

C231B 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
- No fringes to LMT, no data from Hs.
- Mopra 86 GHz is linearly polarized.
- Kt (no maser) and Br did not observe.

Status

what	date
Finished v1 correlation of 7mm and sent to PIs	23 Oct 2023
Finished v1 correlation of 3mm	5 Dec 2023
Need to convert Aa pol	6 Dec 2023
Started recorrelation of v1 3mm; removes duplicate frequency records due v2d mistake	18 Dec 2023
Finished recorrelation of v1 3mm	08 Jan 2024
Waiting for ALMA QA2 calibration tables	...
Sent to PI (ALMA uncorrected)	28 Feb 2024
Polswap for Gl and Aa in v1, no qa2 yet for polconvert	

Fringes

Station	Code	Fringes	Plots	Comments
Ef		yes		
Nn		yes		Intra Eu and VLBA
Mh		yes		
On		yes		
Od		yes		
Ys		yes		
Gl		yes		
Ku		yes		
Ky		yes		
VLBA(10) + Gb (ref)		yes		Both intra baselines and to Eu

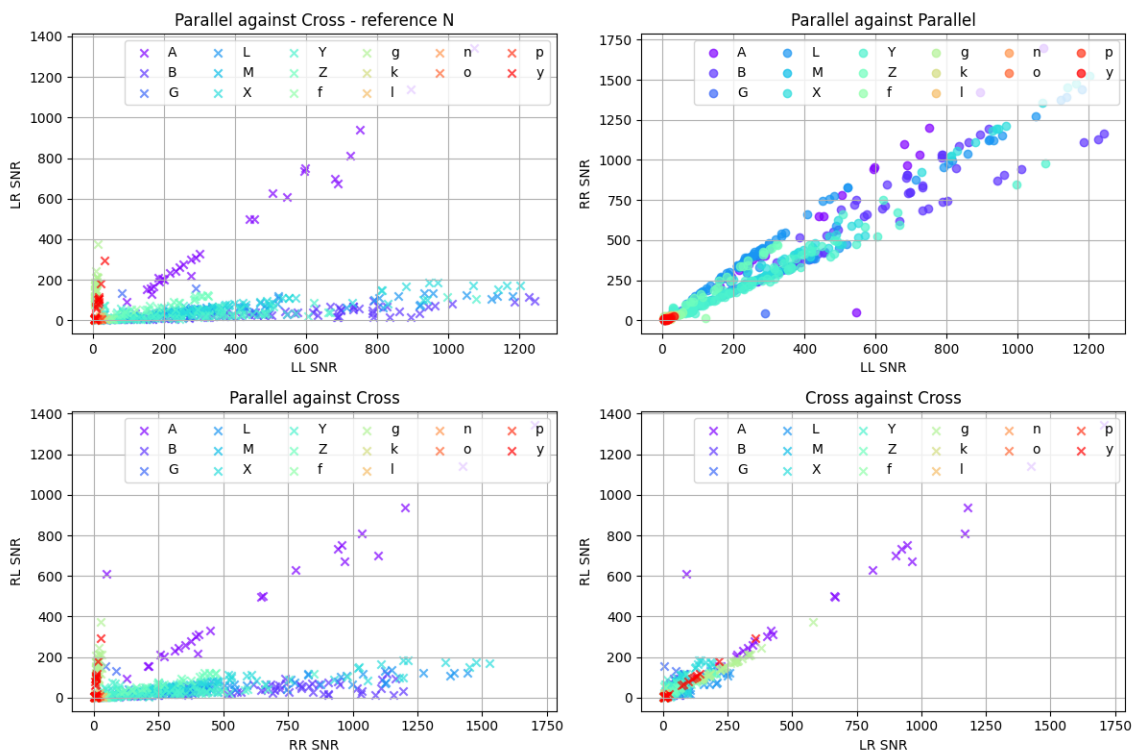
Station	Code	Fringes	Plots	Comments
Mp		yes		To At and KVN at least
At		yes		To Mp and KVN at least
Mm		yes		To VLBA_MK and other VLBA antennas
Aa		yes		
Lm		no		

Notes

- Ys late in a number of scans
- No PV due to maintenance
- Again OpenMPI and slurm problems; problematic scans recorelated under DiFX 2.8.1 + patched openmpi 5.0.0

