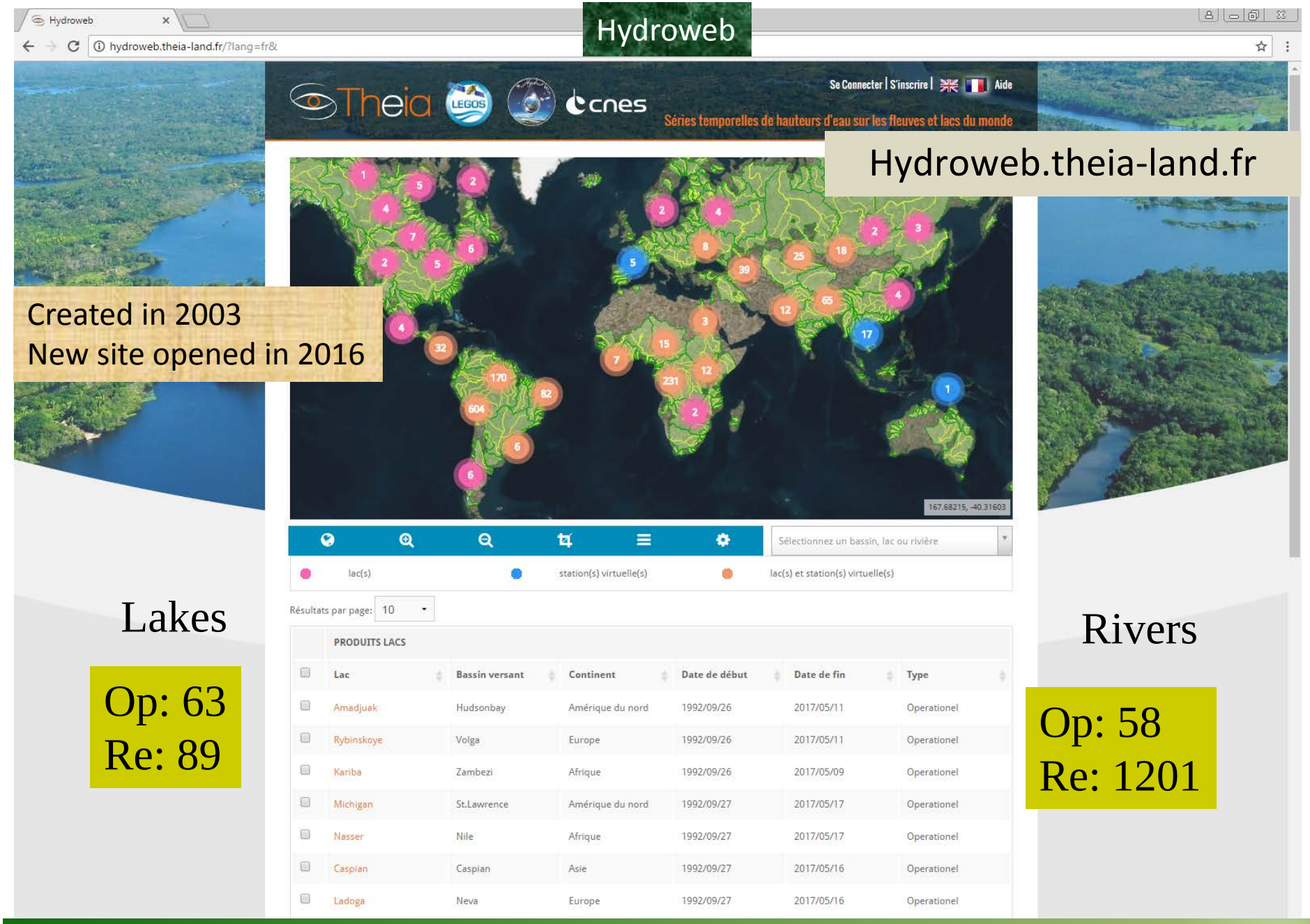
Hydroweb



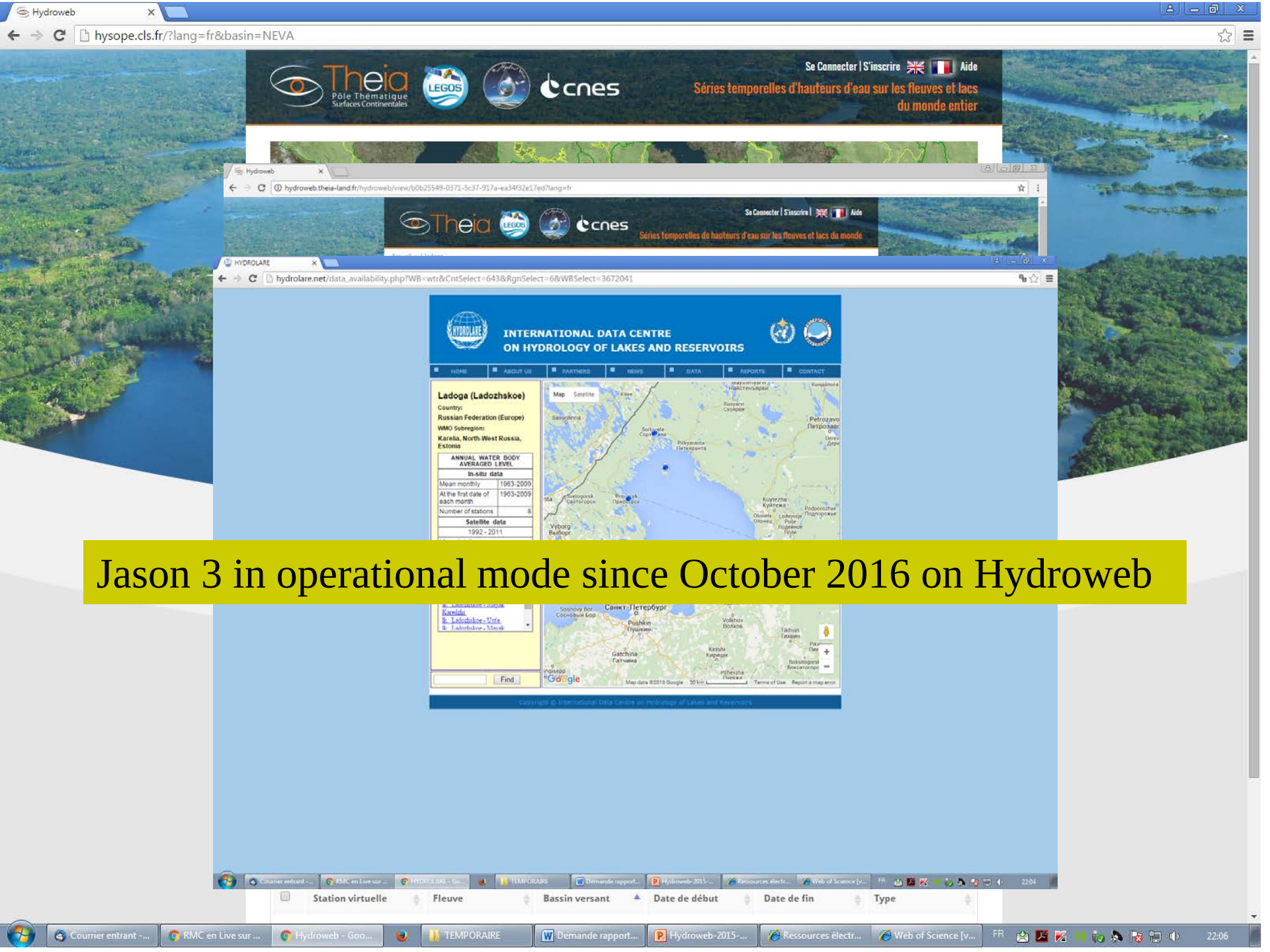
Lakes

Op: 63
Re: 89

Rivers

Op: 58
Re: 1201

Site developped by Legos, maintained and operated by CLS under CNES & Copernicus contracts


