

# C231A Correlation Report

## General information

- Session info: <http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/>
- Station feedback: [https://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/may23/feedback\\_may23.asc](https://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/may23/feedback_may23.asc)
- No fringes to LMT, no data from Hs.
- Not observed: JCMT, Mopra, GBT, Kt (no maser), Br, Od (receiver selection problem at backend; On is fine).

## Status

what	date
Preparing correlation setup	14 Dec 2023
Correlation v1 running	22 Dec 2023
Correlation 3mm v1 finished	28 Dec 2023
Packaging done, but still pending PolConvert and PI project -based split	09 Jan 2023
Waiting for ALMA QA2 calibration tables	...
Sent to PI (ALMA uncorrected)	28 Feb 2024

## Fringes

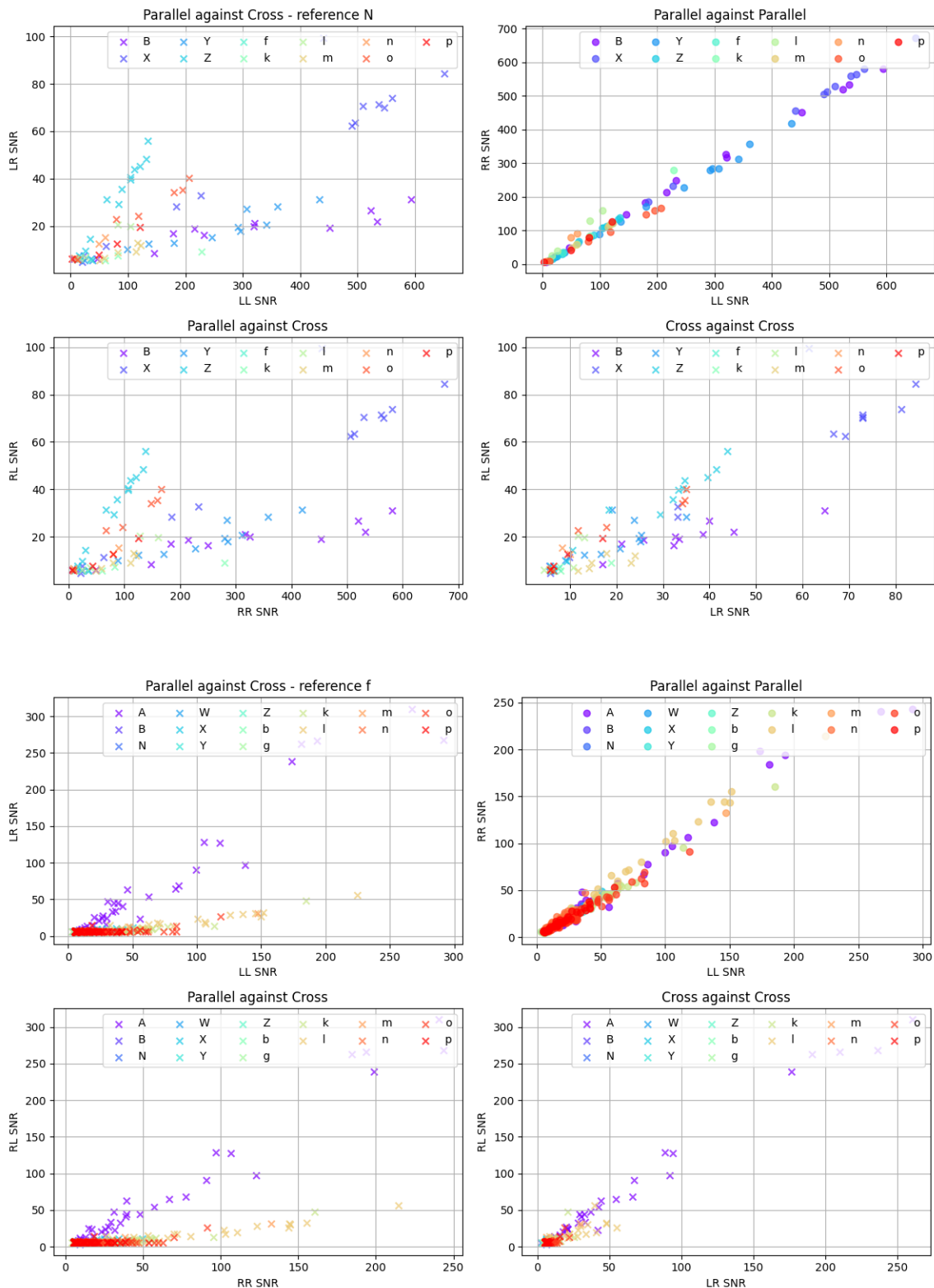
Station	Code	Fringes	Plots	Comments
VLBA		yes		
EU (Ef On Mh Ys)		yes		
KVN (Ku Ky)		marginal		only 1 weak fringe, only intra-KVN, only 5 scans observed
ALMA		yes		ALMA-VLBA, ALMA-EU
NOEMA		yes		NOEMA-VLBA, NOEMA-EU

