

## HKD monitoring

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Rain	no rain																					
Dew blower status	lo	low	low	low	low	low	hi	low	low	hi	high	high	high	high	high	high	low	low	low	low	low	low
Boundary layer mode	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in
Sky tipping calibration	in	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv
Gain calibration	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in
Noise calibration	in	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv	inactiv
power status	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok
noise diode	of	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off
	20:00	21:00	22:00	23:00	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00		

CCRES/CLU Spring Workshop, online, 1st and 2d of June 2026

# Updates on grafana

## Access


- Server available at <https://ccres.ipsl.fr/grafana/>
- The authentication service has been updated
  - Migration from [AERIS SSO](#) to [DATA TERRA SSO](#)
  - The [documentation](#) has been updated
  - Existing accounts should have been migrated
- Some problems you may encounter
  - If your main email changed on ORCID you may have lost your access to the dashboards
  - The services may ask you to verify again your email address
    - Sometimes this email is detected as **spam**
- In case of problem of question send an email to [ccres-dev@listes.ipsl.fr](mailto:ccres-dev@listes.ipsl.fr)

## Grafana version

- Update to v13 community
- Changes in the interface
- Not possible to change logos or text anymore in the interface
  - impossible to add actris logo

This page is a global logon system for GAIA Data partners. To log in, we recommend using your institutional account (via the eduGain federation) or your ORCID account.

Sign in with your organisation or ORCID account

ID	ORCID
	eduGAIN
	MyAccessID

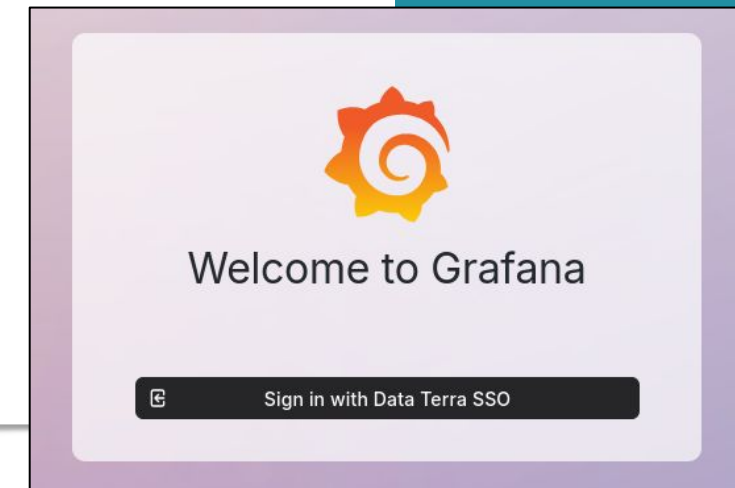
If you dont have an eduGain or ORCID account, you can use a Gaia Data account. You can create one here: [Register](#)

Email

Password

Remember me [Forgot Password?](#)

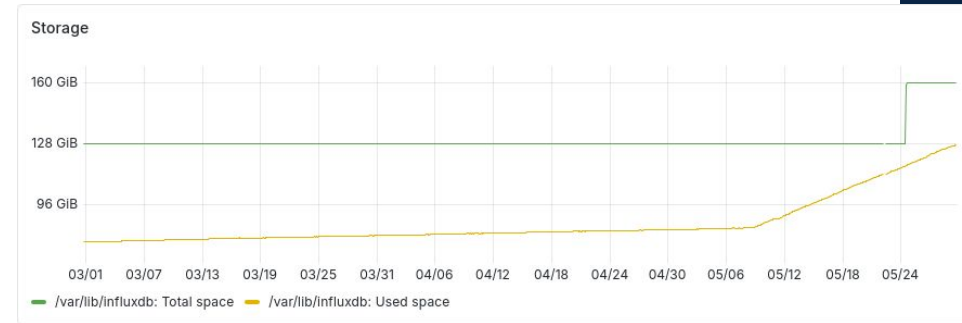
[Sign in](#)



# Storage of HKDs

## The problem

- HKD storage is more now than **130 GB**
- Seems too big to manage for our configuration
- Lots performance problems
- Service is degraded at the moment
- It will take some time to fix
- But should be done before summer



## What we propose

- Increase resources
- Store only the **last 4 years of data**
- We will still be able to analyze the data for labelling
- The HKD for older will still be available in cloudnet raw data
  - Codes to extract them are available in [cloudnet-processing](#)
- Could it be a problem for you ?