Hydroweb
hysope.cls.fr/?lang=fr&basin=NEVA
Theia
Pôle Thématique
Surfaces Continentales
LEGOS
cnes
Se Connecter | S'inscrire
Aide
Séries temporelles d'hauteurs d'eau sur les fleuves et lacs
du monde entier
hydroweb.theia-land.fr/hydroweb/view/b0b25549-0371-5c37-917a-ea34f32e17ed?lang=fr
Séries temporelles de hauteurs d'eau sur les fleuves et lacs du monde
HYDROLARE
hydrolare.net/data_availability.php?WB=wtr&CntSelect=643&RgnSelect=6&WBSelect=3672041
INTERNATIONAL DATA CENTRE
ON HYDROLOGY OF LAKES AND RESERVOIRS
HOME
ABOUT US
PARTNERS
NEWS
DATA
REPORTS
CONTACT
Ladoga (Ladozhskoe)
Country:
Russian Federation (Europe)
WMO Subregion:
Karelia, North-West Russia, Estonia
ANNUAL WATER BODY AVERAGED LEVEL
In-situ data
Mean monthly 1963-2009
At the first date of each month 1963-2009
Number of stations 8
Satellite data
1992 - 2011
Find
Jason 3 in operational mode since October 2016 on Hydroweb
Station virtuelle
Fleuve
Bassin versant
Date de début
Date de fin
Type
Courrier entrant -...
RMC en Live sur ...
Hydroweb - Goo...
TEMPORAIRE
Demande rapport...
Hydroweb-2015-...
Ressources électr...
Web of Science [v...
FR
22:06

