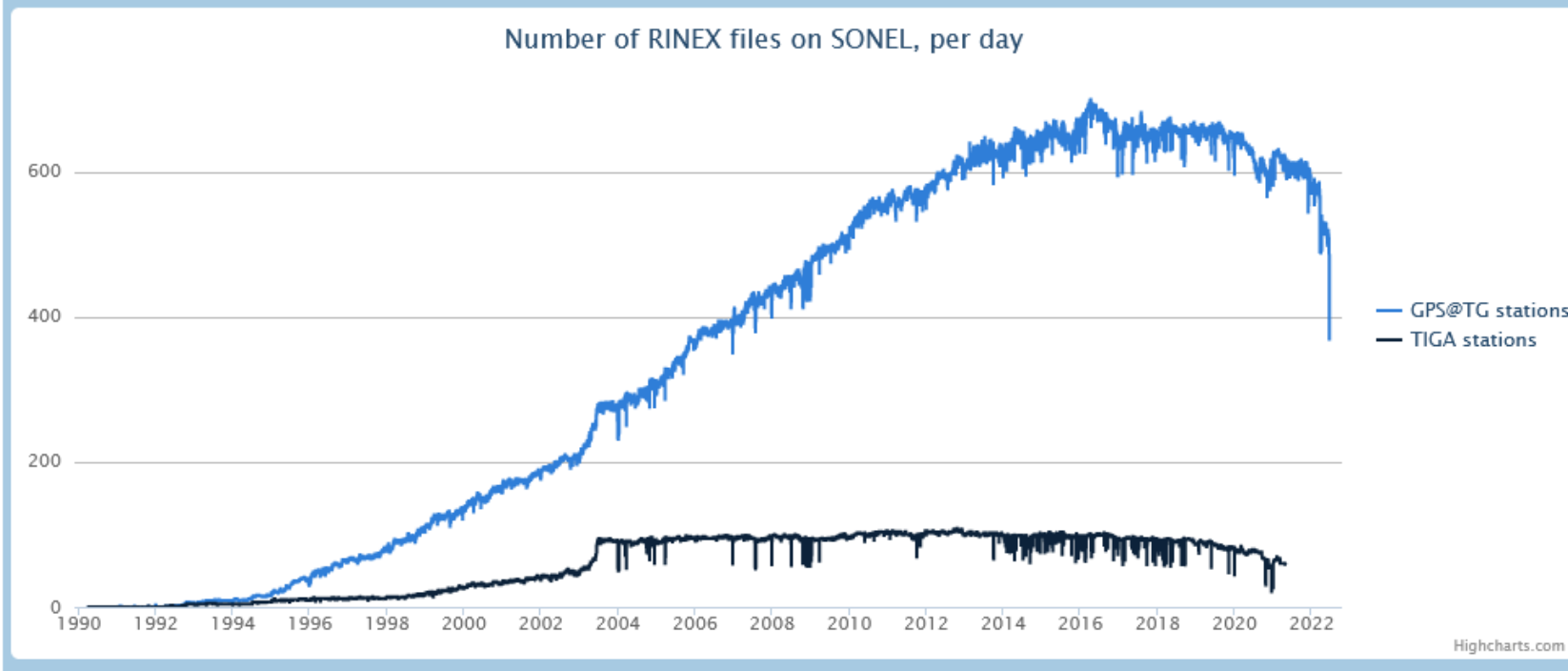


TIGA network status

Number of RINEX files for TIGA and GNSS@TG stations

Number of RINEX files

