

C191C Correlation Report

General information

- Includes two science projects: [MG005A](#) and [MG005B](#)
- Session info: <http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/>
- Station feedback: http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/apr19/feedback_apr19.asc
- Text file with detailed antenna statistics, scroll down to get to the cumulative statistics for the whole experiment:
[c191c.antrep](#)

Current Status

correlation finished, data **released** on 19/09/2019.

the **second release** was made on 18/01/2020 to fix the double autocorrelation issue.

Fringes

Fourfit fringe plots with fringes to multiple antennas:

Scan No0016, source 3C84, fringes to Br, Fd, Kp, La, Ov, Pt: [No0016_all.pdf](#)

Scan No0036, source OJ287, fringes to Ef, On, Ys, Mh, Gl, Gb, Kp, La, Nl, Ov, Pt: [No0036_all.pdf](#)

Scan No0097, source 3C345, fringes to all stations: [No0097_all.pdf](#)

| Station | Code | Fringes | Plots | Comments |
|---------|------|---------|---|--|
| Ef | B | yes | <p>Fringe overview of all baselines (all of C191C) including this antenna in LL (left for each baseline) and RR (right for each baseline).</p> <p>Legend: white - scheduled, but no data, blue - no fringe, dark red/brown/green - fringes of different quality.</p> <p>c191c FRINGE RfAnt Ef LLRR AllSrc.pdf</p> <p>Examples of fourfit fringe plots: No0036_all.pdf, No0097_all.pdf</p> <p>Same for all antennas below unless otherwise noted.</p> | weather mixed, everything from clear sky to light rain |
| On | X | yes | <p>c191c FRINGE RfAnt On LLRR AllSrc.pdf</p> <p>No0036_all.pdf, No0097_all.pdf</p> | |
| Ys | Y | yes | <p>c191c FRINGE RfAnt Ys LLRR AllSrc.pdf</p> <p>No0036_all.pdf, No0097_all.pdf</p> | |

| Station | Code | Fringes | Plots | Comments |
|-------------|------|---------|---|--|
| Mh | Z | yes | c191c FRINGE RfAnt Mh LLRR AllSrc.pdf No0036_all.pdf , No0097_all.pdf | |
| Pv | P | no | c191c FRINGE RfAnt Pv LLRR AllSrc.pdf | did not observe due to bad weather |
| GLT: Gl | g | yes | c191c FRINGE RfAnt Gl LLRR AllSrc.pdf No0036_all.pdf , No0097_all.pdf | confirmed correct polarization configuration for this session |
| GBT: Gb | G | yes | c191c FRINGE RfAnt Gb LLRR AllSrc.pdf No0036_all.pdf , No0097_all.pdf | broken Cal-Wheel, no Tsys, cloudy and rainy weather |
| VLBA: Br | b | yes | c191c FRINGE RfAnt Br LLRR AllSrc.pdf No0016_all.pdf , No0097_all.pdf | cloudy conditions, precipitation |
| VLBA: Fd | f | yes | c191c FRINGE RfAnt Fd LLRR AllSrc.pdf No0016_all.pdf , No0097_all.pdf | High winds. Dropped out for technical reasons, both briefly and for significant lengths of time. |
| VLBA: Kp | k | yes | c191c FRINGE RfAnt Kp LLRR AllSrc.pdf No0016_all.pdf , No0036_all.pdf , No0097_all.pdf | cloudy conditions |
| VLBA: La | l | yes | c191c FRINGE RfAnt La LLRR AllSrc.pdf No0016_all.pdf , No0036_all.pdf , No0097_all.pdf | |
| VLBA: Mk | m | no | c191c FRINGE RfAnt Mk LLRR AllSrc.pdf | Out for 3mm receiver repair. No scans recorded. |
| VLBA: Nl | n | yes | c191c FRINGE RfAnt Nl LLRR AllSrc.pdf No0036_all.pdf , No0097_all.pdf | cloudy conditions, receiver slightly warm |
| VLBA: Ov | o | yes | c191c FRINGE RfAnt Ov LLRR AllSrc.pdf No0016_all.pdf , No0036_all.pdf , No0097_all.pdf | high winds, cloudy conditions |
| VLBA: Pt | p | yes | c191c FRINGE RfAnt Pt LLRR AllSrc.pdf | High winds, cloudy conditions. |

| Station | Code | Fringes | Plots | Comments |
|---------|------|---------|--|--|
| | | | No0016_all.pdf , No0036_all.pdf , No0097_all.pdf | Taken out for several scans because of USNO observing. Also briefly parked to check cryos. |