Users registration and citations

2012: 80 new users

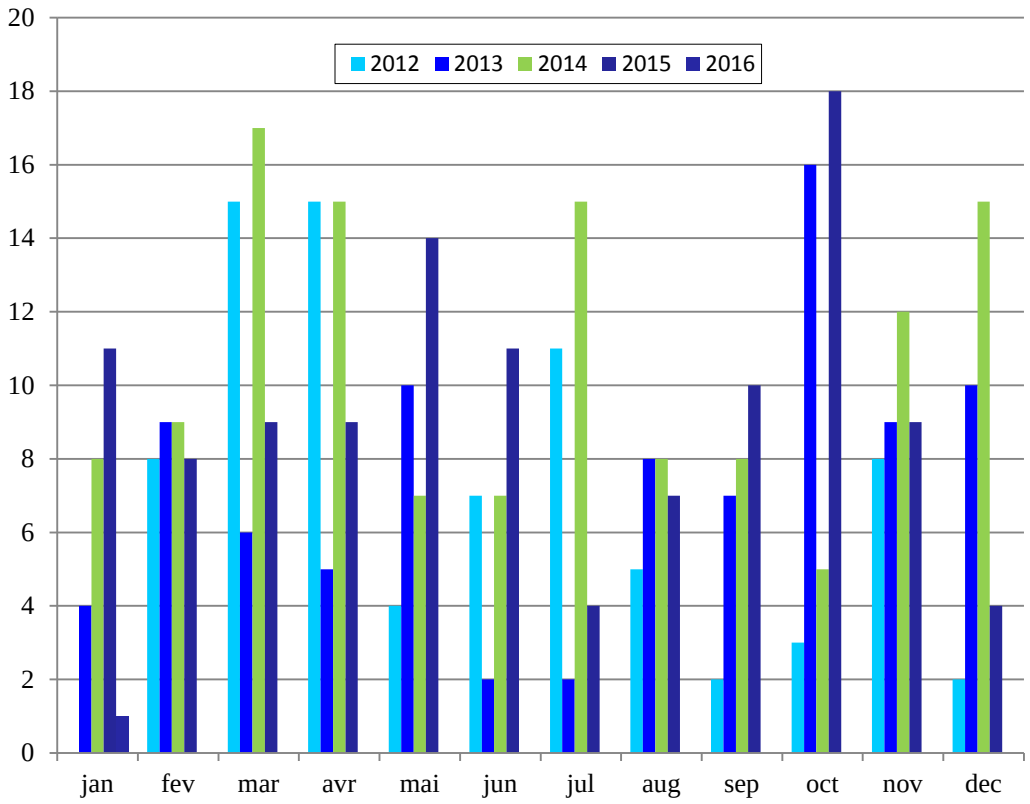
2013: 88 new users

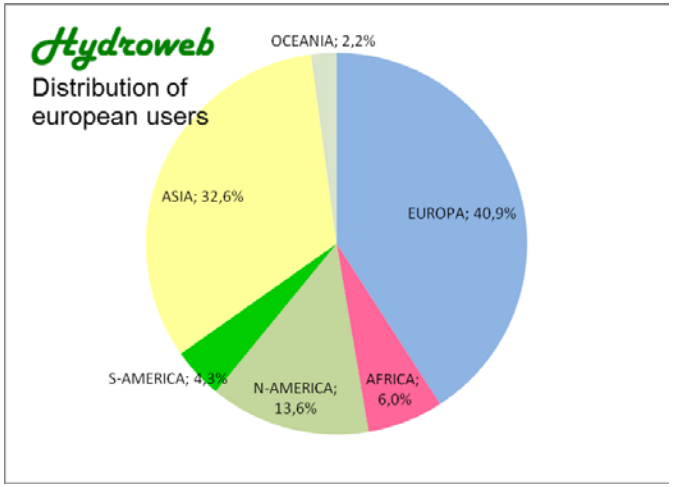
2014: 126 new users

2015: 114 new users

2016: 90 new users

2017: 29 new users





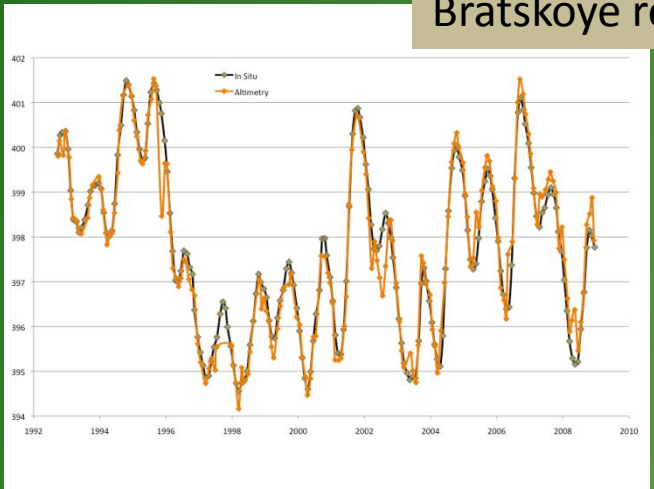
Citations: 37 in 2014, 29 in 2015, 30 in 2016, 11 in 2017

