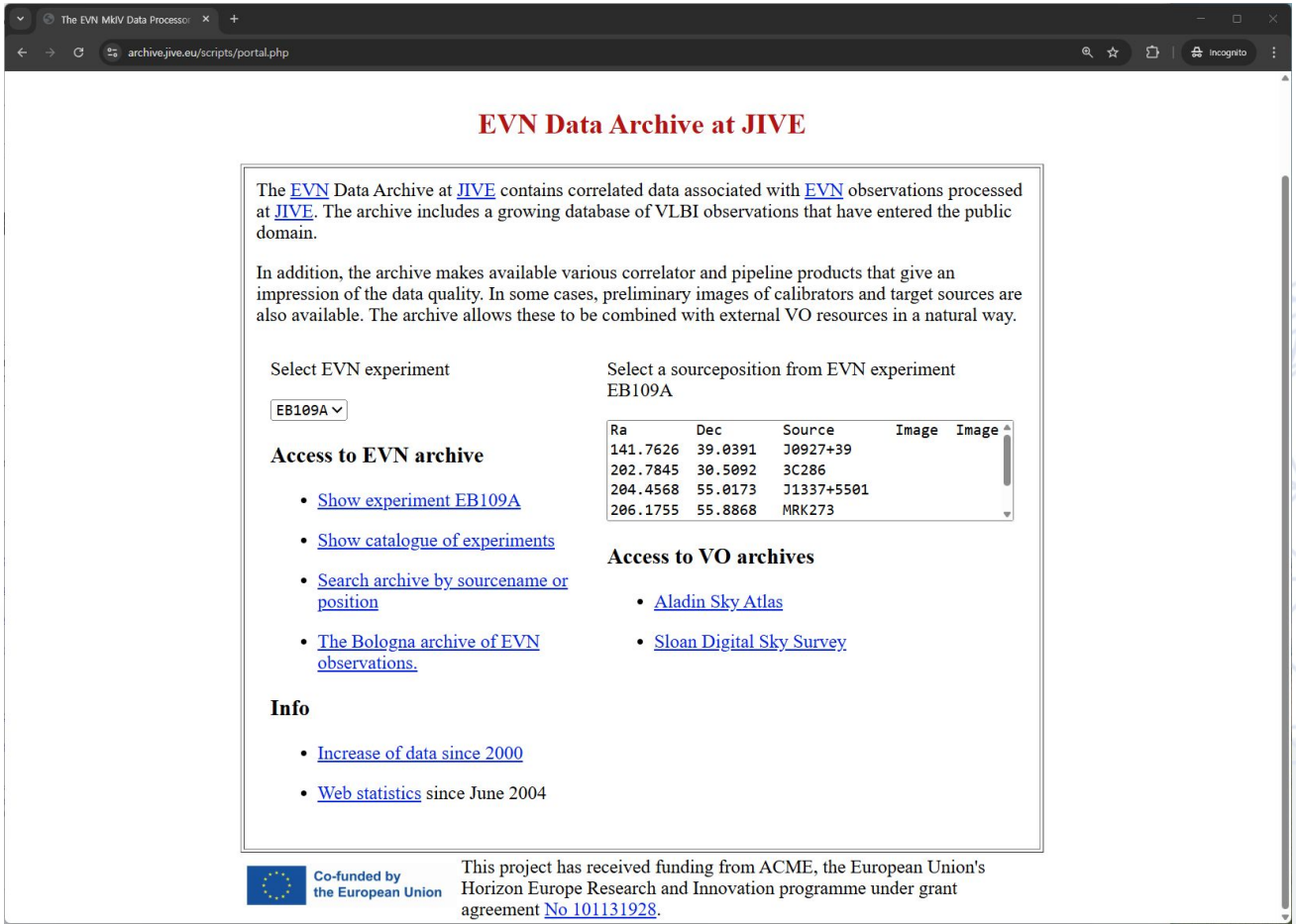
Introducing EVN archive

Junghwan Oh

Joint Institute for VLBI ERIC

JVS 2025

archive.jive.eu



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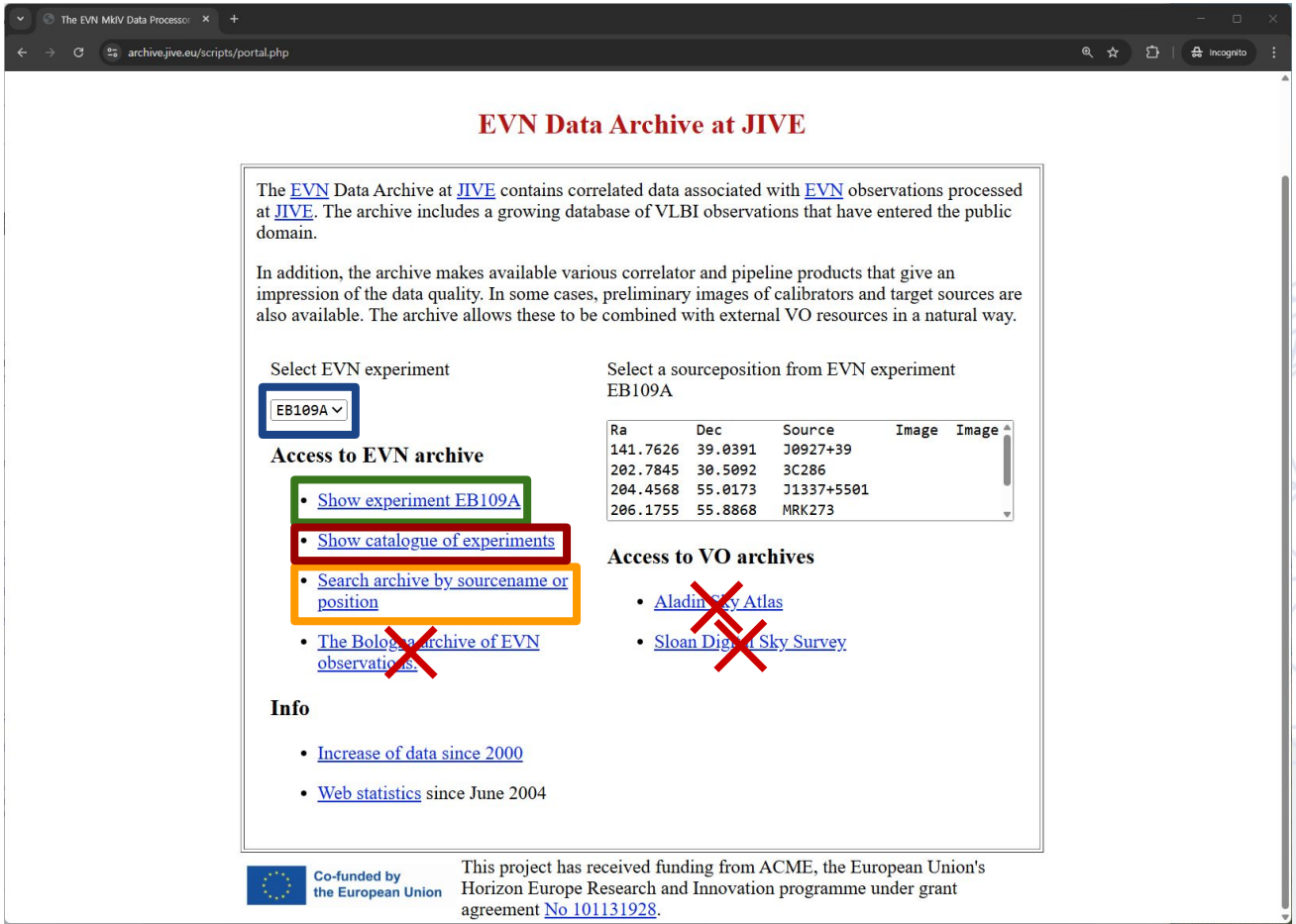

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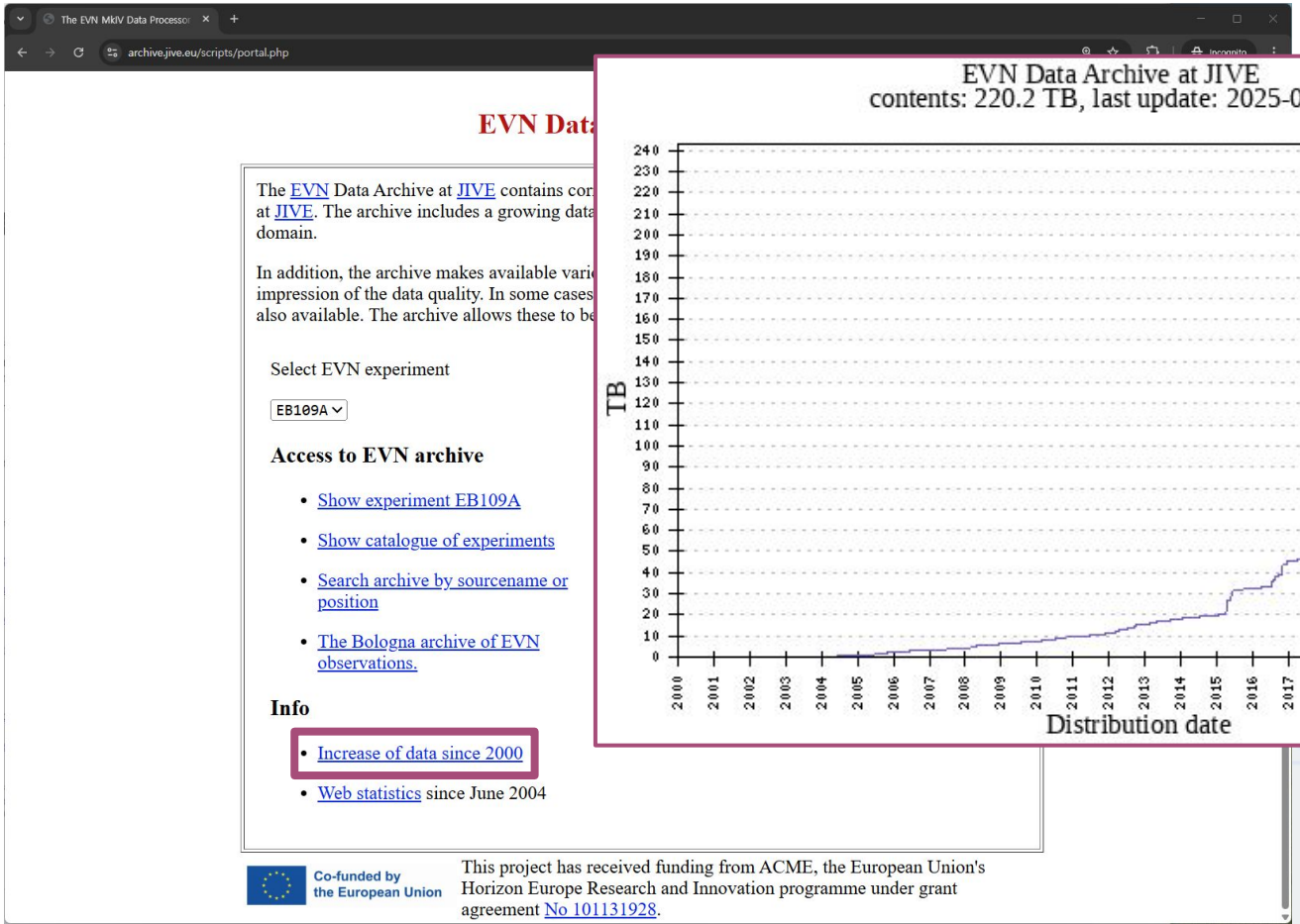