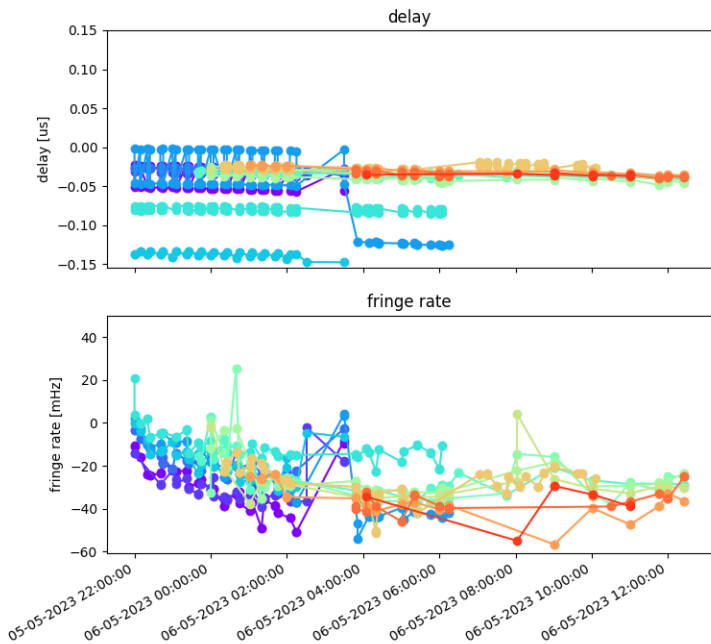
Post-Correlation checks

Polarization



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

Residuals



Delays statistics

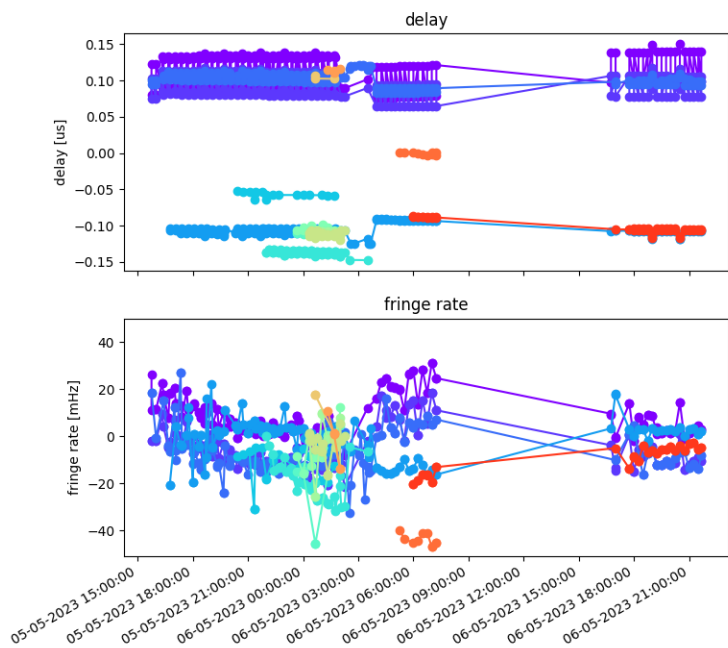
st	#pts	mean	std. dev
X	54	-0.0393	0.014016
Y	50	-0.0319	0.003405
B	54	-0.0280	0.001368
L	78	-0.0554	0.048921
N	54	-0.1371	0.003217
g	72	-0.0795	0.003032
f	74	-0.0354	0.002995
l	66	-0.0312	0.003666
p	46	-0.0400	0.003472
k	47	-0.0335	0.003312
G	66	-0.0260	0.003793
o	34	-0.0297	0.004266
m	23	-0.0348	0.003055
n	08	-0.0351	0.001442

Fringe rate statistics

st	#pts	mean	std. dev
X	54	-30.3305	10.547703
Y	50	-29.8679	7.184590
B	54	-17.9955	6.572948
L	78	-25.1313	14.971472
N	54	-18.3018	8.370775
g	72	-11.0478	6.625609
f	74	-25.3701	8.701093
l	66	-28.3318	12.362407
p	46	-25.3389	8.786437
k	47	-29.6939	8.951332
G	66	-27.3312	7.252228
o	34	-37.0134	7.644666
m	23	-36.7256	5.076594
n	08	-36.4889	7.688047

Reference station: A

Pol: RR,LL,XX,YY,XR,YL



Delays statistics

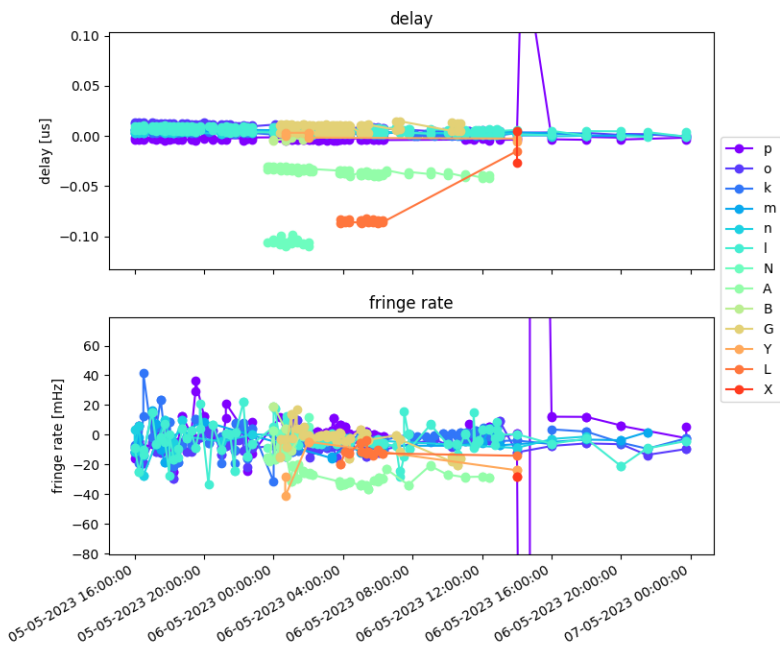
st	#pts	mean	std. dev
L	193	+0.1109	0.022038
X	193	+0.0930	0.015817
Y	196	+0.1016	0.008565
B	179	-0.1056	0.006909
g	17	-0.0570	0.003367
A	54	-0.1371	0.003217
l	08	-0.1115	0.001602
f	18	-0.1051	0.003106
k	11	-0.1093	0.001456
G	20	-0.1114	0.003522
p	03	+0.1040	0.002087
o	04	+0.1138	0.001869
y	10	-0.0004	0.001692
Z	47	-0.1016	0.008620

Fringe rate statistics

st	#pts	mean	std. dev
L	193	+8.0550	8.371649
X	193	-5.3768	8.538963
Y	196	-6.6035	9.030611
B	179	-0.9975	8.087310
g	17	-13.2777	8.053548
A	54	-18.3018	8.370775
l	08	-16.7046	18.058931
f	18	-4.4398	7.106630
k	11	-2.8958	11.588097
G	20	-4.0035	5.628581
p	03	+12.0665	7.681037
o	04	-0.2082	8.638465
y	10	-43.8976	2.348881
Z	47	-8.9858	5.508349

Reference station: N

Pol: RR,LL,XX,YY,XR,YL



Delays statistics

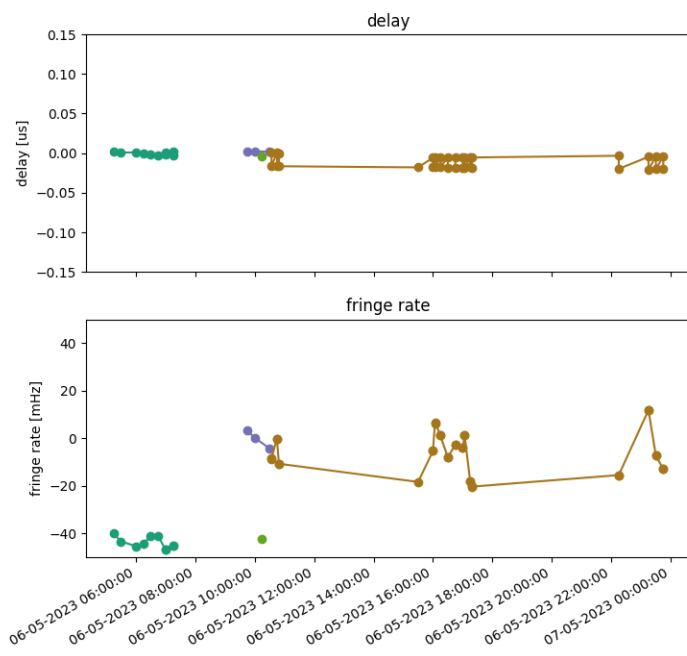
st	#pts	mean	std. dev
p	132	+0.0022	0.044541
o	139	+0.0086	0.002974
k	176	+0.0030	0.001660
m	43	+0.0043	0.002160
n	26	+0.0028	0.001322
l	172	+0.0056	0.002693
N	18	-0.1051	0.003106
A	74	-0.0354	0.002995
B	06	-0.0034	0.001120
G	63	+0.0077	0.003958
Y	06	-0.0006	0.003109
L	20	-0.0813	0.015256
X	02	-0.0107	0.015509