# status on grafana

- Monitoring for 10 models of instruments
  - RADARs
    - BASTA
    - RPG FMCW 35 and 94 GHz
  - MWRs
    - RPG Hatpro
  - ALCs
    - Lufft chm15k
    - Vaisala ct25k, cl31, cl51 and cl61
    - Campbell Scientific cs135
  - Disdrometers (since March 2026)
    - OTT parsivel<sup>2</sup>
    - Thies LPM

# New dashboard: OTT Parsivel<sup>2</sup>

- For most stations some HKDs are missing in raw data
  - 3 temperatures : PCB, left and right head sensors
  - 1 status : error
- Need to be investigated

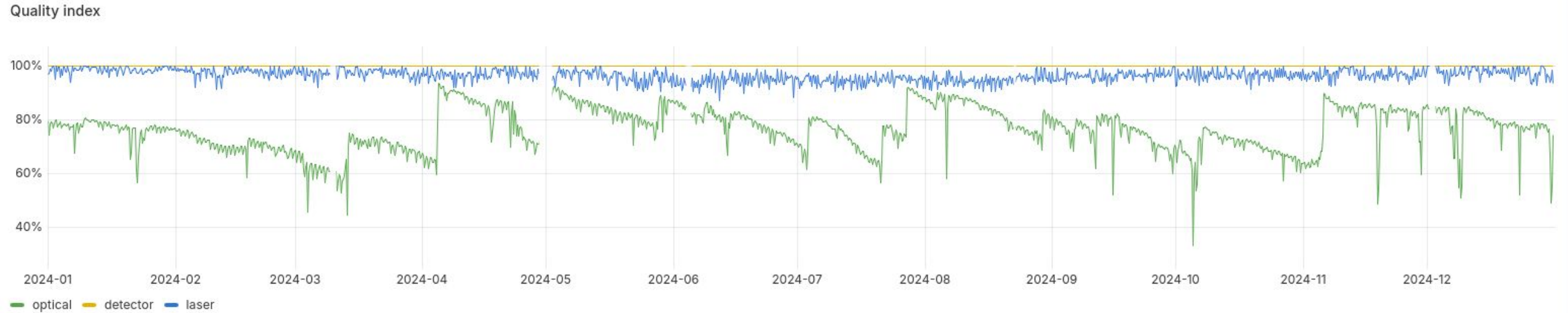


# New dashboard: Thies LPM



# Some problems you can find with Grafana

- CHM15k window needs cleaning

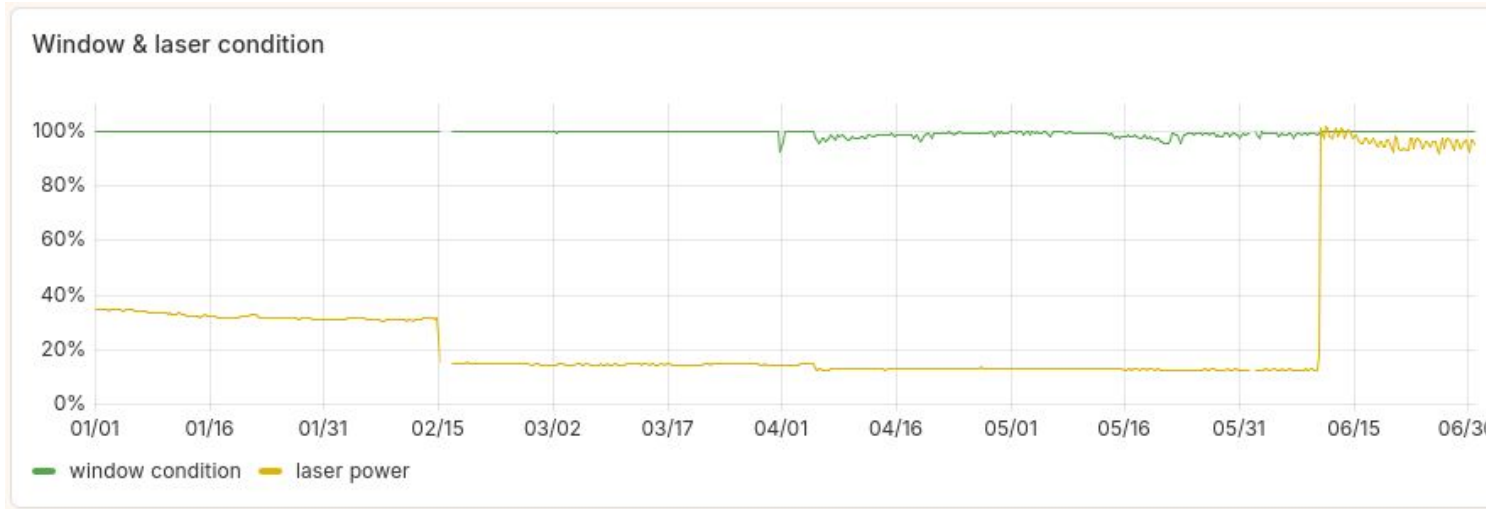


## Status - Warnings

internal temperature	ok	ok	ok	ok	ok	ok	ok
laser ageing	ok	ok	ok	ok	ok	ok	ok
high noise level	ok	ok	ok	ok	ok	ok	ok
windows contaminated	ok	ok	ok	ok	ok	ok	ok
