C222A 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/oct22/feedback_oct22.asc

Status

what	date
Clock search started	17 Jan 2023
Correlation of 7mm started and finished	19 Jan 2023
Clock search 3mm started	20 Jan 2023
Correlation of 3mm started	24 Jan 2023
Packaging of 7mm and 3mm finished	07 Feb 2023
Released to PIs	08 Feb 2023

Fringes

Station	Code	Fringes	Plots	Comments
VLBA 7mm		yes		
VLBA 3mm		yes		
NOEMA		partly		RCP fringes okay LCP no fringes, un-synced, unknown offset >2.56 msec
EU		yes		
KVN		yes		
EU-VLBA		yes	Br-Pv No0082, Nl-Pv No0097	
KVN-VLBA		yes	Br-Ku No0035	

Notes

- NOEMA LCP has no fringes, also not within +- 256 usec of NOEMA RCP fringes. Info from R. Garcia is that LCP related PolyFix was likely not synchronized correctly in C222A amid GPS receiver issues.

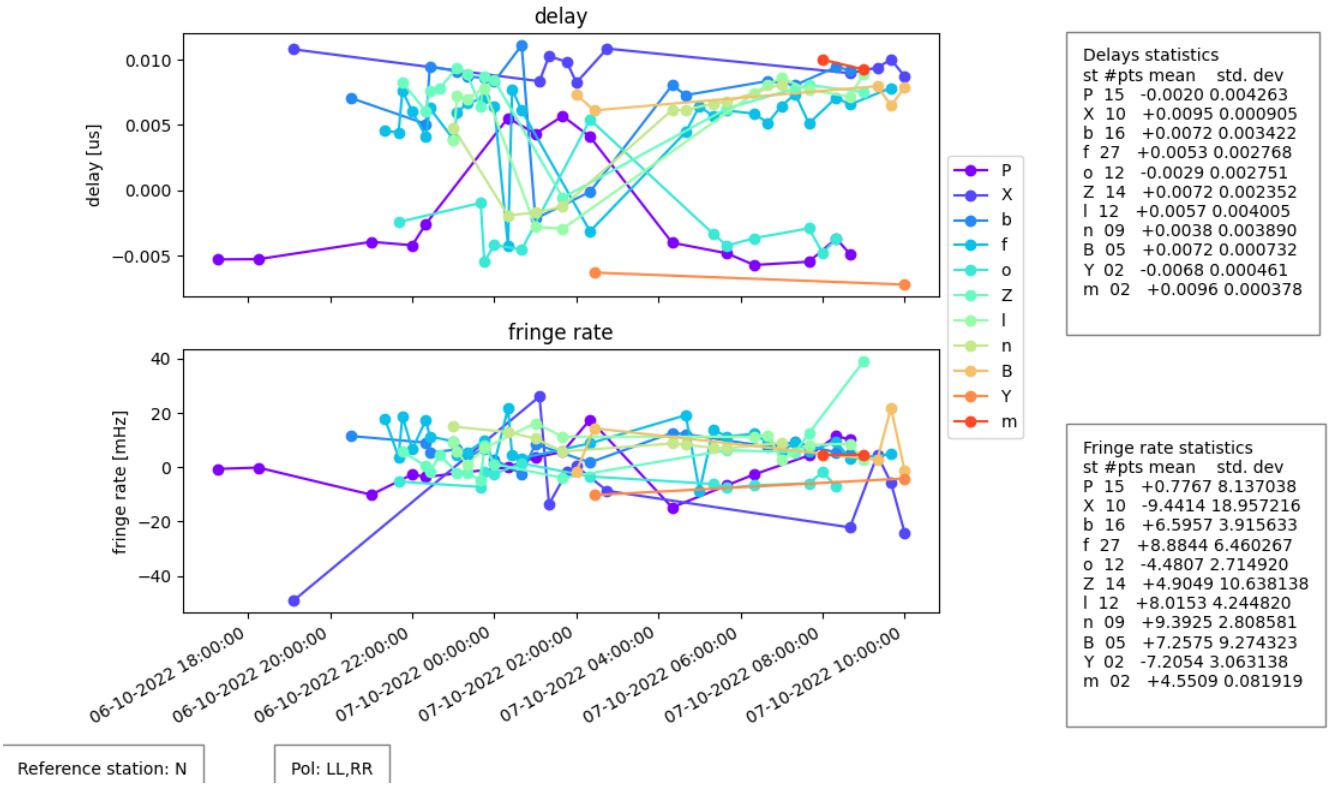
There should be a fringe at an unknown large offset. Did a wider search in cross-pol autocorrelations till +-2560 usec, no fringes within that offset range. Already too large to correct in DiFX easily.