## Notes

- LMT, GLT, Br, Kt did not observe
- Onsala Od/L (DBBC3) IF input misconfigured to wrong receiver, but On/X (DBBC2) was fine

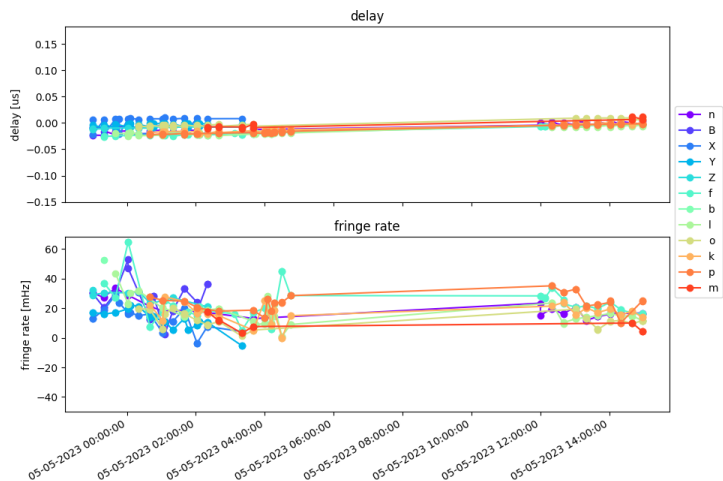
## Post-Correlation checks

Polarizations



Polarization relative to NOEMA and prior to PolConvert, i.e., ALMA (A) and Mopra (W, not shown) still linear.

# Residuals



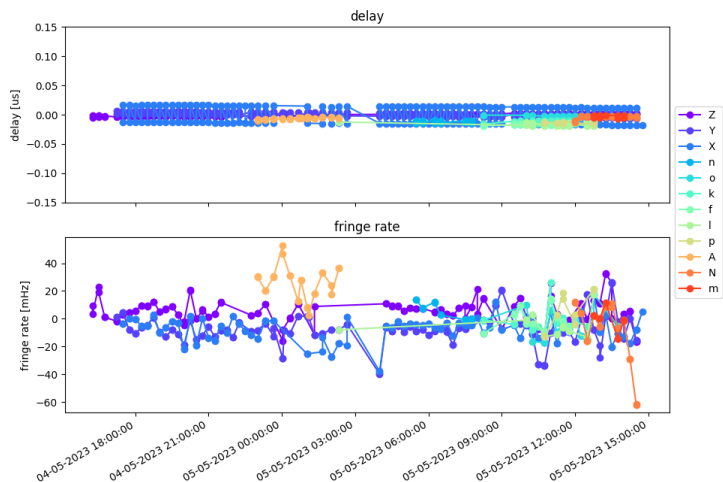
Delays statistics

st	#pts	mean	std.	dev
n	36	-0.0093	0.009258	
B	25	-0.0064	0.001505	
X	29	-0.0057	0.014235	
Y	34	-0.0047	0.003270	
Z	13	-0.0092	0.001560	
f	60	-0.0157	0.008334	
b	01	+0.8209	0.000000	
l	52	-0.0148	0.007138	
o	35	-0.0001	0.006693	
k	41	-0.0104	0.007494	
p	39	-0.0124	0.007958	
m	12	-0.0019	0.008459	

Fringe rate statistics

st	#pts	mean	std.	dev
n	36	+19.6389	5.755016	
B	25	+25.6068	11.716706	
X	29	+13.3076	8.135856	
Y	34	+12.4440	6.527144	
Z	13	+27.4688	3.925522	
f	60	+22.3885	11.469815	
b	01	+52.3332	0.000000	
l	52	+16.3799	7.578761	
o	35	+12.3259	5.143226	
k	41	+16.4021	6.287886	
p	39	+23.6201	5.990030	
m	12	+9.0392	4.878876	