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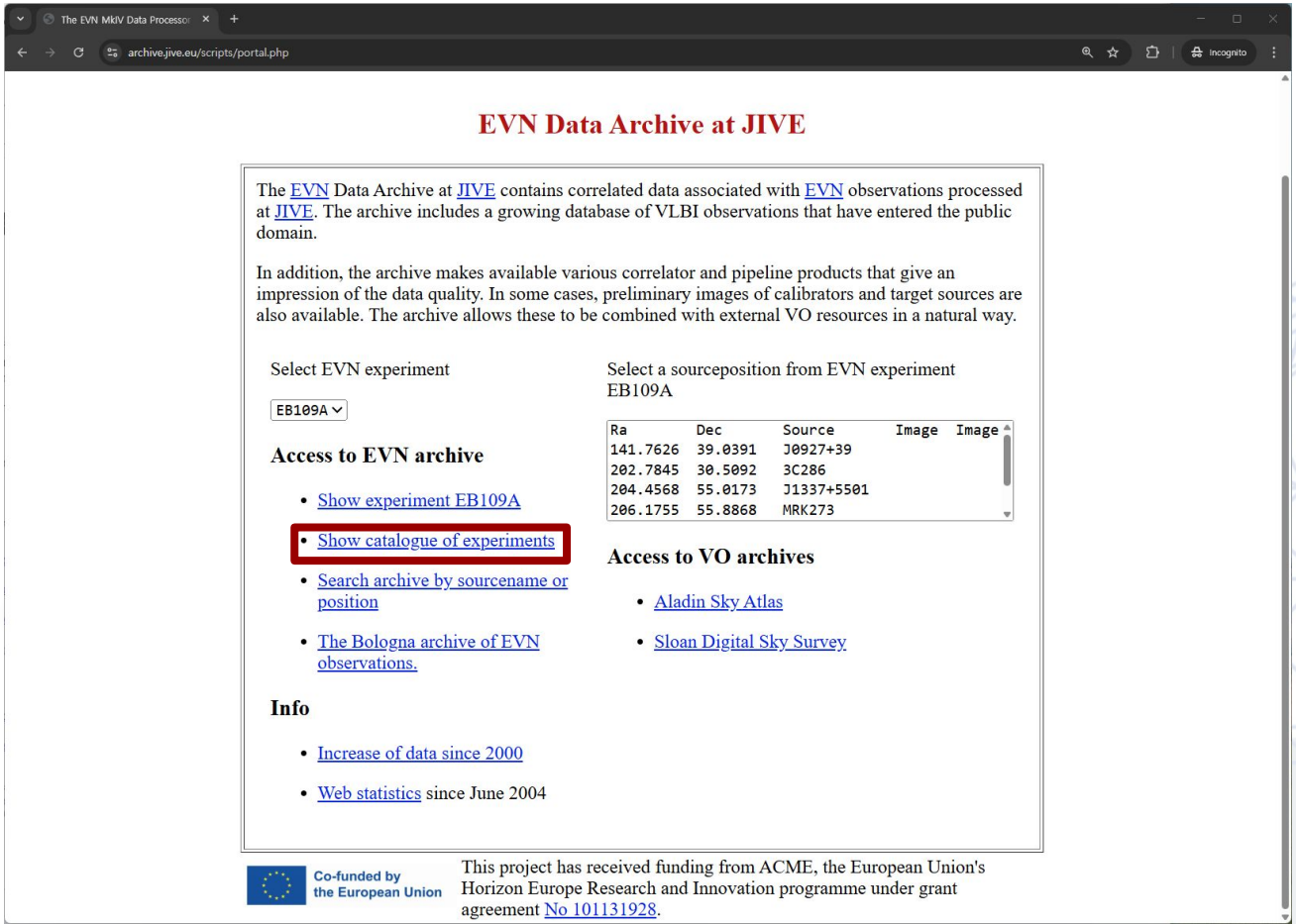
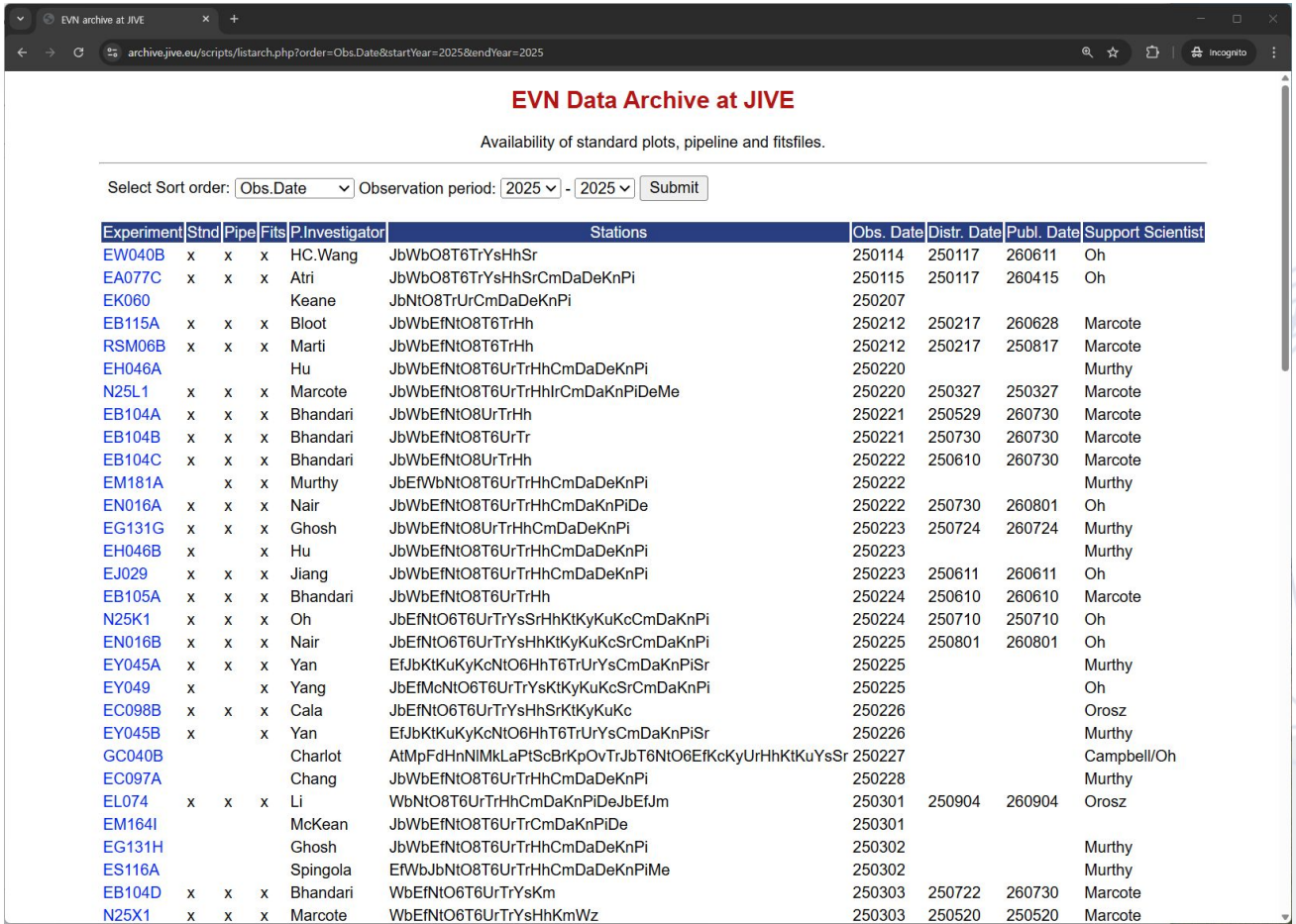


Catalogue



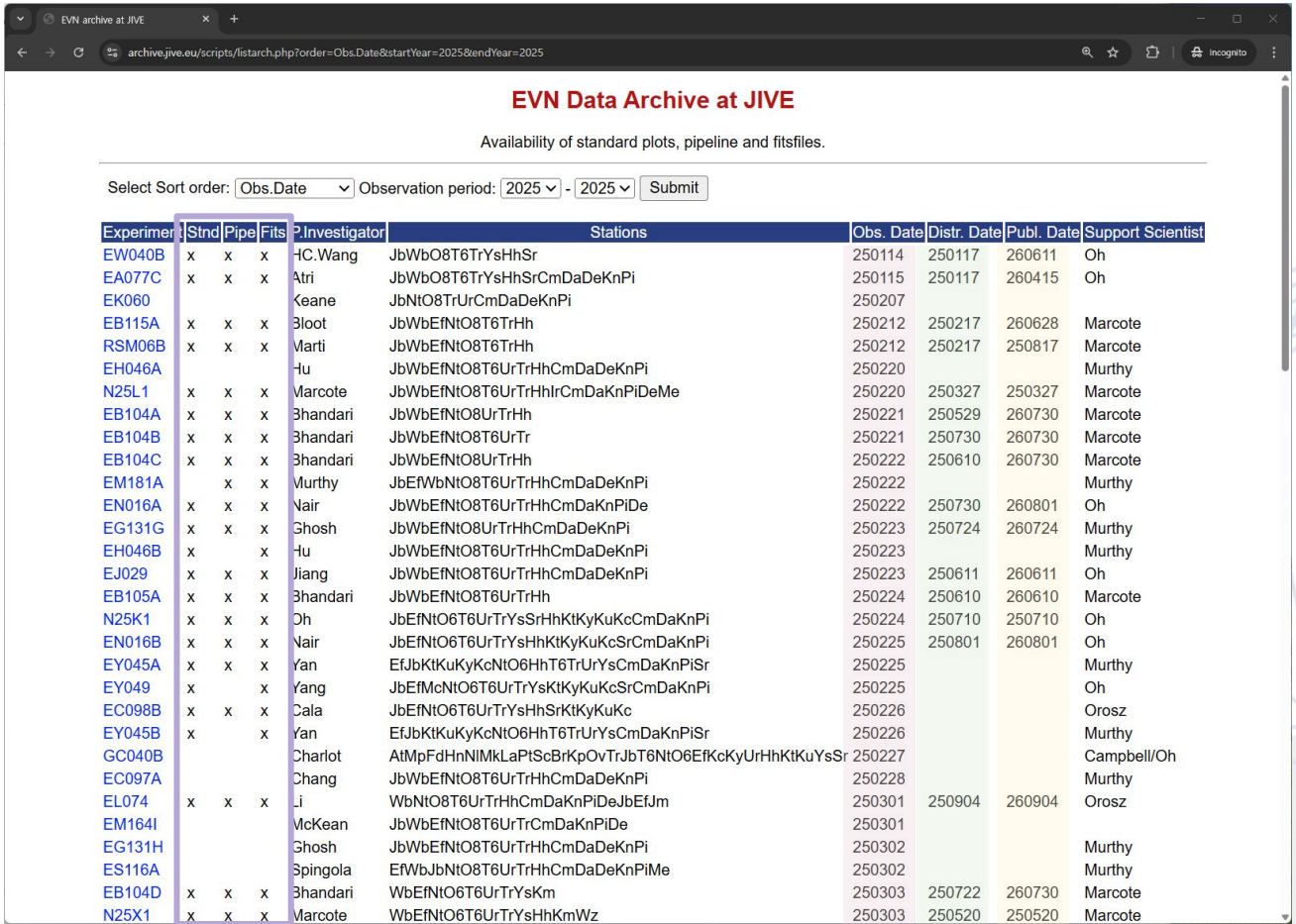
EVN Data Archive at JIVE

Availability of standard plots, pipeline and fitsfiles.