- VLBA BR has issues in LCP according to log
- VLBA had outages and this track was not observed at PT, KP, SC
- GBT not scheduled
- Pico polswapped in C222A but not in C222C
- Source K3-50A was scheduled in VEX/key for Ef-(Ys)-Nn-Pv for 15 sec pointings only, not to be included in project data exports

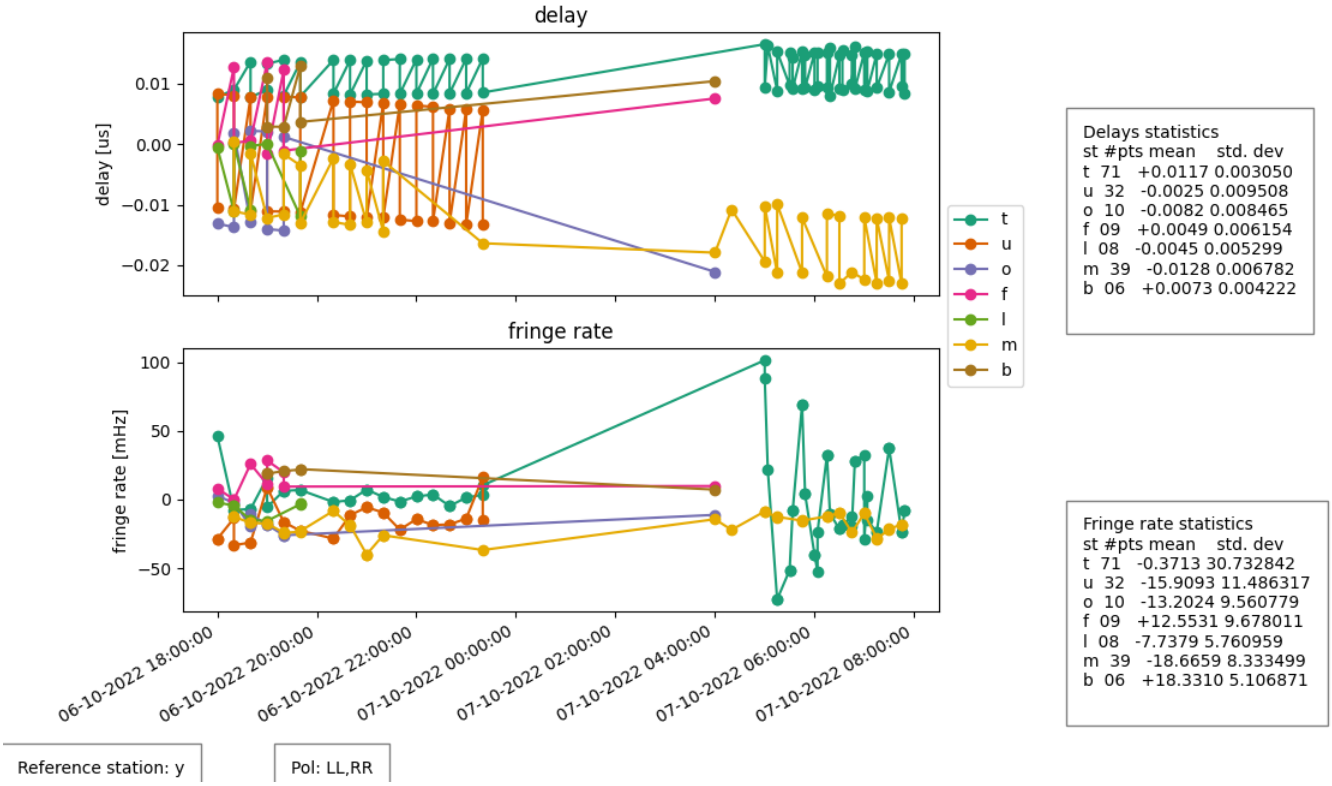
Post-Correlation checks

Residuals 3mm

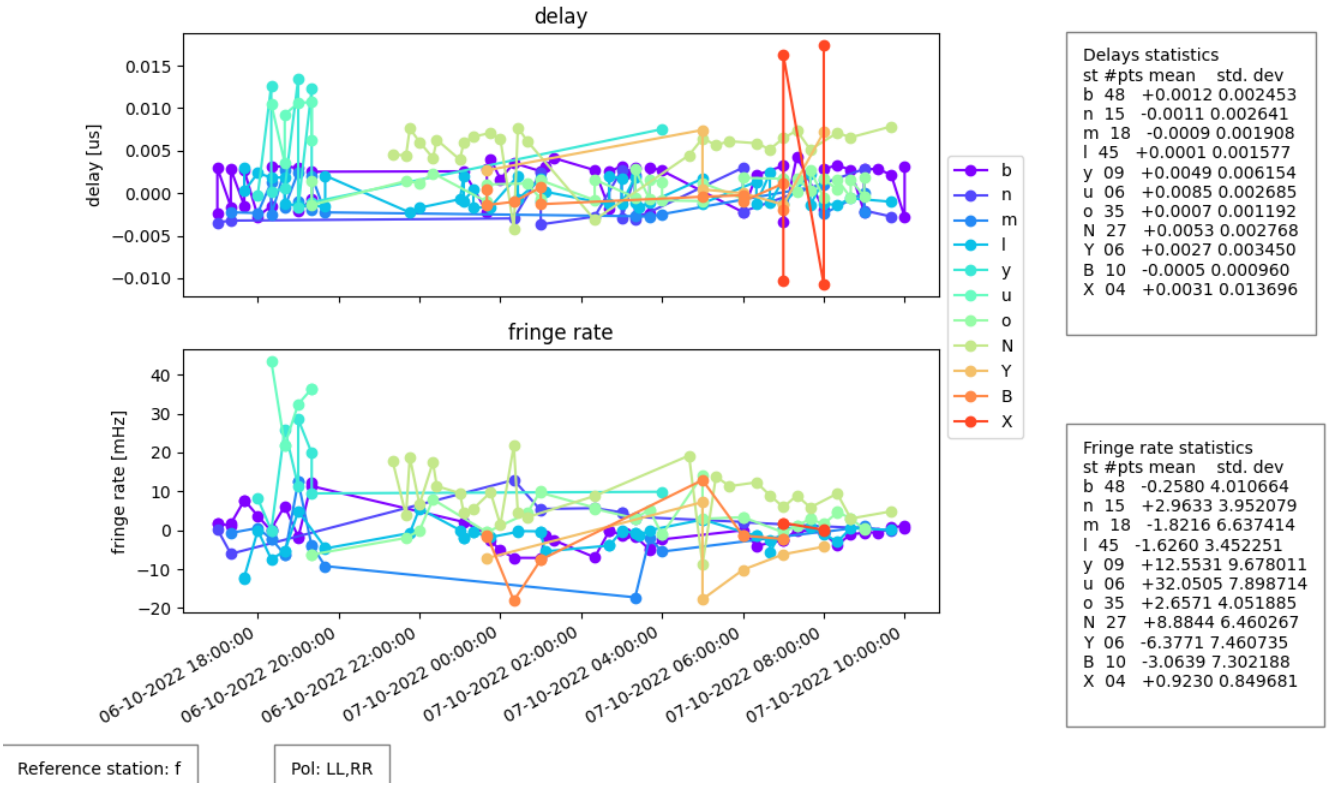
Reference station NOEMA



Reference KVN Yonsei

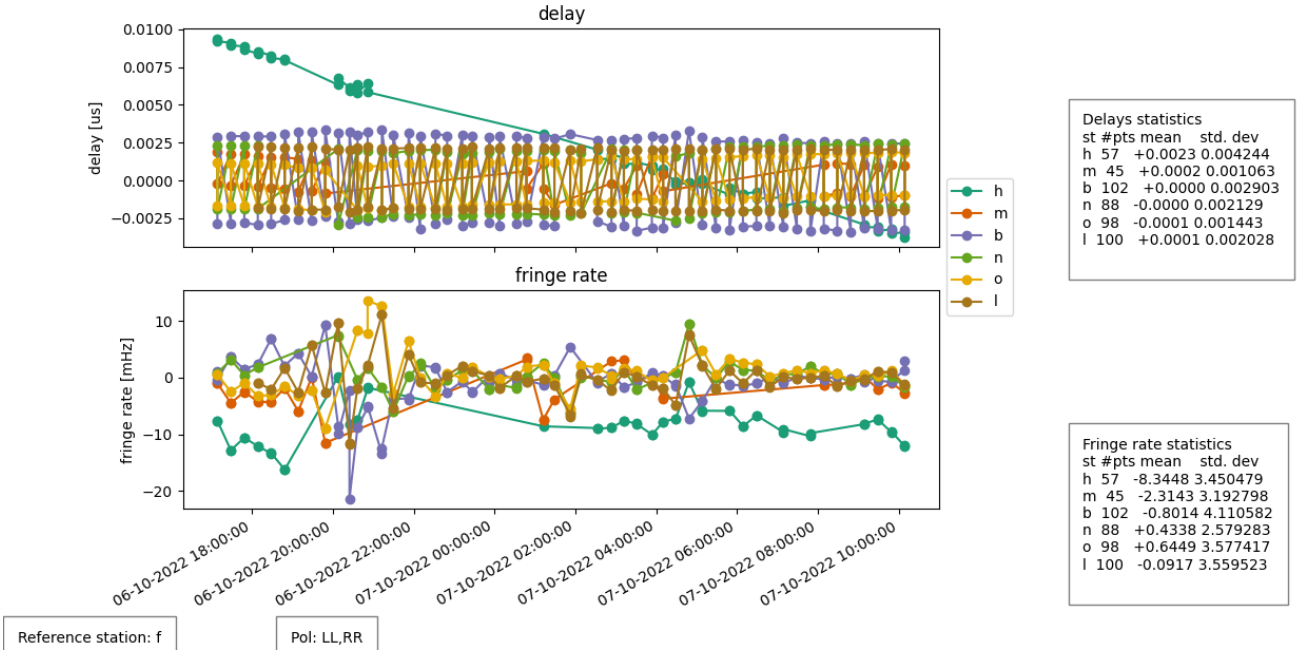


