Monitoring tools for the CERA system

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ECMWF

To introduce myself

- Joined the ERA-CLIM2 team at ECMWF last July

- Background:
  - PhD. in satellite-borne remote sensing of atmospheric trace gases.
  - Ground-based calibration campaign of satellite-based (Sentinel-5P) spectrometer.

Resent work

WP1

Global 20th century reanalysis

T1.1

Production of an extended climate reanalysis (CERA-20C)

- Migration of monitoring software
- Development of production monitoring tools

T1.2

Migration of monitoring software

Changes in the HPC infrastructure at ECMWF:

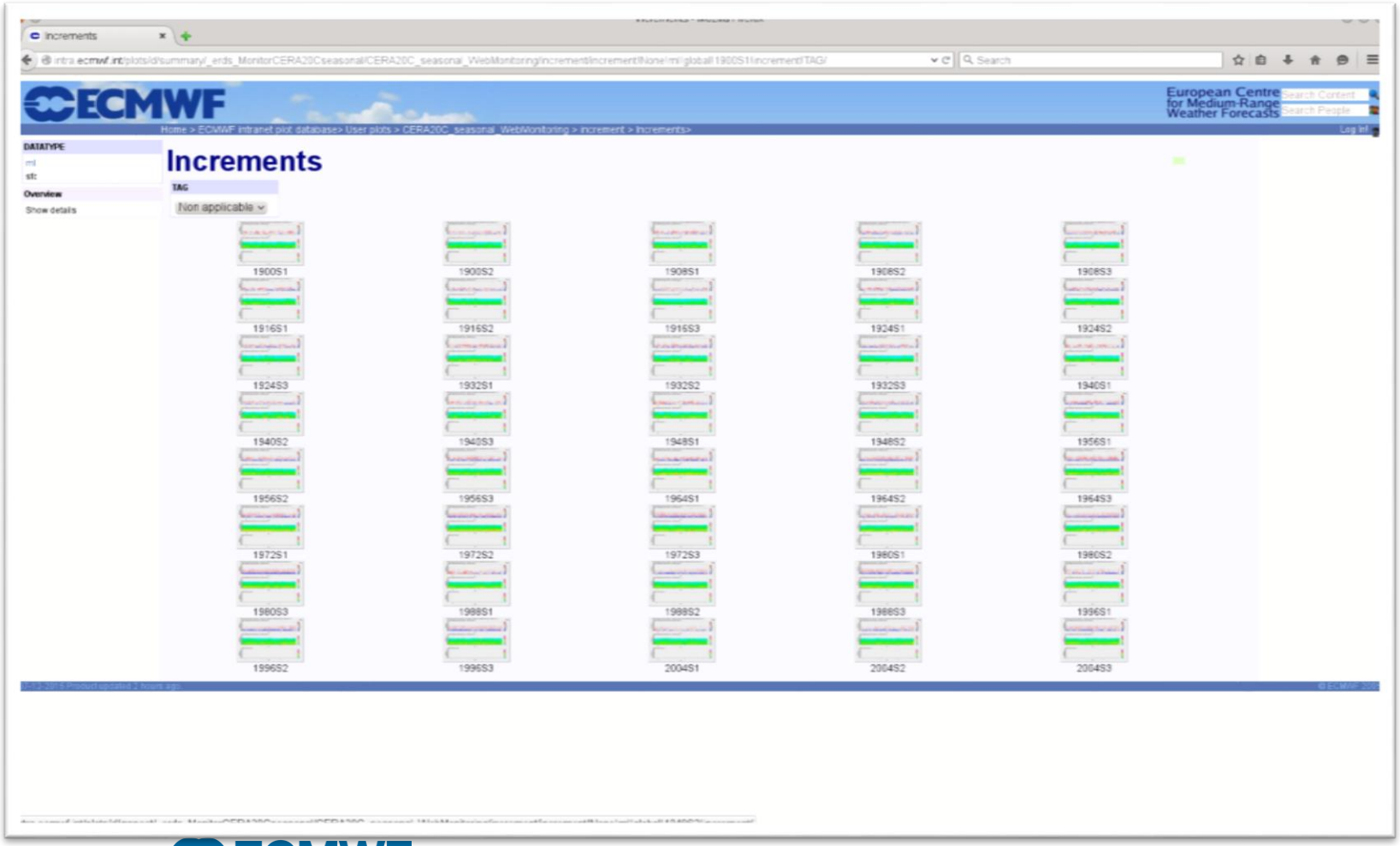
- Replacement of HPC Linux server

Required porting of

- Production monitoring tools
- Build methods

ECMWF-internal website

Easy-access way of sharing near-real time production analyses – get as many experts involved as possible



