IDS News

Paris, CNES, 2014/03/27

IDS Calendar for 2014

- **IDS contribution to ITRF2013**

- **IDS activity report 2013 (1st quarter)**

- **IERS, IAG reports (1st quarter)**

- **New DORIS special issue**

- **IDS Workshop, Konstanz, Germany, 27-31 October 2014**

- **organisation GB elections : Analysis Coordinator and 1 Member-at-Large for 2015-2018 (2e semester)**

- **IDS/DORIS presentations at main meetings: EGU, AGU, COSPAR, AOGS?, REFAG?**

Activity Reports 2013

Preparation of:

- IDS annual activity report
- Contribution to IERS annual report
- Contribution to IAG annual report

Still missing reports:

- Introduction (P. Willis) +conclusion for the IERS reports
- Network (J. Saunier) +summary
- Analysis Coordination (F. Lemoine) + summary
- IGN Data Center (B. Garayt)

Analysis Centers:

- ESA/ESOC (M. Otten)
- NASA/GSFC (F. Lemoine)

IDS workshop, October 27-28 2014, Konstanz

3 events representing "New Frontiers of Altimetry":

   OSTST meeting

   SARAL/Altika workshop

   IDS workshop

Venue: Steigenberger Inselhotel situated on Lake Constance, Germany,

The websites for registration and abstract submission are now open

Abstract submission:

     http://www.ostst-altimetry-2014.com/authors/

     Deadline: June 23

Registration:

     http://www.ostst-altimetry-2014.com/registration/

     Deadline: October 4 (before increase of registration fees).

Links soon on the IDS web site:

http://ids-doris.org/report/meeting-presentations/ids-workshop-2014.html

IDS workshop, October 27-28 2014, Konstanz

Time	Sunday 26th October	Monday 27th October		Tuesday 28th October			Wednesday 29th October			Thursday 30th October		Friday 31st October
8am–9am		Registration and Presentation upload		Registration and Presentation upload			Registration and Presentation upload			Registration and Presentation upload		Registration and Presentation upload
9am–10:30		Project overview / Global and local calval	IDS workshop 1	OSTST Plenary session			Precision Orbit Determination (part I)	Near Real Time Products and Applications and Multi-Mission, Multi-Sensor Observations		The Geoid, Mean Sea Surfaces and Mean Dynamic Topography	Quantifying Errors and Uncertainties in Altimetry data	OSTST Plenary closing session
10:30–11:00		Coffee break (10:30-11:00)	Coffee break (10:30-11:00)	Coffee break (10:30-11:00)			Coffee break (10:30-11:00)	Coffee break (10:30-11:00)		Coffee break (10:30-11:00)	Coffee break (10:30-11:00)	Coffee break (10:30-11:00)
11am–12:30		Instrument processing / Poster session		OSTST Plenary session			Precision Orbit Determination (part II)	Tides, internal tides and high-frequency processes		Poster session		OSTST Plenary closing session
12:30–2pm		Lunch		Lunch			Lunch			Lunch		Lunch
2pm–4pm		Poster session (cont') / Oceanography / Land/sea ice	IDS workshop 2	IDS work. 3	Science I: Inland waters (multi-mission and long-term monitoring)	Instrument Processing (part I): Corrections	IDS Governing Board	Regional and Global CAL/VAL for Assembling a Climate Data Record (part I)	Science II: Finer scale ocean processes (mesoscale and coastal)	Splinters Round Tables		
4pm (coffee)		Coffee break (15:45-16:15)	Coffee break (15:45-16:15)	Coffee break (15:45-16:15)	Coffee break (15:45-16:15)	Coffee break (16:00-16:15)	Coffee break (15:45-16:15)	Coffee break (15:45-16:15)	Coffee break (15:45-16:15)		
5pm–6pm	Welcome cocktail and Registration	Inland waters and Ka band			Outreach, Education & Altimetric Data Serv.	Instrument Processing (part II): Measurement, retracking (SAR/LRM)	Regional & Global CAL/VAL for Assembling a Climate Data Record (part II)	Science III: Regional and basin-scale processes and sea level rise		Poster session		
7pm		Ice breaker cocktail										
8pm–9pm							Gala Dinner (Boat Cruise on Bodensee)					