Reference VLBA_FD



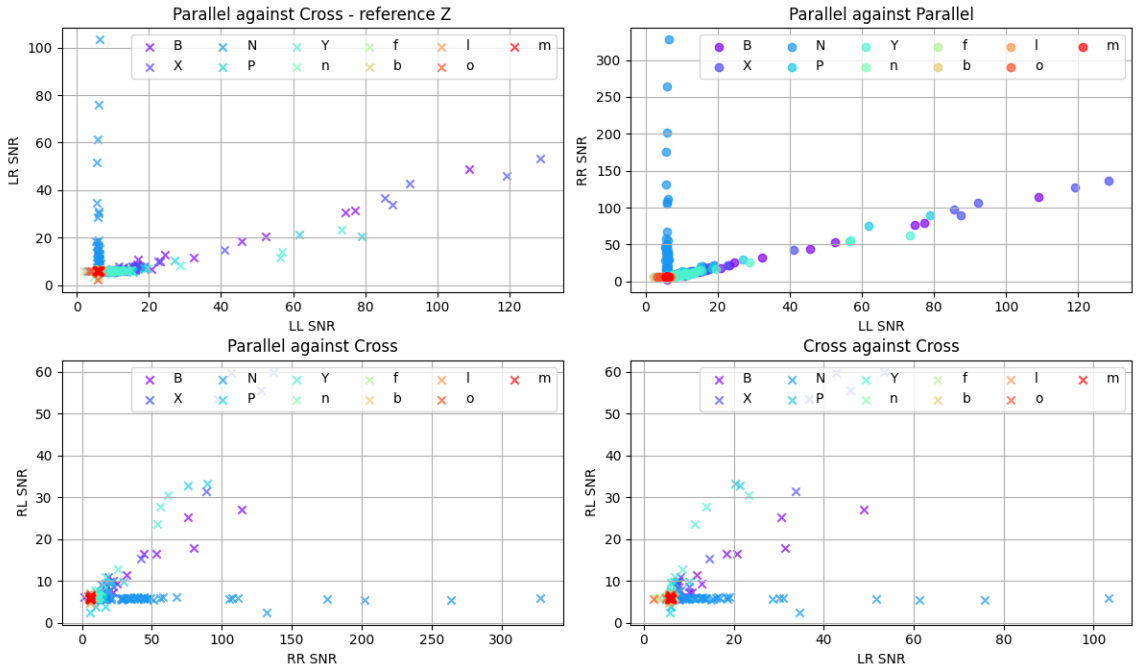
Residuals 7mm

Reference FD



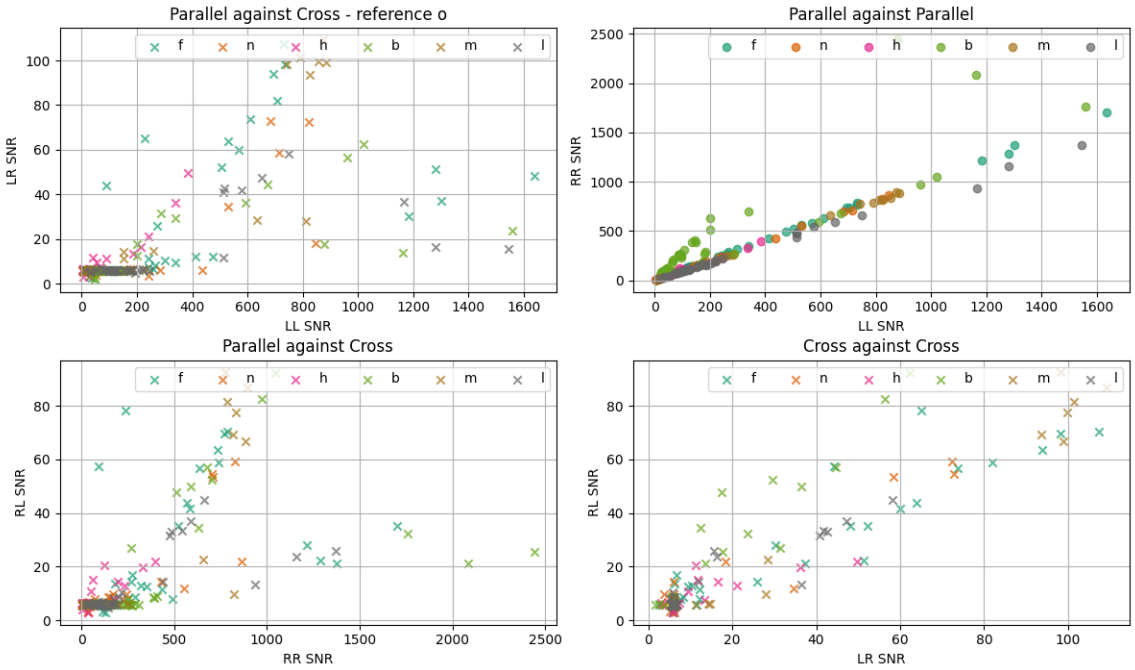
Polarization 3mm

NOEMA LCP has no fringes in entire C222A. This is due to an undetermined and too large clock offset in their LCP data.