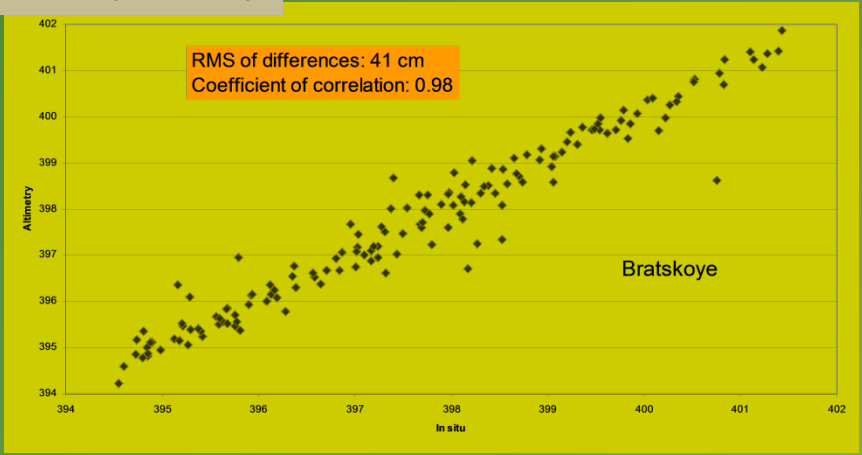
Comparison to in situ data

SHI, IWPB / cooperation with Legos

2-3 cm <accuracy< 1m

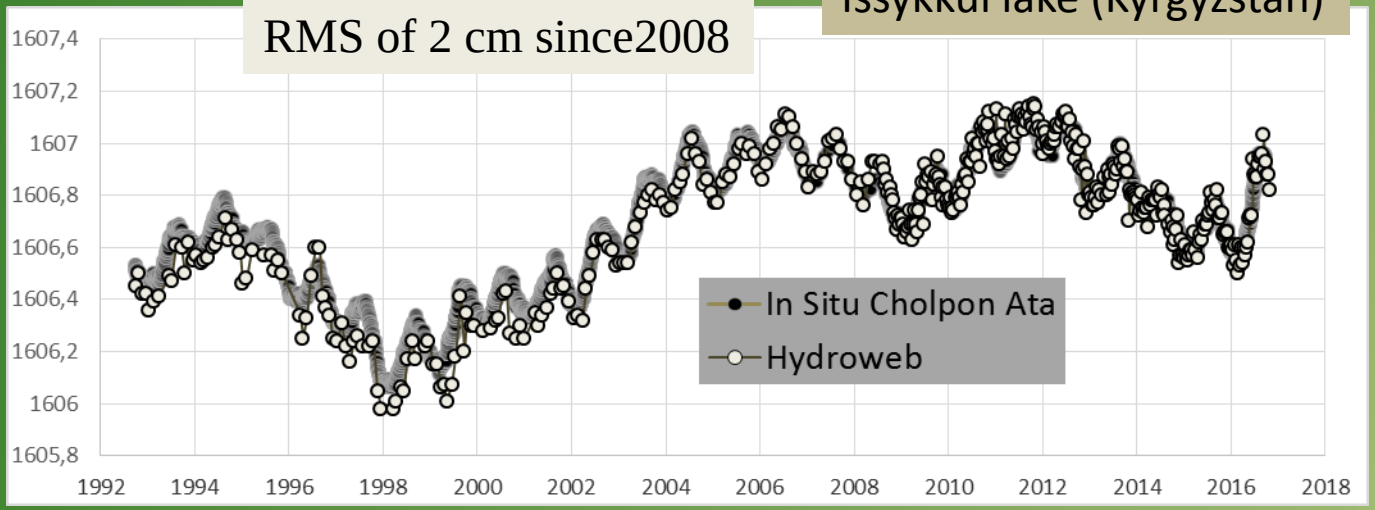
Bratskoye reservoir (Russia)



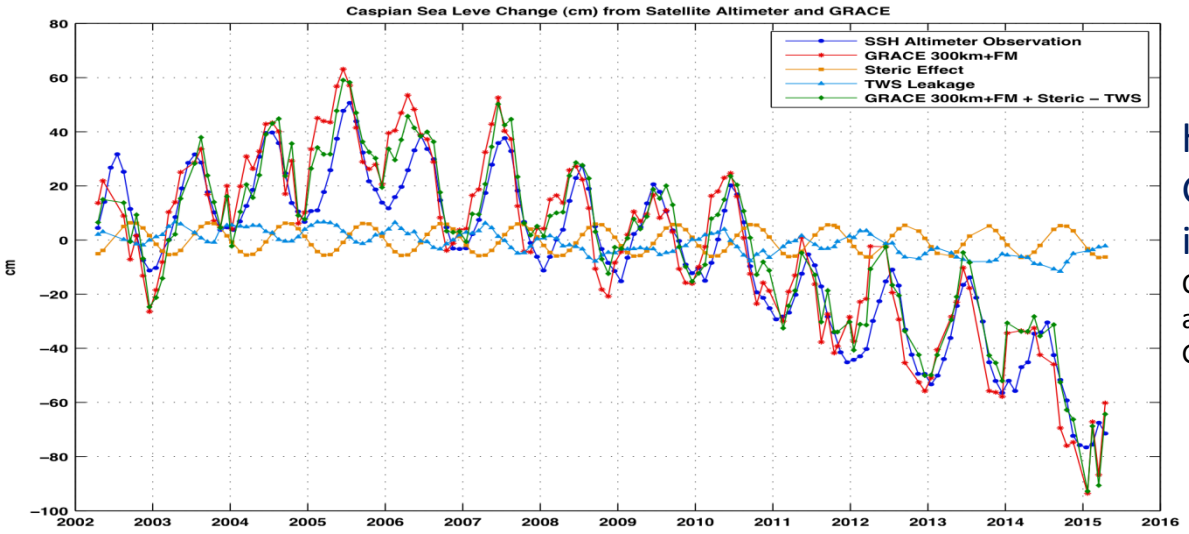


Issykkul lake (Kyrgyzstan)