Legend:
- SARAL/AltiKa workshop
- IDS workshop
- OSTST

27/03/2014

IDS GB elections 2014

Elections for 2 positions for 2015- 2018 by the IDS Associates:

■ **Analysis Coordinator**

Frank Lemoine has been Analysis Coordinator since 2005:

2005-2008 (replacing Martine Feissel-Vernier during the term 2003-2008) + 2009-2012 + 2013-2014 (*)

■ **Member at Large**

John Ries has been one of the two Members at Large since 2003:

2003-2008 + 2009-2012 + 2013-2014 (*)

(*) term extension for two years, due to set-up of elections every two years to renew elected members (3 = ACs' rep., DCs' rep., 1 MatL, then 2 = ACoord. , 1 MatL) according to the new 2011 ToR

IDS GB elections 2014

Planning will be discuss today during GB meeting

CB proposal:

■ ~~September~~ **May: call for Nomination**

■ **October: call for Vote**

■ ~~December~~ **October: GB meeting at ~~AGU~~ IDS Workshop with current and elected members**

■ **January 2015 : start of 4-yr term for the two new elected members**
  ◆ An overlap period of a few months for the new Analysis Coordinator should be considered

Future DORIS presentations and sessions proposals at main meetings

■**2014: EGU – Vienne**

Oral: - IDS contribution to ITRF2013 (Moreaux, Lemoine, Willis, Capdeville, Otten, Stepanek, Kuzin, Ferrage)

Posters: - Precipitable water trends and variability investigated from homogenized global, long-term, GPS and DORIS datasets (Bock, Willis, Collilieux)

- A high-quality, homogenized, global, long-term (1993-2008) DORIS precipitable water dataset for climate monitoring and model verification (Bock, Willis, Wang, Mears)

- Time-variable Gravity Solutions from 1993 to 2013 from SLR and DORIS data (Lemoine, Chinn, Zelensky, Beall, Melachroinos)

- DORIS and GNSS processing at CNES/CLS for the contribution to the next ITRF2013 (Loyer, Capdeville, Soudarin, Mezerette, Lemoine, Mercier, Perosanz)

- Using DORIS for modeling the Vertical Total Electron Content of the Earth's Ionosphere (Dettmering, Limberger, Schmidt)

- Combination at the Observation Level: contribution to ITRF2013 (Richard, Bellanger, Biancale, Bizouard, Bourda, Bouquillon, Coulot, Deleflie, Francou, Gambis, Lemoine, Loyer, Pollet, Soudarin)

- Terrestrial and celestial reference frame realization with highly elliptical orbit, the ESA Spate-Time Explorer mission (Svehla, Rothacher, Hugentobler, Nothnagel, Willis, Biancale, Ziebart, Appleby, Schuh, Adam, Iess, Cacciapuoti)

Future DORIS presentations and sessions proposals at main meetings

- **2014:**
  - ◆ **COSPAR – Moscou (2 - 10 Aug.)**

PSD.1 Satellite Dynamics for Earth and Solar System Sciences and Applications (P. Willis, H. Bock)

  - ◆ **REFAG – Luxembourg (13 – 17 Oct.)**

  - ◆ **AGU – San Francisco (15 – 19 Dec.)**

No DORIS session is proposed

- **2015:**
  - ◆ **IAG General Assembly – Prague (22 June – 2 July)**

- **2016:**
  - ◆ **COSPAR – Istanbul (30 July – 7 Aug.)**

DORIS special issue

- A new DORIS special issue is planned this year in Advances in Space Research

- Guest editor: Frank Lemoine

New pages of the web site

http://ids-doris.org/report/meeting-presentations/ids-awg-03-2014.html
informations about AWG meeting in Paris;

http://ids-doris.org/report/meeting-presentations/ids-workshop-2014.html
informations about IDS Workshop in Konstanz;

http://ids-doris.org/system/earthquakes-close-to-doris-sites.html
table with list of Earthquakes with magnitude larger than 6 in the vicinity of DORIS sites (less than 500 km) since Dec. 2008 based on USGS Earthquake notifications.

http://ids-doris.org/system/compilation-of-the-events.html
table with chronology of the main events that occurred on the DORIS space segment and ground segment (events impacting data, station events, system events, earthquakes). Not automatically updated for now.

http://ids-doris.org/contribution-itrf2013.html
data analysis summary of the DORIS weekly SINEX series used in the IDS combination for the realization of ITRF2013

Plans for 2014

■ **tutorial for RINEX/DORIS data**

A new page to gather the documents and the presentations about the RINEX/DORIS data already on line on the IDS web site, eventually with some routines of writing/handling the data files.