Fringe rate statistics

st	#pts	mean	std. dev
p	132	-0.4097	137.723792
o	139	-7.1938	6.433160
k	176	-2.3067	7.610198
m	43	-5.0301	7.795473
n	26	-2.6663	9.535699
l	172	-3.2219	8.953332
N	18	-4.4398	7.106630
A	74	-25.3701	8.701093
B	06	+6.4110	10.339043
G	63	-3.0737	7.392771
Y	06	-21.0473	12.972079
L	20	-11.7052	3.854703
X	02	-27.9905	0.060255

Reference station: f

Pol: RR,LL,XX,YY,XR,YL



Delays statistics

st	#pts	mean	std. dev
N	10	-0.0004	0.001692
W	03	+0.0020	0.000305
L	01	-0.0035	0.000000
u	33	-0.0114	0.007290

Fringe rate statistics

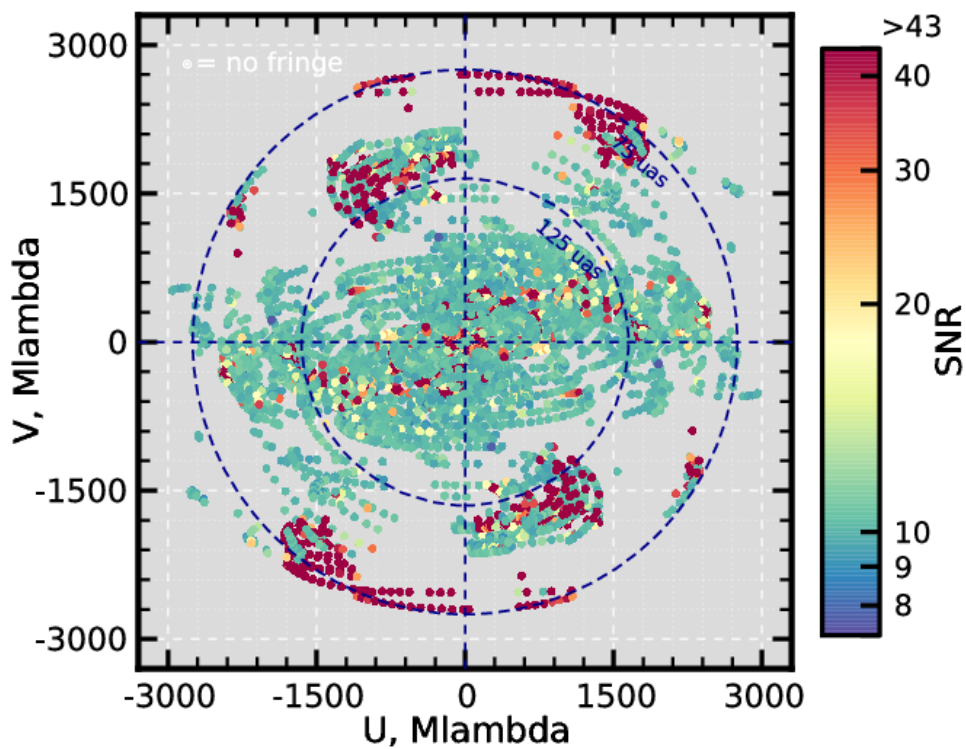
st	#pts	mean	std. dev
N	10	-43.8976	2.348881
W	03	-0.2255	3.105525
L	01	-42.3463	0.000000
u	33	-6.1427	8.623971

Reference station: y

Pol: RR,LL,XX,YY,XR,YL

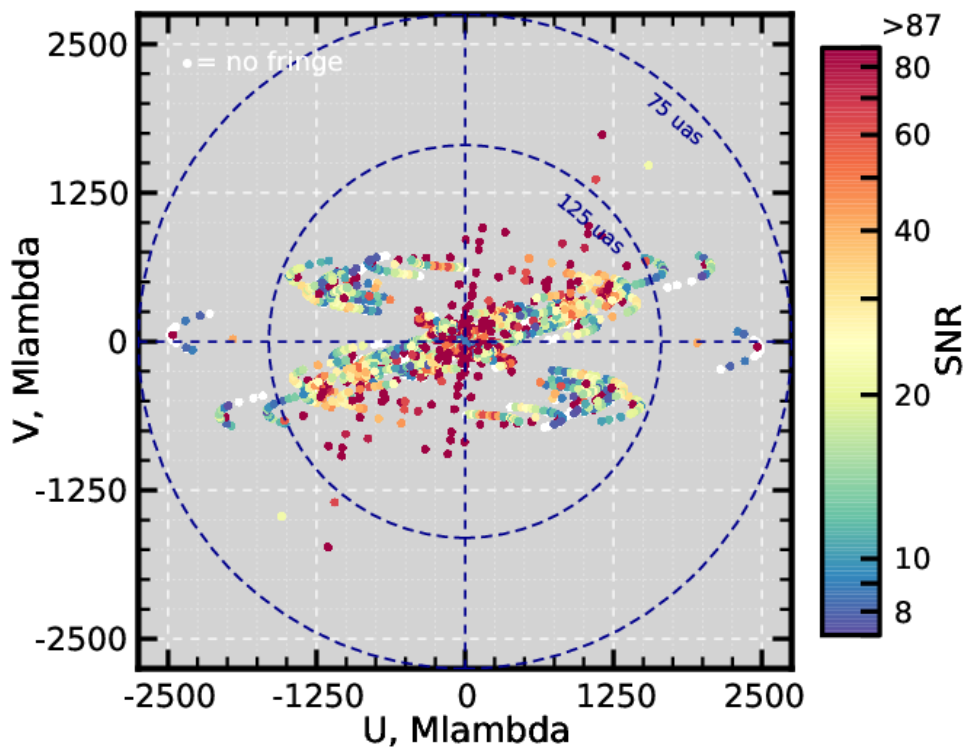
Detections 3mm

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



Detections 7mm

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



FITS completeness (plist)