Reference station: A      Pol: RR,LL,XX,YY,XR,YL



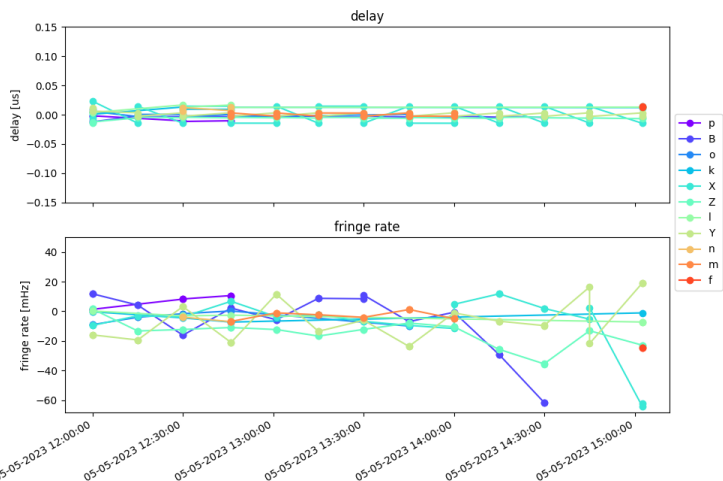
Delays statistics

st	#pts	mean	std.	dev
Z	130	-0.0004	0.002170	
Y	152	+0.0004	0.003582	
X	145	-0.0005	0.014780	
n	12	-0.0120	0.001987	
o	23	-0.0034	0.001316	
k	22	-0.0135	0.002689	
f	19	-0.0165	0.001159	
l	17	-0.0164	0.002660	
p	09	-0.0137	0.001023	
A	25	-0.0064	0.001505	
N	22	-0.0039	0.002561	
m	09	-0.0031	0.002057	

Fringe rate statistics

st	#pts	mean	std.	dev
Z	130	+5.5645	8.341572	
Y	152	-7.3471	10.117053	
X	145	-7.1695	8.903945	
n	12	+5.8468	5.581475	
o	23	-5.2668	9.072469	
k	22	-1.4818	8.589714	
f	19	-0.1086	7.221874	
l	17	-4.3627	9.594621	
p	09	+5.7162	13.074490	
A	25	+25.6068	11.716706	
N	22	-7.6314	20.731882	
m	09	-1.5446	7.739399	

Reference station: B      Pol: RR,LL,XX,YY,XR,YL



Delays statistics

st	#pts	mean	std.	dev
p	06	-0.0082	0.004072	
B	22	-0.0039	0.002561	
o	10	+0.0004	0.003937	
k	07	+0.0087	0.004425	
X	26	+0.0006	0.014642	
Z	26	-0.0058	0.002229	
l	08	+0.0113	0.004753	
Y	26	+0.0009	0.003816	
n	04	+0.0095	0.002682	
m	12	+0.0002	0.002721	
f	02	+0.0131	0.000651	

