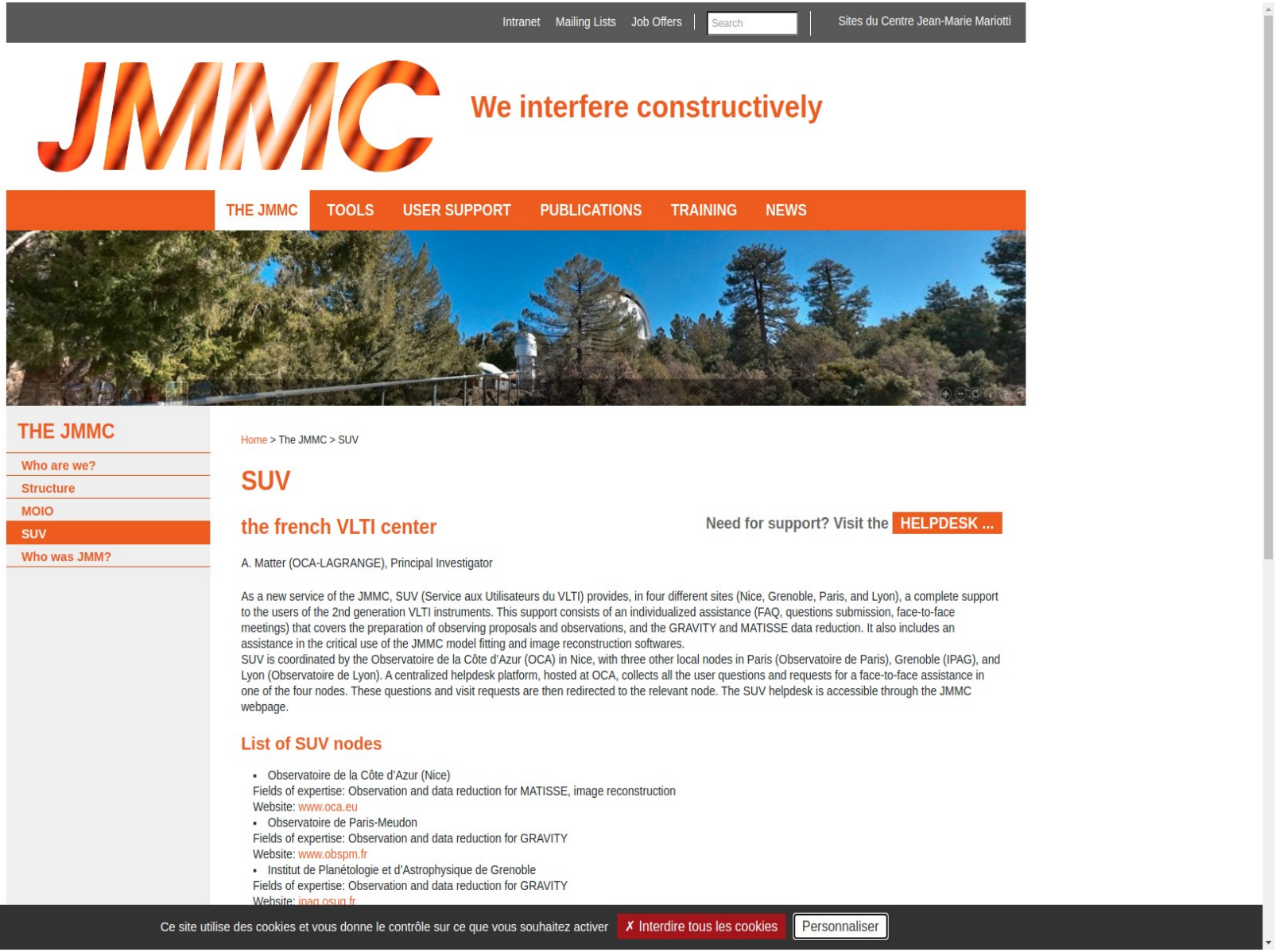
SUV

Service aux Utilisateurs du VLTI

Alexis Matter
Laboratoire J.-L. Lagrange - Observatoire de la Côte d'Azur

The SUV webpage

www.jmmc.fr./SUV



Available services / Access conditions

Available services

Local node

Local head

User support

Complete support for at least one instrument

Proposals and observations preparation → Data reduction → 1er expert opinion (image reconstruction and/or model fitting)

Data access and protection

Users →

Access : open to every researcher wanting to reduce a raw VLTI dataset to which they have access.