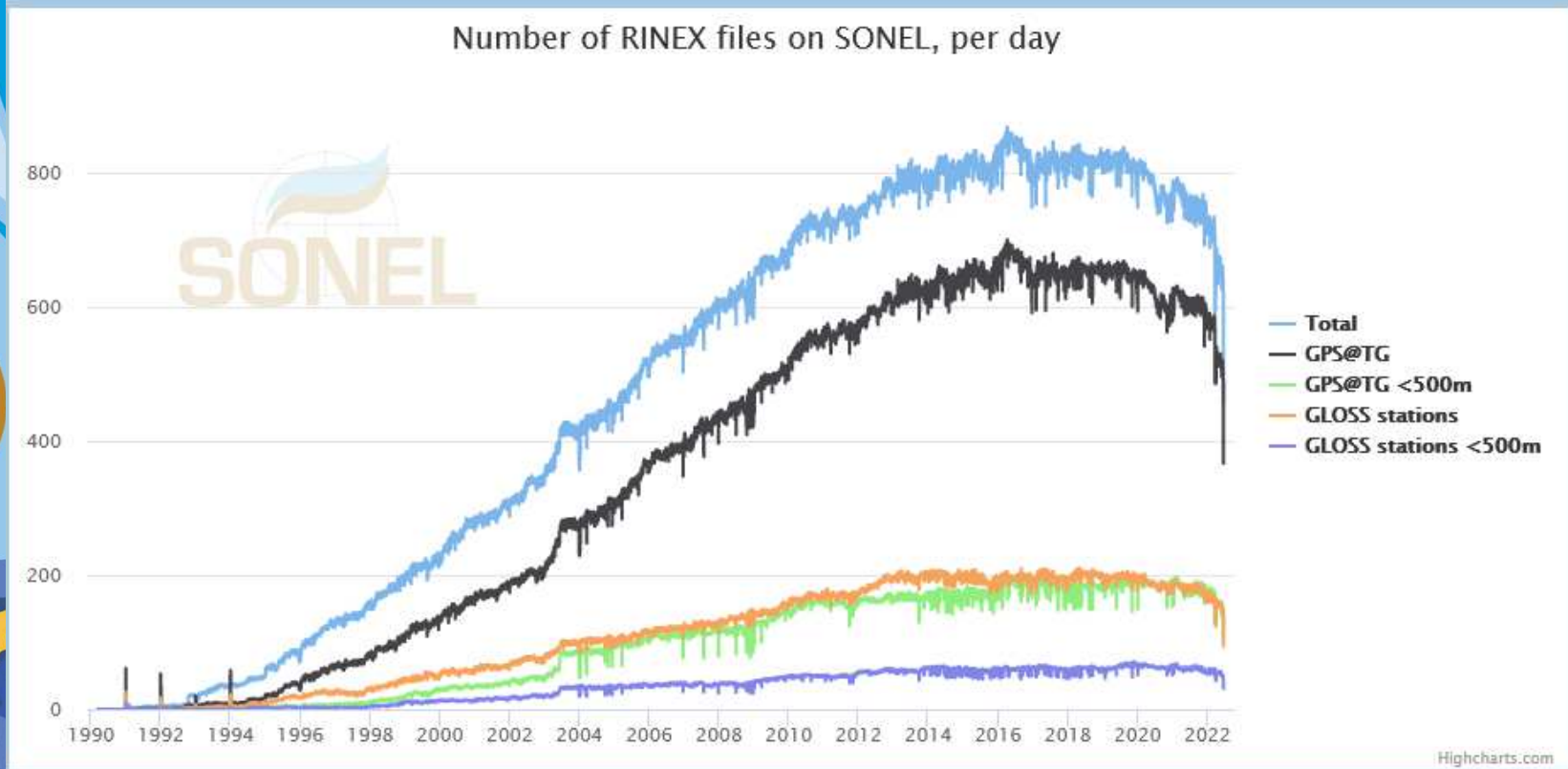
This graph shows the evolution of the number of Rinex files available on SONEL (per DOY) since 1990-079 for GPS@TG and TIGA stations



