Points techniques
Stats, Organisation

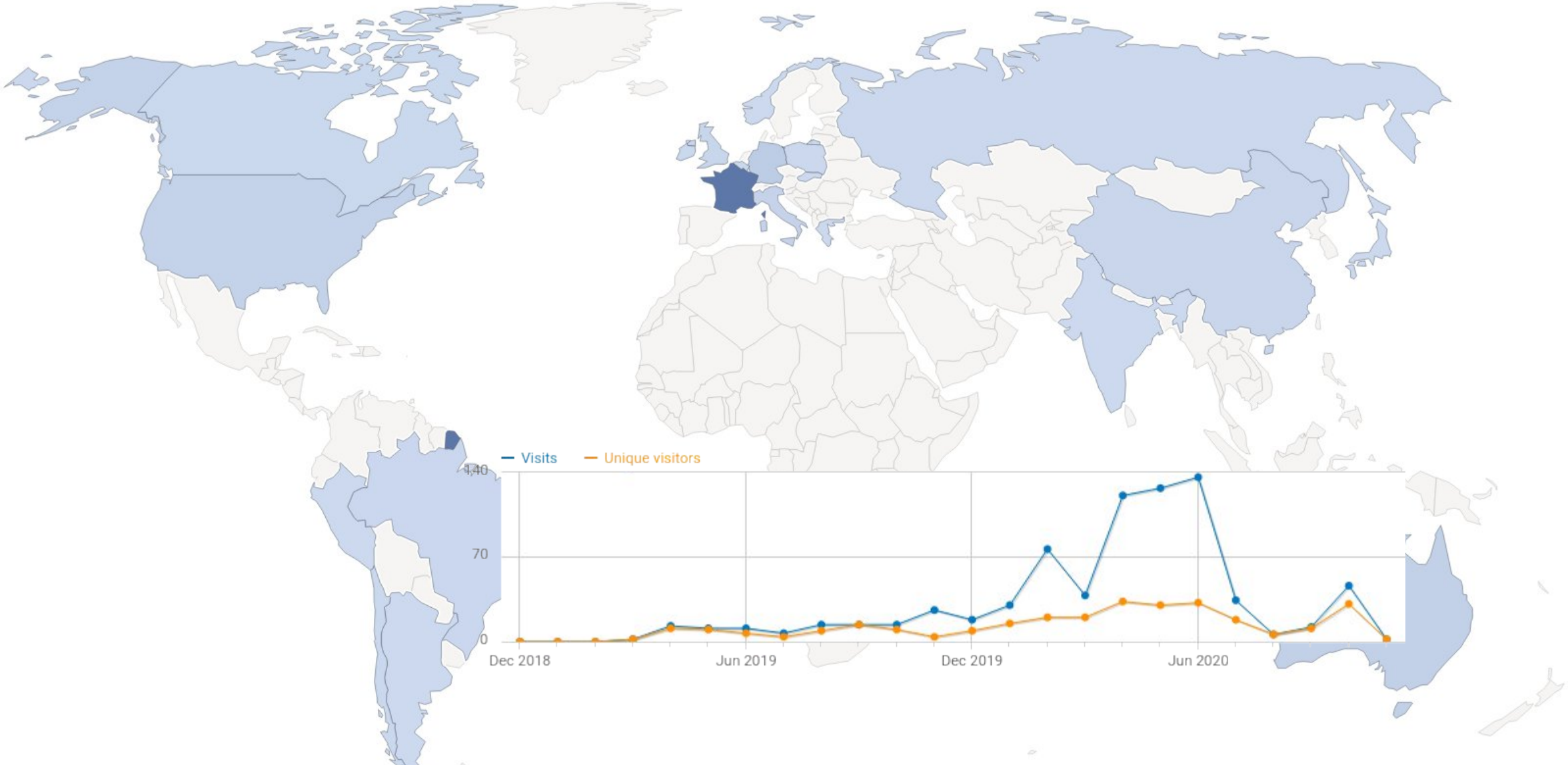
AG JMMC
4 décembre 2020

Statistiques d'utilisations

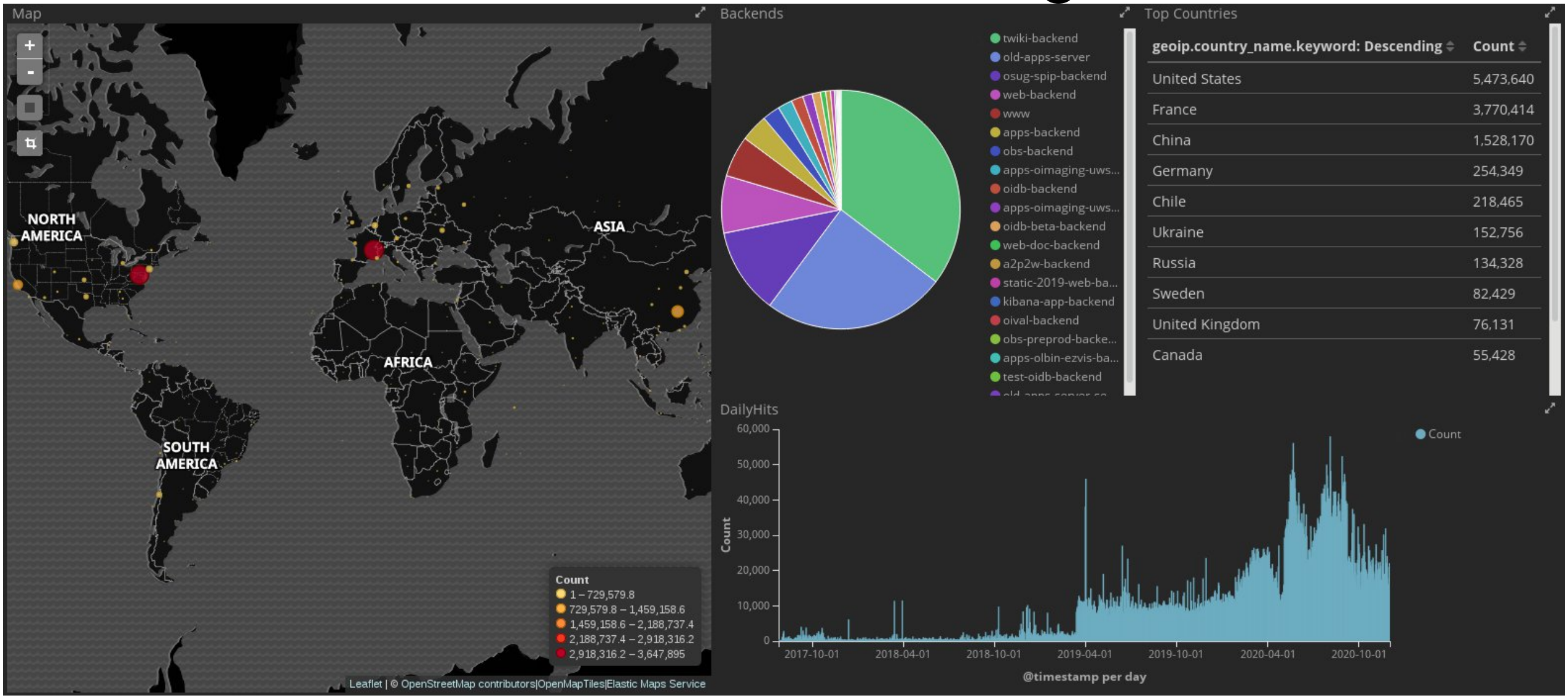
Visitor Map

625 visits

Utilisation des services hébergés à Nice

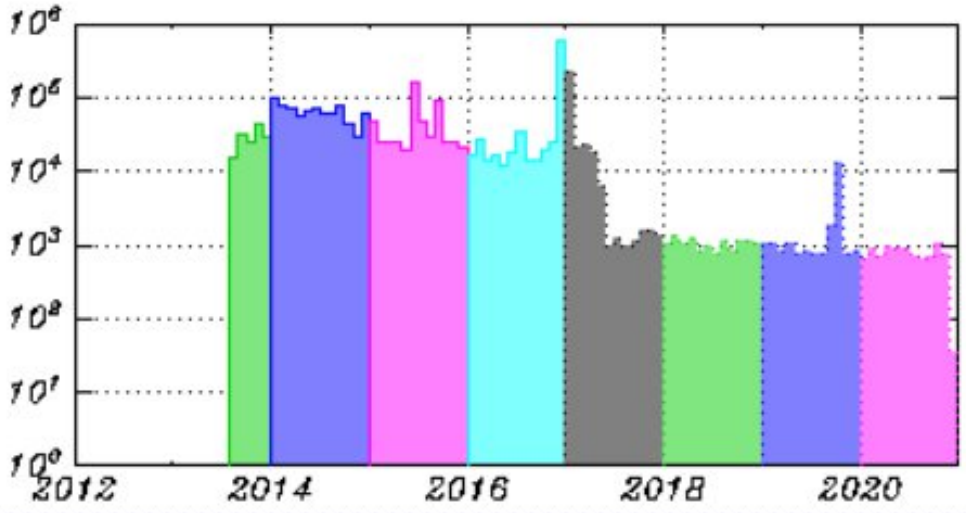