Objective: to help Analysis Centers to use this format that will be the only one from the next DORIS mission.

New version of Plottool: http://ids-doris.org/plottool/

WEB SERVICE

Description | Station position | Orbit residuals | Combination parameters | Network viewer

The IDS Web Service

The IDS Web service provides tools to browse **time series** of DORIS-related products.

Besides products provided by the CNES Orbitography Team and the IDS components (Analysis Centers and Combination Center), this service allows comparing time evolutions of coordinates for DORIS and GNSS stations in co-location, thanks to a collaboration with the IGS Terrestrial Frame Combination Center.

The tools

The tools proposed by this web service are:

- a **network viewer** to select sites
- a family of **plot tools** to visualize time series

The time series

The time series that can be visualized with the plot tools are:

- **Station position** differences at observation epochs relative to a reference position (North, East and Up trended time series).
- **Orbit residuals** and amount of station measurements from CNES Precise Orbit Ephemeris processing (RMS of post-fit orbit residuals, total and validated number of DORIS measurements per arc).
- **Combination parameters** i.e. outputs of the IDS Combination Center analysis (WRMS of station position residuals, scale and translation parameters, number of stations used in the analysis).

The station position time series

The station position time series are:

- **for DORIS sites** series from the IDS Analysis Centers and combined series from the IDS Combination Center.
- **for GNSS sites colocated with DORIS** combined series from the IGS TRF Combination Center.

Following the tab **Station position**, you can access to **all the time series**.
Following the tab **Network viewer**, you can access to the **DORIS combined time series** and the **GNSS combined time series at colocated sites only**.

27/03/2014

Series selection   ✖

You can choose here the data to plot :
1. Select a station from the list or the map.
2. Select data series from the station tables.
3. If desired, complete your selection with additional data.
4. Click on "Plot new graphs" when ready.

Select a station from list...   ▲   🗺 **Choose on a map**

KA   🔍

DORIS

DAKAR : *DAKA*

HARTEBEESTHOEK : *HBKA, HBKB, HBLA, HBMB, HBLB*

KAUAI : *KOKA, KOLB*

YUZHNO-SAKHALINSK : *SAKA, SAKB*

GNSS

KAUAI : *KOKB*

You can choose here the data to plot :
1. Select a station from the list or the map.
2. Select data series from the station tables.
3. If desired, complete your selection with additional data.
4. Click on "Plot new graphs" when ready.

KAUAI : *KOKB*   ✕   ▾   🗺 **Choose on a map**

DORIS stations			Series					
Name		**Code**	**ids12wd01**	**esa13wd01**	**gsc14wd23**	**ign11wd01**	**ina12wd01**	**lca11wd02**
KAUAI	ⓘ ❌	KOKA	☑ ⬇	☐ ⬇	☐ ⬇	☐ ⬇	☐ ⬇	☐ ⬇
		KOLB	☑ ⬇	☐ ⬇	☐ ⬇	☐ ⬇	☐ ⬇	☐ ⬇