																EF	ON	OD	YS	MH	NN	KY	
KU	KT	FD	GL	NL	OV	PT	BR	KP	MK	LA	GB	AA	HS	LM	MM	AT	MP	HN	SC				
c231b_001	No0398						1156+295									86ghz	o	o	o	o	x	o	o
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_002	No0403						BLLAC									86ghz	.	.	.	.	.	.	.
.	.	o	x	o	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_003	No0404						1156+295									86ghz	o	o	o	o	x	o	o
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	No0405						3C279									86ghz	.	.	.	.	.	.	x
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_004	No0410						BLLAC									86ghz	.	.	.	.	.	.	.
.	.	o	x	o	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_005	No0413						3C454.3									86ghz	.	.	.	.	.	.	.
.	.	o	x	o	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_006	No0414						3C273									86ghz	.	o	o	.	x	o	o
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_007	No0415						M87									86ghz	o	o	o	o	x	o	o
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_008	No0420						BLLAC									86ghz	.	.	.	.	.	.	.
.	.	o	x	o	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_009	No0421						3C273									86ghz	.	o	o	o	x	o	o
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_010	No0422						M87									86ghz	o	o	o	98	x	o	o
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_011	No0427						BLLAC									86ghz	.	.	.	.	.	.	.
.	.	o	x	o	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_012	No0428						3C273									86ghz	o	o	o	o	x	o	o
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_013	No0429						M87									86ghz	o	o	o	98	x	o	o
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	No0430						3C279									86ghz	.	.	.	.	.	.	x
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_014	No0434						3C454.3									86ghz	.	.	.	.	.	.	.
.	.	o	x	o	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_015	No0439						BLLAC									86ghz	.	.	.	.	.	.	.
.	.	o	x	o	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_016	No0440						3C273									86ghz	o	o	o	o	x	o	x
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_017	No0441						M87									86ghz	o	o	o	98	x	o	x
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_018	No0446						BLLAC									86ghz	.	.	.	.	.	.	.
.	.	o	x	o	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_019	No0447						3C273									86ghz	o	o	o	o	x	o	x
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_020	No0448						M87									86ghz	o	o	o	98	x	o	x
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

c231b_021	No0452	3C454.3	86ghz	.	.	.	.	.	.	.	.
.
c231b_022	No0453	3C273	86ghz	o	o	o	o	x	o	x	.
x	x	.	.	.	.	.	.	.	.	.	.
c231b_023	No0454	M87	86ghz	o	o	o	98	x	o	x	.
x	x	.	.	.	.	.	.	.	.	.	.
c231b_024	No0459	BLLAC	86ghz	.	.	.	.	.	.	.	.
.
c231b_025	No0464	BLLAC	86ghz	.	.	.	.	.	.	.	.
.
c231b_026	No0465	3C273	86ghz	o	o	o	o	x	o	x	.
x	x	.	.	.	.	.	.	.	.	.	.
c231b_027	No0466	M87	86ghz	o	o	o	98	x	o	x	.
x	x	.	.	.	.	.	.	.	.	.	.
c231b_028	No0470	3C454.3	86ghz	.	.	.	.	.	.	.	.
.
c231b_029	No0471	3C279	86ghz	o	o	o	o	x	o	.	.
.
c231b_030	No0472	M87	86ghz	o	o	o	98	x	o	x	.
x	x	.	.	.	.	.	.	.	.	.	.
c231b_031	No0477	BLLAC	86ghz	.	.	.	.	.	.	.	.
.
c231b_032	No0478	3C273	86ghz	o	o	o	o	x	o	.	.
.
c231b_033	No0479	M87	86ghz	o	o	o	o	x	o	.	.
.
c231b_034	No0484	BLLAC	86ghz	.	.	.	.	.	.	.	x
x	x	.	.	.	.	.	.	.	.	.	.
c231b_035	No0488	3C454.3	86ghz	.	.	.	.	.	.	.	x
x	x	.	.	.	.	.	.	.	.	.	.
c231b_036	No0489	3C273	86ghz	o	o	o	o	x	o	.	.
.
c231b_037	No0490	M87	86ghz	o	o	o	o	x	o	.	.
.
c231b_038	No0495	BLLAC	86ghz	.	.	.	.	.	.	.	x
x	x	.	.	.	.	.	.	.	.	.	.
c231b_039	No0496	3C279	86ghz	o	o	o	o	x	o	.	.
.
c231b_040	No0497	M87	86ghz	o	o	o	o	x	o	.	.
.
c231b_041	No0502	BLLAC	86ghz	.	.	.	.	.	.	.	x
x	x	.	.	.	.	.	.	.	.	.	.
c231b_042	No0503	3C273	86ghz	o	o	o	o	x	o	.	.
.
c231b_043	No0504	M87	86ghz	o	o	o	98	x	o	.	.
.
c231b_044	No0509	3C454.3	86ghz	.	.	.	.	.	.	.	x
x	x	.	.	.	.	.	.	.	.	.	.
c231b_045	No0514	BLLAC	86ghz	.	.	.	.	.	.	.	x
x	x	.	.	.	.	.	.	.	.	.	.

c231b_046	No0515	3C273	86ghz	o	o	o	o	x	o	.
.
c231b_047	No0516	M87	86ghz	o	o	o	o	x	o	.
.
c231b_048	No0521	BLLAC	86ghz	.	.	.	.	.	.	x
x	x	o	.	o	o	o	x	o	o	o
c231b_049	No0522	3C279	86ghz	o	o	o	o	x	o	.
.
c231b_050	No0523	M87	86ghz	o	o	o	o	x	o	.
.
c231b_051	No0528	BLLAC	86ghz	.	.	.	.	.	.	x
x	x	o	.	o	o	o	x	o	o	o
c231b_052	No0529	3C273	86ghz	o	o	o	o	x	o	.
.
c231b_053	No0530	M87	86ghz	o	o	o	98	x	o	.
.
c231b_054	No0535	3C84	86ghz	.	.	.	.	.	.	x
x	x	o	.	o	o	o	x	o	o	o
c231b_055	No0540	3C84	86ghz	.	.	.	.	.	.	x
x	x	o	.	o	o	o	x	o	o	o
c231b_056	No0541	3C273	86ghz	o	o	o	o	x	o	.
.
c231b_057	No0542	M87	86ghz	o	o	o	o	x	o	.
.
c231b_058	No0547	3C84	86ghz	.	.	.	.	.	.	x
x	x	o	.	o	o	o	x	o	o	o
c231b_059	No0548	3C279	86ghz	o	o	o	o	x	o	.
.
c231b_061	No0549	M87	86ghz	o	o	o	o	x	o	.
.
c231b_062	No0554	3C84	86ghz	.	.	.	.	.	.	x
x	x	o	.	o	o	o	x	o	o	o
	No0555	1156+295	86ghz	.	.	.	.	.	.	.
.
c231b_064	No0556	3C273	86ghz	o	o	o	o	x	o	.
.
c231b_065	No0557	M87	86ghz	o	o	o	o	x	o	.
.
c231b_066	No0558	M87	86ghz	o	o	o	90	x	o	.
.
c231b_067	No0563	3C84	86ghz	.	.	.	.	.	.	x
x	x	o	.	o	o	o	x	o	o	o
c231b_068	No0568	3C84	86ghz	.	.	.	.	.	.	x
x	x	o	.	o	o	o	x	o	o	o
c231b_069	No0569	3C273	86ghz	o	o	o	o	x	o	.
.
c231b_070	No0570	M87	86ghz	o	o	o	o	x	o	.
.
c231b_071	No0575	3C84	86ghz	.	.	.	.	.	.	x
x	x	o	.	o	o	o	x	o	o	o