Utilisation des services hébergés à Grenoble

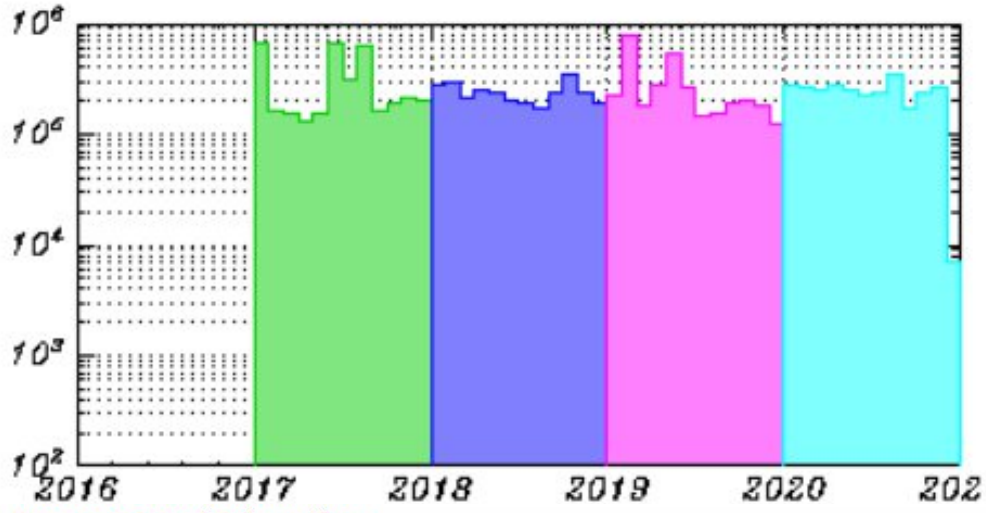


Popularité catalogues (source CDS) Catalogues et Service SearchCal

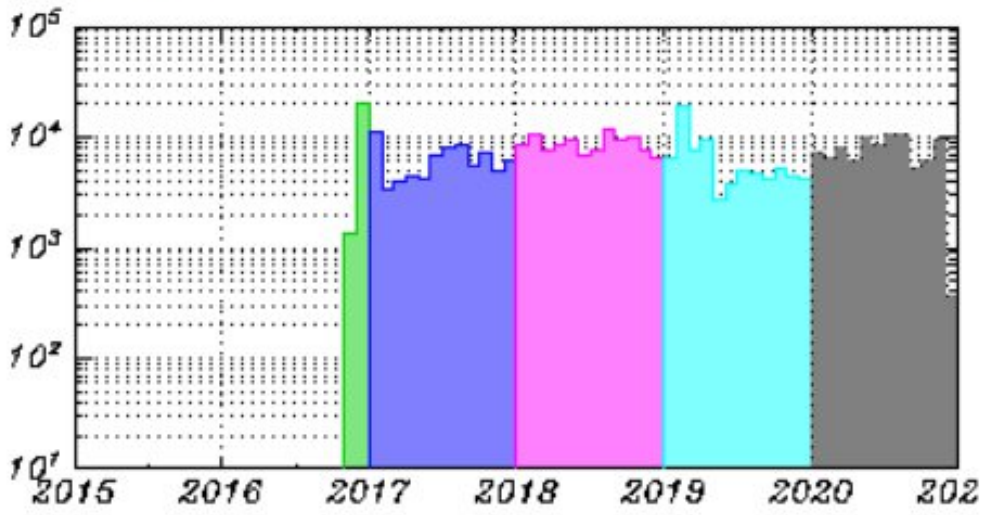
JSDC V1 II/300



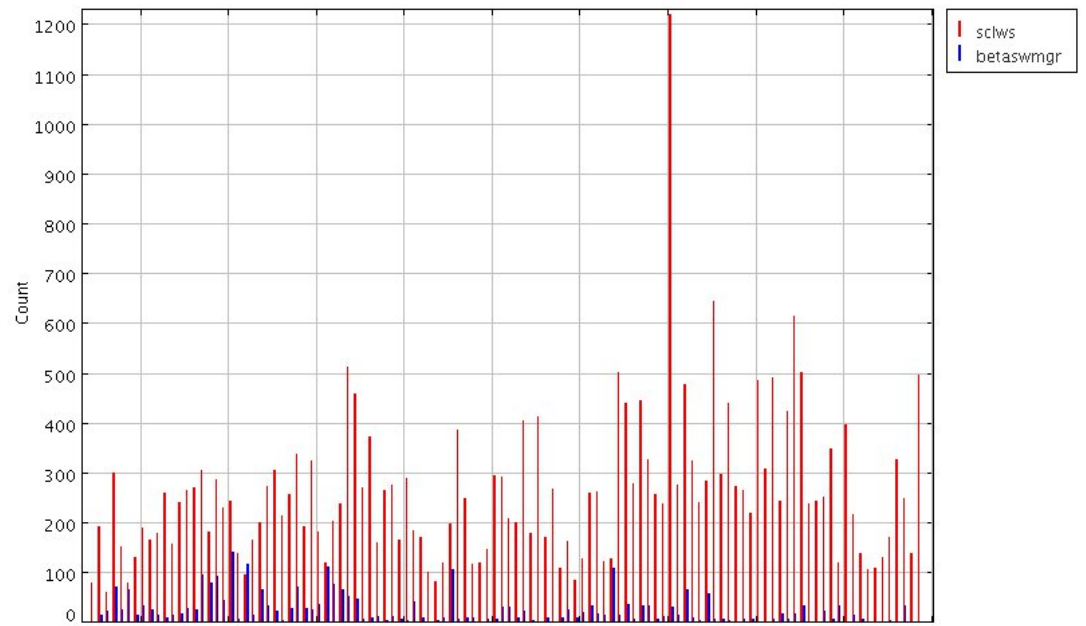
JSDC V2 II/346



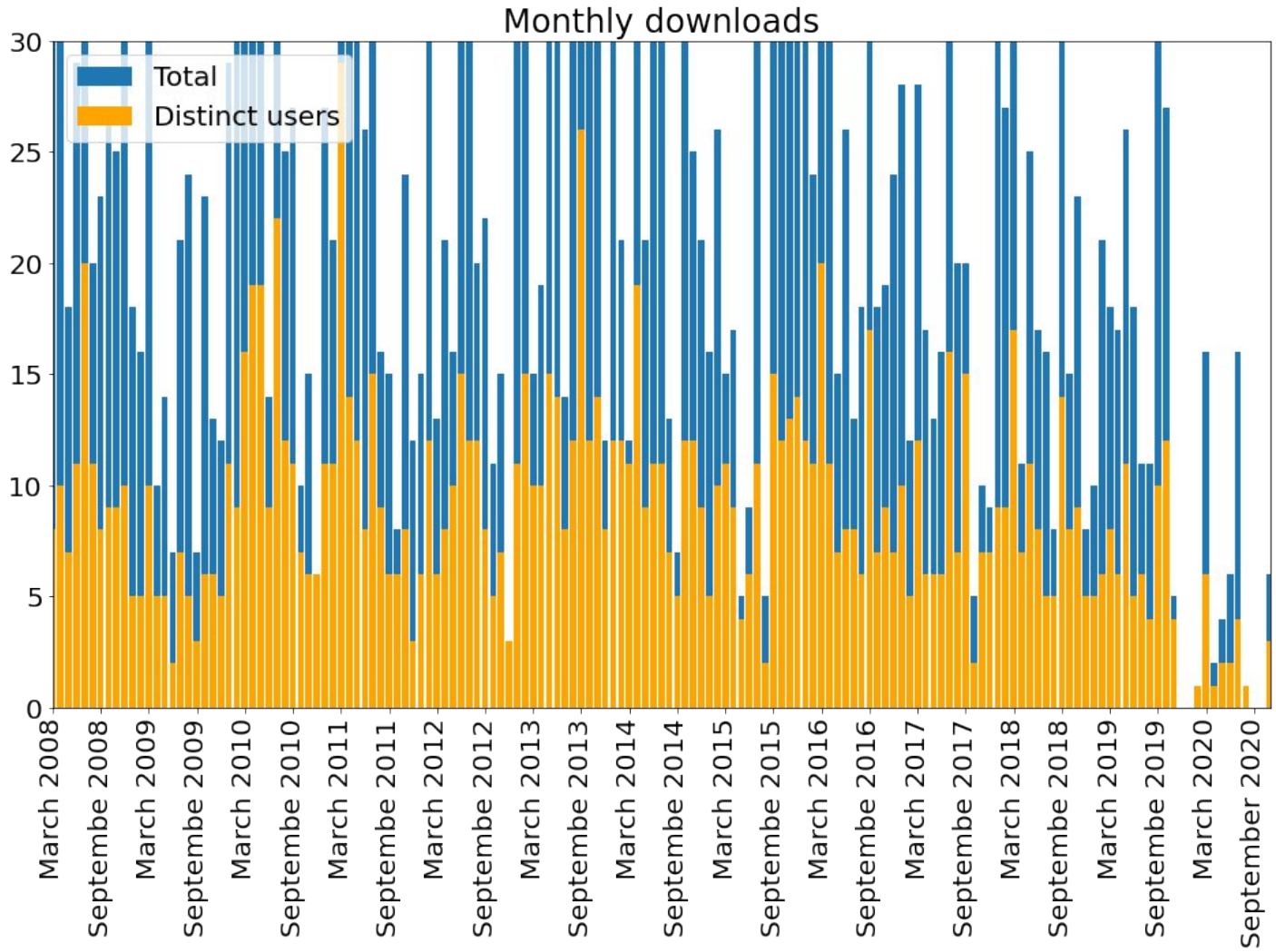