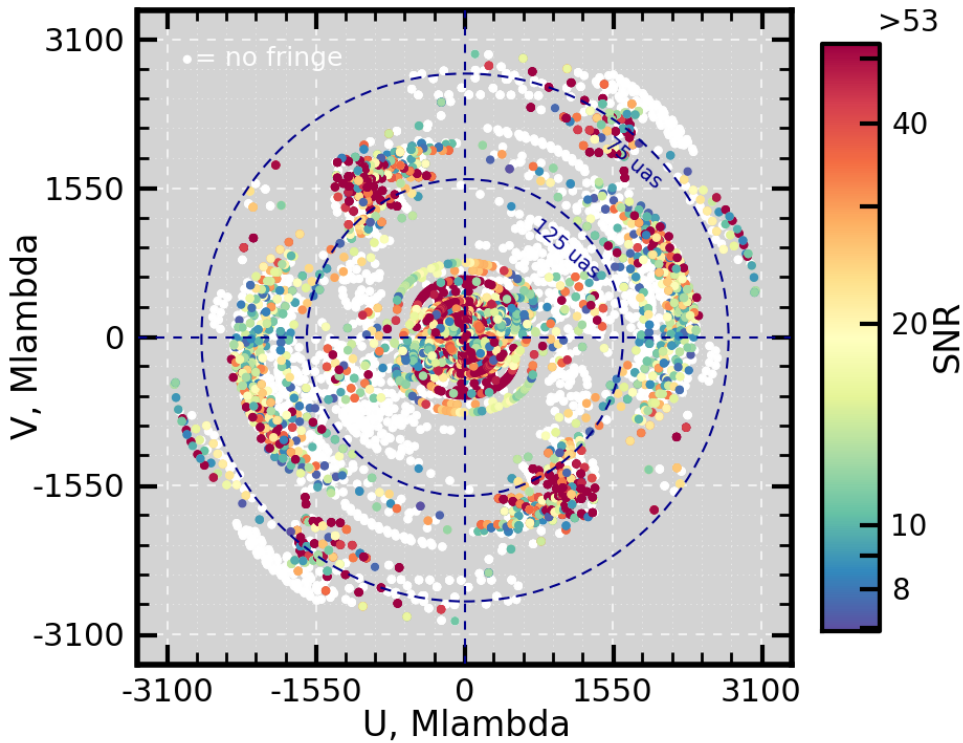
Fringe rate statistics

st	#pts	mean	std.	dev
p	06	+6.7566	3.943396	
B	22	-7.6314	20.731882	
o	10	-4.8797	4.018313	
k	07	-3.5791	2.855077	
X	26	-6.6459	17.504658	
Z	26	-14.7721	8.735036	
l	08	-3.1884	2.619890	
Y	26	-6.5980	13.334790	
n	04	-5.4686	1.539367	
m	12	-3.0111	2.633832	
f	02	-24.8092	0.006590	

Reference station: N      Pol: RR,LL,XX,YY,XR,YL

Detections 3mm

UV cov.: all sources, all antennas, all pols.



FITS completeness (pclist)

				EF	ON	OD	YS	MH	KY	KU	KT	AA	GL	NL	FD	OV
PT	BR	KP	LA LM MK	MM	AT	MP	NN									
c231a_001	No0001		1156+295	86ghz	o	o	x	o	o	o	x	.	.	.	.	.
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c231a_002	No0002		1156+295	86ghz	o	o	x	o	o	o	x	.	.	.	.	.
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c231a_003	No0003		1156+295	86ghz	o	o	x	o	o	o	x	.	.	.	.	.
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c231a_004	No0004		1156+295	86ghz	o	o	x	o	o	o	x	.	.	.	.	.
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c231a_005	No0005			3C273	86ghz	o	o	x	o	o	70	66	x	.	.	.
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c231a_006	No0006			3C273	86ghz	o	o	x	o	o	x	x	x	.	.	.
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c231a_007	No0007			3C273	86ghz	o	o	x	o	o	x	x	x	.	.	.
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c231a_008	No0008			3C273	86ghz	o	o	x	o	o	x	x	x	.	.	.
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c231a_009	No0009	3C273	86ghz	o	o	x	o	o	x	x	x	.	.	.	.	.
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c231a_010	No0010	3C273	86ghz	o	o	x	o	o	x	x	x	.	.	.	.	.
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c231a_011	No0011	1156+295	86ghz	o	o	x	o	o	x	x	x	.	.	.	.	.
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c231a_012	No0012	3C273	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_013	No0013	3C273	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_014	No0014	3C273	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_015	No0015	3C273	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_016	No0016	3C273	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_017	No0017	3C273	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_018	No0018	3C273	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_019	No0019	1156+295	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_020	No0020	3C273	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_021	No0021	3C273	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_022	No0022	3C273	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_023	No0023	3C273	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_024	No0024	3C273	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_025	No0025	3C273	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_026	No0026	3C273	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_027	No0027	3C273	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_028	No0028	1156+295	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_029	No0029	1156+295	86ghz	o	o	x	o	o	.	.	.	o	o	o	.	.
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c231a_030	No0030	NGC4278	86ghz	o	o	x	94	o	.	.	.	o	o	o	.	.
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	No0031	1156+295	86ghz	.	.	.	.	.	.	.	.	.	x	.	.	.
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c231a_031	No0032	1156+295	86ghz	o	o	x	o	o	.	.	.	o	o	o	o	o
o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.
c231a_032	No0033	NGC4278	86ghz	o	o	x	94	o	.	.	.	o	o	o	o	o
o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.