signal processing	ok	ok	ok	ok	ok	ok	ok
laser detector misaligned	ok	ok	ok	ok	ok	ok	ok

# Some problems you can find with Grafana

- CL61 laser power problem

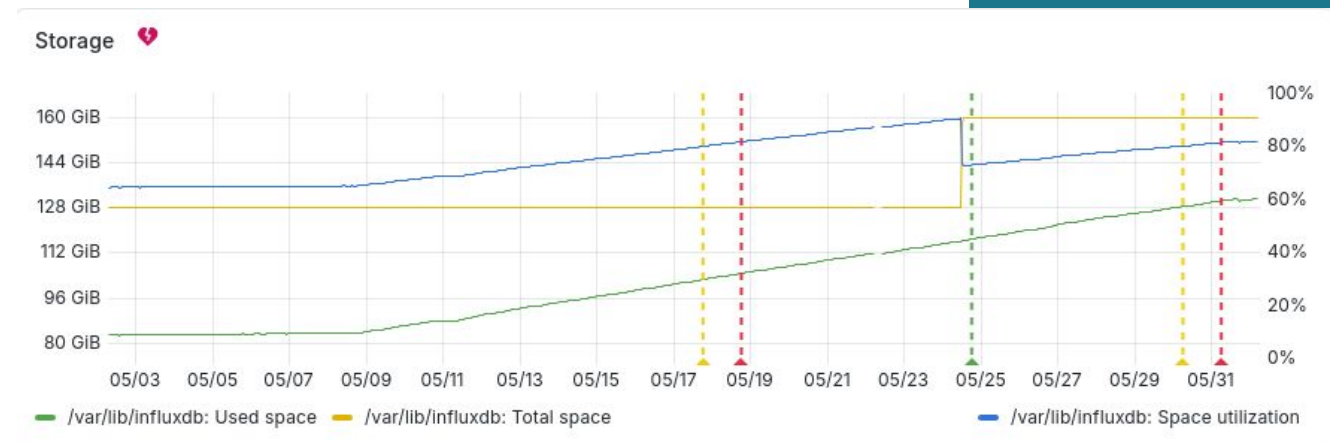


## Hardware Status

tx overall	alert	alert	alert	ok	ok
tx electronics	ok	ok	ok	ok	ok
tx source	ok	ok	ok	ok	ok
tx source power	alert	alert	alert	ok	ok
tx source safety	ok	ok	ok	ok	ok
tx memory	ok	ok	ok	ok	ok
rx overall	ok	ok	ok	ok	ok
rx electronics	ok	ok	ok	ok	ok
rx sensitivity	ok	ok	ok	ok	ok
rx solar saturation	ok	ok	ok	ok	ok
rx voltage	ok	ok	ok	ok	ok
rx memory	ok	ok	ok	ok	ok

# Next steps

- Service
  - Upgrade the infrastructure to comply with CCRES needs
  - Make the service more robust
- Instruments
  - All type of instruments available
  - Next one MIRA-35
- Automatic alerts
  - More stress on infrastructure
  - Need to upgrade it before
  - Used to detect storage problem
  - Too many alerts





Thank you !