JMDC V1 II/345



Requetes SearchCal prod/beta



Logiciels en téléchargements



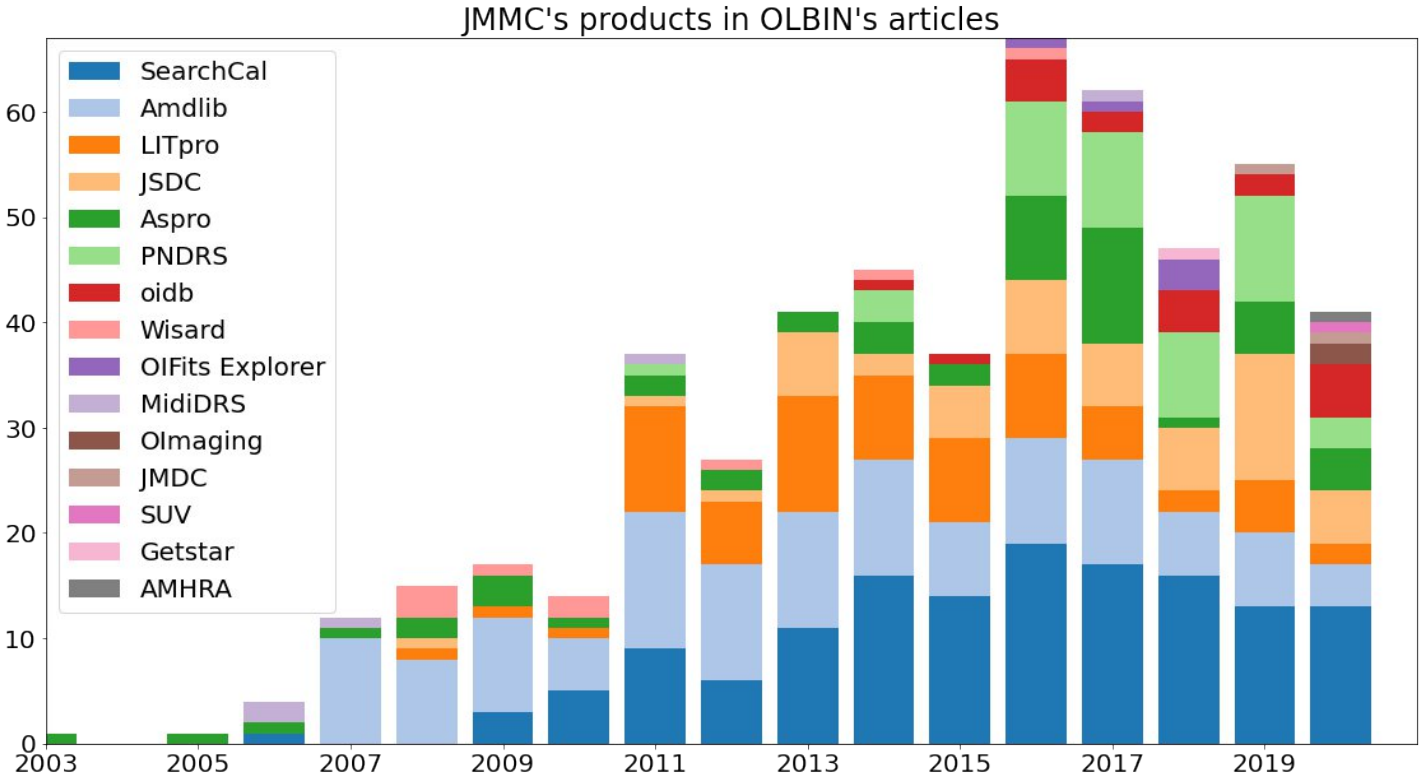
Téléchargement direct des applications JAVA depuis décembre 2019: https://www.jmmc.fr/releases/

Restent essentiellement les DRS: les plus anciens semblent encore fonctionner !