	No0034	1156+295	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.
c231a_033	No0035	3C273	86ghz	o	o	x	o	o	.	.	.	o	o	o	o	.
	No0036	M87	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.
c231a_034	No0037	NGC4374	86ghz	o	o	x	o	o	.	.	.	o	o	o	o	o
	No0038	M87	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.
c231a_035	No0039	3C273	86ghz	o	22	x	o	o	.	.	.	o	o	o	o	.
c231a_036	No0040	NGC4261	86ghz	o	o	x	o	o	.	.	.	o	o	o	o	o
	No0041	3C273	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.
c231a_037	No0042	1156+295	86ghz	o	o	x	o	o	.	.	.	o	o	o	o	o
c231a_038	No0043	NGC4278	86ghz	o	72	x	94	o	.	.	.	o	o	o	o	o
	No0044	1156+295	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.
c231a_039	No0045	3C273	86ghz	o	o	x	o	o	.	.	.	o	o	o	o	o
	No0046	M87	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.
c231a_040	No0047	NGC4374	86ghz	o	93	x	o	o	.	.	.	o	o	o	o	o
	No0048	M87	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.
c231a_041	No0049	3C273	86ghz	o	o	x	o	.	.	.	.	o	o	o	o	o
c231a_042	No0050	NGC4261	86ghz	o	o	x	94	o	.	.	.	o	o	o	o	o
	No0051	3C273	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.
c231a_043	No0052	1156+295	86ghz	o	o	x	o	o	.	.	.	o	o	o	o	o
c231a_044	No0053	NGC4278	86ghz	o	o	x	94	o	.	.	.	o	o	o	o	o
	No0054	1156+295	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.
c231a_045	No0055	3C273	86ghz	o	o	x	o	.	.	.	.	o	o	o	o	o
	No0056	M87	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.
c231a_046	No0057	NGC4374	86ghz	o	26	x	o	o	.	.	.	o	o	o	o	o
	No0058	M87	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.