ECMWF-internal website

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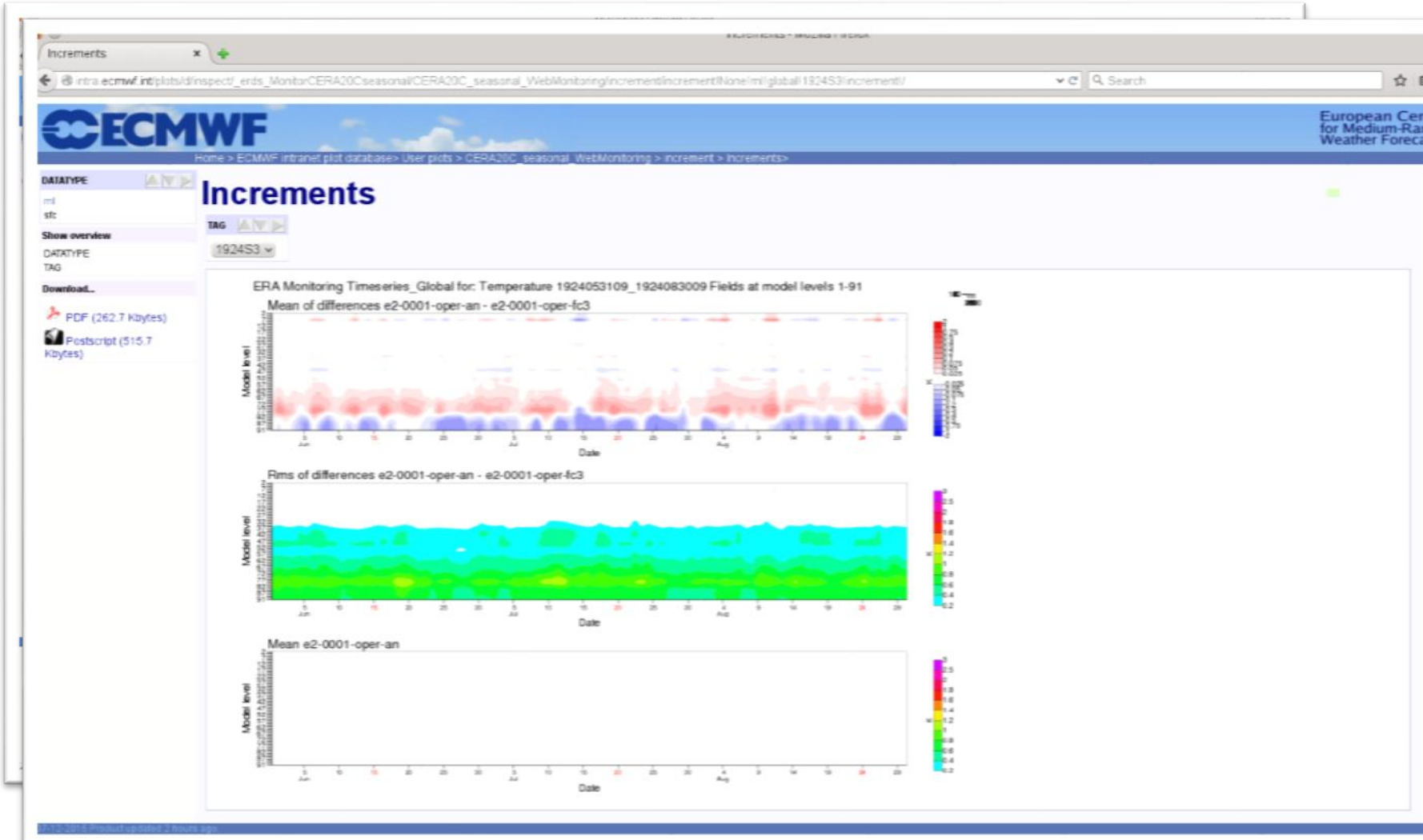
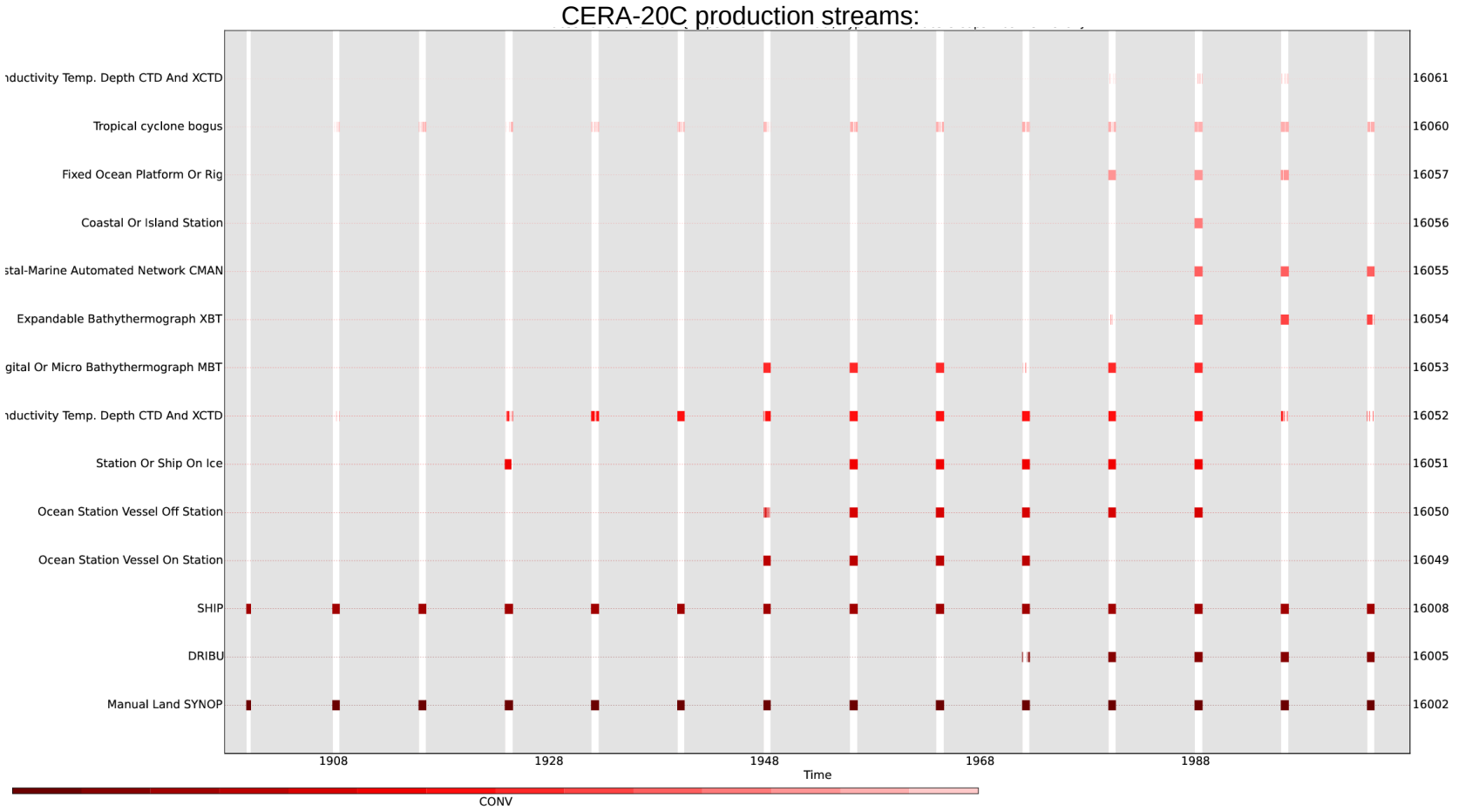