	No0576	3C273								86ghz	.	.	.	.	.	.	.
.
c231b_072	No0577	3C273	.	x	.	.	.	.	.	86ghz	o	o	o	o	x	o	.
.
c231b_073	No0578	M87	.	.	.	.	.	.	.	86ghz	o	o	o	o	x	o	.
.
c231b_074	No0583	3C84	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	x
x	x	o	.	o	o	o	x	o	o	.	.	.	.	.	.	.	.
c231b_075	No0584	3C279	.	.	.	.	.	.	.	86ghz	o	o	o	o	x	o	.
.
c231b_076	No0587	M87	.	.	.	.	.	.	.	86ghz	o	o	o	o	x	o	.
.
c231b_077	No0592	3C84	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	x
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_078	No0597	3C84	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	x
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	No0598	3C273	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
.
c231b_079	No0601	3C273	.	.	.	.	.	.	.	86ghz	o	o	o	o	x	o	.
.
c231b_080	No0602	M87	.	.	.	.	.	.	.	86ghz	o	o	o	98	x	o	.
.
c231b_081	No0607	3C84	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	x
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_082	No0608	3C273	.	.	.	.	.	.	.	86ghz	o	o	o	o	x	o	.
.
c231b_083	No0609	M87	.	.	.	.	.	.	.	86ghz	o	o	o	98	x	o	.
.
c231b_084	No0612	3C84	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	x
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_085	No0614	3C273	.	.	.	.	.	.	.	86ghz	o	o	o	o	x	o	.
.
c231b_086	No0617	M87	.	.	.	.	.	.	.	86ghz	o	o	o	o	x	o	.
.
	No0618	3C273	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
.
c231b_087	No0623	3C273	.	.	.	.	.	.	.	86ghz	o	o	o	o	x	o	.
.
c231b_088	No0624	M87	.	.	.	.	.	.	.	86ghz	o	o	o	98	x	o	.
.
c231b_089	No0625	3C279	.	.	.	.	.	.	.	86ghz	o	o	o	o	.	o	.
.
c231b_090	No0628	M87	.	.	.	.	.	.	.	86ghz	o	o	o	o	x	o	.
.
	No0629	3C273	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
.
c231b_091	No0634	3C273	.	.	.	.	.	.	.	86ghz	o	o	o	o	x	o	.
.
c231b_092	No0635	M87	.	.	.	.	.	.	.	86ghz	o	o	o	o	x	o	.
.

c231b_093	No0637	3C273	86ghz	o	o	o	o	.	o	.
.	.	o	o	o	o	o	x	.	.	.
c231b_094	No0638	M87	86ghz	o	o	o	o	x	o	.
.	.	o	o	o	o	o	x	.	.	.
	No0639	3C273	86ghz	.	.	.	.	.	.	.
.	.	.	.	.	.	.	x	.	.	.
c231b_095	No0644	3C273	86ghz	o	o	o	o	.	o	.
.	.	o	o	o	o	o	x	.	.	.
c231b_096	No0645	M87	86ghz	o	o	o	98	x	o	.
.	.	o	o	o	o	o	x	.	.	.
c231b_097	No0647	3C279	86ghz	.	.	.	o	.	o	.
.	.	o	.	o	o	o	x	o	.	.
c231b_098	No0648	M87	86ghz	o	o	o	o	.	o	.
.	.	o	70	o	o	o	x	o	.	.
c231b_099	No0649	M87	86ghz	o	o	o	o	.	o	.
.	.	o	o	o	o	o	x	o	.	.
c231b_100	No0650	NRAO530	86ghz	o	.	.	o	.	o	.
.	.	.	.	.	.	.	o	.	.	.
c231b_101	No0651	SGR_A	86ghz	o	.	.	o	.	o	.
.	.	.	.	.	.	.	o	.	.	.
	No0652	3C273	86ghz	.	.	.	.	.	.	.
.	.	.	.	.	.	.	x	.	.	.
c231b_102	No0657	3C273	86ghz	.	.	.	.	.	.	.
.	.	o	o	o	o	o	x	o	.	.
c231b_103	No0658	M87	86ghz	.	o	o	.	.	.	.
.	.	o	o	o	o	o	x	o	o	.
c231b_104	No0659	M87	86ghz	.	o	o	.	.	.	.
.	.	o	o	o	o	o	x	o	o	.
	No0660	1757-240	86ghz	x	.	.	.	.	.	.
.
c231b_105	No0661	SGR_A	86ghz	o	.	.	o	.	o	.
.	.	.	.	.	.	.	o	.	.	.
c231b_106	No0663	3C273	86ghz	.	.	.	.	.	.	.
.	.	o	o	o	o	o	x	o	o	.
c231b_107	No0664	M87	86ghz	.	.	.	.	.	.	.
.	.	o	o	o	o	o	x	o	o	.
	No0665	1757-240	86ghz	x	.	.	.	.	.	.
.
c231b_108	No0666	SGR_A	86ghz	o	.	.	o	.	o	.
.	.	.	.	.	.	.	o	.	.	.
c231b_109	No0667	SGR_A	86ghz	o	.	.	93	.	o	.
.	.	.	.	.	.	.	o	.	.	.
c231b_110	No0668	SGR_A	86ghz	o	.	.	o	.	o	.
.	.	.	.	.	.	.	o	.	.	.
c231b_111	No0669	SGR_A	86ghz	o	.	.	91	.	o	.
.	.	.	.	.	.	.	o	.	.	.
	No0670	3C279	86ghz	.	.	.	.	.	.	.
.	.	.	.	.	.	.	x	.	.	.
c231b_112	No0674	3C279	86ghz	.	.	.	.	.	.	.
.	.	o	.	o	o	o	x	o	o	.