c231a_047	No0059	3C273	86ghz	o	o	x	o	.	.	.	.	o	o	o	o	o
o	x	o	o	x	.	.	.	.	.	.	.	.	.	.	.	.
c231a_048	No0060	NGC4261	86ghz	o	38	x	94	.	.	.	.	o	o	o	o	o
o	x	o	o	x	.	.	.	.	.	.	.	.	.	.	.	.
	No0061	3C273	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.
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c231a_049	No0062	1156+295	86ghz	o	o	x	o	o	.	.	.	o	o	o	o	o
o	x	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.
	No0063	NGC4278	86ghz	x	x	x	x	x	.	.	.	x	x	x	x	x
x	x	x	x	x	x	.	.	.	.	.	.	.	.	.	.	.
	No0064	1156+295	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.
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c231a_051	No0065	3C273	86ghz	.	.	.	.	.	.	.	.	o	o	o	o	o
o	x	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.
	No0066	NGC4261	86ghz	.	.	.	.	.	.	.	.	x	x	x	x	x
x	x	x	x	x	x	.	.	.	.	.	.	.	.	.	.	.
	No0067	3C273	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.
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c231a_053	No0068	0954+658	86ghz	o	44	x	o	o	.	.	.	.	.	.	.	.
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c231a_054	No0069	NGC3998	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_055	No0070	3C273	86ghz	.	.	.	.	.	.	.	.	88	o	o	o	o
o	x	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.
	No0071	M87	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.
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c231a_056	No0072	NGC4374	86ghz	.	.	.	.	.	.	.	.	o	o	o	o	o
o	x	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.
	No0073	M87	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.
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c231a_057	No0074	0954+658	86ghz	o	44	x	o	o	.	.	.	.	.	.	.	.
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c231a_058	No0075	NGC3998	86ghz	o	16	x	o	o	.	.	.	.	.	.	.	.
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c231a_059	No0076	1156+295	86ghz	o	o	x	o	o	.	.	.	o	o	o	o	o
o	x	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.
c231a_060	No0077	NGC4278	86ghz	o	o	x	o	o	.	.	.	o	o	o	o	o
o	x	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.
	No0078	1156+295	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.
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c231a_061	No0079	3C273	86ghz	.	.	.	.	.	.	.	.	o	o	o	o	o
o	x	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.
c231a_062	No0080	NGC4261	86ghz	.	.	.	.	.	.	.	.	o	o	o	o	o
o	x	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.
	No0081	3C273	86ghz	.	.	.	.	.	.	.	.	x	.	.	.	.
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c231a_063	No0082	0954+658	86ghz	o	55	x	o	o	.	.	.	.	.	.	.	.
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c231a_064	No0083	NGC3998	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
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c231a_065	No0084	BLLAC	86ghz	o	75	x	o	o	.	.	.	.	x	.	.	.
c231a_066	No0085	3C279	86ghz	.	.	.	.	.	.	.	.	.	o	.	.	o
c231a_067	No0086	CEN-A	86ghz	.	.	.	.	.	.	.	.	.	o	.	.	o
c231a_068	No0087	3C273	86ghz	.	.	.	.	.	.	.	.	.	o	.	.	o
c231a_069	No0088	BLLAC	86ghz	o	o	x	o	o	.	.	.	.	.	.	.	.
c231a_070	No0089	CEN-A	86ghz	.	.	.	.	.	.	.	.	.	o	.	.	o
c231a_071	No0090	3C273	86ghz	.	.	.	.	.	.	.	.	.	.	x	o	.
c231a_072	No0091	BLLAC	86ghz	o	12	x	o	o	.	.	.	.	.	.	.	.
c231a_073	No0092	CEN-A	86ghz	.	.	.	.	.	.	.	.	.	o	.	.	o
c231a_074	No0093	3C273	86ghz	.	.	.	.	.	.	.	.	.	.	x	o	.
c231a_075	No0094	BLLAC	86ghz	o	95	x	o	o	.	.	.	.	.	.	.	.
c231a_076	No0095	CEN-A	86ghz	.	.	.	.	.	.	.	.	.	o	.	.	o
c231a_077	No0096	3C273	86ghz	.	.	.	.	.	.	.	.	.	.	x	o	.
c231a_078	No0097	BLLAC	86ghz	o	o	x	o	o	.	.	.	.	.	x	.	.
c231a_079	No0098	CEN-A	86ghz	.	.	.	.	.	.	.	.	.	.	x	.	o
c231a_080	No0099	3C273	86ghz	.	.	.	.	.	.	.	.	.	.	.	o	o
c231a_081	No0100	BLLAC	86ghz	o	o	x	o	o	.	.	.	.	.	x	.	.
c231a_082	No0101	CEN-A	86ghz	.	.	.	.	.	.	.	.	.	.	x	.	o
c231a_083	No0102	3C273	86ghz	.	.	.	.	.	.	.	.	.	.	x	.	o
c231a_084	No0103	3C273	86ghz	.	.	.	.	.	.	.	.	.	.	.	o	o
c231a_085	No0104	BLLAC	86ghz	o	95	x	o	o	.	.	.	.	.	x	o	.
c231a_086	No0105	CEN-A	86ghz	.	.	.	.	.	.	.	.	.	.	x	.	o
c231a_087	No0106	BLLAC	86ghz	o	o	x	o	o	.	.	.	.	.	x	o	.
c231a_088	No0107	CEN-A	86ghz	.	.	.	.	.	.	.	.	.	.	x	.	o
c231a_089	No0108	3C454.3	86ghz	o	o	x	o	o	.	.	.	.	.	x	.	.