SONEL data holdings

Number of RINEX files for GNSS near tide gauge stations

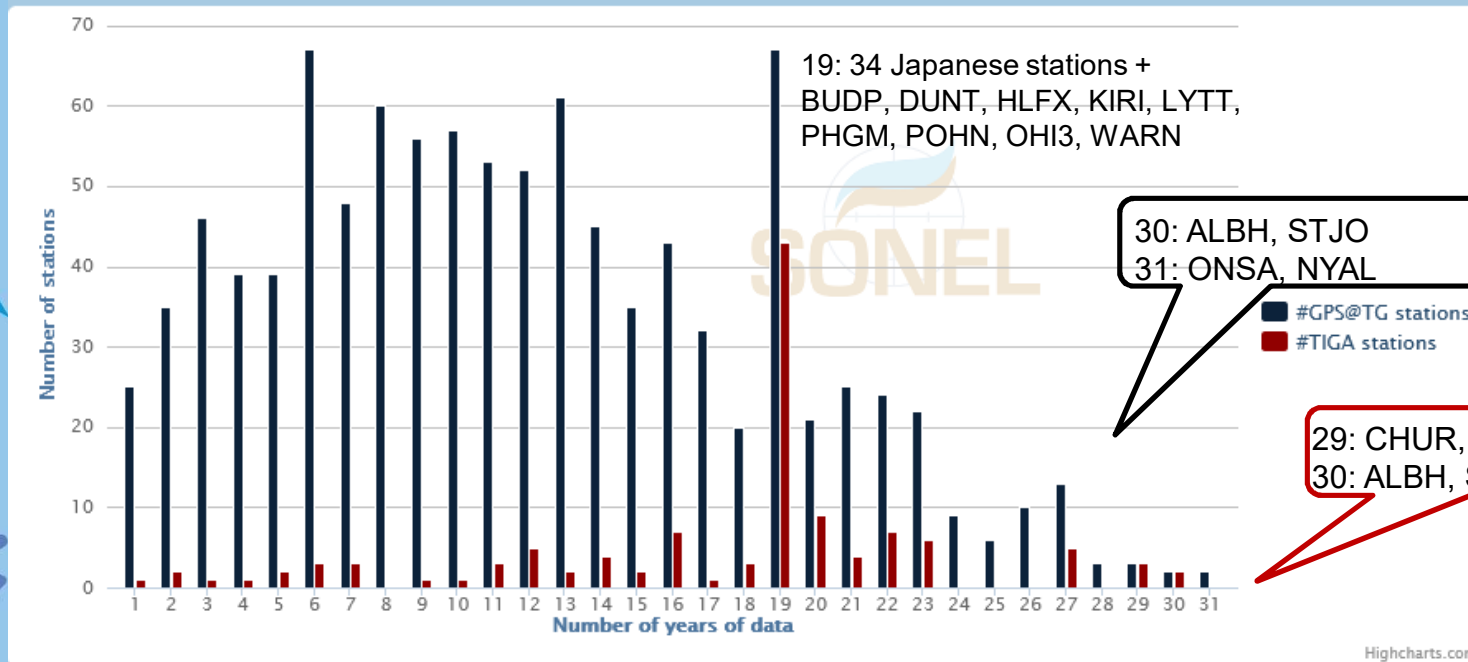
Evolution of the number of Rinex files available on SONEL (per DOY) since 1991-079