Statistiques de consultations

- à renforcer pour la partie consultation web
- difficulté de tout maintenir à jour au fur et à mesure des changements
- étude/souhait d'une solution mutualisée à l'OSUG-DC

Un meilleur suivi coté biblio !



cf. présentation "publications" pour plus de détails

Activités techniques

Les ingénieurs sur 2020 ~ 2 FTE, 3 sites

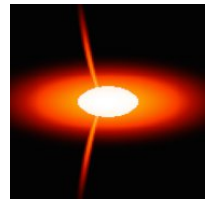
- **Laurent Bourgès** (80%) (IE UMS-OSUG depuis 2009.9 / OSUG-DC)
  - **Responsable technique**
  - Services ASPRO2 / Obs Portal, SearchCal / JSDC, OIFits Explorer & OImaging
- **Guillaume Mella** (90% de 80%) (IR UMS-OSUG depuis 2002) :
  - **Responsable Coordination et Infrastructure**
  - ModelFitting, OIVal, OiDB, A2P2, Infra, docmgr, publis, site JMDC, SPICA-DB à venir
- **Philippe Bollard** (CDD IPAG 50%: nov 2019 - mars 2020) :
  - Obs Portal
- **Christophe Ordenovic** (5%)**, Nicolas Bruot** (CDD 30%) (OCA Lagrange):
  - portail **AMHRA**
- **Grégory Salvignol** (1%) (IE CRAL) :
  - compétences BDD / web

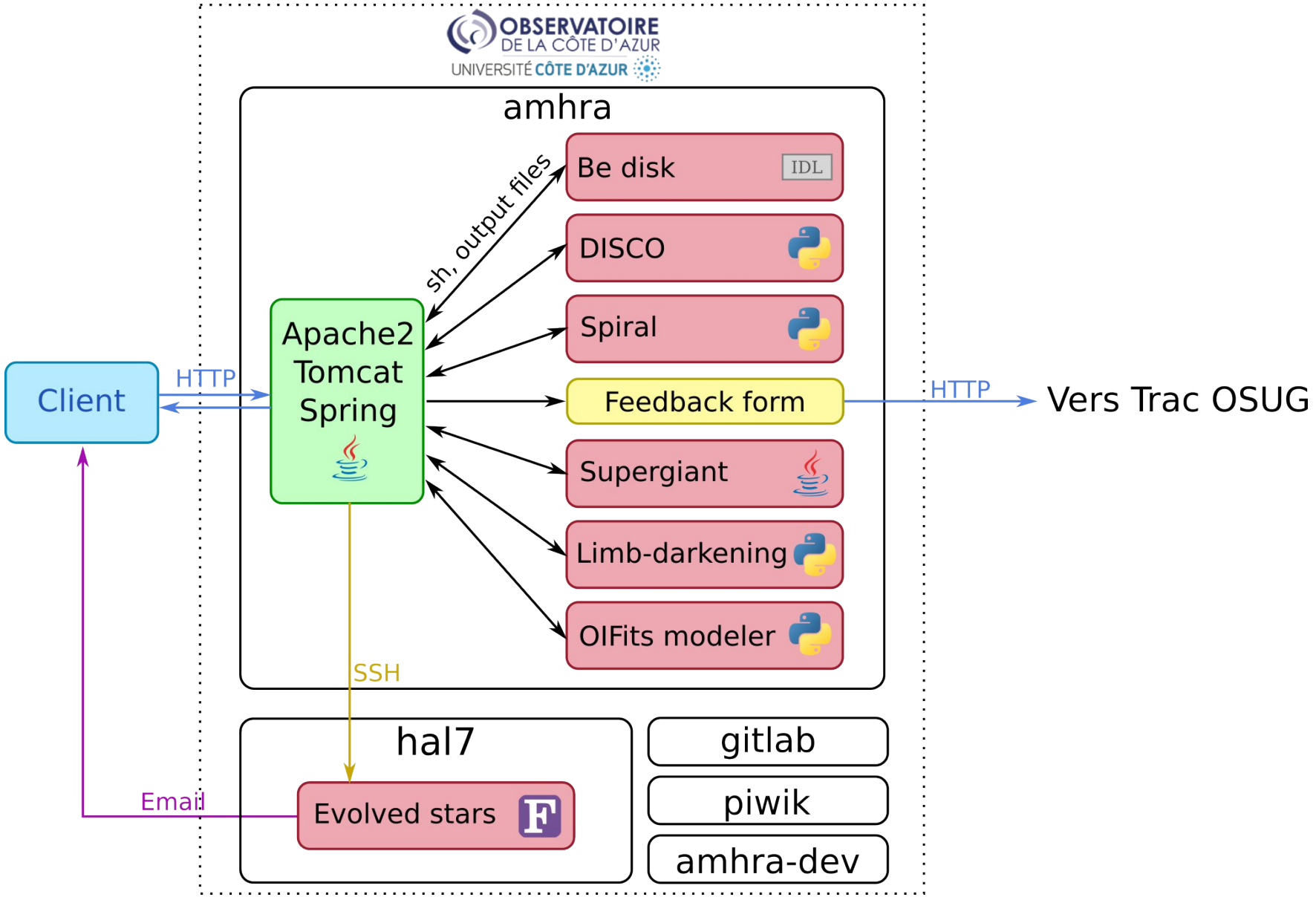
-> Nombreuses compétences:

- Java, C/C++, Web, python, XML, shell, linux, ansible, docker, formats FITS, outils & standards VO ...

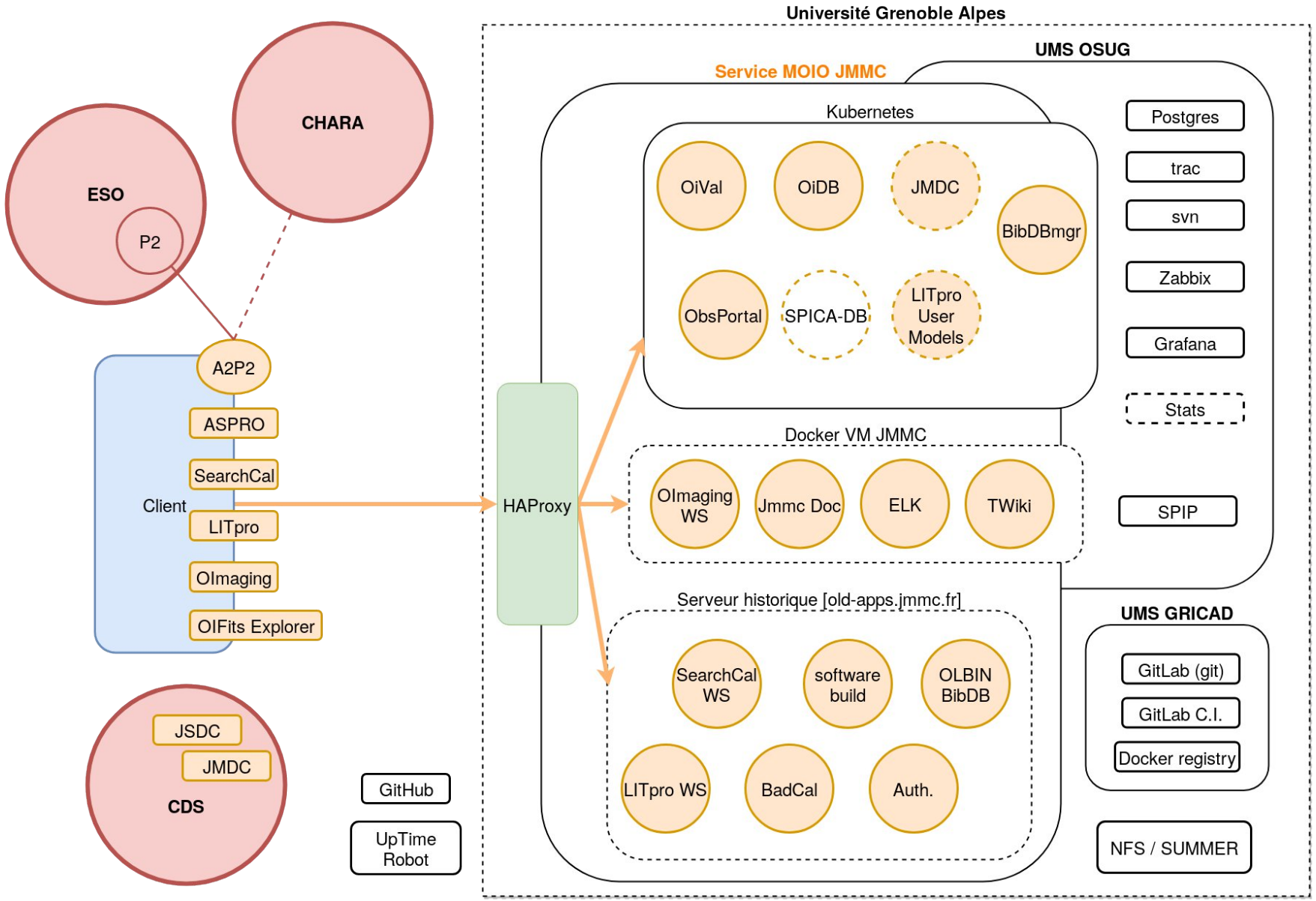
-> Nombreuses solutions et outils ...