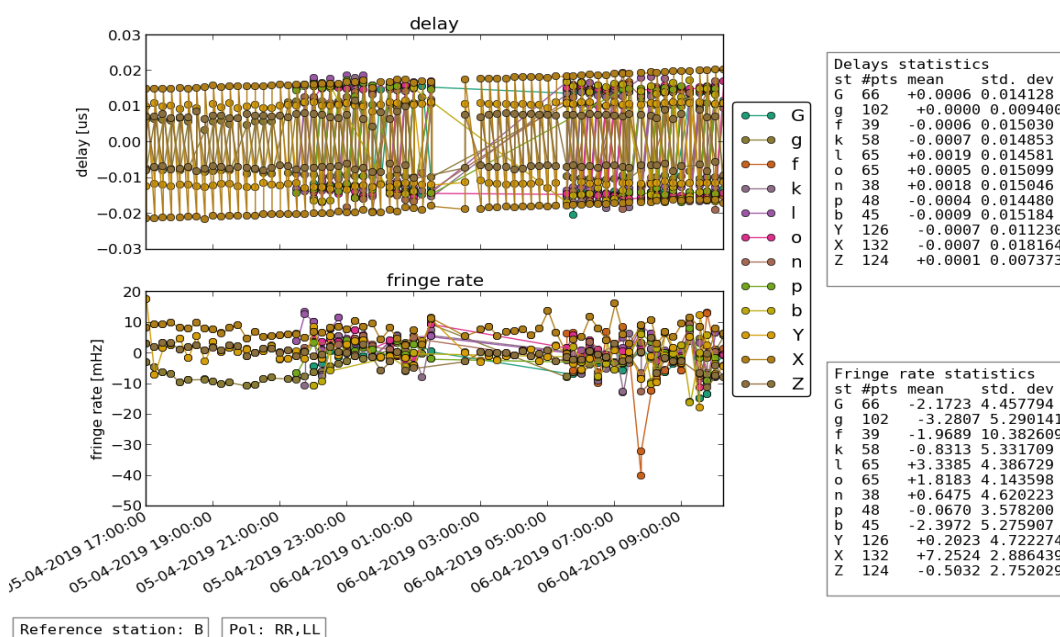
Notes

ALMA was supposed to take part in this experiment, but did not participate because of extremely harsh weather.