c231a_115	No0134	CEN-A 86ghz	.	.	.	.	.	.	.	.	.	.	.	.	
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c231a_116	No0135	BLLAC 86ghz	o	70	x	o	o	.	.	.	.	x	o	o	o
o	x	o	o	.	.	.	.	.	.	.	.	.	.	.	
c231a_117	No0136	3C279 86ghz	.	.	.	.	.	.	.	.	.	.	.	.	
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c231a_118	No0137	BLLAC 86ghz	o	o	x	o	o	.	.	.	.	x	o	o	o
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c231a_119	No0138	CEN-A 86ghz	.	.	.	.	.	.	.	.	.	.	.	.	
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c231a_120	No0139	BLLAC 86ghz	o	95	x	o	o	.	.	.	.	x	o	o	o
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c231a_121	No0140	CEN-A 86ghz	.	.	.	.	.	.	.	.	.	.	.	.	
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c231a_122	No0141	BLLAC 86ghz	o	42	x	o	o	.	.	.	.	x	o	o	o
o	x	o	o	x	.	.	.	.	.	.	.	.	.	.	
c231a_123	No0142	CEN-A 86ghz	.	.	.	.	.	.	.	.	.	.	.	.	
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c231a_124	No0143	3C454.3 86ghz	o	o	x	o	o	.	.	.	.	x	o	o	o
o	x	o	o	x	.	.	.	.	.	.	.	.	.	.	
c231a_125	No0144	CEN-A 86ghz	.	.	.	.	.	.	.	.	.	.	.	.	
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c231a_126	No0145	BLLAC 86ghz	o	08	x	o	o	.	.	.	.	x	o	o	o
o	x	o	o	x	.	.	.	.	.	.	.	.	.	.	
c231a_127	No0146	CEN-A 86ghz	.	.	.	.	.	.	.	.	.	.	.	.	
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c231a_128	No0147	BLLAC 86ghz	o	70	x	o	o	.	.	.	.	x	o	o	o
o	x	o	o	x	.	.	.	.	.	.	.	.	.	.	
c231a_129	No0148	3C279 86ghz	.	.	.	.	.	.	.	.	.	.	.	.	
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c231a_130	No0149	BLLAC 86ghz	o	o	x	o	o	.	.	.	.	x	o	o	o
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c231a_131	No0150	CEN-A 86ghz	.	.	.	.	.	.	.	.	.	.	.	.	
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c231a_132	No0151	3C454.3 86ghz	o	o	x	o	o	.	.	.	.	x	o	o	o
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c231a_133	No0152	CEN-A 86ghz	.	.	.	.	.	.	.	.	.	.	.	.	
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c231a_134	No0153	BLLAC 86ghz	o	70	x	o	o	.	.	.	.	x	o	o	o
o	x	o	o	x	.	.	.	.	.	.	.	.	.	.	
c231a_135	No0154	CEN-A 86ghz	.	.	.	.	.	.	.	.	.	.	.	.	
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c231a_136	No0155	BLLAC 86ghz	o	o	x	o	o	.	.	.	.	x	o	o	o
o	x	o	o	x	.	.	.	.	.	.	.	.	.	.	
c231a_137	No0156	CEN-A 86ghz	.	.	.	.	.	.	.	.	.	.	.	.	
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c231a_138	No0157	BLLAC 86ghz	o	o	x	o	o	.	.	.	.	x	o	o	o
o	x	o	o	x	.	.	.	.	.	.	.	.	.	.	
c231a_139	No0158	CEN-A 86ghz	.	.	.	.	.	.	.	.	.	.	.	.	
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c231a_140	No0159	3C454.3	86ghz	o	o	x	o	o	.	.	.	.	x	.	.	o
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c231a_141	No0160	CEN-A	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.
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c231a_142	No0161	J2348-1631	86ghz	.	.	.	.	.	.	.	.	.	o	.	o	o
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c231a_143	No0162	J2258-2758	86ghz	.	.	.	.	.	.	.	.	.	o	.	o	o
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c231a_144	No0163	BLLAC	86ghz	o	45	x	o	o	.	.	.	.	x	.	.	o
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c231a_145	No0164	CEN-A	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.
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c231a_146	No0165	J2348-1631	86ghz	.	.	.	.	.	.	.	.	.	o	.	o	o
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	No0166	J2248-3235	86ghz	.	.	.	.	.	.	.	.	.	x	.	.	.
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c231a_147	No0167	IC1459	86ghz	.	.	.	.	.	.	.	.	.	o	.	.	o
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	No0168	J2248-3235	86ghz	.	.	.	.	.	.	.	.	.	x	.	.	.
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c231a_148	No0169	BLLAC	86ghz	o	42	x	o	o	.	.	.	.	x	o	.	o
				o	x	o	o	.	.	.	.	.	.	.	.	.
c231a_149	No0170	3C279	86ghz	.	.	.	.	.	.	x	x	x	.	.	.	.
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c231a_150	No0171	J2258-2758	86ghz	.	.	.	.	.	.	.	.	.	o	.	o	o