Cartographie des serveurs / Nice: AMHRA





Cartographie des serveurs / Grenoble



Opérations sur plusieurs sites

- En lien avec les Centres d'Expertises Régionaux
  - OCA (DOMINO), OSUG (OSUG-DC),
  - avec l'OSUL à venir ?
- Des organisations humaines et techniques différentes
  - équipes vagues : labos / OSU / DSI Univ
  - technologies souvent non compatibles / transposables entre sites
- De premières réunions mensuelles inter-site lancées en 2020
  - masse critique insuffisante
  - besoin de plus de coordination ?

  -> favoriser l'interopérabilité des plateformes et développements entre CER (SSN?) ?

2020, la confinade

- Beaucoup moins d'interactions dans les groupes / inter-sites
- Passage en visio-conf jmmc-tech-group
  - moins interactif qu'en présentiel / discussions informelles moins spontanées / brainstormings moins percutants
  - télétravail plus efficace ? (on préfère le vrai tableau blanc)
  - plus de flexibilité pour participer aux confs virtuelles (INTEROP)
- Réalisations:
  - Obs Portal, intégré avec ASPRO2
  - OiDB 2.0
  - JSDC 3.0 (en cours) ...

2021, la relance ?

- Projets SPICA-DB, LITpro / Oimaging (MFIR)
- Pistes : mieux partager la roadmap / actions en cours
  - qui regarde les CR des réunions de groupes, de PIs, hebdomadaires ?
- Gitlab, un dénominateur commun ?
  - trac/svn "dépassés" -> utiliser les boards gitlab comme "support de gestion projet"
  - github sous-utilisé mais utile pour "ouvrir les codes" ...
- Créer un canal de communication instantanée #JMMC ?
  (ou une mailing liste jmmc-forum@jmmc.fr)

Comment améliorer la pérennité et cohérence inter-site ?

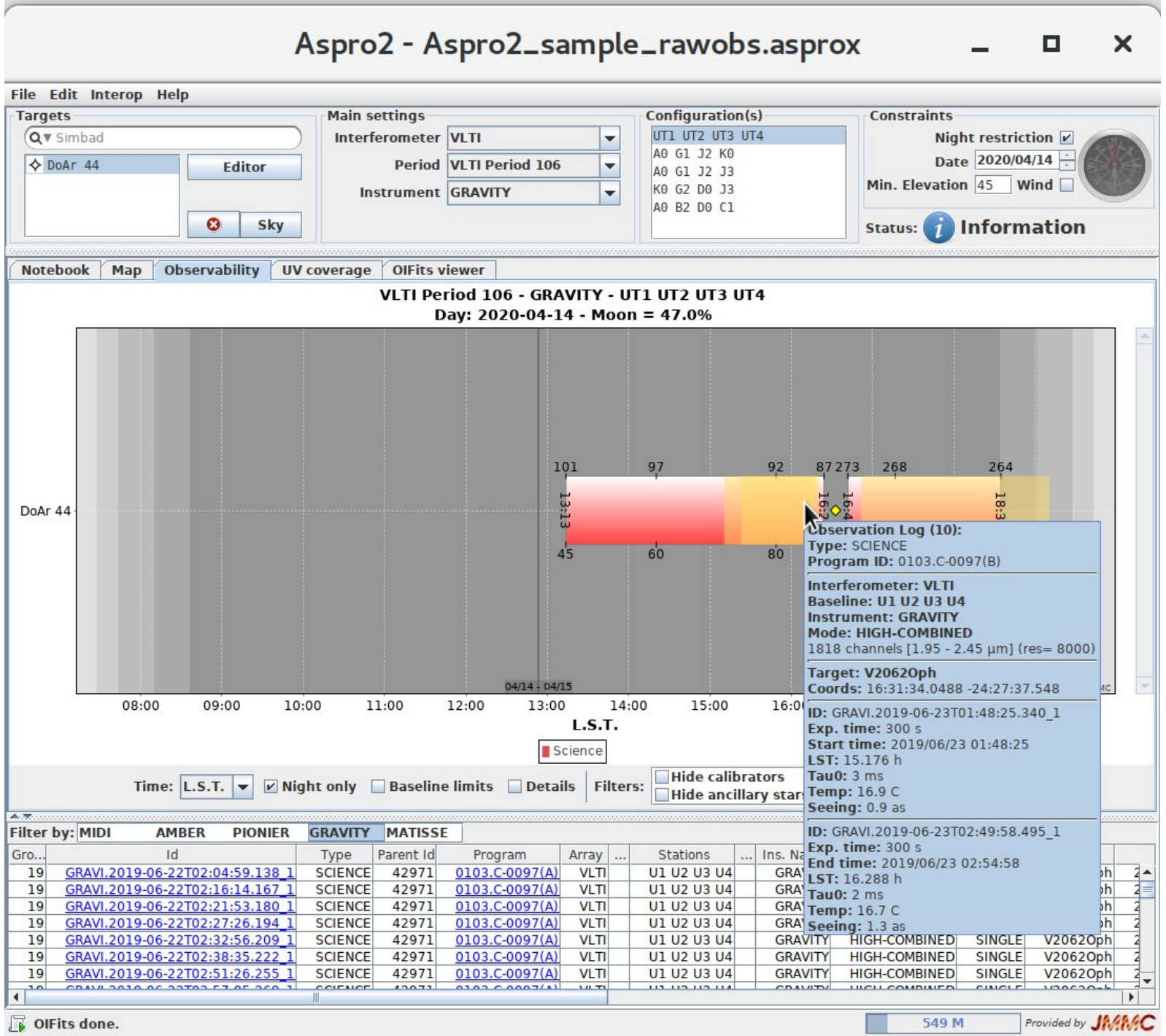
Peut-on compter sur un renfort ingénieur affecté JMMC ?

Place aux démos

ASPRO 2 - Obs Portal

Suivi des observations VLTI dans ASPRO2

http://www.jmmc.fr/twiki/bin/view/Jmmc/Software/JmmcAspro2#Get_Information_about_past_obser


Aspro2 - Aspro2_sample_rawobs.asprox
File Edit Interop Help
Targets
Simbad
DoAr 44
Editor
Sky
Main settings
Interferometer VLTI
Period VLTI Period 106
Instrument GRAVITY
Configuration(s)
UT1 UT2 UT3 UT4
A0 G1 J2 K0
A0 G1 J2 J3
K0 G2 D0 J3
A0 B2 D0 C1
Constraints
Night restriction
Date 2020/04/14
Min. Elevation 45 Wind
Status: Information
Notebook Map Observability UV coverage OIFits viewer
VLTI Period 106 - GRAVITY - UT1 UT2 UT3 UT4
Day: 2020-04-14 - Moon = 47.0%
DoAr 44
101 97 92 87 273 268 264
13:13 16:2 16:4 18:3
45 60 80
04/14 - 04/15
08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00
L.S.T.
Science
Observation Log (10):
Type: SCIENCE
Program ID: 0103.C-0097(B)
Interferometer: VLTI
Baseline: U1 U2 U3 U4
Instrument: GRAVITY
Mode: HIGH-COMBINED
1818 channels [1.95 - 2.45 µm] (res= 8000)
Target: V2062Oph
Coords: 16:31:34.0488 -24:27:37.548
ID: GRAVI.2019-06-23T01:48:25.340_1
Exp. time: 300 s
Start time: 2019/06/23 01:48:25
LST: 15.176 h
Tau0: 3 ms
Temp: 16.9 C
Seeing: 0.9 as
ID: GRAVI.2019-06-23T02:49:58.495_1
Exp. time: 300 s
End time: 2019/06/23 02:54:58
LST: 16.288 h
Tau0: 2 ms
Temp: 16.7 C
Seeing: 1.3 as
Time: L.S.T. Night only Baseline limits Details Filters: Hide calibrators
Filter by: MIDI AMBER PIONIER GRAVITY MATISSE
Gro... Id Type Parent Id Program Array ... Stations ... Ins. Na
19 GRAVI.2019-06-22T02:04:59.138_1 SCIENCE 42971 0103.C-0097(A) VLTI U1 U2 U3 U4
19 GRAVI.2019-06-22T02:16:14.167_1 SCIENCE 42971 0103.C-0097(A) VLTI U1 U2 U3 U4
19 GRAVI.2019-06-22T02:21:53.180_1 SCIENCE 42971 0103.C-0097(A) VLTI U1 U2 U3 U4
19 GRAVI.2019-06-22T02:27:26.194_1 SCIENCE 42971 0103.C-0097(A) VLTI U1 U2 U3 U4
19 GRAVI.2019-06-22T02:32:56.209_1 SCIENCE 42971 0103.C-0097(A) VLTI U1 U2 U3 U4 GRAVITY HIGH-COMBINED SINGLE V2062Oph
19 GRAVI.2019-06-22T02:38:35.222_1 SCIENCE 42971 0103.C-0097(A) VLTI U1 U2 U3 U4 GRAVITY HIGH-COMBINED SINGLE V2062Oph
19 GRAVI.2019-06-22T02:51:26.255_1 SCIENCE 42971 0103.C-0097(A) VLTI U1 U2 U3 U4 GRAVITY HIGH-COMBINED SINGLE V2062Oph
OIFits done.
549 M
Provided by JMMC