GNSS stations			Series
Name		**Code**	**igs14wp01**
KAUAI	ⓘ ❌	KOKB	☑ ⬇

Additional data   None ▾

Unselect all series   Reset all selections   📈 **Plot new graphs**

east

Zoom: 1y 2y 5y All   From: 1993-01-07 To: 2013-08-15
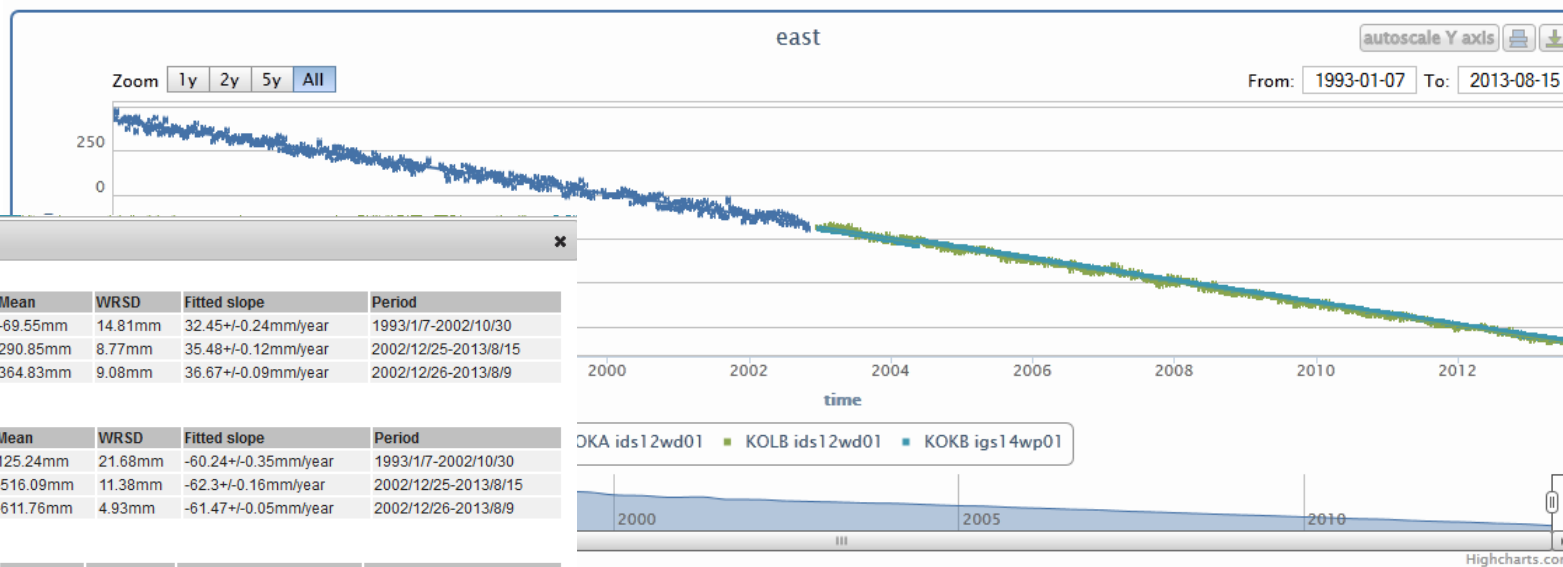
Statistics