Observation usage monitoring

Easily interpretable overview of observation usage



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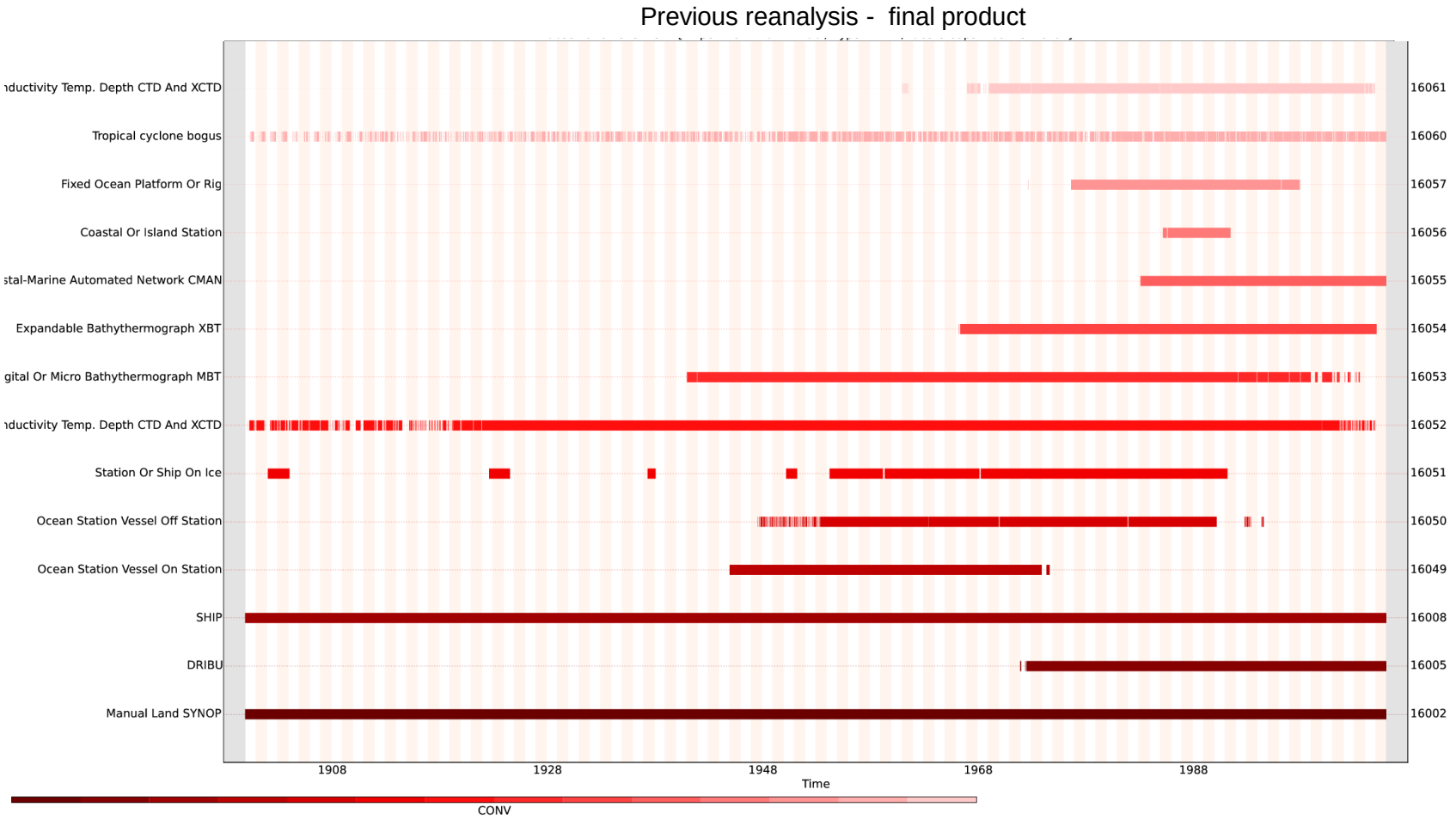

Current and future work

WP1

Global 20th century reanalysis

T1.1

Production of an extended climate reanalysis (CERA-20C)

- Migration of monitoring software
- Development of production monitoring tools

T1.2

Production of a reanalysis of the satellite era (CERA-SAT)

- Initiated close cooperation with the ERA-5 team on satellite-era reanalysis and observation system
- Start implementation of the CERA-SAT reanalysis (Q1 2016)

Thank you