c231b_113	No0675	M87	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	o	o	o	o	x	o	o	o	.	x	o	o	.	.	.	.	.
c231b_114	No0676	M87	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	o	o	o	o	x	o	o	o	.	x	o	o	.	.	.	.	.
c231b_115	No0677	NRAO530	86ghz	o	o	o	o	.	o	.	.	.	.	.	.	.	.	.	.
.
c231b_116	No0678	SGR_A	86ghz	o	.	.	.	o	.	o	.	.	.	.	.	.	.	.	.
.
c231b_117	No0679	3C273	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	o	o	o	o	x	o	o	o	o	x	o	o	.	.	.	.	.
c231b_118	No0680	M87	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	o	o	o	o	x	o	o	o	o	x	o	o	.	.	.	.	.
c231b_119	No0681	SGR_A	86ghz	o	.	.	.	o	.	o	.	.	.	.	.	.	.	.	.
.
	No0682	3C273	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.
c231b_120	No0687	3C273	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	o	o	o	o	x	o	o	o	o	x	o	o	.	.	.	.	.
c231b_121	No0688	M87	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	o	o	o	o	x	o	o	o	o	x	o	o	.	.	.	.	.
c231b_122	No0689	0954+658	86ghz	o	o	o	o	o	x	o	x	o	x	o	x	o	x	o	x
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_123	No0690	0954+658	86ghz	o	o	o	o	o	x	o	x	o	x	o	x	o	x	o	x
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_124	No0691	3C279	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	o	o	o	o	x	o	o	o	o	x	o	o	.	.	.	.	.
c231b_125	No0692	M87	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	o	o	o	o	x	o	o	o	o	x	o	o	.	.	.	.	.
c231b_126	No0693	0954+658	86ghz	o	o	o	o	o	x	o	x	o	x	o	x	o	x	o	x
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	No0694	3C273	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.
c231b_127	No0699	3C273	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	o	o	o	o	x	o	o	o	o	x	o	o	.	.	.	.	.
c231b_128	No0700	M87	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	o	o	o	o	x	o	o	o	o	x	o	o	.	.	.	.	.
c231b_129	No0701	0954+658	86ghz	o	o	o	o	o	x	o	x	o	x	o	x	o	x	o	x
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_130	No0704	3C273	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	o	o	o	o	x	o	o	o	o	x	o	o	.	.	.	.	.
c231b_131	No0705	M87	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	o	o	o	o	x	o	o	o	o	x	o	o	.	.	.	.	.
c231b_132	No0706	0954+658	86ghz	o	o	o	o	o	x	o	95	o	95	o	95	o	95	o	95
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_133	No0707	0954+658	86ghz	o	o	o	o	o	x	o	o	o	o	o	.	.	.	.	.
x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	No0708	3C279	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.
c231b_134	No0713	3C279	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	.	o	o	o	x	o	o	o	o	x	o	o	.	.	.	.	.

c231b_135	No0714	M87	86ghz	.	.	.	.	.	.	.	.
.	.	o o o o	o x o o	o	o	o	x	o	o	.	.
c231b_136	No0715	0954+658	86ghz	o	o	o	o	x	o	o	.
x	x	.	.	.	.	.	.	.	.	.	.
c231b_137	No0720	3C273	86ghz	.	.	.	.	.	.	.	.
.	.	o o o o	o x o o	o	.	x	x	o	o	.	.
c231b_138	No0721	M87	86ghz	.	.	.	.	.	.	.	.
.	.	o o o o	o x o o	o	.	o	x	o	o	.	.
c231b_139	No0722	0954+658	86ghz	o	o	o	o	x	o	o	.
x	x	.	.	.	.	.	.	.	.	.	.
c231b_140	No0725	3C273	86ghz	.	.	.	.	.	.	.	.
.	.	o o o o	o x o o	o	.	o	x	o	o	.	.
c231b_141	No0726	M87	86ghz	.	.	.	.	.	.	.	.
.	.	o o o o	o x o o	o	.	o	x	o	o	.	.
c231b_142	No0727	0954+658	86ghz	o	o	o	o	o	o	o	o
x	x	.	.	.	.	.	.	.	.	.	.
c231b_143	No0728	3C279	86ghz	.	.	.	.	.	.	.	.
.	.	o . o o	o x o o	o	.	o	x	o	o	.	.
c231b_144	No0729	M87	86ghz	.	.	.	.	.	.	.	.
.	.	o o o o	o x o o	o	.	.	x	o	o	.	.
c231b_145	No0730	0954+658	86ghz	o	o	o	o	o	o	o	o
x	x	.	.	.	.	.	.	.	.	.	.
c231b_146	No0733	3C273	86ghz	.	.	.	.	.	.	.	.
.	.	. o . o	o x o o	o	.	.	.	o	o	.	.
c231b_147	No0734	M87	86ghz	.	.	.	.	.	.	.	.
.	.	. o . o	o x o o	o	.	.	.	o	o	.	.
	No0735	1757-240	86ghz	.	.	.	.	.	.	.	.
.
c231b_148	No0737	NRAO530	86ghz	.	.	.	.	.	.	.	.
.	.	o . o .	.	.	.	.	.	o	o	x	.
c231b_149	No0738	SGR_A	86ghz	.	.	.	.	.	.	.	.
.	.	o . o .	.	.	.	.	.	o	o	x	.
	No0739	J1924-2914	86ghz	.	.	.	.	.	.	.	.
.
c231b_150	No0740	0954+658	86ghz	o	o	o	o	o	o	o	o
x	x	.	.	.	.	.	.	.	.	.	.
c231b_151	No0743	M87	86ghz	.	.	.	.	.	.	.	.
.	.	. o . o	. x o o	.	.	.	.	o	o	.	.
c231b_152	No0745	SGR_A	86ghz	.	.	.	.	.	.	.	.
.	.	o . o .	.	.	.	.	.	o	o	x	.
c231b_153	No0746	0954+658	86ghz	o	o	o	o	o	o	o	o
x	x	.	.	.	.	.	.	.	.	.	.
c231b_154	No0749	3C273	86ghz	.	.	.	.	.	.	.	.
.	.	. o . o	. x o o	.	.	.	.	o	o	.	.
c231b_155	No0750	M87	86ghz	.	.	.	.	.	.	.	.
.	.	. o . o	. x o o	.	.	.	.	o	o	.	.
	No0751	1757-240	86ghz	.	.	.	.	.	.	.	.
.
	No0752	J1924-2914	86ghz	.	.	.	.	.	.	.	.
.
.