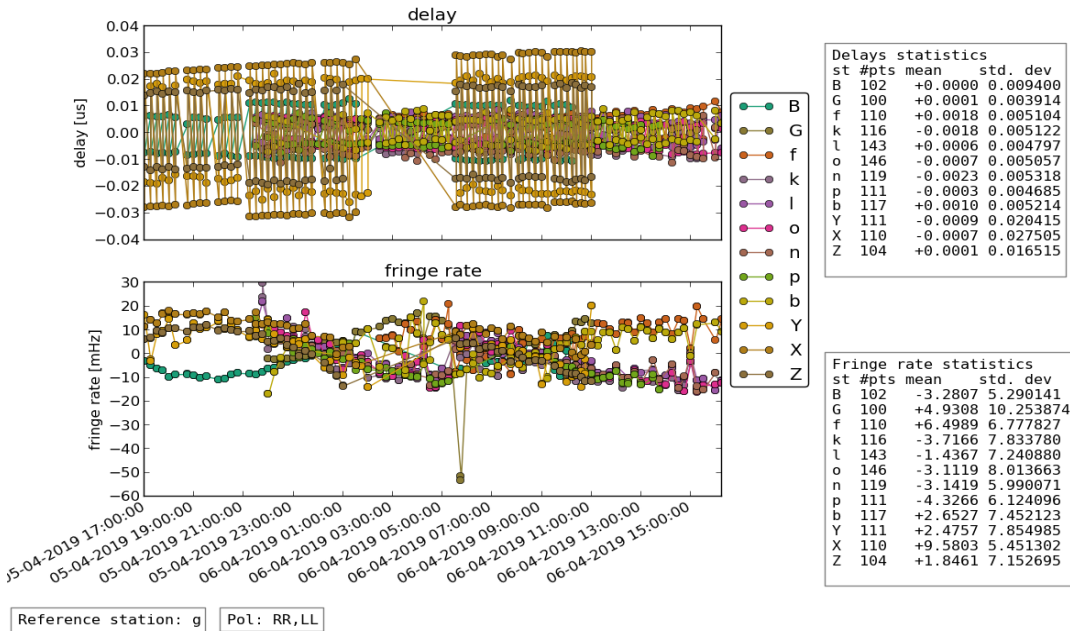
Post-Correlation checks

Residuals

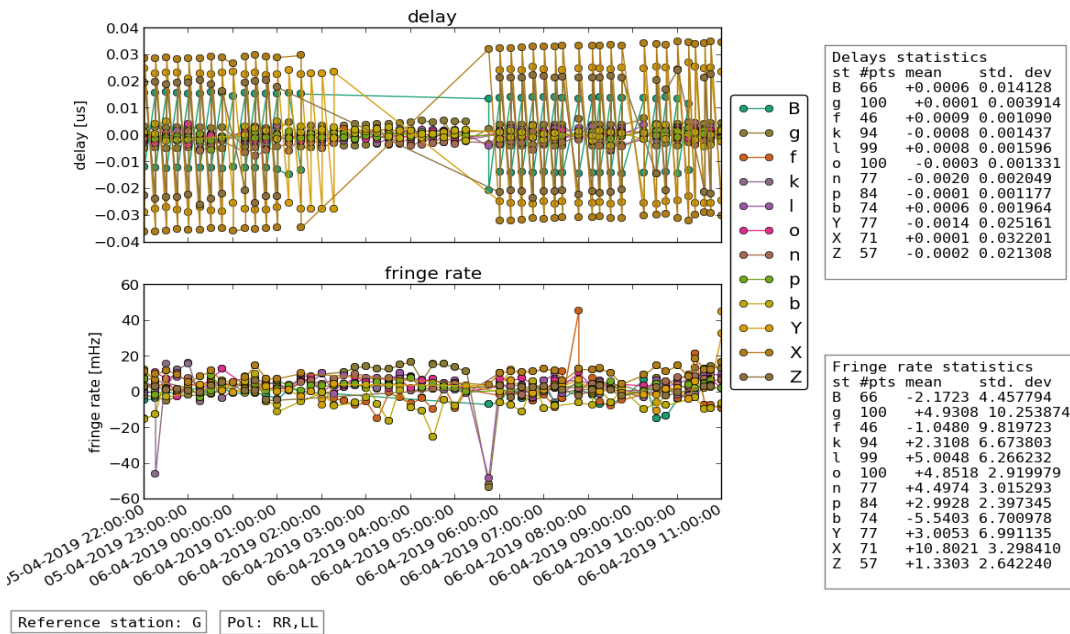
Ef:



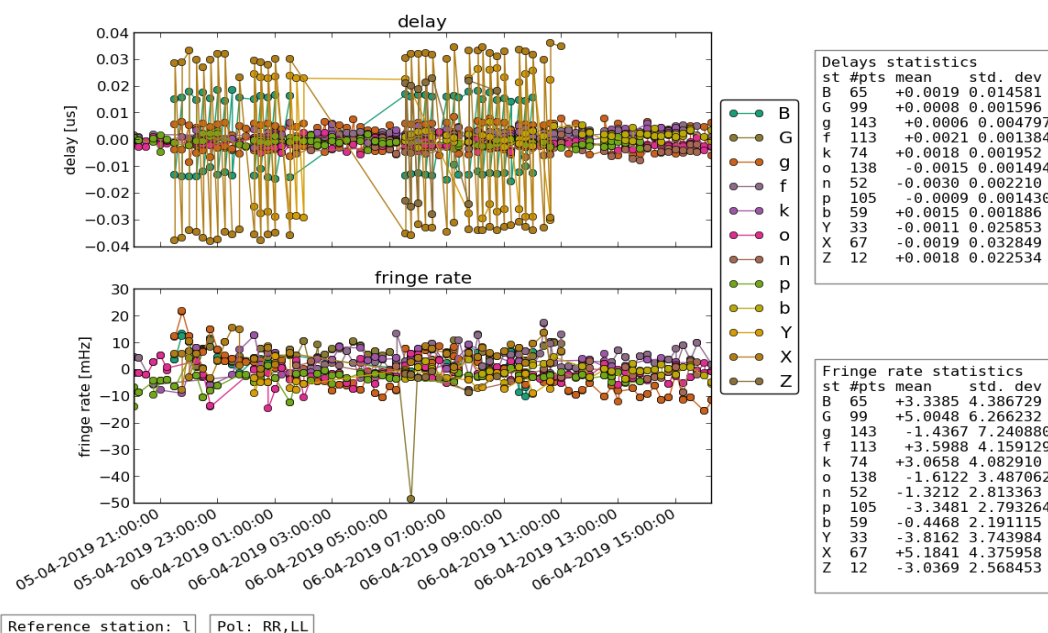
GLT:



GBT:



La:



Reference station: l Pol: RR,LL

FITS completeness (plist)

legend:

- o -- station scheduled and fully accounted for in the fits file
- 42 (or another number) -- station scheduled, but data found only for 42% of the scheduled interval
- x -- station scheduled, but corresponding entry not found in the fits file
- . -- station not scheduled

c191c.fits:

| | | | | EF | ON | YS | PV | MH | GL | NL | FD | OV | PT | BR | KP | MK | LA | GB |
|-----------|--------|----------|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| c191c_001 | No0001 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | . | . | . | . | . | . | . | . | . |
| c191c_002 | No0002 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | . | . | . | . | . | . | . | . | . |
| c191c_003 | No0003 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | . | . | . | . | . | . | . | . | . |
| c191c_004 | No0004 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | . | . | . | . | . | . | . | . | . |
| c191c_005 | No0005 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | . | . | . | . | . | . | . | . | . |
| c191c_006 | No0006 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | . | . | . | . | . | . | . | . | . |
| c191c_007 | No0007 | 1055+018 | 3mm_RDBE | o | o | o | x | o | . | . | . | . | . | . | . | . | . | . |
| c191c_008 | No0008 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | . | . | . | . | . | . | . | . | . |
| c191c_009 | No0009 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | . | . | . | . | . | . | . | . | . |
| c191c_010 | No0010 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | . | . | . | . | . | . | . | . | . |
| c191c_011 | No0011 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | . | . | . | . | . | . | . | . | . |
| c191c_012 | No0012 | 1055+018 | 3mm_RDBE | o | o | o | x | o | . | . | . | . | . | . | . | . | . | . |
| c191c_013 | No0013 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | . | . | . | . | . | . | . | . | . |
| c191c_014 | No0014 | 3C84 | 3mm_RDBE | . | . | . | . | . | . | . | o | o | o | o | o | x | o | . |
| c191c_015 | No0015 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | o | . | . | . | . | . | . | . | . |
| c191c_016 | No0016 | 3C84 | 3mm_RDBE | . | . | . | . | . | . | . | o | o | o | o | o | x | o | . |
| c191c_017 | No0017 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | o | . | . | . | . | . | . | . | . |