Select Sort order: Obs.Date Observation period: 2025 - 2025 Submit

Experiment	Stnd	Pipe	Fits	P.Investigator	Stations	Obs. Date	Distr. Date	Publ. Date	Support Scientist
EW040B	x	x	x	HC.Wang	JbWbO8T6TrYsHhSr	250114	250117	260611	Oh
EA077C	x	x	x	Atri	JbWbO8T6TrYsHhSrCmDaDeKnPi	250115	250117	260415	Oh
EK060				Keane	JbNtO8TrUrCmDaDeKnPi	250207			
EB115A	x	x	x	Bloot	JbWbEfNtO8T6TrHh	250212	250217	260628	Marcote
RSM06B	x	x	x	Marti	JbWbEfNtO8T6TrHh	250212	250217	250817	Marcote
EH046A				Hu	JbWbEfNtO8T6UrTrHhCmDaDeKnPi	250220			Murthy
N25L1	x	x	x	Marcote	JbWbEfNtO8T6UrTrHhIrCmDaKnPiDeMe	250220	250327	250327	Marcote
EB104A	x	x	x	Bhandari	JbWbEfNtO8UrTrHh	250221	250529	260730	Marcote
EB104B	x	x	x	Bhandari	JbWbEfNtO8T6UrTr	250221	250730	260730	Marcote
EB104C	x	x	x	Bhandari	JbWbEfNtO8UrTrHh	250222	250610	260730	Marcote
EM181A		x	x	Murthy	JbEfWbNtO8T6UrTrHhCmDaDeKnPi	250222			Murthy
EN016A	x	x	x	Nair	JbWbEfNtO8T6UrTrHhCmDaKnPiDe	250222	250730	260801	Oh
EG131G	x	x	x	Ghosh	JbWbEfNtO8UrTrHhCmDaDeKnPi	250223	250724	260724	Murthy
EH046B	x		x	Hu	JbWbEfNtO8T6UrTrHhCmDaDeKnPi	250223			Murthy
EJ029	x	x	x	Jiang	JbWbEfNtO8T6UrTrHhCmDaDeKnPi	250223	250611	260611	Oh
EB105A	x	x	x	Bhandari	JbWbEfNtO8T6UrTrHh	250224	250610	260610	Marcote
N25K1	x	x	x	Oh	JbEfNtO6T6UrTrYsSrHhKtKyKuKcCmDaKnPi	250224	250710	250710	Oh
EN016B	x	x	x	Nair	JbEfNtO6T6UrTrYsHhKtKyKuKcSrCmDaKnPi	250225	250801	260801	Oh
EY045A	x	x	x	Yan	EfJbKtKuKyKcNtO6HhT6TrUrYsCmDaKnPiSr	250225			Murthy
EY049	x		x	Yang	JbEfMcNtO6T6UrTrYsKtKyKuKcSrCmDaKnPi	250225			Oh
EC098B	x	x	x	Cala	JbEfNtO6T6UrTrYsHhSrKtKyKuKc	250226			Orosz
EY045B	x		x	Yan	EfJbKtKuKyKcNtO6HhT6TrUrYsCmDaKnPiSr	250226			Murthy
GC040B				Charlot	AtMpFdHnNlMkLaPtScBrKpOvTrJbT6NtO6EfKcKyUrHhKtKuYsSr	250227			Campbell/Oh
EC097A				Chang	JbWbEfNtO8T6UrTrHhCmDaDeKnPi	250228			Murthy
EL074	x	x	x	Li	WbNtO8T6UrTrHhCmDaKnPiDeJbEfJm	250301	250904	260904	Orosz
EM164I				McKean	JbWbEfNtO8T6UrTrCmDaKnPiDe	250301			
EG131H				Ghosh	JbWbEfNtO8T6UrTrHhCmDaDeKnPi	250302			Murthy
ES116A				Spingola	EfWbJbNtO8T6UrTrHhCmDaDeKnPiMe	250302			Murthy
EB104D	x	x	x	Bhandari	WbEfNtO6T6UrTrYsKm	250303	250722	260730	Marcote
N25X1	x	x	x	Marcote	WbEfNtO6T6UrTrYsHhKmWz	250303	250520	250520	Marcote

Catalogue



EVN Data Archive at JIVE

Availability of standard plots, pipeline and fitsfiles.

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N25L1	x	x	x	Marcote	JbWbEfNtO8T6UrTrHhIrCmDaKnPiDeMe	250220	250327	250327	Marcote
EB104A	x	x	x	Bhandari	JbWbEfNtO8UrTrHh	250221	250529	260730	Marcote
EB104B	x	x	x	Bhandari	JbWbEfNtO8T6UrTr	250221	250730	260730	Marcote
EB104C	x	x	x	Bhandari	JbWbEfNtO8UrTrHh	250222	250610	260730	Marcote
EM181A		x	x	Murthy	JbEfWbNtO8T6UrTrHhCmDaDeKnPi	250222			Murthy
EN016A	x	x	x	Nair	JbWbEfNtO8T6UrTrHhCmDaKnPiDe	250222	250730	260801	Oh
EG131G	x	x	x	Ghosh	JbWbEfNtO8UrTrHhCmDaDeKnPi	250223	250724	260724	Murthy
EH046B	x		x	Hu	JbWbEfNtO8T6UrTrHhCmDaDeKnPi	250223			Murthy
EJ029	x	x	x	Jiang	JbWbEfNtO8T6UrTrHhCmDaDeKnPi	250223	250611	260611	Oh
EB105A	x	x	x	Bhandari	JbWbEfNtO8T6UrTrHh	250224	250610	260610	Marcote
N25K1	x	x	x	Oh	JbEfNtO6T6UrTrYsSrHhKtKyKuKcCmDaKnPi	250224	250710	250710	Oh
EN016B	x	x	x	Nair	JbEfNtO6T6UrTrYsHhKtKyKuKcSrCmDaKnPi	250225	250801	260801	Oh
EY045A	x	x	x	Yan	EfJbKtKuKyKcNtO6HhT6TrUrYsCmDaKnPiSr	250225			Murthy
EY049	x		x	Yang	JbEfMcNtO6T6UrTrYsKtKyKuKcSrCmDaKnPi	250225			Oh
EC098B	x	x	x	Cala	JbEfNtO6T6UrTrYsHhSrKtKyKuKc	250226			Orosz
EY045B	x		x	Yan	EfJbKtKuKyKcNtO6HhT6TrUrYsCmDaKnPiSr	250226			Murthy
GC040B				Charlot	AtMpFdHnNlMkLaPtScBrKpOvTrJbT6NtO6EfKcKyUrHhKtKuYsSr	250227			Campbell/Oh
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EL074	x	x	x	Li	WbNtO8T6UrTrHhCmDaKnPiDeJbEfJm	250301	250904	260904	Orosz
EM164I				McKean	JbWbEfNtO8T6UrTrCmDaKnPiDe	250301			
EG131H				Ghosh	JbWbEfNtO8T6UrTrHhCmDaDeKnPi	250302			Murthy
ES116A				Spingola	EfWbJbNtO8T6UrTrHhCmDaDeKnPiMe	250302			Murthy
EB104D	x	x	x	Bhandari	WbEfNtO6T6UrTrYsKm	250303	250722	260730	Marcote
N25X1	x	x	x	Marcote	WbEfNtO6T6UrTrYsHhKmWz	250303	250520	250520	Marcote

Catalogue (old)

EVN Data Archive at JIVE

Availability of standard plots, pipeline and fitsfiles.

Select Sort order: Obs.Date Observation period: 1996 - 1999 Submit

Experiment	Stnd	Pipe	Fits	P.Investigator	Stations	Obs. Date	Distr. Date	Publ. Date	Support Scientist
EL011			x	H.vanLangevelde	EbJbMcNtMhOn	961016	010903	050601	vanLangevelde
GL034				H.vanLangevelde	JbWbEfOnMcNtTrShCmHnScFdPtLaKpOvNlBrMk	980527	000403	000403	van Langevelde
EG019			x	M.Garrett	EfMcNtOnTrWbJbCm	981122	991212	050601	Garrett
ES023	x	x	x	R.Schilizzi	EfMcNtOnWbJbTrShCm	981124	021217	050601	Campbell
EL023			x	H.vanLangevelde	EfMcNtJbOnWbTr	990222	990816	050601	vanLangevelde
ES023B			x	R.Schilizzi	EfMcNtOnWbJbTrSh	990529	991116	050601	Campbell
ES030A			x	R.Spencer	EfJbMcNtTrWbOnCm	990610	000607	050601	Campbell
ES030B			x	R.Spencer	EfJbMcNtTrWbOnCm	990613	000607	050601	Campbell
EO004A			x	C.ODea	EbJbOnTrWb	990908	001213	050601	Campbell
EO004B			x	C.ODea	EbJbOnTrWb	990909	000918	050601	Campbell
EV008A			x	R.Vermeulen	EbJbOnTrWb	990909	000711	050601	van Langevelde
EV008B			x	R.Vermeulen	EbJbOnTrWb	990910	010112	050601	Campbell
EM034			x	C.Moore	EbJbOnTrWb	990911	010321	050601	Campbell
EP031A			x	Y.Pihlstrom	EbJbOnTrWb	990911	001219	050601	Campbell
EP030			x	Y.Pihlstrom	EbJbOnTrWb	990912	000501	050601	Phillips
EP031B			x	Y.Pihlstrom	EbOnTrWb	990912	000918	050601	Campbell
EB015A			x	F.Briggs	EbJbOnTrWb	990913	010720	050601	Campbell
VAH1				R.Vermeulen	EbOnTrWb	990913	000904	050601	Phillips
EB015B			x	F.Briggs	EbJbOnTrWb	990914	010720	050601	Campbell
EO004C			x	C.ODea	EbJbOn	990914	000918	050601	Campbell
C99C3				L.Sjouwerman	EbJbMcNtTrWbOnSh	990915	000302	000302	Campbell
ES034A				I.Snellen	EbJbMcNtTrWbShHhOn	990923	000503	050601	Phillips
EP027A			x	A.Pedlar	EbMcNtTrWbOnJb	990925	000220	050601	Campbell
EP027B			x	A.Pedlar	EbMcNtTrWbOnJb	990926	000220	050601	Campbell
EB014A			x	W.Baan	EbJbMcNtTrWbOnShUr	990929	000425	050601	Phillips
GAH2			x	S.Garrington	EbJbMcNtWbOnTr	990929	000124	050601	Campbell
EB014B			x	W.Baan	EbJbMcNtTrWbOnShUr	990930	000425	050601	Phillips
ES028			x	L.Sjouwerman	EbJbMcTrNtWbOnCm	991114	010725	050601	Sjouwerman
ES034B				I.Snellen	EbJbMcNtTrWbShOn	991126	000613	050601	Phillips

