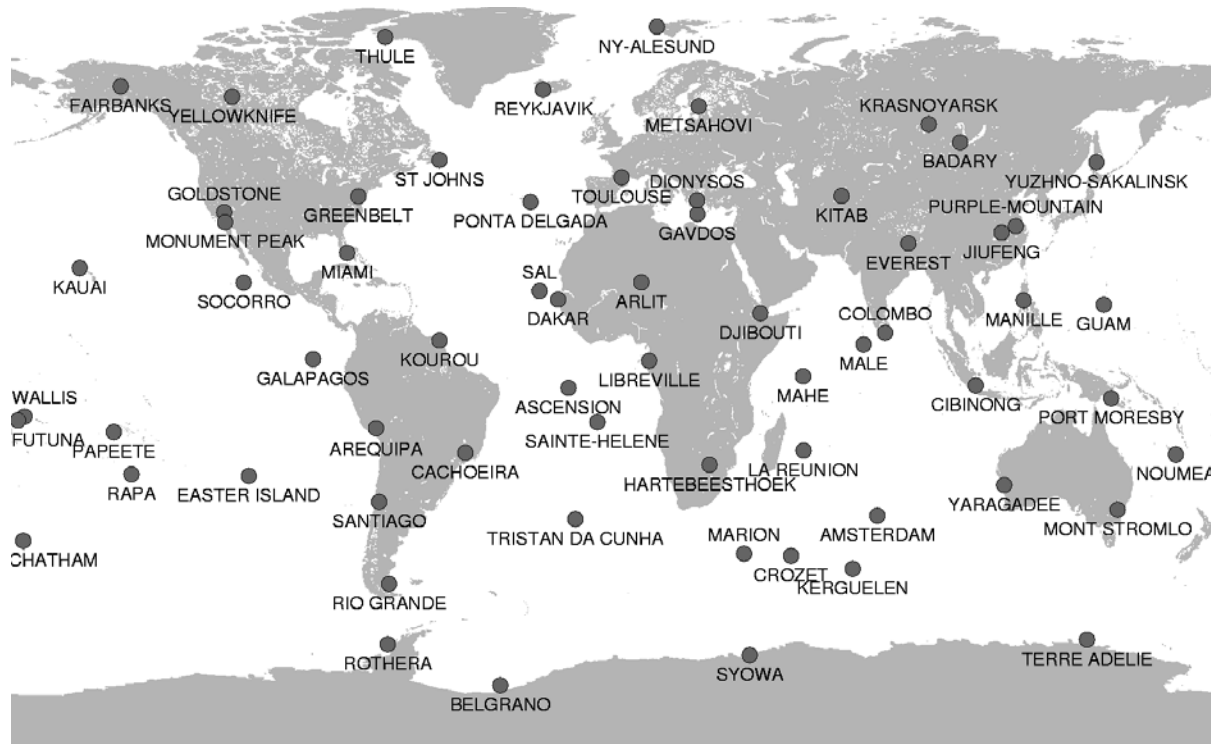# IDS latest developments and perspectives