north

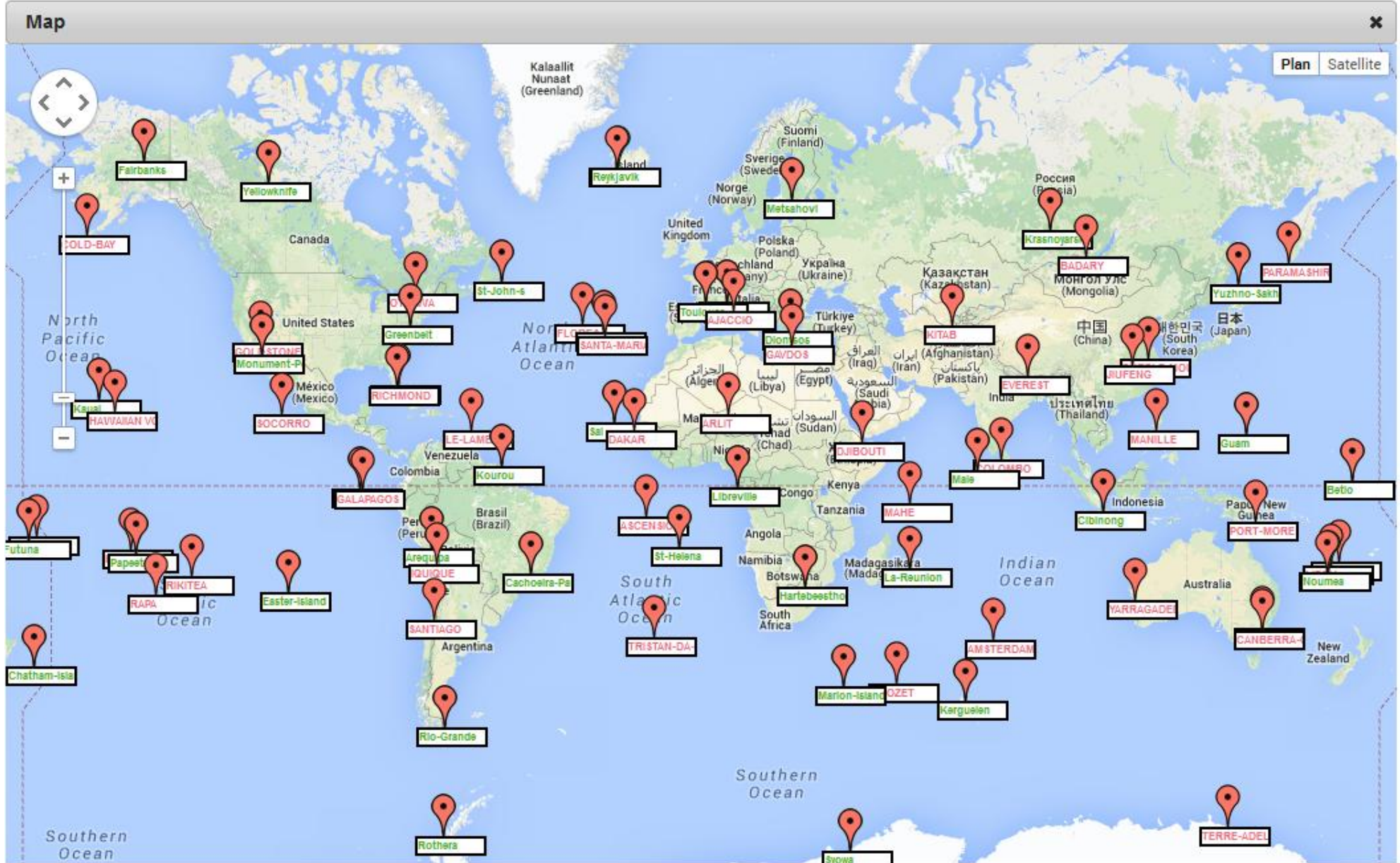| Series	Mean	WRSD	Fitted slope	Period
KOKA ids12wd01	-69.55mm	14.81mm	32.45+/-0.24mm/year	1993/1/7-2002/10/30
KOLB ids12wd01	290.85mm	8.77mm	35.48+/-0.12mm/year	2002/12/25-2013/8/15
KOKB igs14wp01	364.83mm	9.08mm	36.67+/-0.09mm/year	2002/12/26-2013/8/9

east

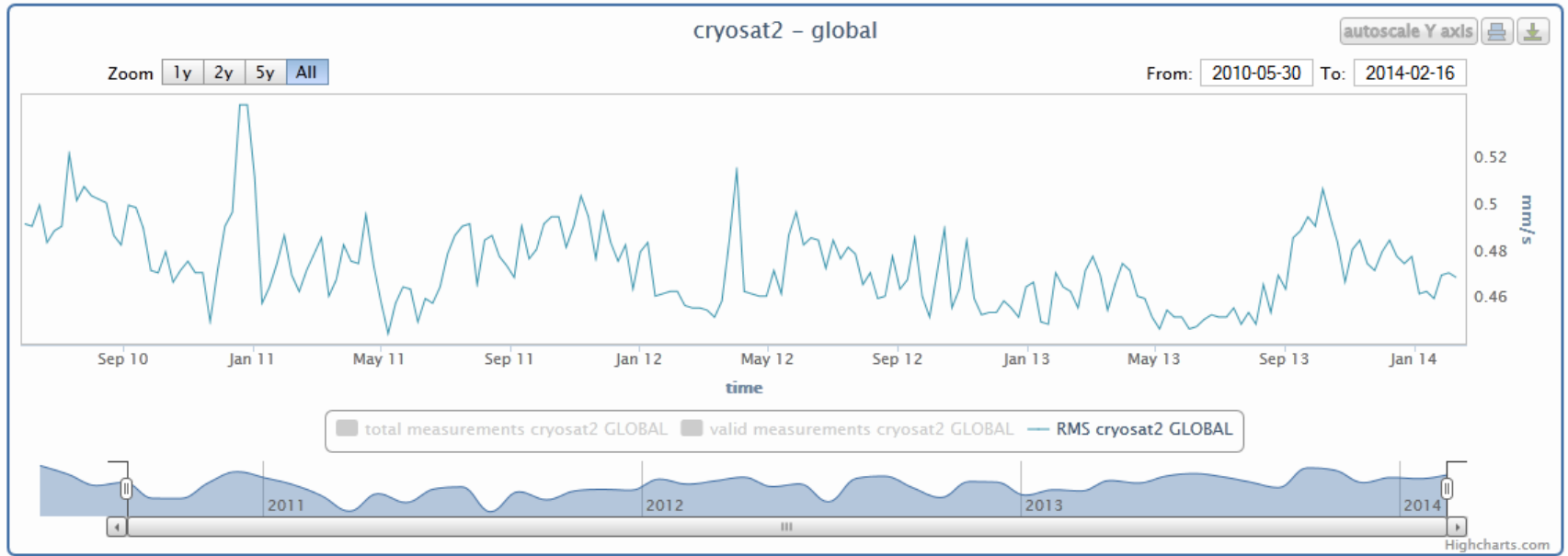| Series	Mean	WRSD	Fitted slope	Period
KOKA ids12wd01	125.24mm	21.68mm	-60.24+/-0.35mm/year	1993/1/7-2002/10/30
KOLB ids12wd01	-516.09mm	11.38mm	-62.3+/-0.16mm/year	2002/12/25-2013/8/15
KOKB igs14wp01	-611.76mm	4.93mm	-61.47+/-0.05mm/year	2002/12/26-2013/8/9