Aspro2 - Aspro2_sample_rawobs.asprox

File Edit Interop Help

Targets
Simbad
DoAr 44
Editor
Sky

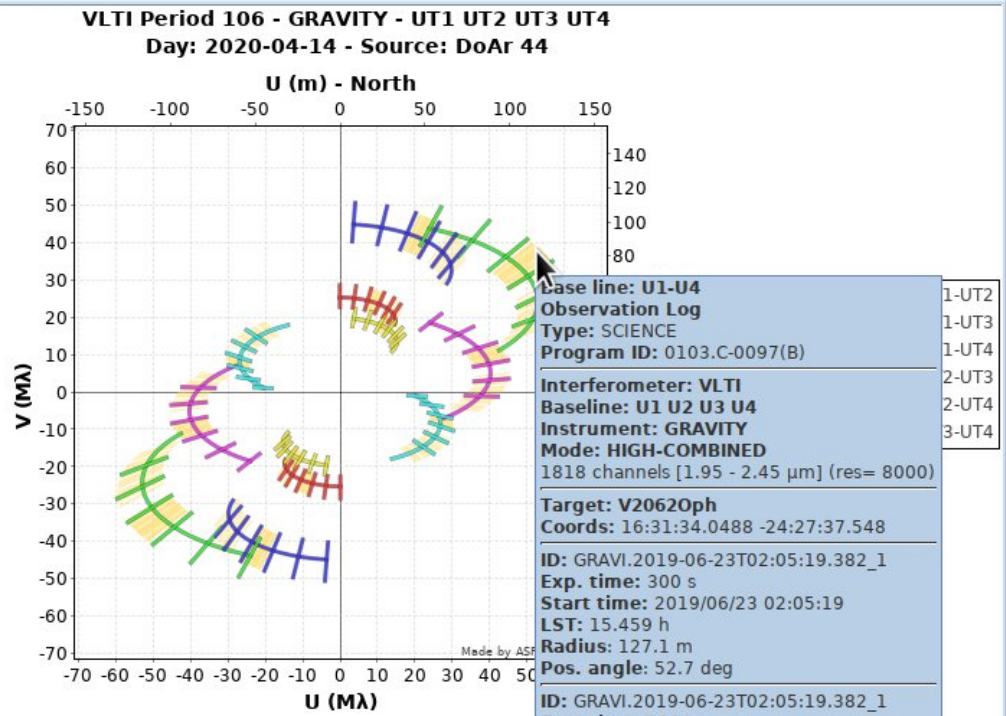
Main settings
Interferometer: VLTI
Period: VLTI Period 106
Instrument: GRAVITY

Configuration(s)
UT1 UT2 UT3 UT4
A0 G1 J2 K0
A0 G1 J2 J3
K0 G2 D0 J3
A0 B2 D0 C1

Constraints
Night restriction
Date: 2020/04/14
Min. Elevation: 45 Wind
Status: Information

Notebook | Map | Observability | UV coverage | OIFits viewer

Instrument mode: LOW-COMBINED
AO setup: MACAO
Atmosphere quality: Average
Fringe tracker mode: FringeTrack GRAVITY
U-V range to plot (m): 139.06
Sampling Periodicity (min): 60
Total Integration time (s): 600
HA min: -3.32 -12.00
HA max: 2.03 12.00
Plot rise/set uv tracks
Underplot a model image
Plot what ... AMP
Compute OIFits data



Base line: U1-U4
Observation Log
Type: SCIENCE
Program ID: 0103.C-0097(B)

Interferometer: VLTI
Baseline: U1 U2 U3 U4
Instrument: GRAVITY
Mode: HIGH-COMBINED
1818 channels [1.95 - 2.45 µm] (res= 8000)

Target: V2062Oph
Coords: 16:31:34.0488 -24:27:37.548

ID: GRAVI.2019-06-23T02:05:19.382_1
Exp. time: 300 s
Start time: 2019/06/23 02:05:19
LST: 15.459 h
Radius: 127.1 m
Pos. angle: 52.7 deg

ID: GRAVI.2019-06-23T02:05:19.382_1
Exp. time: 300 s
End time: 2019/06/23 02:10:19
LST: 15.542 h
Radius: 127.6 m
Pos. angle: 53.4 deg
Tau0: 3 ms
Temp: 16.9 C
Seeing: 0.8 as

Filter by: MIDI AMBER PIONIER GRAVITY MATISSE

Gro...	Id	Type	Parent Id	Program	Array	...	Stations	...	Ins. Nar			
19	GRAVI.2019-06-22T02:04:59.138_1	SCIENCE	42971	0103.C-0097(A)	VLTI		U1 U2 U3 U4		GRAVI			
19	GRAVI.2019-06-22T02:16:14.167_1	SCIENCE	42971	0103.C-0097(A)	VLTI		U1 U2 U3 U4		GRAVI			
19	GRAVI.2019-06-22T02:21:53.180_1	SCIENCE	42971	0103.C-0097(A)	VLTI		U1 U2 U3 U4		GRAVI			
19	GRAVI.2019-06-22T02:27:26.194_1	SCIENCE	42971	0103.C-0097(A)	VLTI		U1 U2 U3 U4		GRAVI			
19	GRAVI.2019-06-22T02:32:56.209_1	SCIENCE	42971	0103.C-0097(A)	VLTI		U1 U2 U3 U4		GRAVITY	HIGH-COMBINED	SINGLE	V2062Oph
19	GRAVI.2019-06-22T02:38:35.222_1	SCIENCE	42971	0103.C-0097(A)	VLTI		U1 U2 U3 U4		GRAVITY	HIGH-COMBINED	SINGLE	V2062Oph
19	GRAVI.2019-06-22T02:51:26.255_1	SCIENCE	42971	0103.C-0097(A)	VLTI		U1 U2 U3 U4		GRAVITY	HIGH-COMBINED	SINGLE	V2062Oph