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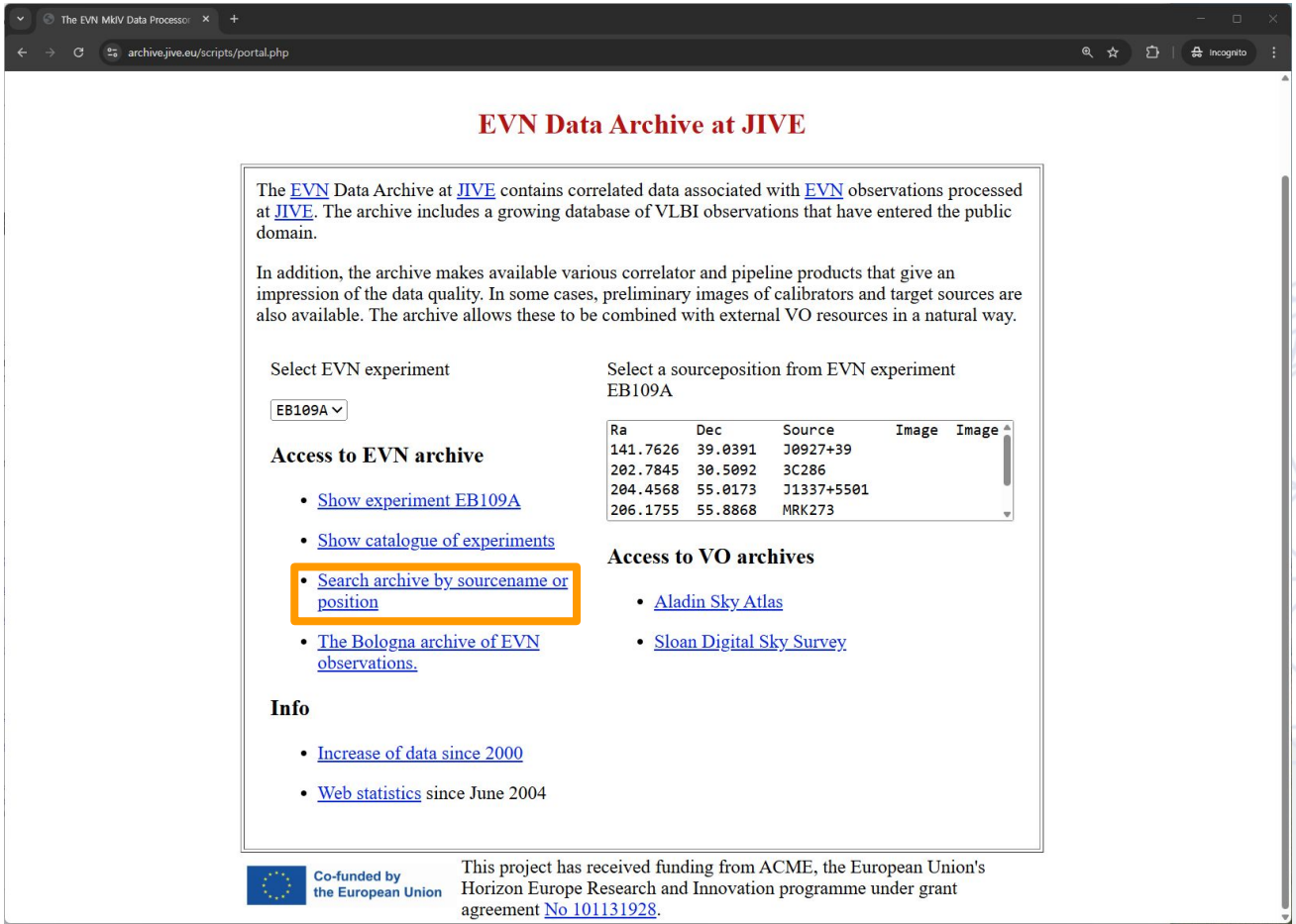
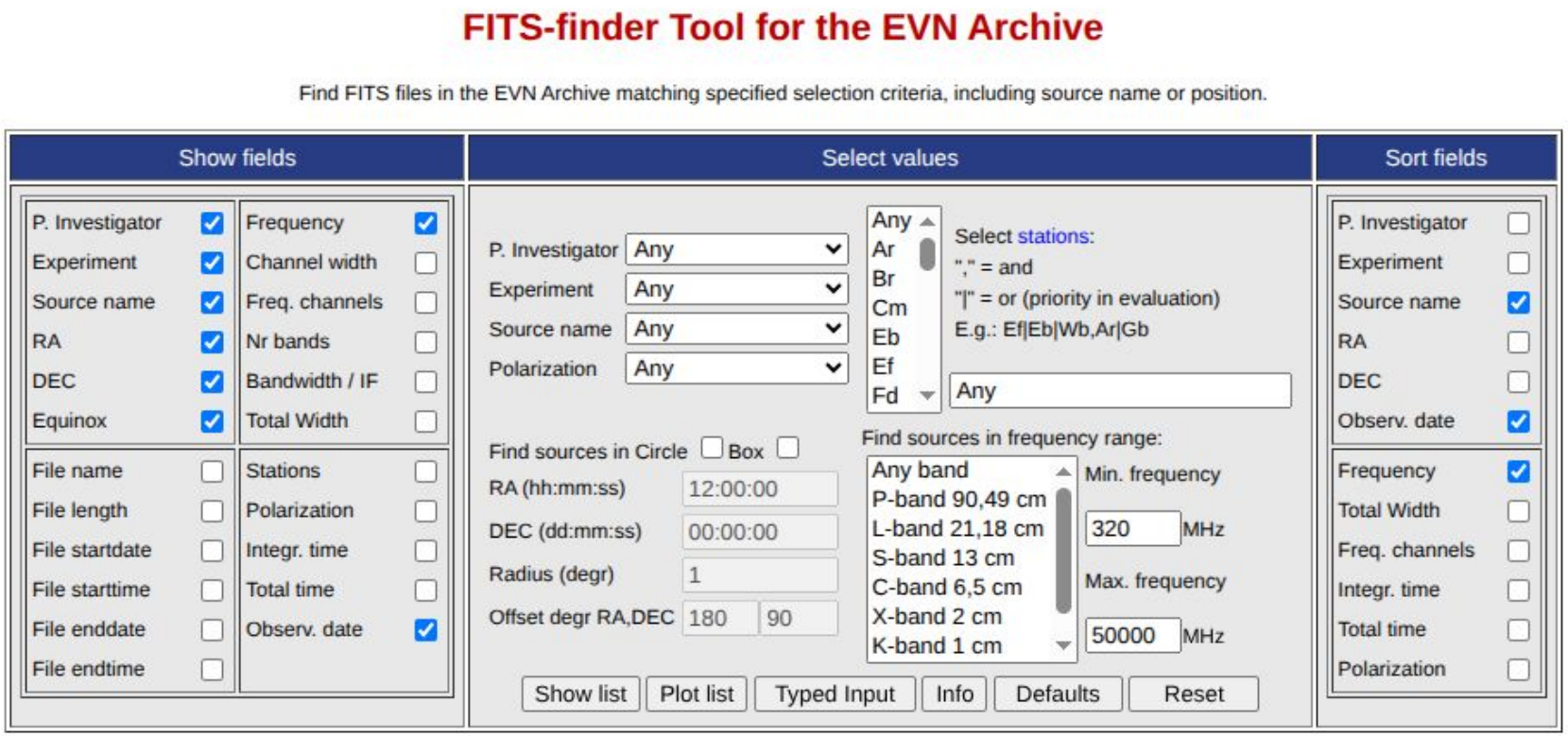
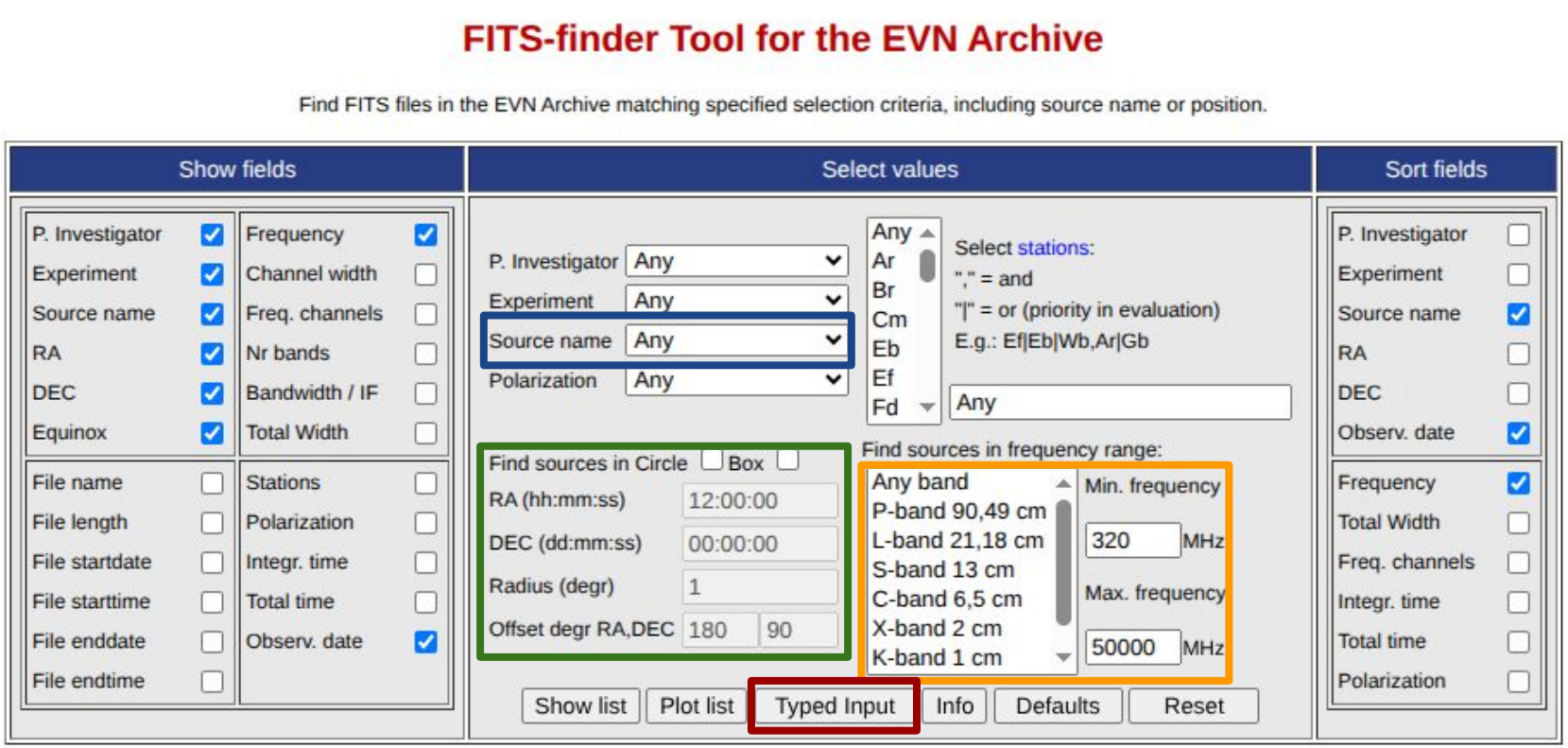


Search your data



Search your data



Search your data

FITS-finder Tool for the EVN Archive

Find FITS files in the EVN Archive matching specified selection criteria, including source name or position.