RMS of 2 cm since2008



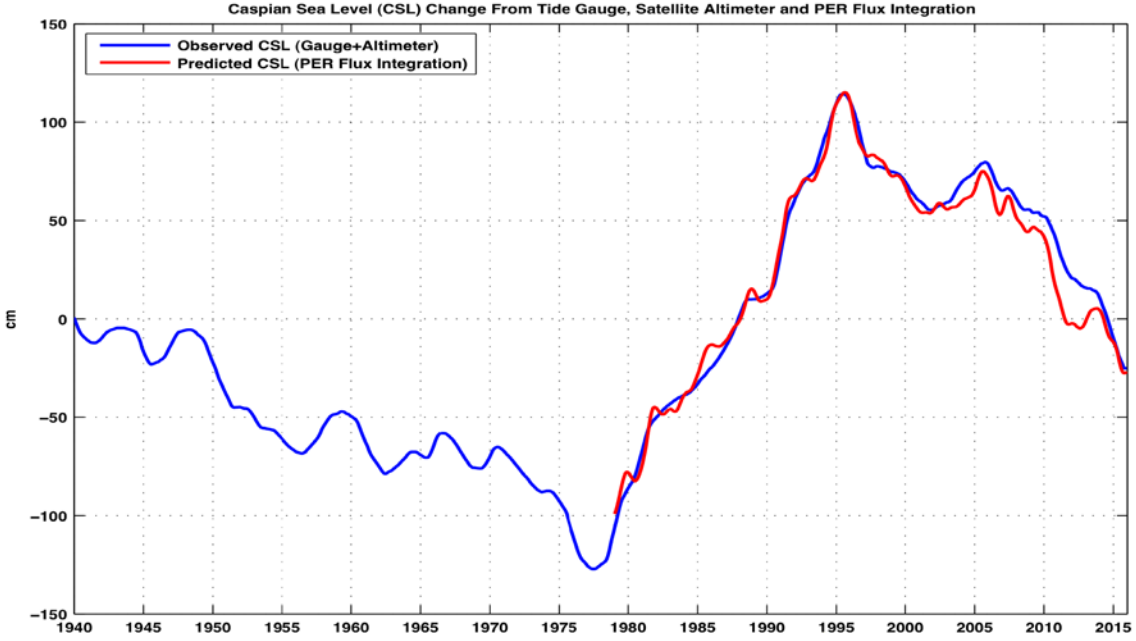
Validation of GRACE data and models using altimetry



Caspian Sea (Ru, Tk, Kz, Ir, Az)

hydroweb data used as reference for GRACE signal decontamination and interpretation over the Caspian Sea

Chen, Wilson, Tapley, Save, Bettadpur , Cretaux, Long-Term and Seasonal Caspian Sea Level Change From Satellite Gravity and Altimeter Measurements, JGR, 2017