| | | | | | | | | | | | | | | | | | | | |
|-----------|--------|----------|----------|---|---|---|---|----|---|----|---|---|---|----|---|---|---|---|---|
| c191c_018 | No0018 | 3C84 | 3mm_RDBE | . | . | . | . | . | . | . | . | x | o | o | o | o | x | o | . |
| c191c_019 | No0019 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | o | . | . | . | . | . | . | . | . | . |
| c191c_020 | No0020 | 3C84 | 3mm_RDBE | . | . | . | . | . | . | . | o | o | o | o | o | o | x | o | . |
| c191c_021 | No0021 | OJ287 | 3mm_RDBE | o | o | o | x | o | x | o | . | . | . | . | . | . | . | . | . |
| c191c_022 | No0022 | 3C84 | 3mm_RDBE | . | . | . | . | . | . | . | o | o | o | o | o | o | x | o | . |
| c191c_023 | No0023 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | o | . | . | . | . | . | . | . | . | . |
| c191c_024 | No0024 | 3C84 | 3mm_RDBE | . | . | . | . | . | . | . | o | o | o | o | o | o | x | o | . |
| c191c_025 | No0025 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | o | o | . | o | . | . | . | . | o | . |
| c191c_026 | No0026 | 3C84 | 3mm_RDBE | . | . | . | . | . | . | . | o | . | o | o | x | . | . | . | . |
| c191c_027 | No0027 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | o | o | . | o | o | o | . | o | . | . |
| c191c_028 | No0029 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | . |
| c191c_029 | No0030 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | . |
| c191c_030 | No0032 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | . |
| c191c_031 | No0033 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | . |
| c191c_032 | No0035 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | . |
| c191c_033 | No0036 | OJ287 | 3mm_RDBE | o | o | o | x | 17 | o | o | o | o | o | o | o | . | o | o | . |
| c191c_034 | No0038 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | . |
| c191c_035 | No0039 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | . |
| c191c_036 | No0041 | 1055+018 | 3mm_RDBE | o | o | o | x | o | . | o | . | . | . | . | . | . | . | . | o |
| c191c_037 | No0042 | OJ287 | 3mm_RDBE | . | . | . | . | o | . | o | o | o | o | o | . | o | . | . | . |
| c191c_038 | No0044 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | . |
| c191c_039 | No0045 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | . |
| c191c_040 | No0047 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | x | o | o | . |
| c191c_041 | No0049 | OJ287 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | x | o | o | . |
| c191c_042 | No0050 | 1055+018 | 3mm_RDBE | o | o | o | x | . | o | o | o | o | o | o | o | . | o | o | . |
| c191c_043 | No0052 | OJ287 | 3mm_RDBE | o | o | o | x | . | o | 66 | o | o | o | o | o | x | o | o | . |
| c191c_044 | No0053 | OJ287 | 3mm_RDBE | . | . | o | x | . | o | o | o | o | o | o | o | x | o | o | . |
| c191c_045 | No0055 | OJ287 | 3mm_RDBE | . | . | o | x | . | o | o | o | o | o | o | o | x | o | o | . |
| c191c_046 | No0057 | 1055+018 | 3mm_RDBE | . | . | o | x | . | x | o | o | o | o | o | o | . | o | o | . |
| c191c_047 | No0058 | OJ287 | 3mm_RDBE | . | . | . | . | o | o | o | o | o | o | o | o | x | o | o | . |
| c191c_048 | No0059 | 3C345 | 3mm_RDBE | o | o | o | x | o | . | . | . | . | . | . | . | . | . | . | . |
| c191c_049 | No0060 | OJ287 | 3mm_RDBE | . | . | . | . | o | o | o | o | o | o | o | o | x | o | o | . |
| c191c_050 | No0061 | 3C345 | 3mm_RDBE | o | o | o | x | o | . | . | . | . | . | . | . | . | . | . | . |
| c191c_051 | No0063 | OJ287 | 3mm_RDBE | . | . | . | . | o | o | o | o | o | o | 86 | o | x | o | o | . |
| c191c_052 | No0064 | 1633+38 | 3mm_RDBE | o | o | o | x | o | . | . | . | . | . | . | . | . | . | . | . |
| c191c_053 | No0065 | OJ287 | 3mm_RDBE | . | . | . | . | o | o | o | o | o | o | o | o | x | o | o | . |
| c191c_054 | No0066 | 3C345 | 3mm_RDBE | o | o | o | x | o | . | . | . | . | . | . | . | . | . | . | . |
| c191c_055 | No0068 | OJ287 | 3mm_RDBE | . | . | . | . | o | o | o | o | o | o | o | o | x | o | o | . |
| c191c_056 | No0069 | 3C345 | 3mm_RDBE | o | o | o | x | o | . | . | . | . | . | . | . | . | . | . | . |
| c191c_057 | No0070 | OJ287 | 3mm_RDBE | . | . | . | . | o | o | o | o | o | o | o | o | x | o | o | . |
| c191c_058 | No0071 | 1749+096 | 3mm_RDBE | o | o | o | x | o | . | . | . | . | . | . | . | . | . | . | . |
| c191c_059 | No0073 | OJ287 | 3mm_RDBE | . | . | . | . | o | o | o | o | o | o | o | o | x | o | o | . |
| c191c_060 | No0074 | 1749+096 | 3mm_RDBE | o | o | o | x | o | . | . | . | . | . | . | . | . | . | . | . |
| c191c_061 | No0075 | 1055+018 | 3mm_RDBE | . | . | . | . | o | o | o | o | o | o | o | o | x | o | o | . |
| c191c_062 | No0076 | 1749+096 | 3mm_RDBE | o | o | o | x | o | . | . | . | . | . | . | . | . | . | . | . |
| c191c_063 | No0078 | OJ287 | 3mm_RDBE | . | . | . | . | o | o | o | o | o | o | o | o | x | o | o | . |
| c191c_064 | No0079 | 3C345 | 3mm_RDBE | o | o | o | x | o | . | . | . | . | . | . | . | . | . | . | . |
| c191c_065 | No0080 | OJ287 | 3mm_RDBE | . | . | . | . | o | o | o | o | o | o | o | o | x | o | o | . |
| c191c_066 | No0081 | 3C345 | 3mm_RDBE | o | o | o | x | o | . | . | . | . | . | . | . | . | . | . | . |
| c191c_067 | No0083 | OJ287 | 3mm_RDBE | . | . | . | . | o | o | o | o | o | o | o | o | x | o | o | . |