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	No0172	J2248-3235	86ghz	.	.	.	.	.	.	.	.	.	x	.	.	.
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c231a_151	No0173	IC1459	86ghz	.	.	.	.	.	.	.	.	.	o	.	.	o
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	No0174	J2248-3235	86ghz	.	.	.	.	.	.	.	.	.	x	.	.	.
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c231a_152	No0175	BLLAC	86ghz	o	88	x	o	o	.	.	.	.	x	o	.	o
				o	x	o	o	.	.	.	.	.	.	.	.	.
c231a_153	No0176	3C454.3	86ghz	.	o	x	o	o	.	.	.	.	x	o	o	o
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c231a_154	No0177	CEN-A	86ghz	.	.	.	.	.	.	x	x	x	.	.	.	.
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c231a_155	No0178	BLLAC	86ghz	o	o	x	o	o	.	.	.	.	x	.	.	.
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c231a_156	No0179	CEN-A	86ghz	.	.	.	.	.	.	x	x	x	.	.	.	.
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c231a_157	No0180	J2348-1631	86ghz	.	.	.	.	.	.	.	.	.	o	.	o	o
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	No0181	J2248-3235	86ghz	.	.	.	.	.	.	.	.	.	x	.	.	.
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c231a_158	No0182	IC1459	86ghz	.	.	.	.	.	.	.	.	.	o	.	o	o
				o	.	o	o	x	.	.	.	.	.	.	.	.
	No0183	J2248-3235	86ghz	.	.	.	.	.	.	.	.	.	x	.	.	.
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c231a_159	No0184	BLLAC	86ghz	o	50	x	o	o	.	.	.	.	x	.	.	.
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c231a_160	No0185	CEN-A	86ghz	.	.	.	.	.	x	x	x	.	.	.	.	.
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c231a_161	No0186	J2258-2758	86ghz	.	.	.	.	.	.	.	.	.	o	.	o	o
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	No0187	J2248-3235	86ghz	.	.	.	.	.	.	.	.	.	x	.	.	.
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c231a_162	No0188	IC1459	86ghz	.	.	.	.	.	.	.	.	.	o	.	o	o
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	No0189	J2248-3235	86ghz	.	.	.	.	.	.	.	.	.	x	.	.	.
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c231a_163	No0190	BLLAC	86ghz	o	66	x	o	o	.	.	.	.	x	.	.	.
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c231a_164	No0191	CEN-A	86ghz	.	.	.	.	.	x	x	x	.	.	.	.	.
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c231a_165	No0192	J2348-1631	86ghz	.	.	.	.	.	.	.	.	.	o	.	o	o
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	No0193	J2248-3235	86ghz	.	.	.	.	.	.	.	.	.	x	.	.	.
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c231a_166	No0194	IC1459	86ghz	.	.	.	.	.	.	.	.	.	o	.	o	o
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	No0195	J2248-3235	86ghz	.	.	.	.	.	.	.	.	.	x	.	.	.
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c231a_167	No0196	BLLAC	86ghz	o	o	x	o	o	.	.	.	.	x	.	.	o
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c231a_168	No0197	CEN-A	86ghz	.	.	.	.	.	x	x	x	.	.	.	.	.
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c231a_169	No0198	BLLAC	86ghz	o	o	x	o	o	.	.	.	.	x	.	.	.
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c231a_170	No0199	3C279	86ghz	.	.	.	.	.	x	x	x	.	.	.	.	.
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c231a_171	No0200	CEN-A	86ghz	.	.	.	.	.	x	x	x	.	.	.	.	.
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c231a_172	No0201	J2258-2758	86ghz	.	.	.	.	.	.	.	.	.	o	.	o	o
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	No0202	J2248-3235	86ghz	.	.	.	.	.	.	.	.	.	x	.	.	.
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c231a_173	No0203	IC1459	86ghz	.	.	.	.	.	.	.	.	.	o	.	o	o
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	No0204	J2248-3235	86ghz	.	.	.	.	.	.	.	.	.	x	.	.	.
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c231a_174	No0205	BLLAC	86ghz	o	o	x	o	o	.	.	.	.	x	.	.	.
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c231a_175	No0206	CEN-A	86ghz	.	.	.	.	.	x	x	x	.	.	.	.	.
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c231a_176	No0207	J2348-1631	86ghz	.	.	.	.	.	.	.	.	.	o	.	o	o
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	No0208	J2248-3235	86ghz	.	.	.	.	.	.	.	.	.	x	.	.	.
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