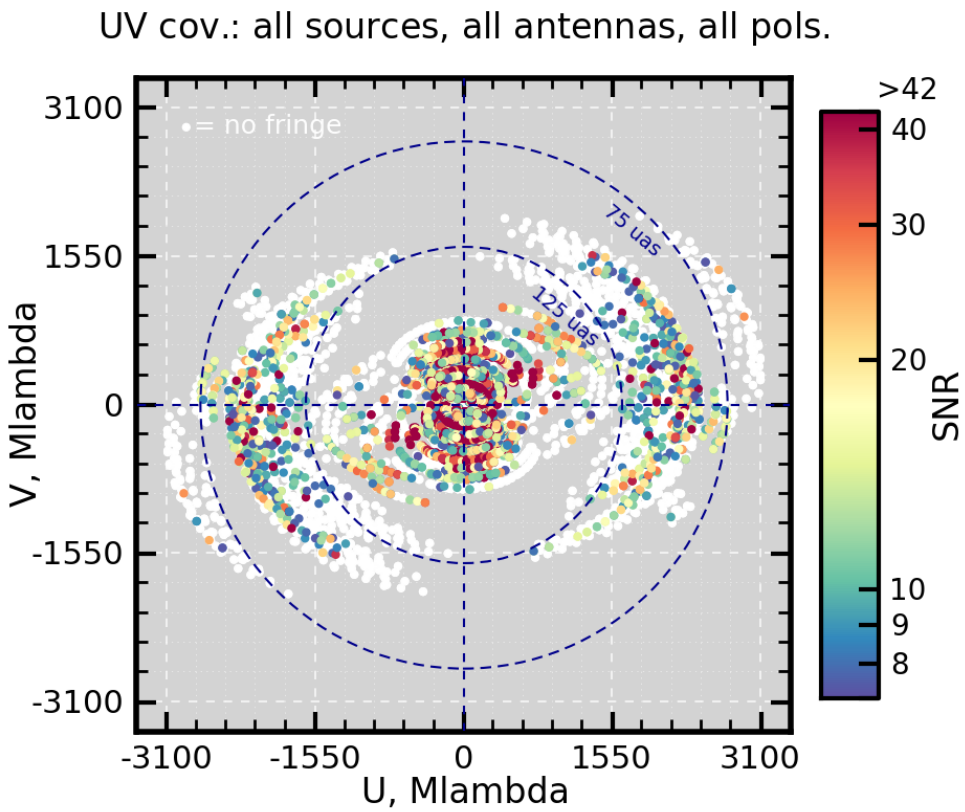


Polarization 7mm

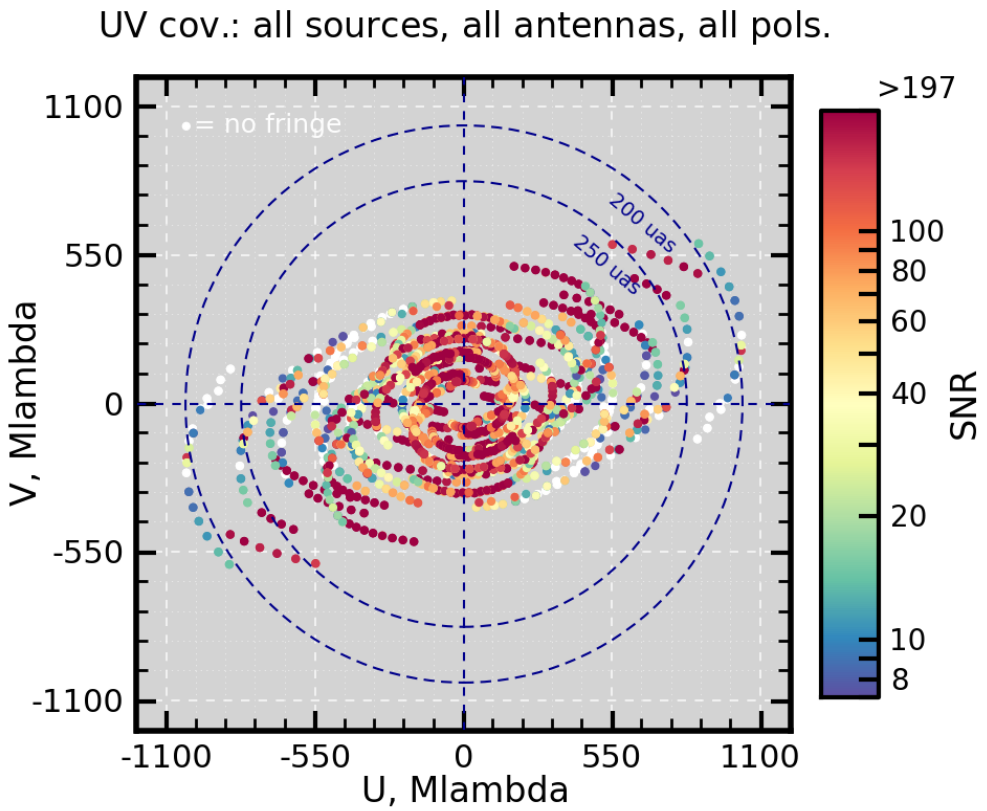
VLBA BR has reduced SNR in LCP



Detections 3mm



Detections 7mm



FITS completeness (pclist)

3mm

				EF	ON	YS	PV	NN	MH	NL	FD	PT	LA	OV	KP	BR	MK	KY	KU	KT
c222a_1000	No0001	BLLAC	86ghz	o	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.
c222a_1001	No0002	CYG_A	86ghz	o	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.
c222a_1002	No0003	OJ287	86ghz	.	.	.	.	.	.	o	o	x	x	o	x	o	o	.	.	.
c222a_1003	No0005	CYG_A	86ghz	o	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.
c222a_1004	No0006	OJ287	86ghz	.	.	.	.	.	.	o	o	x	x	o	x	o	o	.	.	.
c222a_1005	No0008	BLLAC	86ghz	o	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.
c222a_1006	No0009	CYG_A	86ghz	o	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.
c222a_1007	No0010	OJ287	86ghz	.	.	.	.	.	.	o	o	x	12	o	x	o	o	.	.	.
c222a_1008	No0012	CYG_A	86ghz	o	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.
c222a_1009	No0013	BLLAC	86ghz	o	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.