c231b_156	No0755	SGR_A	86ghz	.	.	.	.	.	.	.	.
.
c231b_157	No0756	0954+658	86ghz	o	o	o	o	o	o	o	o
x	x	.	.	.	.	.	.	.	.	.	.
c231b_158	No0759	3C279	86ghz	.	.	.	.	.	.	.	.
.
c231b_159	No0760	M87	86ghz	.	.	.	.	.	.	.	.
.
c231b_160	No0762	SGR_A	86ghz	.	.	.	.	.	.	.	.
.
c231b_161	No0763	0954+658	86ghz	o	o	o	o	o	o	o	o
x	x	.	.	.	.	.	.	.	.	.	.
c231b_162	No0765	3C273	86ghz	.	.	.	.	.	.	.	o
x	x	.	.	.	.	.	.	.	.	.	.
c231b_163	No0766	M87	86ghz	.	.	.	.	.	.	.	o
x	x	.	.	.	.	.	.	.	.	.	.
	No0767	1757-240	86ghz	.	.	.	.	.	.	.	.
.
c231b_164	No0769	SGR_A	86ghz	.	.	.	.	.	.	.	.
.
c231b_165	No0771	3C273	86ghz	.	.	.	.	.	.	.	o
x	x	.	.	.	.	.	.	.	.	.	.
c231b_166	No0772	M87	86ghz	.	.	.	.	.	.	.	o
x	x	.	.	.	.	.	.	.	.	.	.
c231b_167	No0774	NRAO530	86ghz	.	.	.	.	.	.	.	.
.
c231b_168	No0775	SGR_A	86ghz	.	.	.	.	.	.	.	.
.
c231b_169	No0776	0106+013	86ghz	o	o	o	o	o	o	o	o
.
c231b_170	No0778	3C273	86ghz	.	.	.	.	.	.	.	o
x	x	.	.	.	.	.	.	.	.	.	.
c231b_171	No0779	M87	86ghz	.	.	.	.	.	.	.	o
x	x	.	.	.	.	.	.	.	.	.	.
	No0780	1757-240	86ghz	.	.	.	.	.	.	.	.
.
c231b_172	No0783	J1924-2914	86ghz	.	.	.	.	.	.	.	.
.
c231b_173	No0786	SGR_A	86ghz	.	.	.	.	.	.	.	.
.
c231b_174	No0787	NGC1052	86ghz	o	o	o	o	o	o	o	o
.
c231b_175	No0789	3C279	86ghz	.	.	.	.	.	.	.	.
.
c231b_176	No0790	M87	86ghz	.	.	.	.	.	.	.	o
x	x	.	.	.	.	.	.	.	.	.	.
c231b_177	No0791	SGR_A	86ghz	.	.	.	.	.	.	.	.
.
c231b_178	No0792	NGC1052	86ghz	o	o	o	o	o	o	o	o
.

c231b_201	No0839	NGC1052	86ghz	09	o	o	o	o	.	.
.
c231b_202	No0841	3C273	86ghz	.	.	.	.	.	.	o
x	x	.	.	.	.	.	.	.	.	.
c231b_203	No0842	M87	86ghz	.	.	.	.	.	.	o
x	x	.	.	.	.	.	.	.	.	.
c231b_204	No0845	SGR_A	86ghz	.	.	.	.	.	.	.
.	.	o	.	o	o	o	o	x	o	.
c231b_205	No0846	NGC1052	86ghz	o	o	o	o	o	.	.
.
c231b_206	No0848	3C273	86ghz	.	.	.	.	.	.	o
x	x	.	.	.	.	.	.	.	.	.
c231b_207	No0849	M87	86ghz	.	.	.	.	.	.	o
x	x	.	.	.	.	.	.	.	.	.
	No0850	J1924-2914	86ghz	.	.	.	.	.	.	.
.
c231b_208	No0855	J1924-2914	86ghz	.	.	.	.	.	.	.
.	.	o	.	o	o	o	x	o	.	.
c231b_209	No0856	SGR_A	86ghz	.	.	.	.	.	.	.
.	.	o	.	o	o	o	x	o	.	.
c231b_210	No0857	0106+013	86ghz	o	o	o	o	o	.	.
.
c231b_211	No0858	3C279	86ghz	.	.	.	.	.	.	o
x	x	.	.	.	.	.	.	.	.	.
c231b_212	No0859	M87	86ghz	.	.	.	.	.	.	o
x	x	.	.	.	.	.	.	.	.	.
c231b_213	No0862	SGR_A	86ghz	.	.	.	.	.	.	.
.	.	o	.	o	o	o	x	o	.	.
c231b_214	No0863	NGC1052	86ghz	o	o	o	o	o	.	.
.
c231b_215	No0864	3C273	86ghz	.	.	.	.	.	.	o
x	x	.	.	.	.	.	.	.	.	.
c231b_216	No0865	M87	86ghz	.	.	.	.	.	.	o
61	x	.	.	.	.	.	.	.	.	.
	No0866	1757-240	86ghz	.	.	.	.	.	.	.
.
c231b_217	No0870	NRAO530	86ghz	.	.	.	.	.	.	.
.	.	o	.	x	o	o	o	.	o	.
c231b_218	No0871	SGR_A	86ghz	.	.	.	.	.	.	.
.	.	o	.	x	o	o	o	.	o	.
c231b_219	No0872	NGC1052	86ghz	o	o	o	o	o	.	.
.
c231b_220	No0873	3C273	86ghz	.	.	.	.	.	.	o
o	x	.	.	.	.	.	.	.	.	.
c231b_221	No0874	M87	86ghz	.	.	.	.	.	.	o
o	x	.	.	.	.	.	.	.	.	.
c231b_222	No0877	SGR_A	86ghz	.	.	.	.	.	.	.
.	.	o	.	x	o	o	o	.	o	.
c231b_223	No0878	NGC1052	86ghz	o	o	o	o	o	.	.
.

	No0879	J1924-2914									86ghz	.	.	.	.	.	.	.

c231b_224	No0884	J1924-2914	.	x	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
	.	.	o	x	o	o	o	o	.	o	x	.	.	.	.	.	.	.
c231b_225	No0885	SGR_A	.	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
	.	.	o	x	o	o	o	o	.	o	x	.	.	.	.	.	.	.
c231b_226	No0886	NGC1052	.	.	.	.	.	.	.	.	86ghz	o	o	o	o	o	.	.

c231b_227	No0889	SGR_A	.	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
	.	.	o	x	o	o	o	o	.	o	x	.	.	.	.	.	.	.
c231b_228	No0890	NGC1052	.	.	.	.	.	.	.	.	86ghz	o	o	o	o	o	.	.

c231b_229	No0895	SGR_A	.	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
	.	.	o	x	o	o	o	.	o	.	x	.	.	.	.	.	.	.
c231b_230	No0896	SGR_A	.	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
	.	.	o	x	o	o	o	.	o	.	x	.	.	.	.	.	.	.
c231b_231	No0897	NGC1052	.	.	.	.	.	.	.	.	86ghz	o	o	o	o	o	.	.

c231b_232	No0900	NRAO530	.	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
	.	.	o	x	o	o	o	.	o	.	x	.	.	.	.	.	.	.
c231b_233	No0901	SGR_A	.	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
	.	.	o	x	o	o	o	.	o	.	x	.	.	.	.	.	.	.
c231b_234	No0902	NGC1052	.	.	.	.	.	.	.	.	86ghz	o	o	o	o	o	.	.

c231b_235	No0905	J1924-2914	.	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
	.	.	o	x	o	o	o	.	o	.	x	.	.	.	.	.	.	.
c231b_236	No0906	SGR_A	.	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
	.	.	o	x	o	o	o	.	o	.	x	.	.	.	.	.	.	.
c231b_237	No0908	0106+013	.	.	.	.	.	.	.	.	86ghz	o	o	o	o	o	.	.
	.	.	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_238	No0911	SGR_A	.	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
	.	.	o	x	o	o	o	.	o	.	x	.	.	.	.	.	.	.
c231b_239	No0912	J1924-2914	.	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
	.	.	o	x	o	o	o	.	o	.	x	.	.	.	.	.	.	.
c231b_240	No0913	NGC1052	.	.	.	.	.	.	.	.	86ghz	o	o	o	o	o	.	.