Show fields

P. Investigator	☑	Frequency	☑
Experiment	☑	Channel width	☐
Source name	☑	Freq. channels	☐
RA	☑	Nr bands	☐
DEC	☑	Bandwidth / IF	☐
Equinox	☑	Total Width	☐
File name	☐	Stations	☐
File length	☐	Polarization	☐
File startdate	☐	Integr. time	☐
File starttime	☐	Total time	☐
File enddate	☐	Observ. date	☑
File endtime	☐		

Select values

P. Investigator: Any
Experiment: Any
Source name: 3C395
Polarization: Any

Select stations:
"," = and
"|" = or (priority in evaluation)
E.g.: Ef|Eb|Wb,Ar|Gb

Any
Ar
Br
Cm
Eb
Ef
Fd

Any

Find sources in Circle ☐ Box ☐
RA (hh:mm:ss): 12:00:00
DEC (dd:mm:ss): 00:00:00
Radius (degr): 1
Offset degr RA,DEC: 180 90

Find sources in frequency range:
Any band
P-band 90,49 cm
L-band 21,18 cm
S-band 13 cm
C-band 6,5 cm
X-band 2 cm
K-band 1 cm

Min. frequency: 1400 MHz
Max. frequency: 1722 MHz

Show list | Plot list | Typed Input | Info | Defaults | Reset

Sort fields

P. Investigator	☐
Experiment	☐
Source name	☑
RA	☐
DEC	☐
Observ. date	☑
Frequency	☑
Total Width	☐
Freq. channels	☐
Integr. time	☐
Total time	☐
Polarization	☐

P. Investigator	Experiment	ObsDate	Source	RA h:m:s	DEC d:m:s	Equinox	Frequency MHz
Tudose	ET031A	2015-06-23	3C395	19:02:55.9	31:59:41.7	J2000	1594.990000
Cseh	EC052E	2015-06-23	3C395	19:02:55.9	31:59:41.7	J2000	1594.990000
Bhandari	EB096H	2022-06-07	3C395	19:02:55.9	31:59:41.7	J2000	1594.990000
Murthy	N22L3	2022-10-28	3C395	19:02:55.9	31:59:41.7	J2000	1594.990000
Oh	N23L3	2023-10-26	3C395	19:02:55.9	31:59:41.7	J2000	1594.990000
Oh	N24L3	2024-10-17	3C395	19:02:55.9	31:59:41.7	J2000	1594.990000

Experiment code

e.g. **E A 0 7 7 C**

Regular user experiment	**E**
Global array (e.g. +VLBA / +LBA)	**G**
Network monitoring experiment	**N**
Fast review, ToO	**R**
& Short	**R S**

Epoch

1st letter of PI's Last name

Search your data

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Experiment	☑	Channel width	☐
Source name	☑	Freq. channels	☐
RA	☑	Nr bands	☐
DEC	☑	Bandwidth / IF	☐
Equinox	☑	Total Width	☐
File name	☐	Stations	☐
File length	☐	Polarization	☐
File startdate	☐	Integr. time	☐
File starttime	☐	Total time	☐
File enddate	☐	Observ. date	☑
File endtime	☐		

Select values

P. Investigator: Any
Experiment: Any
Source name: 3C395
Polarization: Any

Any, Ar, Br, Cm, Eb, Ef, Fd

Select stations:
"," = and
"|" = or (priority in evaluation)
E.g.: Ef|Eb|Wb,Ar|Gb
Any

Find sources in Circle ☐ Box ☐
RA (hh:mm:ss): 12:00:00
DEC (dd:mm:ss): 00:00:00
Radius (degr): 1
Offset degr RA,DEC: 180 90

Find sources in frequency range:
Any band
P-band 90,49 cm
L-band 21,18 cm
S-band 13 cm
C-band 6,5 cm
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Source name	☑	Freq. channels	☐
RA	☐	Integr. time	☐
DEC	☐	Total time	☐
Observ. date	☑	Polarization	☐

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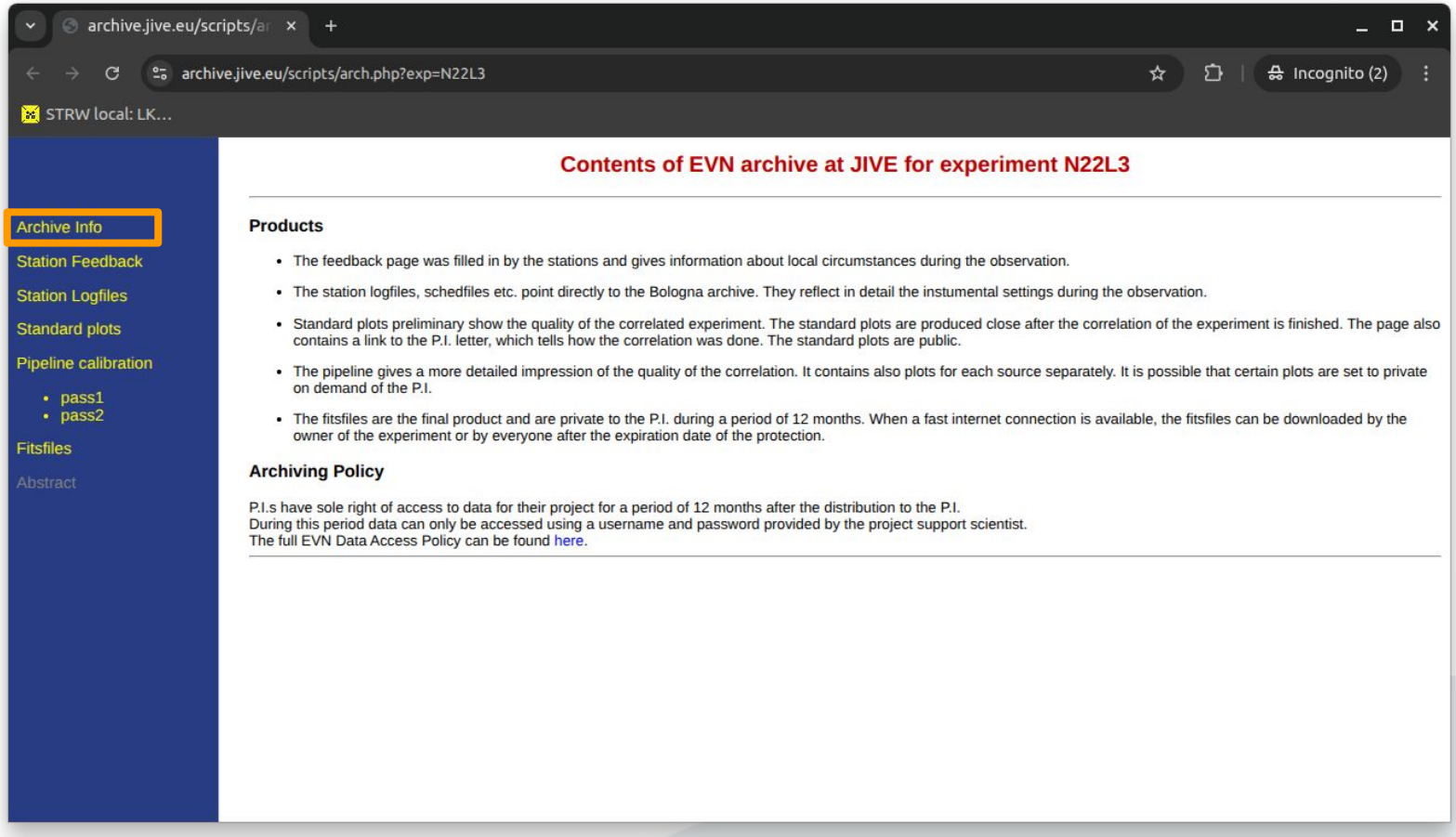
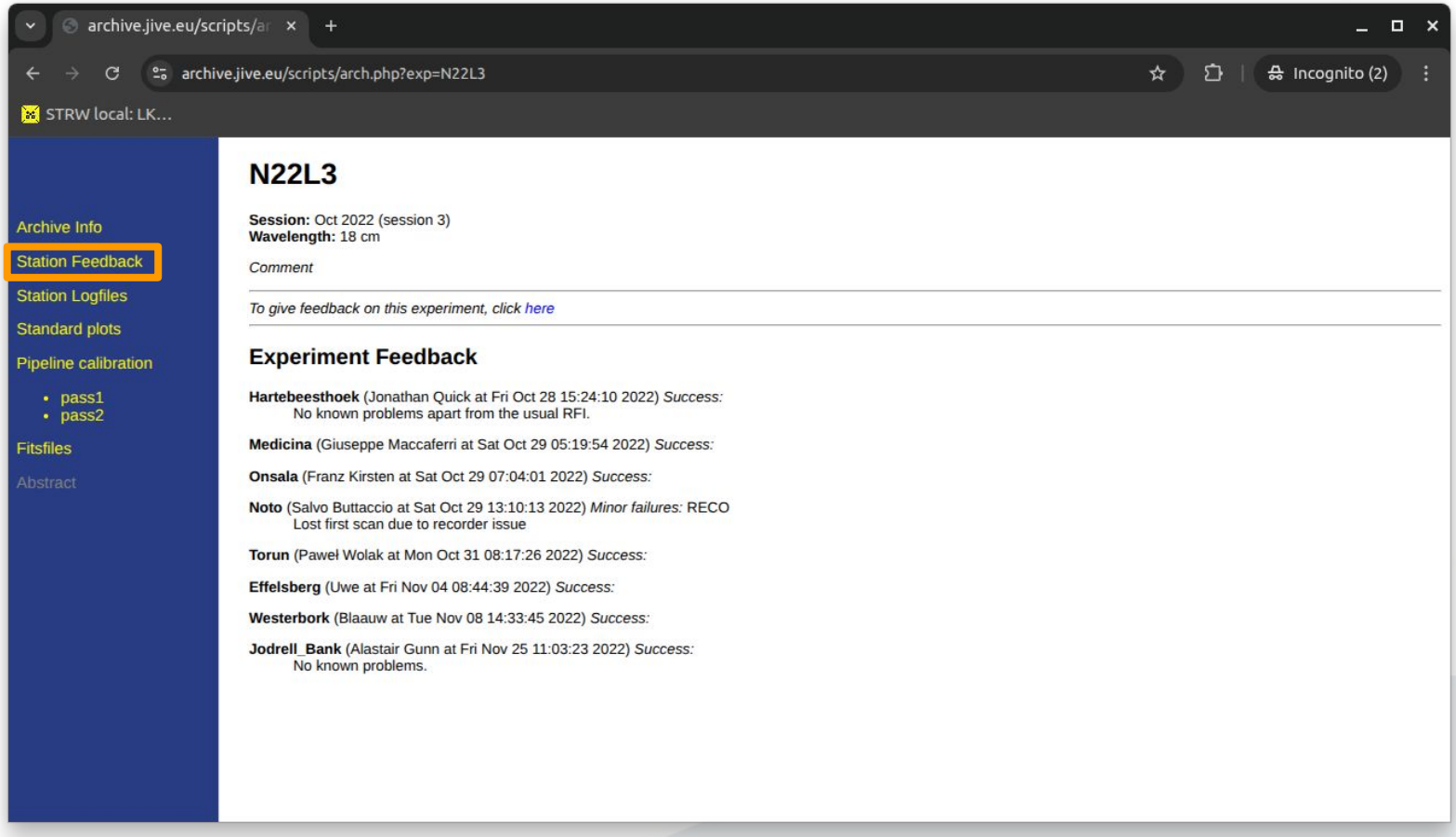
Bhandari	EB096H	2022-06-07	3C395	19:02:55.9	31:59:41.7	J2000	1594.990000
Murthy	N22L3	2022-10-28	3C395	19:02:55.9	31:59:41.7	J2000	1594.990000
Oh	N23L3	2023-10-26	3C395	19:02:55.9	31:59:41.7	J2000	1594.990000
Oh	N24L3	2024-10-17	3C395	19:02:55.9	31:59:41.7	J2000	1594.990000