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c222a_1010 No0014    CYG_A 86ghz o  o  o  o  o  o  .  .  .  .  .  .  .
.  .  .  .
c222a_1011 No0015    OJ287 86ghz .  .  .  .  .  .  o  o  x  o  o  x  o
o  o  o  o
c222a_1012 No0017    CYG_A 86ghz o  o  o  o  o  o  .  .  .  .  .  .  .
.  .  .  .
c222a_1013 No0018    OJ287 86ghz .  .  .  .  .  .  o  o  x  o  o  x  o
o  o  o  o
c222a_1014 No0021    CYG_A 86ghz o  o  o  o  o  o  o  .  .  .  .  .  .
.  .  .  .
c222a_1015 No0022    OJ287 86ghz .  .  .  .  .  .  .  o  x  o  o  x  o
o  o  o  o
c222a_1016 No0024    CYG_A 86ghz o  o  o  .  o  o  o  .  .  .  .  .  .
.  .  .  .
c222a_1017 No0025 2023+335 86ghz o  o  o  o  o  o  o  .  .  .  .  .  .
.  .  .  .
c222a_1018 No0026    CYG_A 86ghz o  o  .  .  o  o  o  .  .  .  .  .  .
.  .  .  .
c222a_1019 No0027    OJ287 86ghz .  .  .  .  .  .  .  o  x  o  o  x  o
o  o  o  o
c222a_1020 No0029    CYG_A 86ghz o  o  .  .  o  o  o  .  .  .  .  .  .
.  .  .  .
c222a_1021 No0030    OJ287 86ghz .  .  .  .  .  .  .  o  x  o  o  x  o
o  o  o  o
c222a_1022 No0032 2023+335 86ghz o  o  o  .  o  o  o  .  .  .  .  .  .
.  .  .  .
c222a_1023 No0033    CYG_A 86ghz o  o  o  o  o  o  o  .  .  .  .  .  .
.  .  .  .
c222a_1024 No0034    CYG_A 86ghz o  o  o  o  o  o  o  .  .  .  .  .  .
.  .  .  .
c222a_1025 No0035    OJ287 86ghz .  .  .  .  .  .  .  o  x  o  o  x  o
o  37 o  o
c222a_1026 No0037    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  .  .  o
.  .  .  .
c222a_1027 No0039    OJ287 86ghz .  .  .  .  .  .  .  .  .  .  o  x  .
o  x  o  o
c222a_1028 No0041    CYG_A 86ghz o  o  77 o  o  o  o  o  x  o  .  .  o
.  .  .  .
c222a_1029 No0043    OJ287 86ghz .  .  .  .  .  .  .  .  .  .  o  x  .
o  o  o  o
c222a_1030 No0044    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1031 No0046    OJ287 86ghz .  .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1032 No0047    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1033 No0049 2023+335 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1034 No0050    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
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c222a_1035 No0052    OJ287 86ghz . . . . . . . . . . . . .
o  o  o  o
c222a_1036 No0053    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1037 No0055    OJ287 86ghz . . . . . . . . . . . . .
o  o  o  o
c222a_1038 No0056 2023+335 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1039 No0057    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1040 No0059    OJ287 86ghz . . . . . . . . . . . . .
o  o  o  o
c222a_1041 No0060    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1042 No0062    OJ287 86ghz . . . . . . . . . . . . .
o  o  o  o
c222a_1043 No0063 2023+335 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1044 No0064    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1045 No0066    OJ287 86ghz . . . . . . . . . . . . .
o  o  o  o
c222a_1046 No0067    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1047 No0069    OJ287 86ghz . . . . . . . . . . . . .
o  o  o  o
c222a_1048 No0070 2023+335 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1049 No0071    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1050 No0073    OJ287 86ghz . . . . . . . . . . . . .
o  o  o  o
c222a_1051 No0074    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1052 No0076    OJ287 86ghz . . . . . . . . . . . . .
o  o  o  91
c222a_1053 No0077 2023+335 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
o  .  .  .
c222a_1054 No0078    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
o  .  .  .
c222a_1055 No0080    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
o  .  .  .
c222a_1056 No0082   CTA102 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1057 No0083    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
o  .  .  .
c222a_1058 No0085    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
o  .  .  .
c222a_1059 No0087   CTA102 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
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c222a_1060 No0088    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
o  .  .  .
c222a_1061 No0090    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
o  .  .  .
c222a_1062 No0092   CTA102 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1063 No0093    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
o  .  .  .
c222a_1064 No0095    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
o  .  .  .
c222a_1065 No0097   CTA102 86ghz o  o  o  o  o  .  o  o  x  o  o  x  o
o  .  .  .
c222a_1066 No0098    CYG_A 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