Pascal Willis, Frank Lemoine

DORIS network for ITRF2008
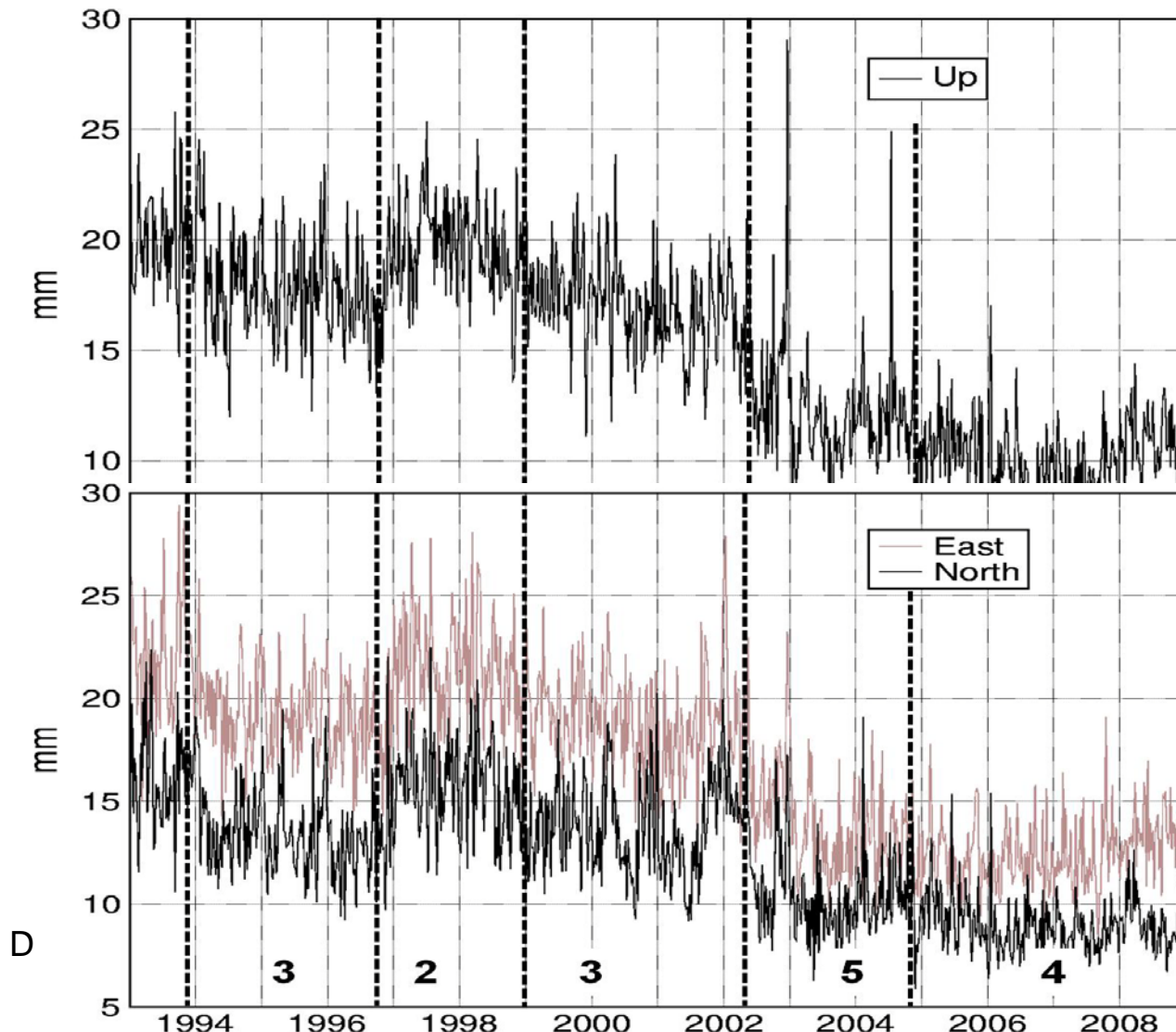

1993.0-2009.0

IDS ACs contribution to IDS-3 (used for ITRF2008)