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|-----------|--------|----------|----------|---|---|---|---|---|---|---|---|---|---|---|----|---|---|---|---|---|
| c191c_068 | No0084 | 1633+38 | 3mm_RDBE | o | o | o | x | o | . | . | . | . | . | . | . | . | . | . | . | . |
| c191c_069 | No0085 | OJ287 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | o | o | o | o | x | o | o | o |
| c191c_070 | No0086 | 3C345 | 3mm_RDBE | o | o | o | x | o | . | . | . | . | . | . | . | . | . | . | . | . |
| c191c_071 | No0088 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | x | o | o | . | o | o | o | o |
| c191c_072 | No0089 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | x | o | o | . | o | o | o | o |
| c191c_073 | No0090 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | x | o | o | . | o | o | o | o |
| c191c_074 | No0091 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | x | o | o | . | o | o | o | o |
| c191c_075 | No0093 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | x | o | o | . | o | o | o | o |
| c191c_076 | No0094 | 1633+38 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | x | o | o | . | o | o | o | o |
| c191c_077 | No0095 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | x | o | o | . | o | o | o | o |
| c191c_078 | No0097 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | o | o |
| c191c_079 | No0098 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | 06 | o | . | o | o | o |
| c191c_080 | No0100 | 1749+096 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | o | o |
| c191c_081 | No0102 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_082 | No0103 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_083 | No0104 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_084 | No0106 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_085 | No0107 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_086 | No0109 | 1749+096 | 3mm_RDBE | o | o | o | x | . | o | o | o | o | o | o | o | . | o | o | o | o |
| c191c_087 | No0111 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_088 | No0112 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_089 | No0113 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_090 | No0115 | 1633+38 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_091 | No0116 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_092 | No0117 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_093 | No0118 | 3C345 | 3mm_RDBE | o | o | o | x | o | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_094 | No0119 | 3C345 | 3mm_RDBE | . | o | o | . | o | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_095 | No0120 | 3C345 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_096 | No0121 | 1633+38 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_097 | No0122 | 3C345 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_098 | No0123 | 1749+096 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_099 | No0124 | 1633+38 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_100 | No0125 | 3C345 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_101 | No0126 | 1749+096 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_102 | No0127 | 1633+38 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_103 | No0128 | 3C345 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_104 | No0129 | 1749+096 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_105 | No0130 | 1633+38 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | o | o | 70 | o | . | o | x | o |
| c191c_106 | No0131 | 3C345 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_107 | No0132 | 1749+096 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | o | o | 66 | o | . | o | x | o |
| c191c_108 | No0133 | 1633+38 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | o | o | o | . | o | o | x | o |
| c191c_109 | No0134 | 3C345 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | x | o | o | . | o | o | x | o |
| c191c_110 | No0135 | 1749+096 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | x | o | o | . | o | o | x | o |
| c191c_111 | No0136 | 1633+38 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | x | o | o | . | o | o | x | o |
| c191c_112 | No0137 | 3C345 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | x | o | o | . | o | o | x | o |
| c191c_113 | No0138 | 1749+096 | 3mm_RDBE | . | . | . | . | . | o | o | o | x | o | o | o | . | o | o | x | o |
| c191c_114 | No0139 | 1633+38 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | x | o | o | . | o | o | x | o |
| c191c_115 | No0140 | 3C345 | 3mm_RDBE | . | . | . | . | . | o | o | o | o | x | o | o | . | o | o | x | o |