OIFits done.
510 M
Provided by JMMC

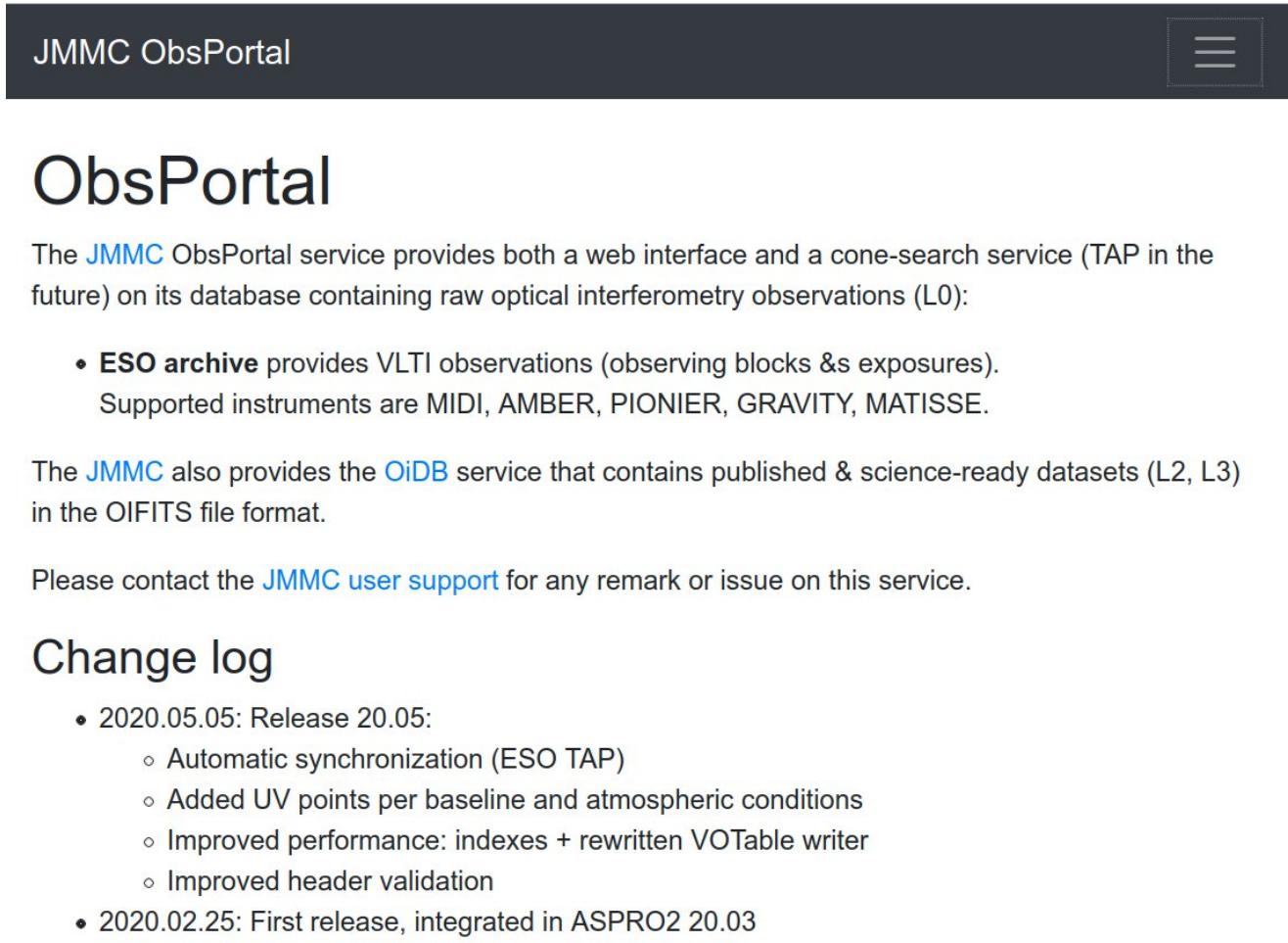
JMMC Obs Portal

http://obs.jmmc.fr/

- Python/Postgres web app

- Observation Logs VLTI
  - all instruments
  - ESO sync every day (TAP)
- OiDB sync : L0 ESO

- Future:
  - Better Log filtering in ASPRO2
  - Ingest SPICA / CHARA logs



JSDC 3 / SearchCal 6

Mise à jour du catalogue JSDC avec

SIMBAD / GAIA DR2 / MDFC

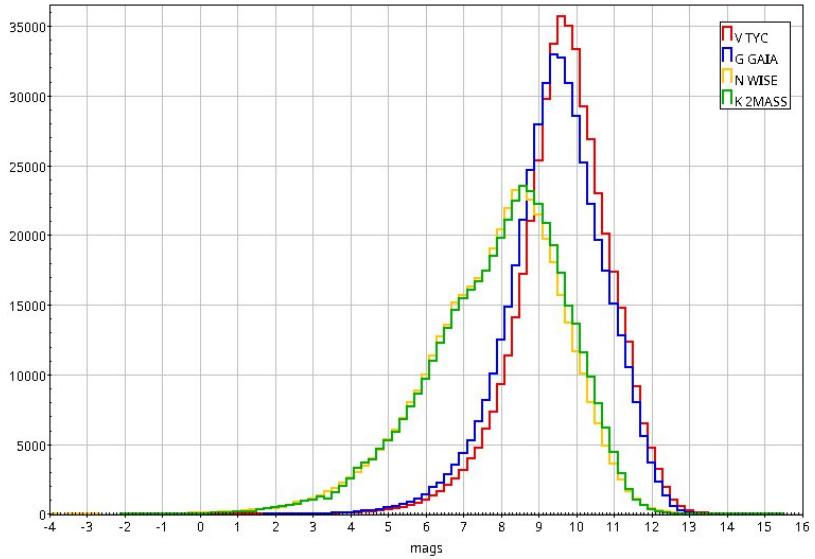
Nouveautés JSDC3 : 475 000 étoiles ...

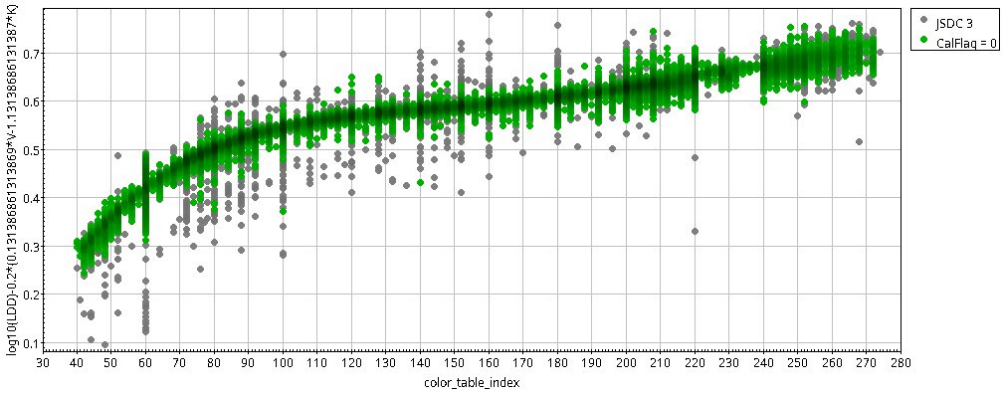
- Changements:
  - Crossmatch +++ : best in 3as neighbourhood + XM flags = No duplicates. "CalFlag bit 3 set if the star has neighbours within 0.5 as (GAIA) or 1.0 as (2MASS)"
  - Données: SIMBAD, GAIA DR2 (ra/dec, pm, teff, dist), MDFC (flag, flux)
  - *Lower memory: (Array of Struct) vs (pointer overhead): 2x smaller !*
  - *JSDC3 EA* : http://jmmc.fr/~bourgesl/sclsvr_JSDC/JSDC_2020/LAST/
- Perspectives:
  - Catalogue annexe Faint : 2m étoiles (no sp type) ?
  - Update GAIA Early DR3 ?
  - SearchCal 6 EA: 2021 ? GetStar EA
  - Exploitation JMDC et nouvelles couleurs avec GAIA (G, Bp, Rp) + All Wise (L, M, N) : étude scientifique à démarrer (volontaires ?)
  - Ouvrir le code sur github en GPL2 (mcs, scl-server, scl-gui) et les procedures STILTS (prepare candidates, filter catalog, compare ...)