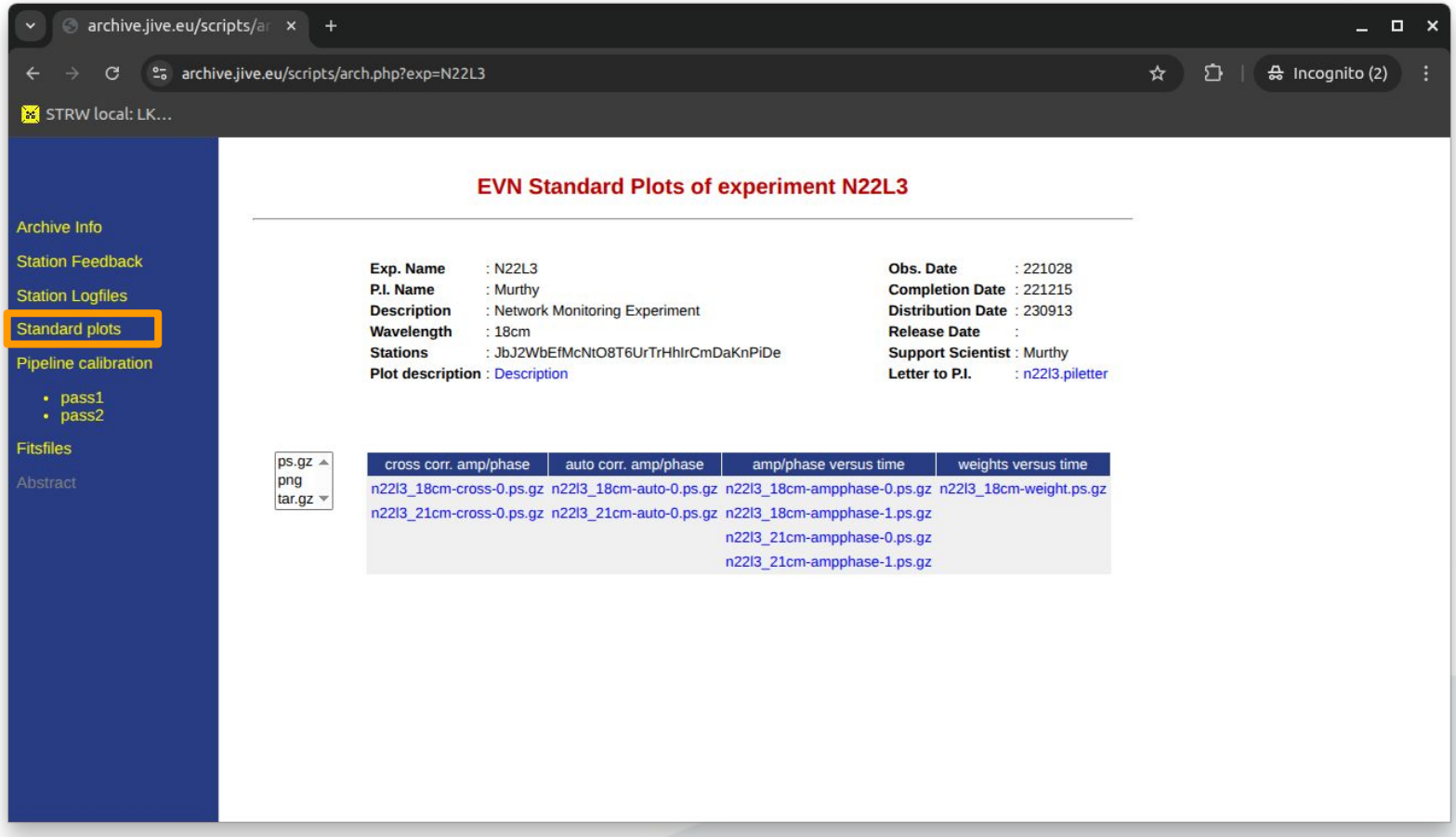
What's in there?