up

Series	Mean	WRSD	Fitted slope	Period
KOKA ids12wd01	-1.68mm	18.21mm	-0.34+/-0.29mm/year	1993/1/7-2002/10/30
KOLB ids12wd01	0.19mm	10.46mm	0+/-0.14mm/year	2002/12/25-2013/8/15
KOKB igs14wp01	3.64mm	5.07mm	-0.54+/-0.05mm/year	2002/12/26-2013/8/9
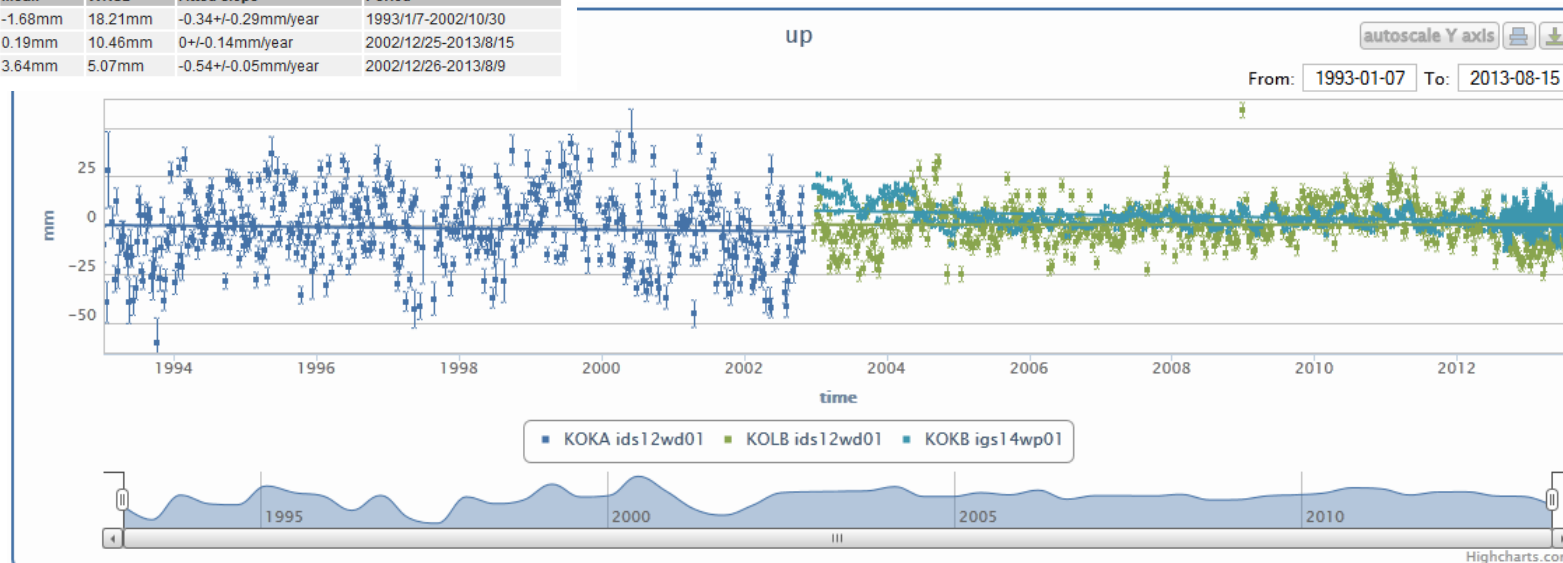
up