« Protection » : all data reduced with SUV → private OIDB collection → released 2 years after the observations

Available manpower (January 2021)

✔ Nice : 5 researchers

✔ Paris : 1 researcher

✔ Grenoble : 1 researcher

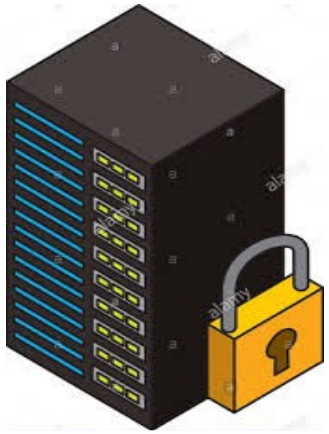
✔ Lyon : 4 researchers

Face-to-face assistance - data handling

SUV node

SUV expert (private machine)

ESO archive (Garching)



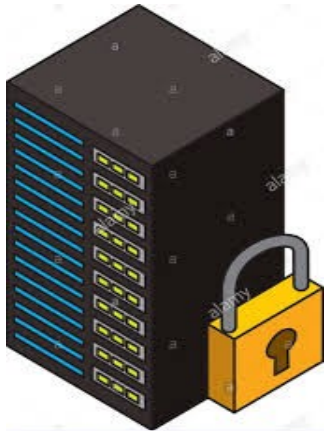
Centralized server (Nice)

Face-to-face assistance - data handling

SUV node

SUV expert (private machine)

ESO archive (Garching)



Remote connection

Centralized server (Nice)

Raw data

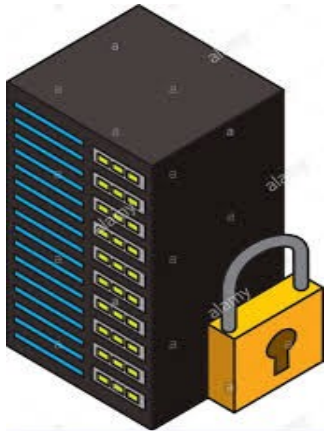
~ 300-400 Go per observing night

Face-to-face assistance - data handling

SUV node

SUV expert (private machine)

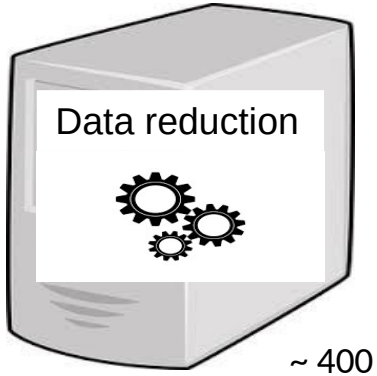
ESO archive (Garching)



Remote connection

Raw data

Centralized server (Nice)



~ 300-400 Go per observing night

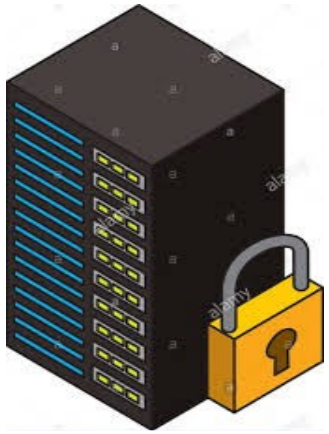
~ 400 Go per observing night
(intermediate products)

Face-to-face assistance - data handling

SUV node

SUV expert (private machine)

ESO archive (Garching)

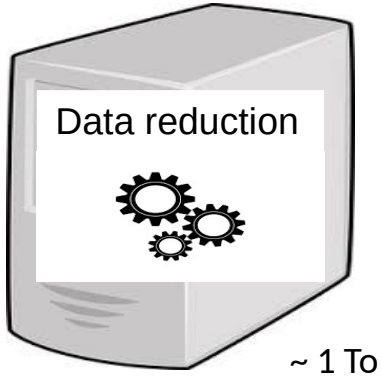


Centralized server (Nice)

Remote connection

Reduced data

Raw data



~ 1 To per observing night
(raw data + reduced data)

Reduced data

OiDB

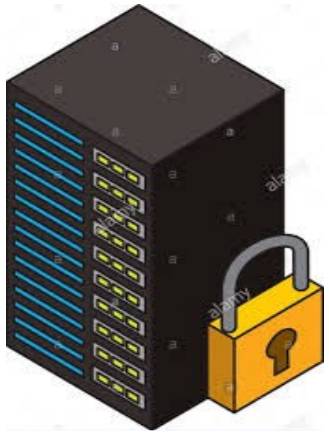
Private data collection
(data protected until first paper or until 2 years after the observations)

Face-to-face assistance - data handling

SUV node

SUV expert (private machine)

ESO archive (Garching)

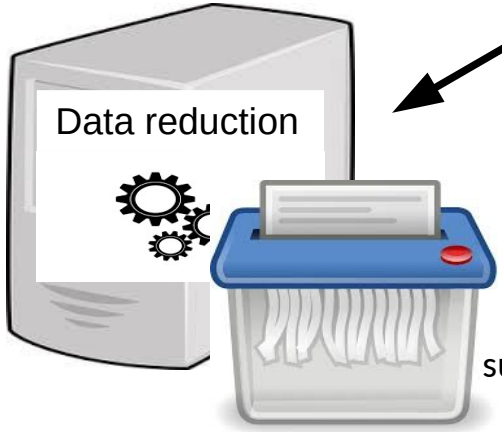


Centralized server (Nice)