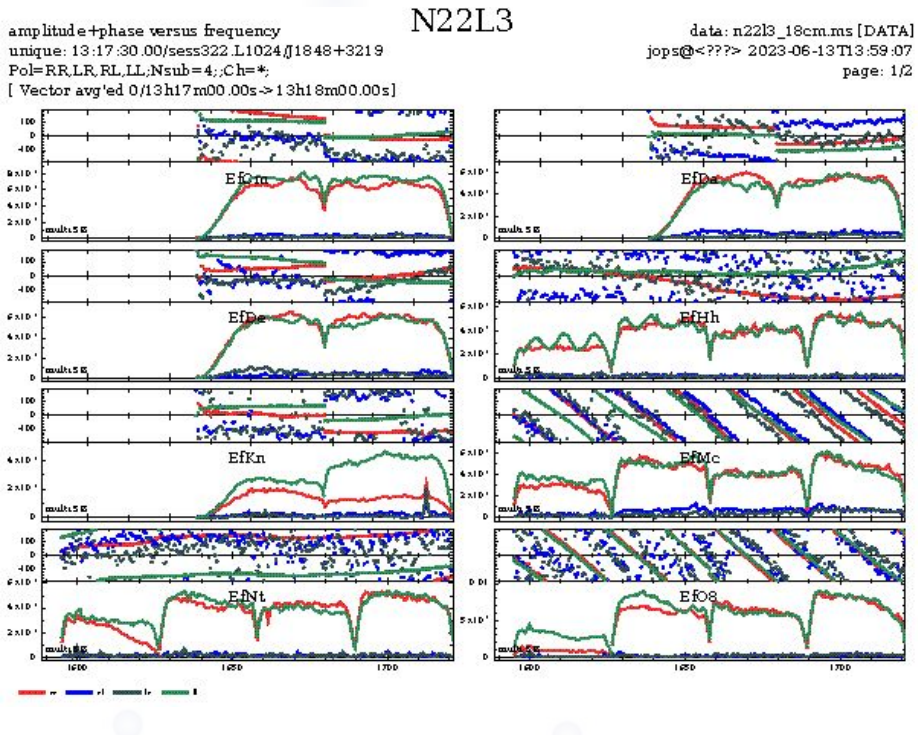
Station feedback



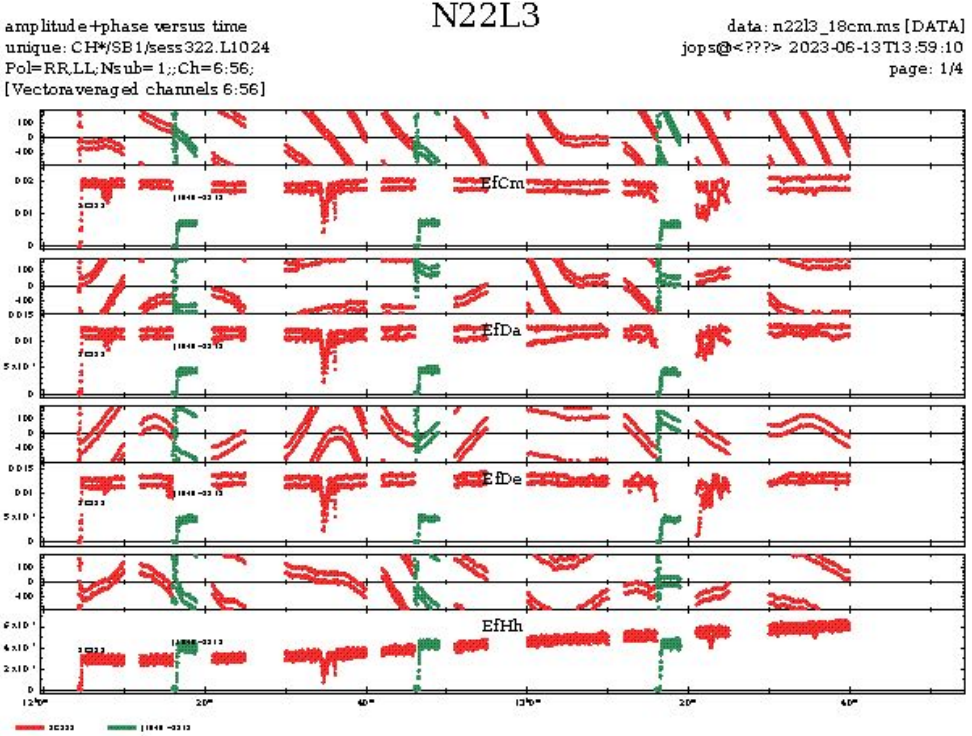
Standard plots



Standard plots

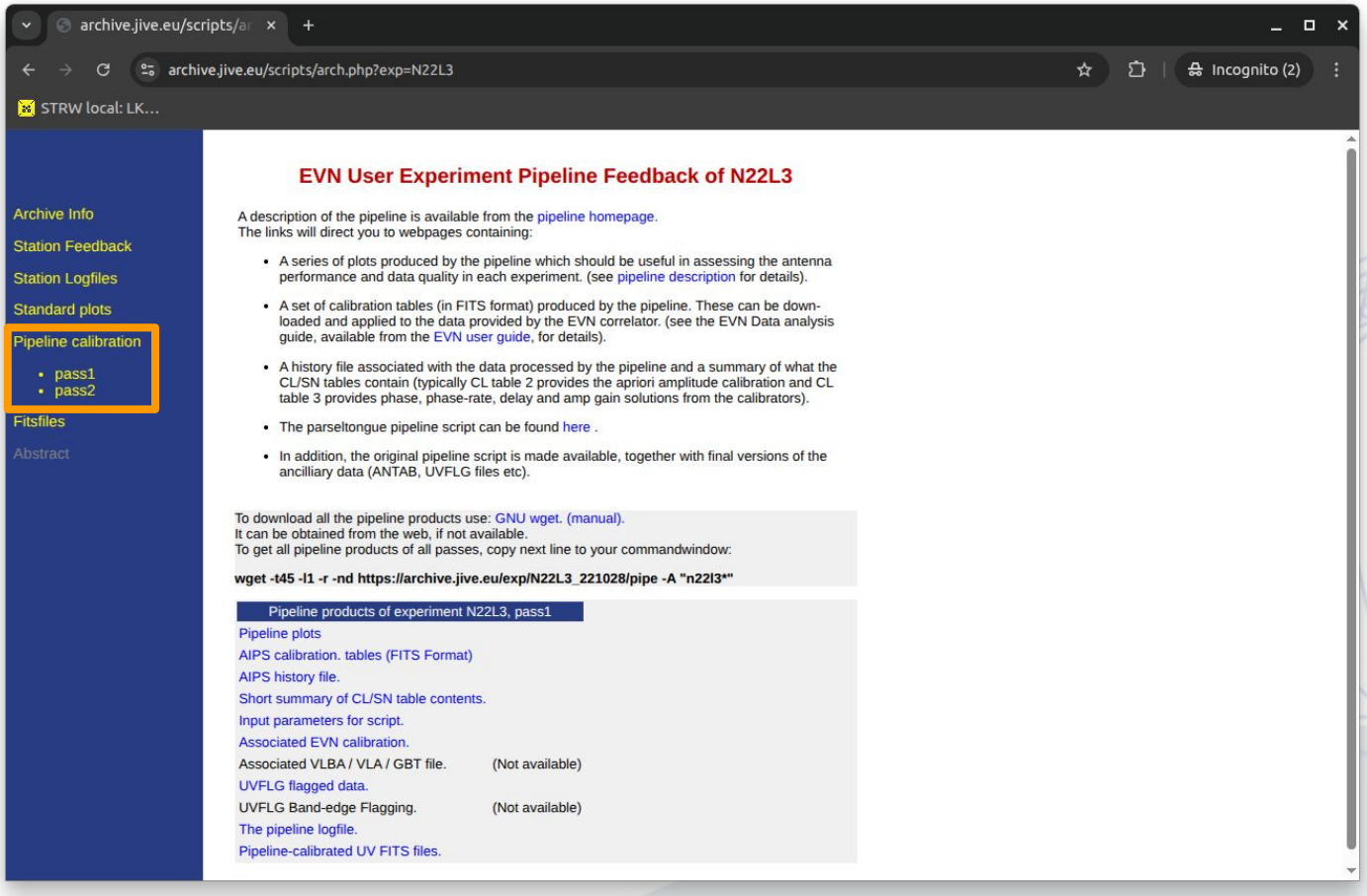


Cross-correlation

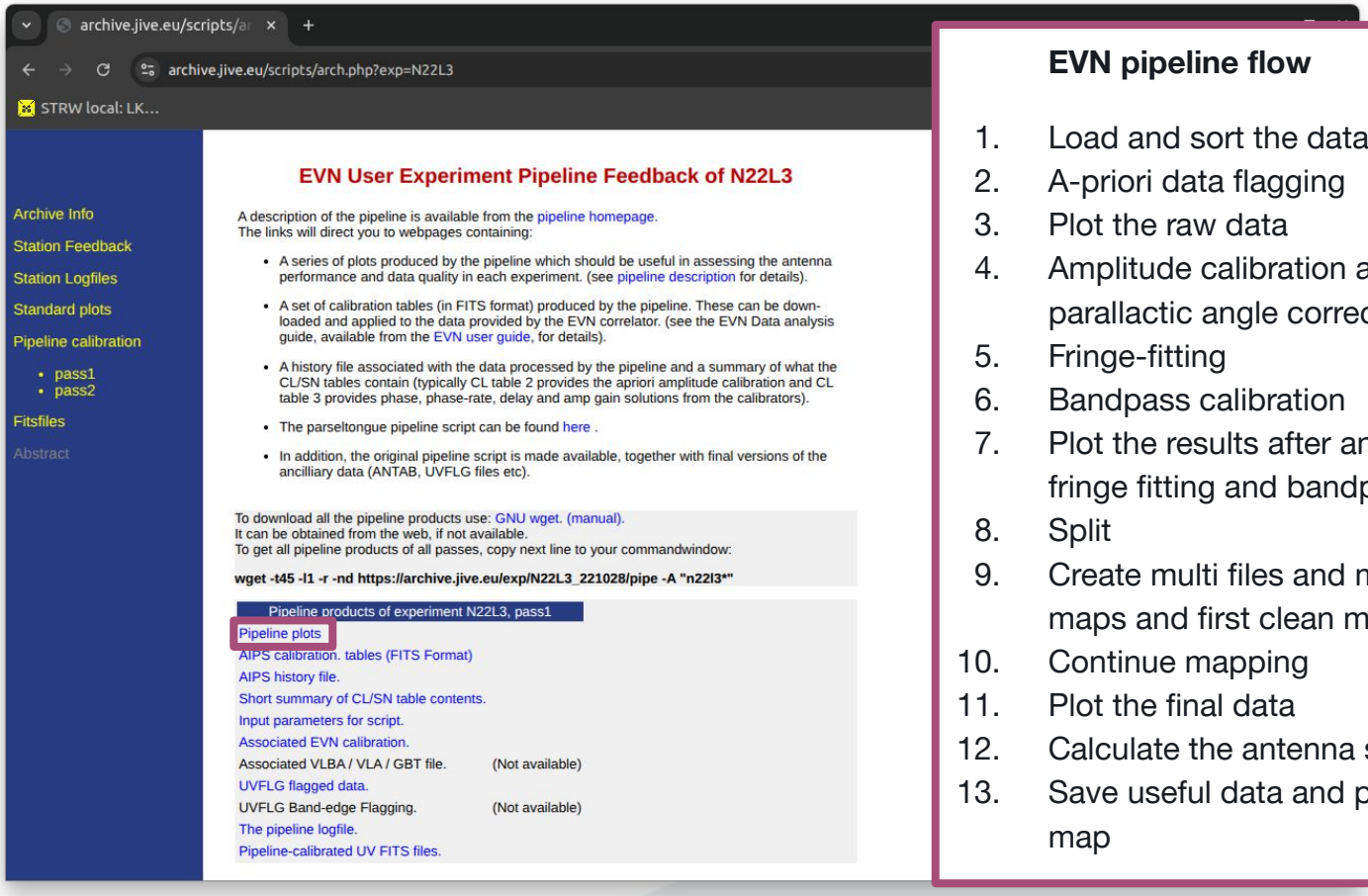


Amp & phase vs time

EVN pipeline results



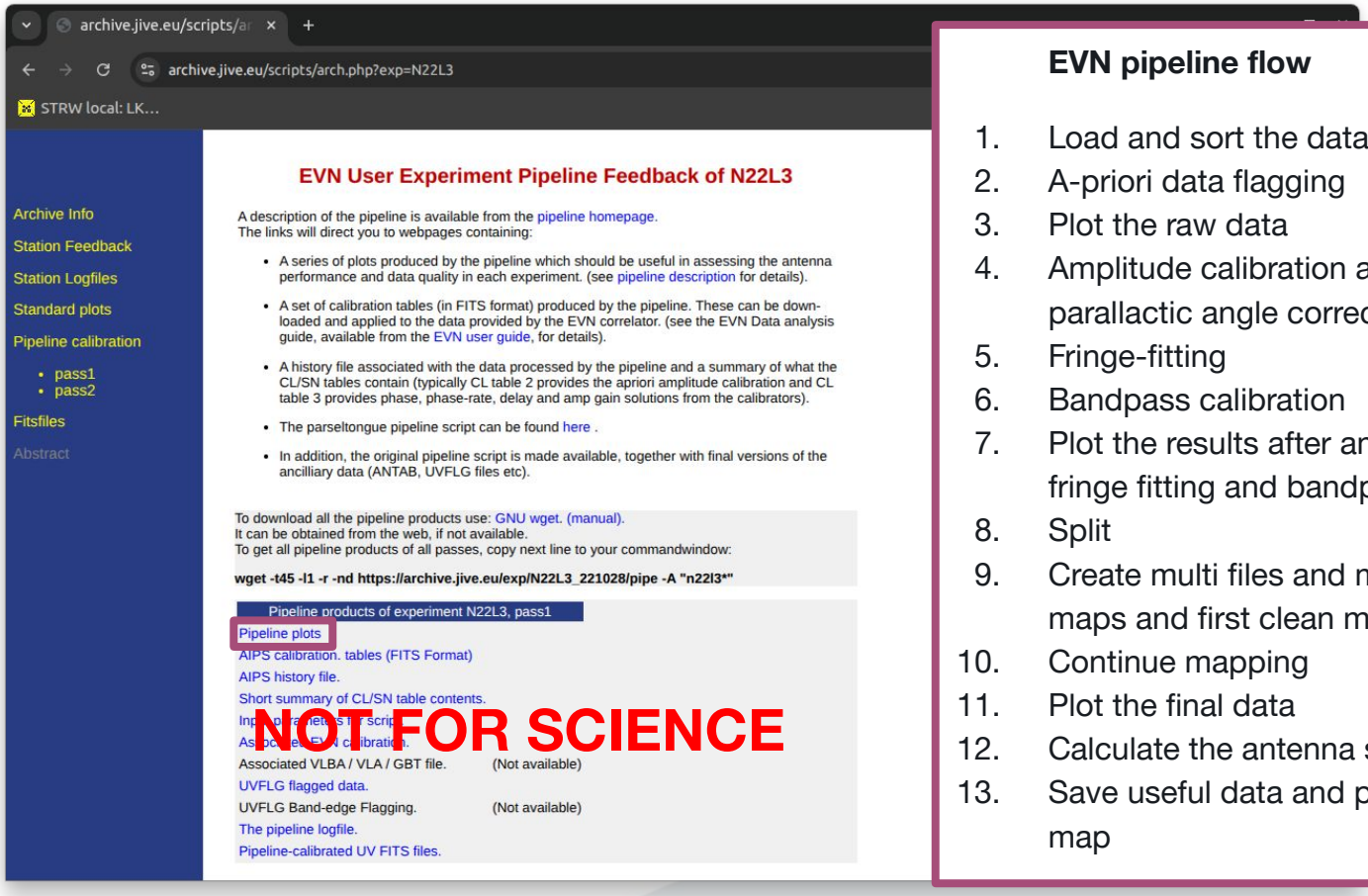
EVN pipeline results



EVN pipeline flow

1. Load and sort the data
2. A-priori data flagging
3. Plot the raw data
4. Amplitude calibration and parallactic angle correction
5. Fringe-fitting
6. Bandpass calibration
7. Plot the results after ampcal, fringe fitting and bandpass.
8. Split
9. Create multi files and make dirty maps and first clean maps.
10. Continue mapping
11. Plot the final data
12. Calculate the antenna sensitivities
13. Save useful data and plot final map