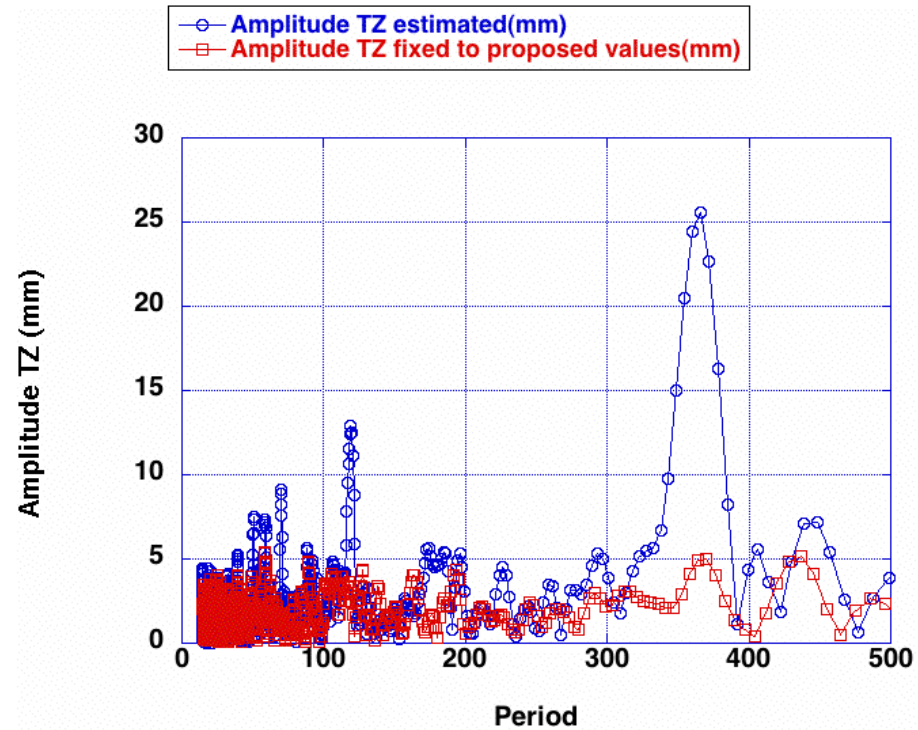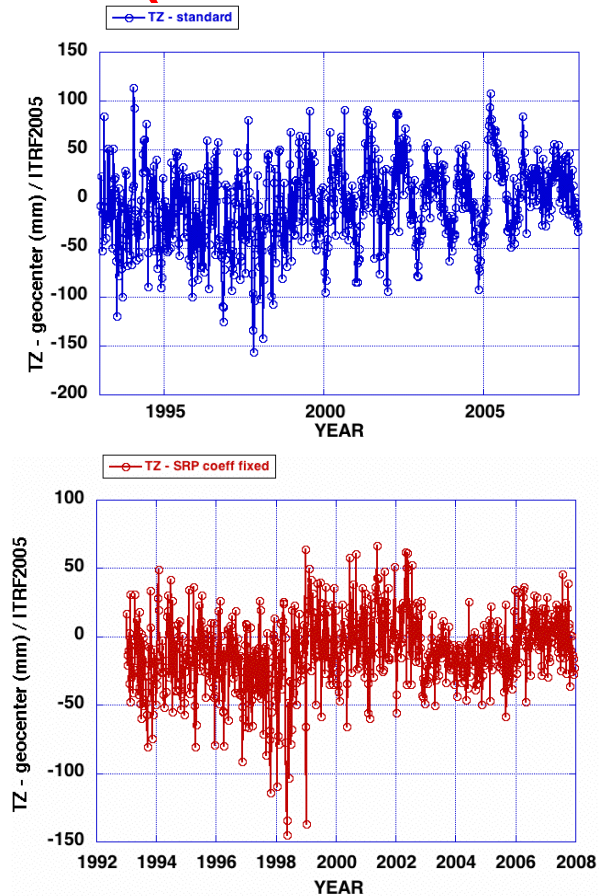| IDS AC	Country	Sotware	Data for ITRF2008
ESA	Germany	NAPEOS	1993.0-2009.0
Geoscience Australia	Australia	GEODYN	2002.1-2009.0
CNES/CLS	France	GINS/DYNAMO	1993.0-2009.0
GOP	Czech Rep.	Bernese	1993.0-2008.0
GSFC	USA	GEODYN	1992.8-2008.9
IGN	France	GIPSY/OASIS	1993.0-2009.0
INASAN	Russia	GIPSY/OASIS	1997.0-2008.8

Station coordinates
Internal agreement (IDS-3)

Valette et al., submitted

San Francisco, USA

Recent developments (solar radiation pressure)

Gobinddass et al., 2009

Open issues

- 11-year signal in TZ-geocenter   (ionosphere, drag?)
        (Valette et al., …submitted)

- use of Jason-2 raw phase and pseudorange (RINEX format)
        (Mercier et al., submitted)

- SAA effect detected on SPOT-5 oscillator
        (Stepanek et al., submitted)

- Depency on station residual on solar flux
        (Valette et al., Gobinddass et al., submitted)

Conclusions

- Currently 7 IDS Acs (5 software packages)

- Improved data processing
  - Solar radiation pressure
  - Atmospheric drag (geomagnetic storms + 11 cycle max)

- Better results
  - Geocenter (mostly TZ)
  - Station coordinates