o  .  .  .
c222a_1067 No0100   CTA102 86ghz .  .  .  .  .  .  o  o  x  o  o  x  o
o  .  .  .
c222a_1068 No0101    CYG_A 86ghz .  .  .  .  .  .  o  o  x  o  o  x  o
o  .  .  .
c222a_1069 No0103    3C111 86ghz o  o  o  o  o  o  .  .  .  .  .  .  .
.  .  .  .
c222a_1070 No0104     3C84 86ghz o  o  o  o  o  o  .  .  .  .  .  .  .
.  .  .  .
c222a_1071 No0105   CTA102 86ghz .  .  .  .  .  .  o  o  x  o  o  x  o
o  .  .  .
c222a_1072 No0106    CYG_A 86ghz .  .  .  .  .  .  o  o  x  o  o  x  o
o  .  .  .
c222a_1073 No0108    3C111 86ghz o  o  o  .  o  o  .  .  .  .  .  .  .
.  .  .  .
c222a_1074 No0109   CTA102 86ghz .  .  .  .  .  .  o  o  x  o  o  x  o
o  .  .  .
c222a_1075 No0110    CYG_A 86ghz .  .  .  .  .  .  o  o  x  o  o  x  o
o  .  .  .
c222a_1076 No0112     3C84 86ghz o  o  o  o  o  o  .  .  .  .  .  .  .
.  .  .  .
c222a_1077 No0113    3C111 86ghz o  o  o  .  o  o  o  .  .  .  .  .  .
.  .  .  .
c222a_1078 No0114   CTA102 86ghz .  .  .  .  .  .  .  o  x  o  o  x  o
o  .  .  .
c222a_1079 No0115    CYG_A 86ghz .  .  .  .  .  .  .  o  x  o  o  x  o
o  o  o  x
c222a_1080 No0117     3C84 86ghz o  o  o  o  o  o  o  .  .  .  .  .  .
.  .  .  .
c222a_1081 No0118 2013+370 86ghz .  .  .  .  .  .  .  o  x  o  o  x  o
o  o  o  o
c222a_1082 No0119    CYG_A 86ghz .  .  .  .  .  .  .  o  x  o  o  x  o
o  o  o  o
c222a_1083 No0121    3C111 86ghz o  o  o  o  o  o  o  o  x  o  .  .  o
.  .  .  .
c222a_1084 No0123 2013+370 86ghz .  .  .  .  .  .  .  .  .  .  o  x  .
o  o  o  o
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c222a_1085 No0124    CYG_A 86ghz .  .  .  .  .  .  .  .  .  .  o  x  .
o  o  o  o
c222a_1086 No0125    3C111 86ghz o  o  o  o  o  o  o  o  x  o  .  .  o
.  .  .  .
c222a_1087 No0127 2013+370 86ghz .  .  .  .  .  .  .  .  .  .  o  x  .
o  o  o  o
c222a_1088 No0128    CYG_A 86ghz .  .  .  .  .  .  .  .  .  .  o  x  .
o  o  o  o
c222a_1089 No0129     3C84 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1090 No0131 2013+370 86ghz .  .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1091 No0132    CYG_A 86ghz .  .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1092 No0133    3C111 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1093 No0135 2013+370 86ghz .  .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1094 No0136    CYG_A 86ghz .  .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1095 No0137 2013+370 86ghz .  .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1096 No0138    CYG_A 86ghz .  .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1097 No0139    3C111 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1098 No0141 2013+370 86ghz .  .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1099 No0142    CYG_A 86ghz .  .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1100 No0143     3C84 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1101 No0145 2013+370 86ghz .  .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1102 No0146    CYG_A 86ghz .  .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1103 No0147    3C111 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1104 No0149 2013+370 86ghz .  .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1105 No0150    CYG_A 86ghz .  .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1106 No0151 2013+370 86ghz .  .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1107 No0152    CYG_A 86ghz .  .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1108 No0153    3C111 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1109 No0155 2013+370 86ghz .  .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
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c222a_1110 No0156    CYG_A 86ghz .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1111 No0157     3C84 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1112 No0159 2013+370 86ghz .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1113 No0160    CYG_A 86ghz .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1114 No0161    3C111 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1115 No0163 2013+370 86ghz .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1116 No0164    CYG_A 86ghz .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  x
c222a_1117 No0165 2013+370 86ghz .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  33
c222a_1118 No0166    CYG_A 86ghz .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  x
c222a_1119 No0167    3C111 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
.  .  .  .
c222a_1120 No0169 2013+370 86ghz .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1121 No0170    CYG_A 86ghz .  .  .  .  .  .  .  .  .  .  .  .