c231b_241	No0914	SGR_A	.	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
	.	.	o	x	o	o	o	.	o	.	x	.	.	.	.	.	.	.
c231b_242	No0915	SGR_A	.	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
	.	.	o	x	o	o	o	.	o	.	x	.	.	.	.	.	.	.
c231b_243	No0916	NGC1052	.	.	.	.	.	.	.	.	86ghz	o	o	o	o	o	.	.

c231b_244	No0919	SGR_A	.	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
	.	.	o	.	o	o	o	.	o	.	x	.	.	.	.	.	.	.
c231b_245	No0920	SGR_A	.	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
	.	.	o	.	o	o	o	.	o	.	x	.	.	.	.	.	.	.
c231b_246	No0921	NGC1052	.	.	.	.	.	.	.	.	86ghz	o	o	o	o	o	.	.

c231b_247	No0923	J1924-2914	.	.	.	.	.	.	.	.	86ghz	.	.	.	.	.	.	.
	.	.	o	x	o	o	o	.	o	.	x	.	.	.	.	.	.	.

c231b_248	No0924	SGR_A	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_249	No0925	NGC1052	86ghz	o	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.
.
c231b_250	No0928	SGR_A	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_251	No0929	NGC1052	86ghz	o	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.
.
c231b_252	No0934	SGR_A	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_253	No0937	NGC1052	86ghz	o	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.
.
c231b_254	No0940	NGC1052	86ghz	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.
.
c231b_255	No0945	0106+013	86ghz	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_256	No0950	NGC1052	86ghz	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_257	No0953	NGC1052	86ghz	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_258	No0958	NGC1052	86ghz	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_259	No0964	NRAO530	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	55
o	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_260	No0965	SGR_A	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	o
o	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_261	No0969	NGC1052	86ghz	o	.	.	o	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_262	No0974	SGR_A	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	o
o	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_263	No0978	NGC1052	86ghz	o	.	.	o	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_264	No0984	SGR_A	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	o
o	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_265	No0987	NGC1052	86ghz	o	.	.	o	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_266	No0993	SGR_A	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	o
o	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_267	No0996	NGC1052	86ghz	.	.	.	o	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_268	No1002	SGR_A	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	o
o	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_269	No1005	0106+013	86ghz	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	.	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c231b_270	No1011	NRAO530	86ghz	o
o	x
c231b_271	No1012	SGR_A	86ghz	o
o	x
c231b_272	No1013	1156+295	86ghz	o	o	o	.	o	o
.
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c231b_298 No1094      NGC1052      86ghz . . . . .
. . o . o o o x o o o . . . . .
c231b_299 No1098      1156+295     86ghz o o o o o o .
. . . x . . . . .
c231b_300 No1101      NGC1052      86ghz . . . . .
. . o . o o o x o o o . . . . .
c231b_301 No1105      1156+295     86ghz o o o o o o .
. . . x . . . . .
c231b_302 No1108      NGC1052      86ghz . . . . .
. . o . o o o x o o o . . . . .
c231b_303 No1112      3C273        86ghz o o o o o o .
. . . . .
c231b_304 No1115      NGC1052      86ghz . . . . .
. . o . o o o x o o o . . . . .
c231b_305 No1119      1156+295     86ghz o o o o o o .
. . . x . . . . .
c231b_306 No1122      NGC1052      86ghz . . . . .
. . o . o o o x o o o . . . . .
c231b_307 No1126      1156+295     86ghz o o o o o o .
. . . x . . . . .
c231b_308 No1129      NGC1052      86ghz . . . . .
. . o . o o o x o o o . . . . .
c231b_309 No1133      1156+295     86ghz o o o o o o .
. . . x . . . . .
c231b_310 No1136      0106+013     86ghz . . . . .
. . o . o o o x o o o . . . . .
c231b_311 No1140      1156+295     86ghz o o o o o o .
. . . x . . . . .
c231b_312 No1143      NGC1052      86ghz . . . . .
. . o . o o o x o o o . . . . .
c231b_313 No1147      1156+295     86ghz o o o o o o .
. . . x . . . . .
c231b_314 No1150      NGC1052      86ghz . . . . .
. . o . o o o x o o o . . . . .
c231b_315 No1154      3C273        86ghz o o o o o o .
. . . . .
c231b_316 No1157      NGC1052      86ghz . . . . .
. . o . o o o x o o o . . . . .
c231b_317 No1161      1156+295     86ghz o o o o o o .
. . . x . . . . .
c231b_318 No1164      NGC1052      86ghz . . . . .
. . o . o o o x o o o . . . . .
c231b_319 No1168      1156+295     86ghz o o o o o o .
. . . x . . . . .
c231b_320 No1171      NGC1052      86ghz . . . . .
. . o . o o o x o o o . . . . .
c231b_321 No1173      1156+295     86ghz o o o o o o .
. . . x . . . . .
c231b_322 No1176      0106+013     86ghz . . . . .
. . o . o o o x o o o . . . . .

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c231b_323	No1178	1156+295		86ghz	o	o	o	o	o	o	.
.	.	x
c231b_324	No1179	1156+295		86ghz	o	o	o	o	o	o	.
.	.	x	.	.	.	.	.	.	.	.	.
c231b_325	No1182	NGC1052		86ghz	.	.	.	.	.	.	.
.	.	o	.	o	o	o	x	o	o	o	.
c231b_326	No1185	NGC1052		86ghz	.	.	.	.	.	.	.
.	.	o	.	o	o	o	x	o	o	o	.
c231b_327	No1189	0106+013		86ghz	.	.	.	.	.	.	o
o	x	o	.	.	o	o	x	o	o	o	.
c231b_328	No1193	NGC1052		86ghz	.	.	.	.	.	.	o
o	x	o	.	.	o	o	x	o	o	o	.
c231b_329	No1197	NGC1052		86ghz	.	.	.	.	.	.	o
o	x	o	.	.	o	o	x	o	o	o	.
c231b_330	No1201	NGC1052		86ghz	.	.	.	.	.	.	o
o	x	o	.	.	o	o	x	o	o	o	.
c231b_331	No1204	NGC1052		86ghz	.	.	.	.	.	.	o
o	x	o	.	.	o	o	x	o	o	o	.
c231b_332	No1207	NGC1052		86ghz	.	.	.	.	.	.	o
o	x	o	.	.	o	o	x	o	o	o	.
c231b_333	No1210	NRAO150		86ghz	.	.	.	.	.	.	o
o	x	o	.	o	o	o	x	o	o	o	.