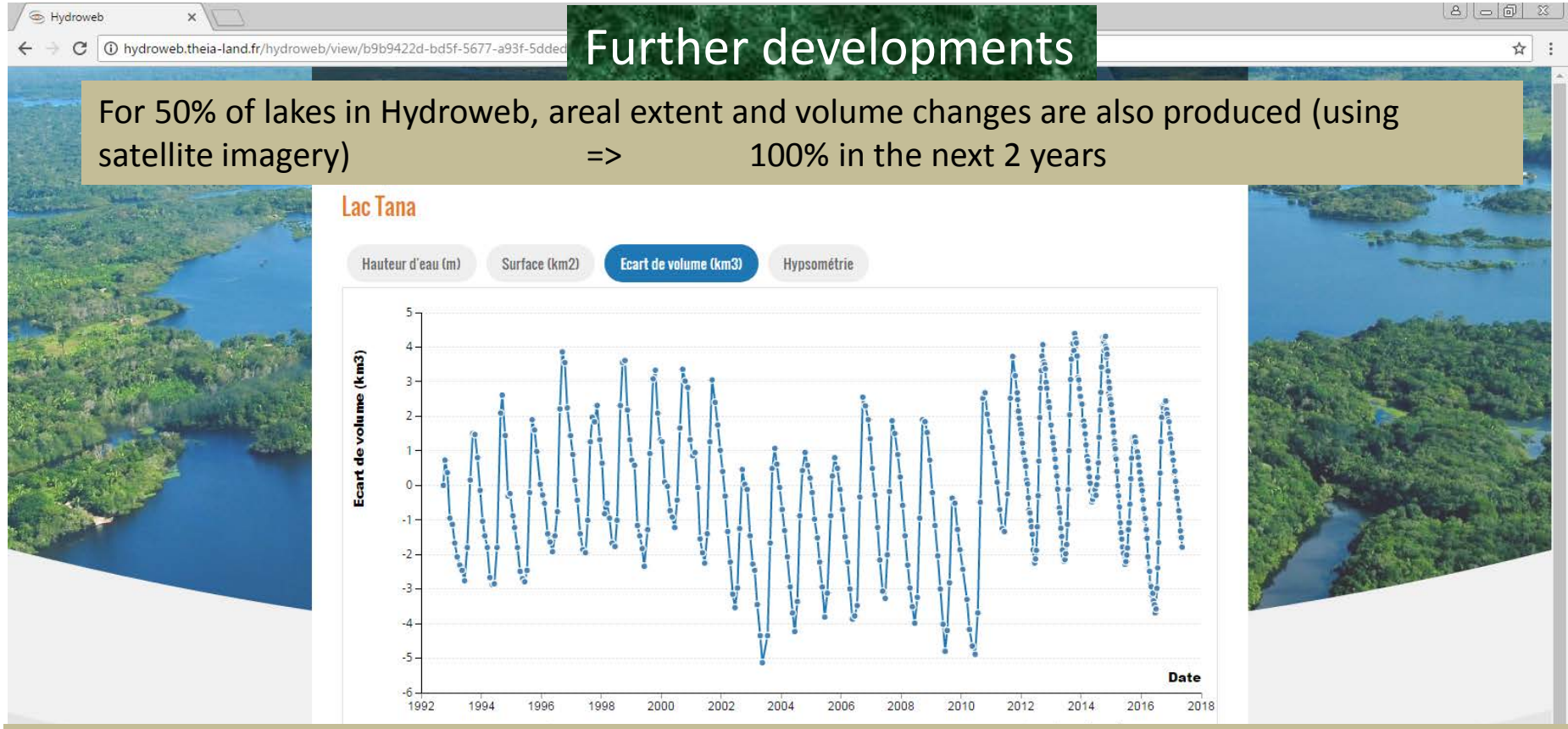
The causes of long term changes over the CS have been investigated using combination of In Situ data, Hydroweb products (CS and Kara Bogaz Gol reservoir).

Some discrepancies due to uncertain river discharge are still present but agreement is remarkable

Chen, Pekker, Wilson, Tapley, Kostianoy, Cretaux, Safarov, Lon-Term Caspian Sea level changes, GRL, 2017, in press

Further developments

For 50% of lakes in Hydroweb, areal extent and volume changes are also produced (using satellite imagery) => 100% in the next 2 years



- Drastically increase the number of lakes in Hydroweb using the new missions Sentinel-3A & 3B, Jason-CS & SWOT
- Determination of near lake bathymetry using Laser ranging instruments & global lakes extent products (Peckel, Shen)
- Continue & Strenghen the participation in the Hydrolare project
- Include lake ice products (duration and date of ice formation and breakup)
- Development of a CCI+ project for Lake's ECVs in a European consortium