TIGA network status

Time series lengths for TIGA and GNSS@TG stations

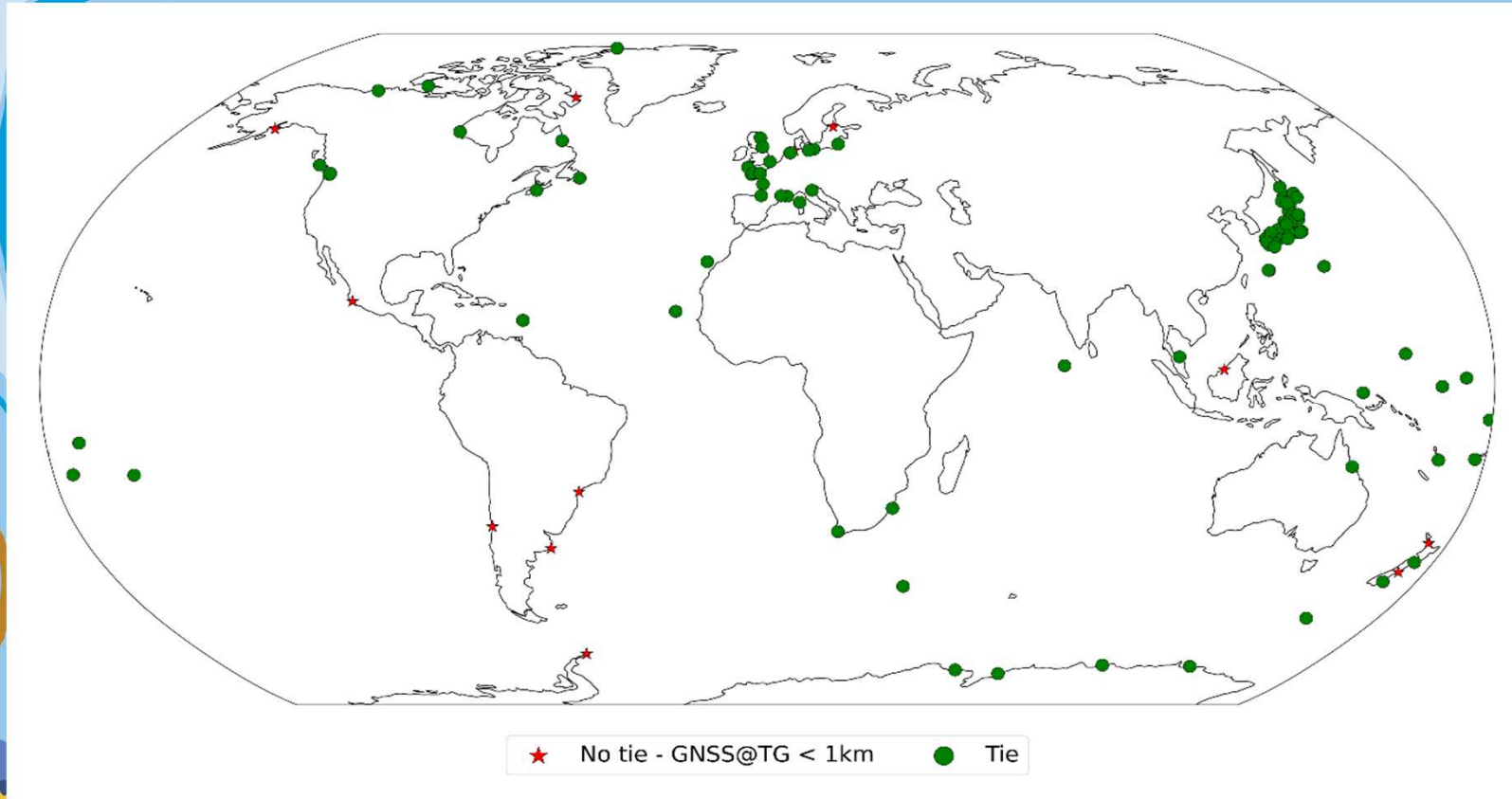
Number of stations whose record length reaches x (years) value.