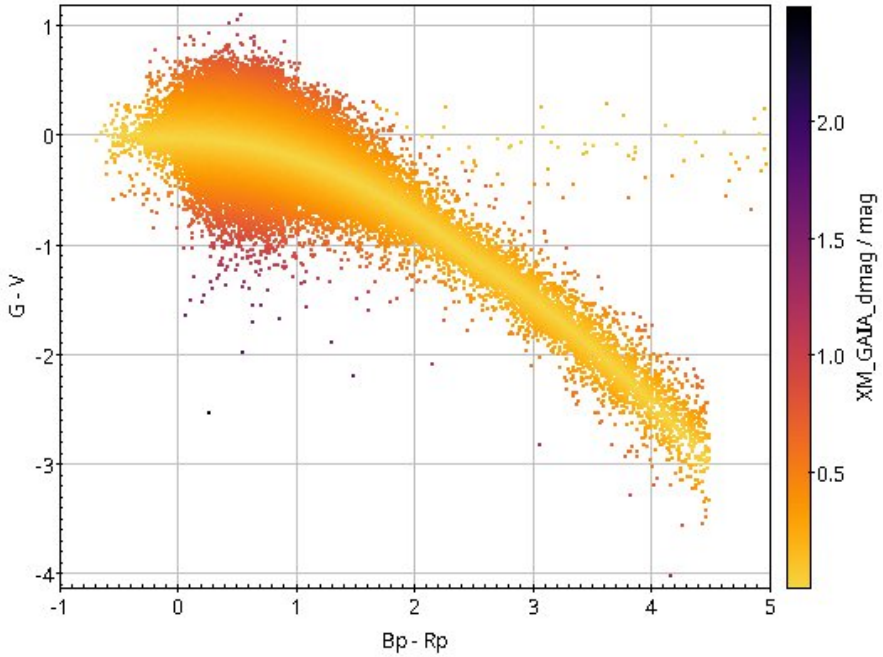
JSDC 3 EA:

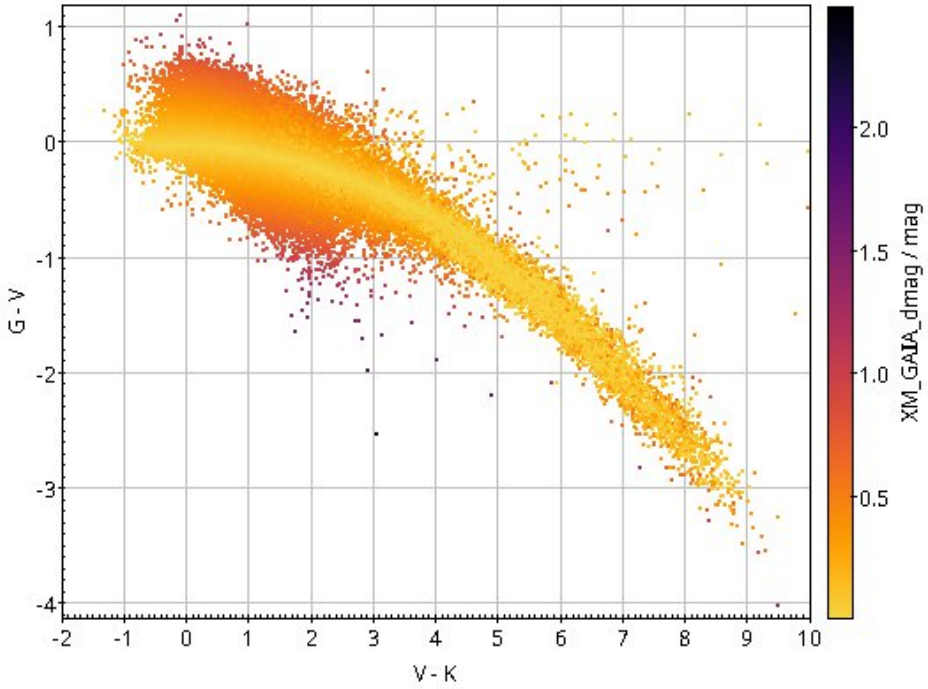
Total Rows: 474963

column	good
SIMBAD	474963
GAIA	471475
TYC1	473651
TYC2	473651
TYC3	474963
2MASS	474963
WISE	470294
AKARI	153541
HD	245091
HIP	105272
DM	348198
SBC9	2454
WDS	39400









New cols

XMATCH_LOG(String) - xmatch log (internal JMMC)

XMATCH_MAIN_FLAG(Integer) - xmatch flags for main catalogs (ASCC, GAIA, 2MASS) (internal JMMC)

XMATCH_ALL_FLAG(Integer) - xmatch flags for all catalogs (internal JMMC)

XM_SIMBAD_sep(Double)/as - Angular Separation of the first object in SIMBAD

XM_ASCC_n_mates(Integer) - Number of mates within 3 as in ASCC catalog

XM_ASCC_sep(Double)/as - Angular Separation of the first object in ASCC catalog

XM_ASCC_sep_2nd(Double)/as - Angular Separation between first and second objects in ASCC catalog

XM_HIP_n_mates(Integer) - Number of mates within 3 as in HIP1/2 catalogs

XM_HIP_sep(Double)/as - Angular Separation of the first object in HIP1/2 catalogs

XM_2MASS_n_mates(Integer) - Number of mates within 3 as in 2MASS catalog

XM_2MASS_sep(Double)/as - Angular Separation of the first object in 2MASS catalog

XM_2MASS_sep_2nd(Double)/as - Angular Separation between first and second objects in 2MASS catalog

XM_WISE_n_mates(Integer) - Number of mates within 3 as in WISE catalog

XM_WISE_sep(Double)/as - Angular Separation of the first object in WISE catalog

XM_WISE_sep_2nd(Double)/as - Angular Separation between first and second objects in WISE catalog

XM_GAIA_n_mates(Integer) - Number of mates within 3 as in GAIA catalog

XM_GAIA_score(Double) - Score mixing angular separation and magnitude difference of the first object in GAIA catalog

XM_GAIA_sep(Double)/as - Angular Separation of the first object in GAIA catalog

XM_GAIA_dmag(Double)/mag - Magnitude difference in V band (Vest - Vref) derived from GAIA (G, Bp, Rp) laws

XM_GAIA_sep_2nd(Double)/as - Angular Separation between first and second objects in GAIA catalog

GAIA(String) - GAIA DR2 identifier, click to call VizieR on this object

gaia_Teff(Double)/K - GAIA: Stellar effective temperature (estimate from Apsis-Priam)

gaia_dist(Double)/pc - GAIA: Estimated distance

Bp(Double)/mag - GAIA: Integrated Bp mean magnitude (Vega)

G(Double)/mag - GAIA: G-band mean magnitude (Vega)

Rp(Double)/mag - GAIA: Integrated Rp mean magnitude (Vega)

New cols

IRFlag(Integer) - MDFC: IR Flag (bit field):

bit 0 is set if the star shows an IR excess, identified thanks to the [K-W4] and [J-H] color indexes, and the overall MIR excess statistic X MIR computed from Gaia DR1;

bit 1 is set if the star is extended in the IR, indicated by the extent flags reported in the WISE/AllWISE and AKARI catalogues;

bit 2 is set if the star is a likely variable in the MIR, identified by the variability flags reported in the WISE/AllWISE catalogues, the MSX6C Infrared Point Source Catalogue, the IRAS PSC, and the 10-micron Catalog.

Lflux_med(Double)/Jy - MDFC: Median flux value in band L

Mflux_med(Double)/Jy - MDFC: Median flux value in band M

Nflux_med(Double)/Jy - MDFC: Median flux value in band N

Comp(String) - Component (SBC9) or Components (WDS), when the object has more than two. Traditionally, these have been designated in order of separation, thus AB, AC,...., or in the cases where close pairs are observed blended, AB-C, AB-D,.... In some instances, differing resolution limits produce situations where observations are intermixed, thus AC, AB - C, ... There are also many instances where later observations have revealed a closer companion; these are designated Aa, Bb, etc.