EVN pipeline results



EVN pipeline flow

1. Load and sort the data
2. A-priori data flagging
3. Plot the raw data
4. Amplitude calibration and parallactic angle correction
5. Fringe-fitting
6. Bandpass calibration
7. Plot the results after ampcal, fringe fitting and bandpass.
8. Split
9. Create multi files and make dirty maps and first clean maps.
10. Continue mapping
11. Plot the final data
12. Calculate the antenna sensitivities
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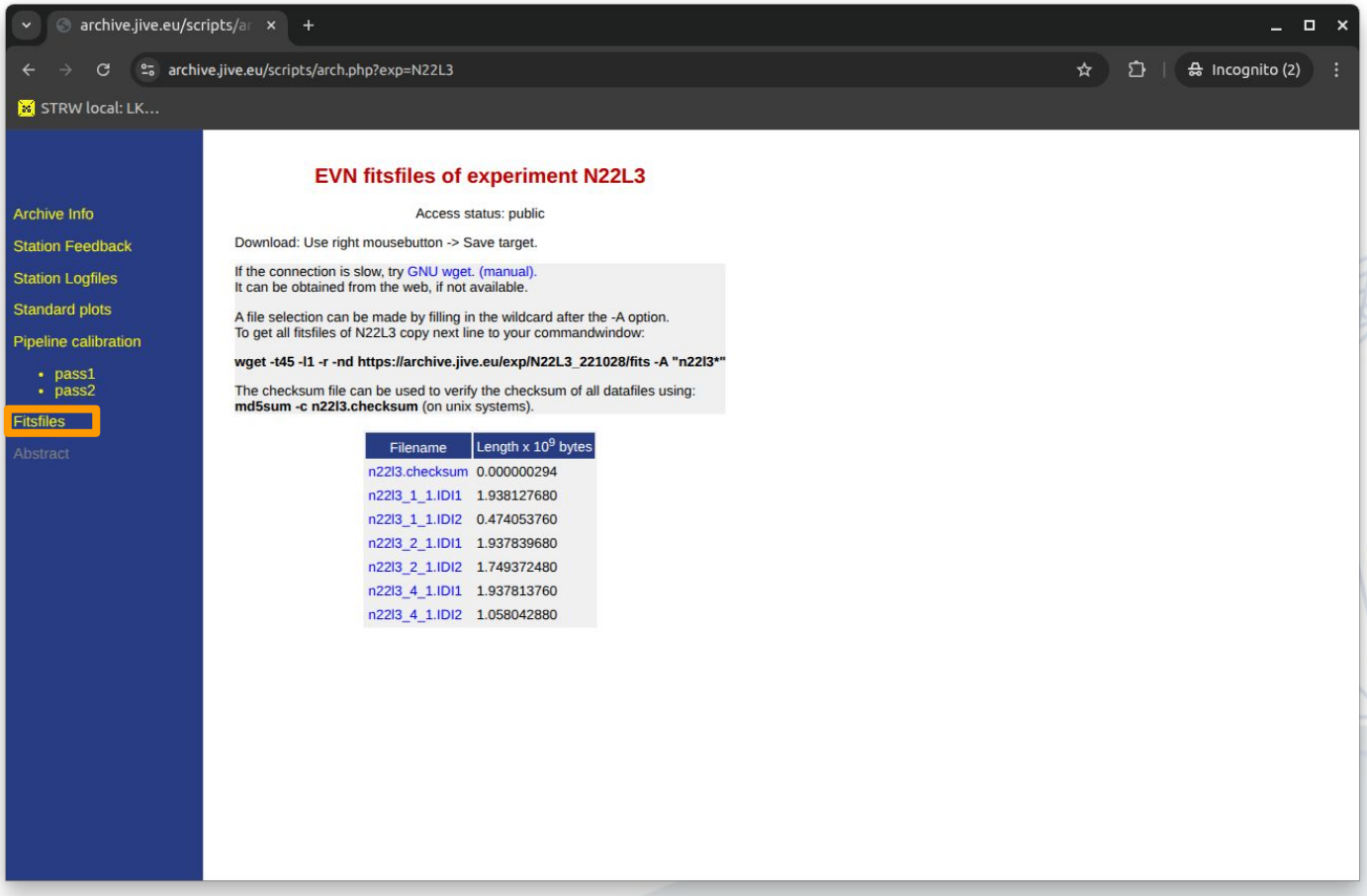
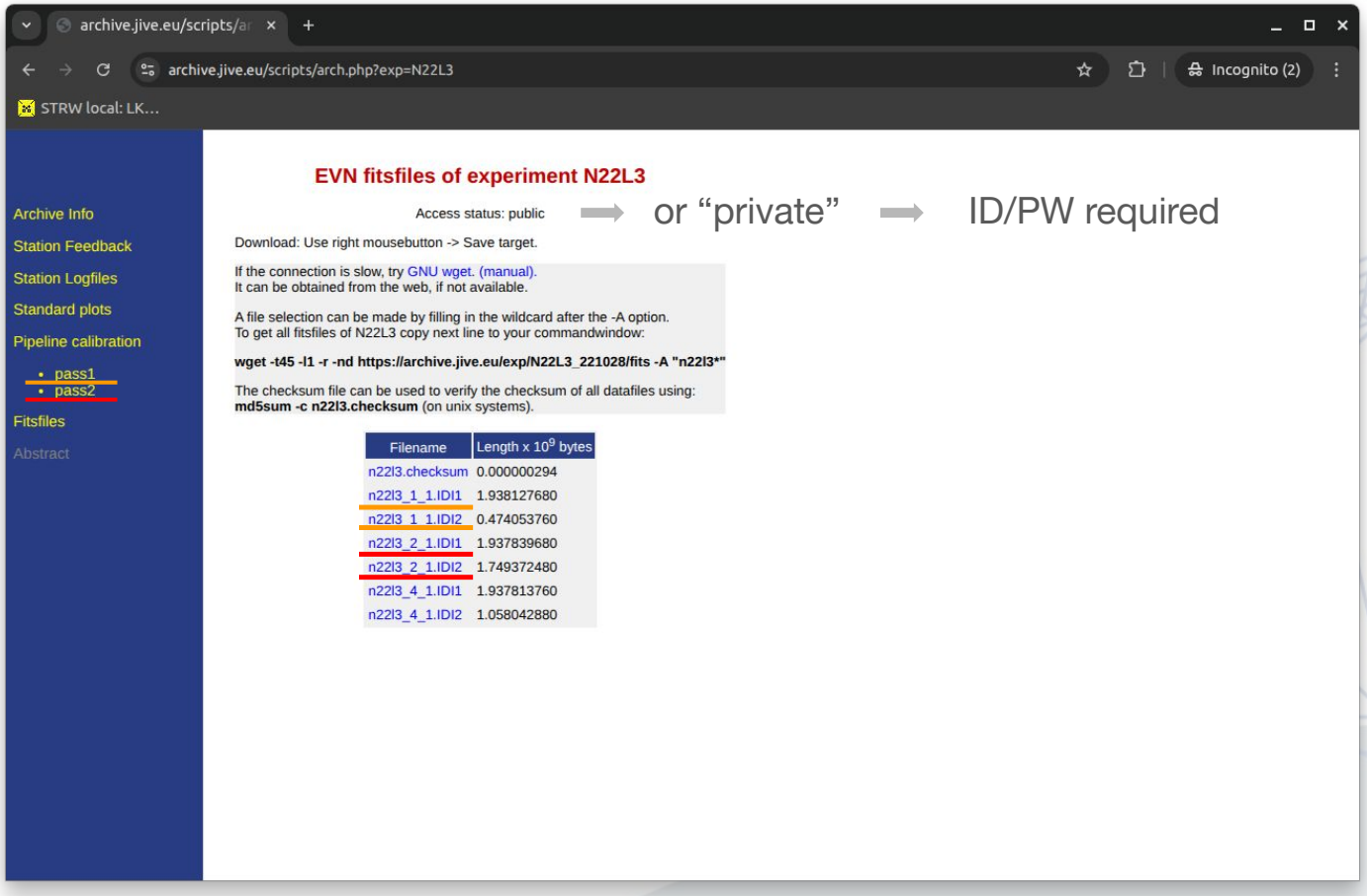
FITS files


archive.jive.eu/scripts/ar
archive.jive.eu/scripts/arch.php?exp=N22L3
Incognito (2)
STRW local: LK...
Archive Info
Station Feedback
Station Logfiles
Standard plots
Pipeline calibration
pass1
pass2
Fitsfiles
Abstract
EVN fitsfiles of experiment N22L3
Access status: public
Download: Use right mousebutton -> Save target.
If the connection is slow, try GNU wget. (manual).
It can be obtained from the web, if not available.
A file selection can be made by filling in the wildcard after the -A option.
To get all fitsfiles of N22L3 copy next line to your commandwindow:
wget -t45 -l1 -r -nd https://archive.jive.eu/exp/N22L3_221028/fits -A "n22l3*"
The checksum file can be used to verify the checksum of all datafiles using:
md5sum -c n22l3.checksum (on unix systems).
Filename
Length x 10^9 bytes
n22l3.checksum 0.000000294
n22l3_1_1.IDI1 1.938127680
n22l3_1_1.IDI2 0.474053760
n22l3_2_1.IDI1 1.937839680
n22l3_2_1.IDI2 1.749372480
n22l3_4_1.IDI1 1.937813760
n22l3_4_1.IDI2 1.058042880

FITS files


archive.jive.eu/scripts/ar
archive.jive.eu/scripts/arch.php?exp=N22L3
Incognito (2)
STRW local: LK...
Archive Info
Station Feedback
Station Logfiles
Standard plots
Pipeline calibration
pass1
pass2
Fitsfiles
Abstract
EVN fitsfiles of experiment N22L3
Access status: public
or “private”
ID/PW required
Download: Use right mousebutton -> Save target.
If the connection is slow, try GNU wget. (manual).
It can be obtained from the web, if not available.
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n22l3_2_1.IDI2 1.749372480
n22l3_4_1.IDI1 1.937813760
n22l3_4_1.IDI2 1.058042880

Summary

- **EVN archive**
  - 220 TB data from 1996
  - Search by source, position, date, frequency
  - FITS files + calibration tables
  - Pipeline outputs available - use for calibration guidance only
  - Search before submitting a new proposal
- **Future developments**
  - New archive under development
  - We welcome your feedback
  - **usersupport@jive.eu**