Highcharts.com

TIGA network status

Levelling status for TIGA stations



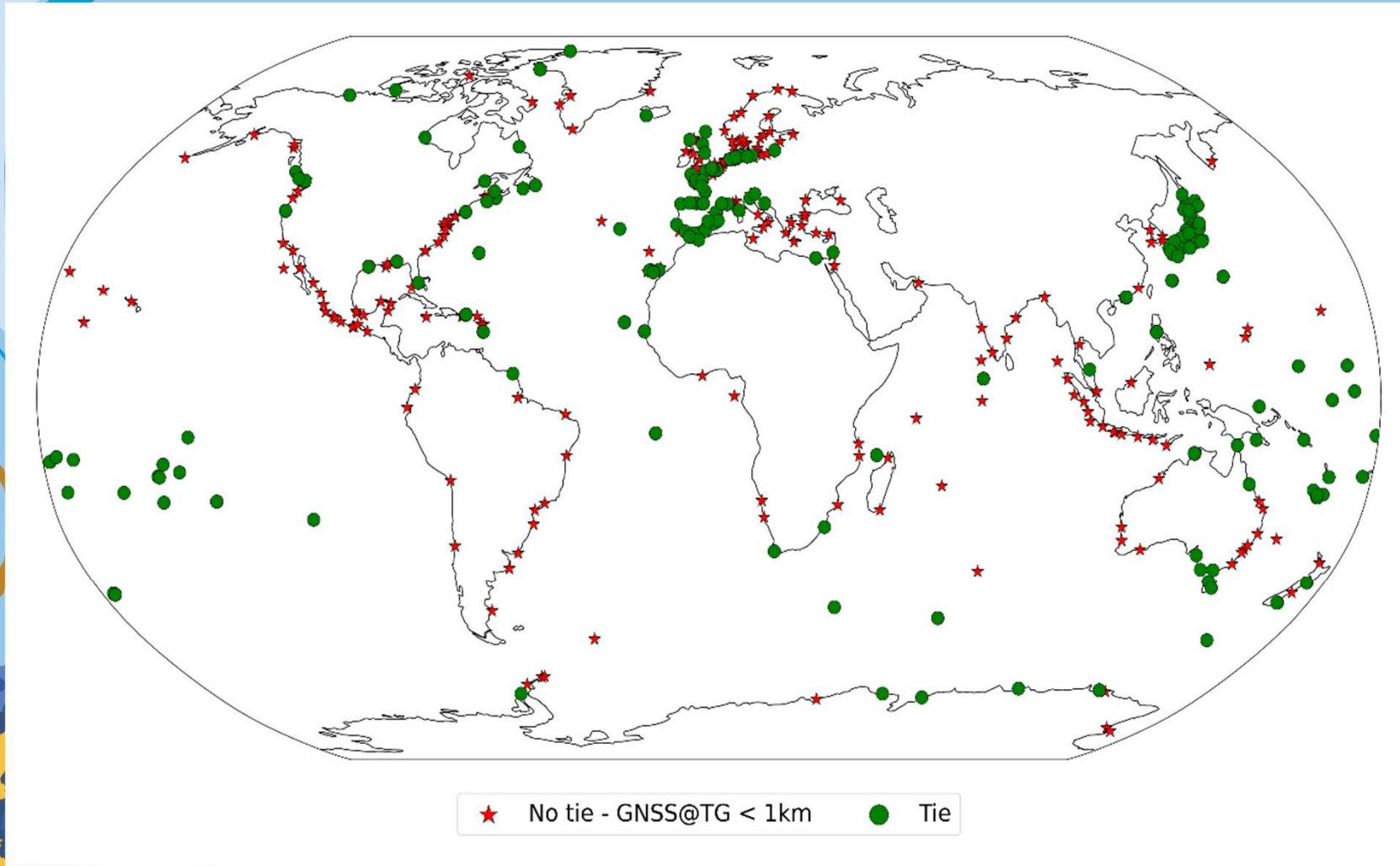
94 TIGA stations with leveling information in SONEL