From: 1993-01-07 To: 2013-08-15

■ KOKA ids12wd01   ■ KOLB ids12wd01   ■ KOKB igs14wp01

27/03/2014

27/03/2014

cryosat2 – global

Series selection ✖

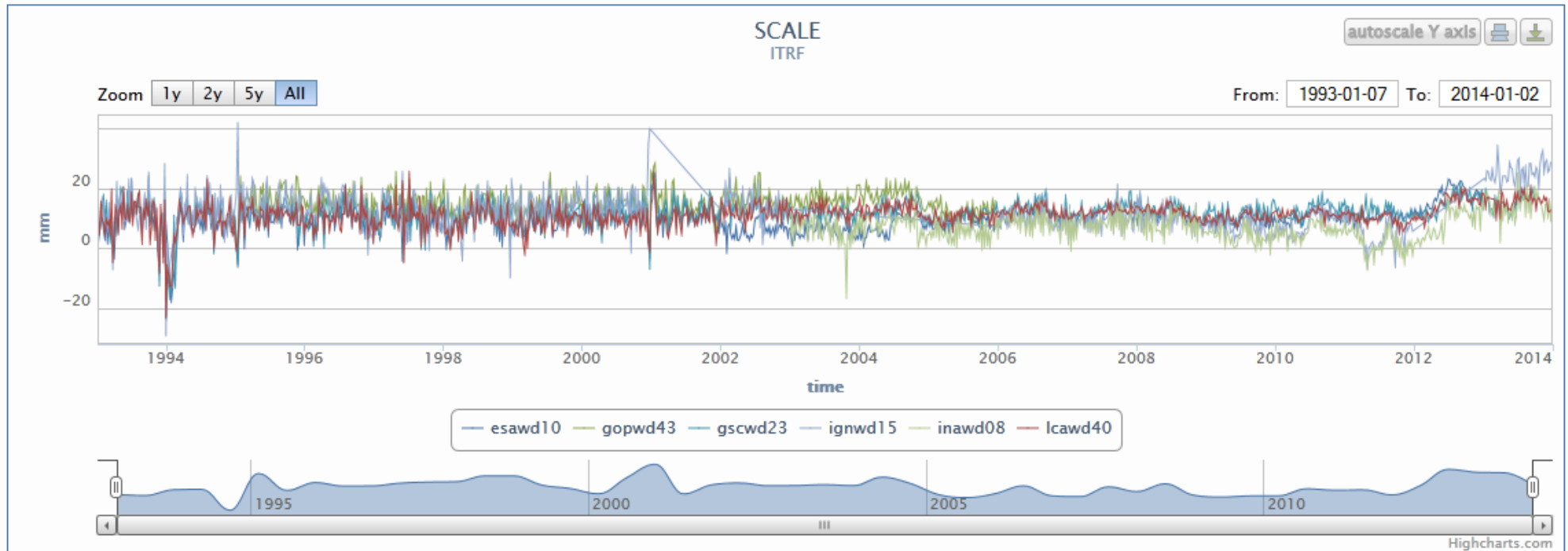**Charts type selection (All / None)**

☐ Number of stations in the original SINEX   ☐ Number of stations used for the estimation of Helmert parameters
☐ WRMS   ☑ SCALE   ☐ TX   ☐ TY   ☐ TZ

⚠ *Charts display may be slow if you select a large number of charts and series (up to 2 minutes)*

Reference   ITRF ▾

Analysis centers	Series			
ESA	☑ esawd10	☐ esawd08		
GOP	☑ gopwd43			
GSC	☐ gscwd24	☑ gscwd23	☐ gscwd21	☐ gscwd20
IGN	☑ ignwd15			
INA	☑ inawd08			
LCA	☑ lcawd40			

Plot new graphs

27/03/2014

SCALE
ITRF

27/03/2014