o  o  o  o
c222a_1122 No0171     3C84 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
o  .  .  .
c222a_1123 No0173    3C111 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
o  .  .  .
c222a_1124 No0175    3C111 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
o  .  .  .
c222a_1125 No0177     3C84 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
o  .  .  .
c222a_1126 No0179    3C111 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
o  .  .  .
c222a_1127 No0181    3C111 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
o  .  .  .
c222a_1128 No0183    3C111 86ghz o  o  o  o  o  o  o  o  x  o  o  x  o
o  .  .  .
Note: PT, KP, SC did not observe
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7mm

```
                              NL FD PT LA OV KP BR MK HN SC
c222a_1000 No0004    OJ287 43ghz  o  o  x  x  o  x  o  o  o  x
c222a_1001 No0007    OJ287 43ghz  o  o  x  x  o  x  o  o  o  x
c222a_1002 No0011    OJ287 43ghz  o  o  x  x  o  x  o  o  o  x
c222a_1003 No0016    OJ287 43ghz  o  o  x  o  o  x  o  o  o  .
c222a_1004 No0019    OJ287 43ghz  .  o  x  o  o  x  o  o  o  .
c222a_1005 No0023    OJ287 43ghz  .  o  x  o  o  x  o  o  o  .
c222a_1006 No0028    OJ287 43ghz  .  o  x  o  o  x  o  o  .  .
```

```
c222a_1007 No0031    OJ287 43ghz  .  o  x  o  o  x  o  o  .  .
c222a_1008 No0036    OJ287 43ghz  .  o  x  o  o  x  o  o  .  .
c222a_1009 No0038    CYG_A 43ghz  o  o  x  o  .  .  o  .  o  x
c222a_1010 No0042    CYG_A 43ghz  o  o  x  o  .  .  o  .  o  x
c222a_1011 No0045    CYG_A 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1012 No0048    CYG_A 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1013 No0051    CYG_A 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1014 No0054    CYG_A 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1015 No0058    CYG_A 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1016 No0061    CYG_A 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1017 No0065    CYG_A 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1018 No0068    CYG_A 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1019 No0072    CYG_A 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1020 No0075    CYG_A 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1021 No0079    CYG_A 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1022 No0081    CYG_A 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1033 No0116    CYG_A 43ghz  .  o  x  o  o  x  o  o  o  x
c222a_1034 No0120    CYG_A 43ghz  .  o  x  o  o  x  o  o  o  x
c222a_1023 No0084    CYG_A 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1024 No0086    CYG_A 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1025 No0089    CYG_A 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1026 No0091    CYG_A 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1027 No0094    CYG_A 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1028 No0096    CYG_A 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1029 No0099    CYG_A 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1030 No0102    CYG_A 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1031 No0107    CYG_A 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1032 No0111    CYG_A 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1035 No0122    3C111 43ghz  o  o  x  o  .  .  o  .  o  x
c222a_1036 No0126    3C111 43ghz  o  o  x  o  .  .  o  .  o  x
c222a_1037 No0130     3C84 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1038 No0134    3C111 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1039 No0140    3C111 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1040 No0144     3C84 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1041 No0148    3C111 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1042 No0154    3C111 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1043 No0158     3C84 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1044 No0162    3C111 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1045 No0168    3C111 43ghz  o  o  x  o  o  x  o  .  o  x
c222a_1046 No0172     3C84 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1047 No0174    3C111 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1048 No0176    3C111 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1049 No0178     3C84 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1050 No0180    3C111 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1051 No0182    3C111 43ghz  o  o  x  o  o  x  o  o  o  x
c222a_1052 No0184    3C111 43ghz 83 83  x 83  o  x  o  o  o  x
Note: PT, KP, SC did not observe
```