18 TIGA stations GNSS@TG < 1km without any leveling information in SONEL

SONEL data holdings

Levelling status for GNSS@TG stations on SONEL



★ No tie - GNSS@TG < 1km ● Tie



275 GNSS@TG stations with leveling information in SONEL

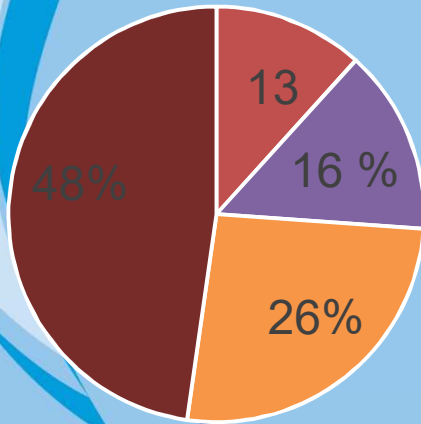


269 Tide gauges without any known geodetic connection (GNSS-TG ≤ 1000 m)

TIGA network status

Time series filling ratio for TIGA and GNSS@TG stations

TIGA stations

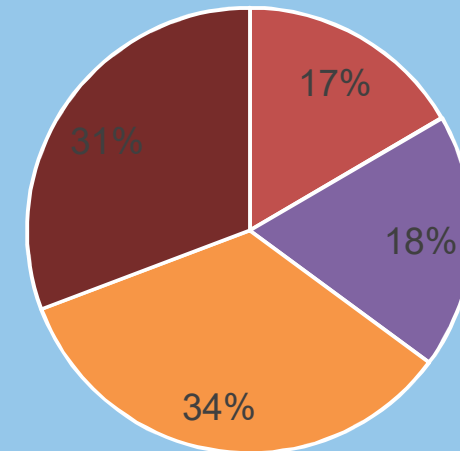


- Filling ratio < 50%
- 50 % <= Filling ratio < 80 %
- 80 % <= Filling ratio < 95 %
- Filling ratio >= 95 %

48 % of the TIGA stations have a filling ratio of the observations completeness $\geq 95\%$.

31 % for GPS@TG stations on SONEL.

GPS@TG stations on SONEL



BORK@BORKUM:

- Filling ratio = 99,46%
- % good data = 100%

92% of TIGA station have more than 95% of good data.

TIGA network status

Identified problems with TIGA stations:
stations with filling ratio < 80%

ACRONYM	Filling ratio	Start date	Date of last data	Comments
FREE	8%	07/06/1999	21/10/2001	BHMA nearby, but few data
TGCV	14%	29/04/2000	02/12/2014	CPVG-> TG=5km, green (TGCV->TG=5m)
MNZO	18%	04/11/2001	12/02/2014	MZNC-TG=0,4km, manual collect
SIMO	27%	01/01/2001	28/01/2022	RINEX3 only since 2017-110
KLPD	26%	07/12/2004	04/11/2012	No information since the hurricane break
CART	40%	03/02/2000	...	
PLUZ	33%	06/04/2004	01/10/2018	
GETI	38%	01/01/1999	30/11/2015	GET1 announced, no news
PALA	50%	02/08/1996	24/04/2017	Decommissioned, Replaced by PALR
RBAY	62%	03/10/2000	...	
BIN1	46%	19/09/2007	25/03/2017	BINT: 12% decommissioned
MALD	67%	12/08/1999	11/06/2006	HULE nearby, but few data
MARN	69%	31/07/2006	21/12/2021	Communication problems
FFT2	79%	03/12/2015	...	FFTG: 27% decommissioned, FFT2 good, restarted in April 2019 after more than 1 year break
DUM1	72%	30/01/1995	20/03/2017	Replaced by DUM2
LYTT	67%	15/11/1999	01/01/2019	

No data for more than 30 days

Continued RINEX data delivery

Decommissioned station

10% of TIGA stations have less than 50% of data, with no other GNSS station nearby:
CART, FREE, GETI, KLPD, PLUZ, SIMO.

TIGA Requirements

Remind:

Requirements to become a TIGA station:

- i. Availability of GNSS data & sitelog at the TDCs
- ii. Tide gauge data being sent to the PSMSL or UHSLC
- iii. Provision of the TOS (TIGA Observing Station) form
- iv. Regular levelling TG-Benchmark->TG_Zero and TG-Benchmark-ARP
- v. Regular leveling of the benchmarks of the GNSS-marker



Questions?