Remote connection

Reduced data

Raw data



User data suppression

Reduced data

OiDB

Private data collection
(data protected until first paper)

Server + pipelines status

Centralized server

- Server (2*20 cores) is installed in the OCA mesocentre and accessible
- Currently : MATISSE data are processed on the matisse-oca machine

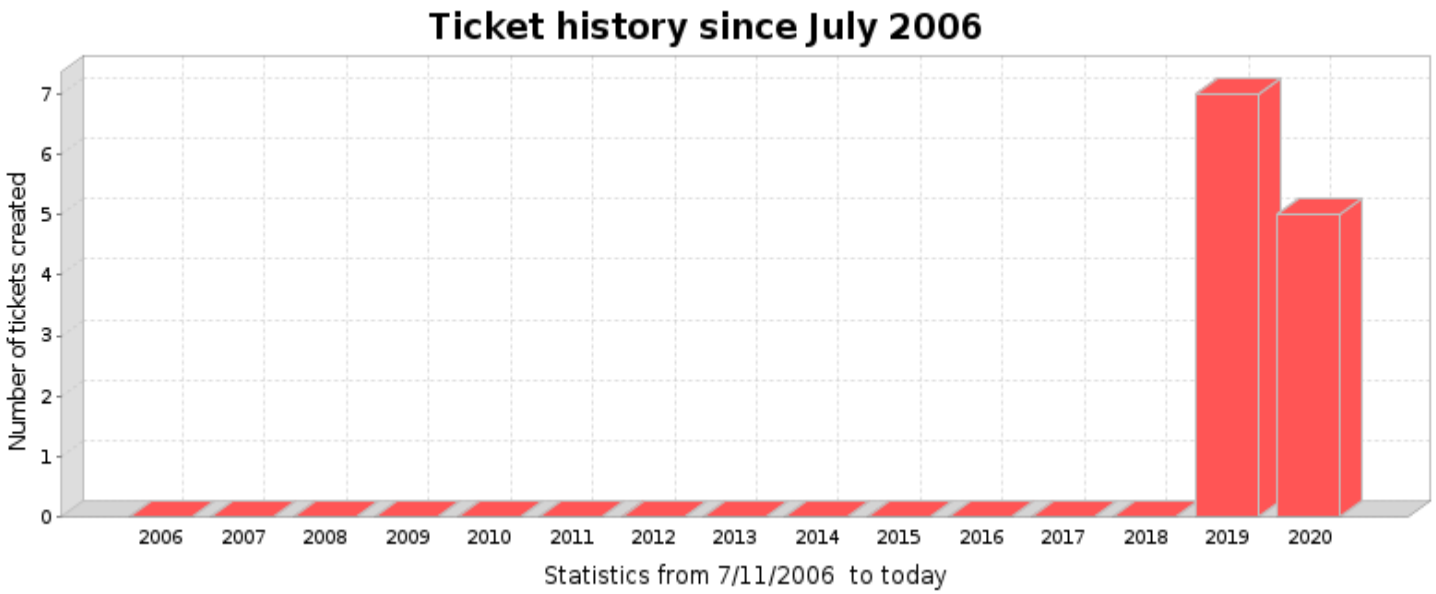
Pipelines

- On-going : Installation of the MATISSE pipeline + pre and post-processing Python scripts library
- **To be done soon : Installation of the GRAVITY pipeline (+ python scripts)**

Follow-up tools

SUV helpdesk

Tickets follow-up (tickets creation, reaction time, resolution time, ticket status)



7 tickets in 2019 (mostly test)
5 tickets in 2020

7 requests from VLTI users

Iterations planned with the OCA IT department to improve the tool

Follow-up tools

OIDB

- Current status (2020) : one reduced dataset put in OIDB
- Follow-up of SUV reduced data deposit in OIDB → which approach ?

Publications

- Current status (2020) : one peer-reviewed paper acknowledging SUV
- Follow up of the publications acknowledging the help of SUV
- Same tool as for papers acknowledging the use of the JMMC services (OIDB, JSDC, ….) ?

Perspectives 2021

Introductive documentation on interferometry

✔ Better handling of novice users

Visibility and access to SUV

✔ Increase info redundancy on VLTI centers on the ESO webpages (i.e in ‘contact information’ in the main page of MATISSE and GRAVITY)

✔ Homogeneization with the european network → common helpdesk platform or at least webpage

Communication actions

✔ Bulk mail to various mailing lists both french and international

✔ Bulk mail to all the VLTI Pis (since P103) to inform about our support service?

✔ Next VLTI school in Nice (June 2021)

Training actions on JMMC tools and instrument pipelines

✔ Homogeneity and optimization of user support

Longer-term perspectives

Systematic archiving of L3 interferometric data

✔ Generalized use of OIDB through the ‘VLTI center’ channel

Data reduction service ‘à la SPHERE data-center’

✔ Systematic processing of all VLTI data (after some deadline)

✔ Centralized server → the recent one installer in Nice ?

Merci !