

F182A Correlation Report

General information

- Session info: <http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/>
- Station feedback: http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/sep18/feedback_sep18.asc

Fringes

| Station | Code | Fringes | Plots | Comments |
|---------|------|---------|---|--|
| Ef | B | Yes | <p>Pv fringes are based on 10s of data from scan No0001:</p> <p>f182a_No0001_OJ287_BP_LL.pdf, f182a_No0001_OJ287_BP_RL.pdf, f182a_No0001_OJ287_BP_RR.pdf</p> <p>f182a_No0002_OJ287_BX_LL.pdf, f182a_No0002_OJ287_BX_LR.pdf, f182a_No0002_OJ287_BX_RL.pdf, f182a_No0002_OJ287_BX_RR.pdf</p> <p>f182a_No0008_1633+38_BX_LL.pdf, f182a_No0008_1633+38_BX_LR.pdf, f182a_No0008_1633+38_BX_RL.pdf, f182a_No0008_1633+38_BX_RR.pdf</p> <p>f182a_No0002_OJ287_BY_LR.pdf, f182a_No0002_OJ287_BY_RR.pdf</p> <p>f182a_No0007_1633+38_BY_LR.pdf, f182a_No0007_1633+38_BY_RR.pdf</p> <p>f182a_No0008_1633+38_BY_LR.pdf, f182a_No0008_1633+38_BY_RR.pdf</p> <p>f182a_No0009_1633+38_BY_LL.pdf, f182a_No0009_1633+38_BY_LR.pdf, f182a_No0009_1633+38_BY_RL.pdf, f182a_No0009_1633+38_BY_RR.pdf</p> <p>f182a_No0002_OJ287_BZ_LR.pdf, f182a_No0002_OJ287_BZ_RL.pdf</p> <p>f182a_No0008_1633+38_BZ_LL.pdf, f182a_No0008_1633+38_BZ_LR.pdf, f182a_No0008_1633+38_BZ_RL.pdf, f182a_No0008_1633+38_BZ_RR.pdf</p> | <p>Nearly perfect conditions: sunny, no clouds. Pointing drifts slightly, probably because the antenna is heating up in the sun. Tsys ~170K during scan No0001</p> |
| Mh | Z | Yes | <p>Pv fringes are based on 10s of data from scan No0001:</p> <p>f182a_No0001_OJ287_ZP_LR.pdf</p> <p>Clear indication of swapped pols:</p> <p>f182a_No0002_OJ287_BZ_LR.pdf, f182a_No0002_OJ287_BZ_RL.pdf</p> <p>f182a_No0002_OJ287_ZX_LL.pdf, f182a_No0002_OJ287_ZX_LR.pdf, f182a_No0002_OJ287_ZX_RL.pdf, f182a_No0002_OJ287_ZX_RR.pdf</p> <p>f182a_No0008_1633+38_BZ_LL.pdf, f182a_No0008_1633+38_BZ_LR.pdf, f182a_No0008_1633+38_BZ_RL.pdf, f182a_No0008_1633+38_BZ_RR.pdf</p> <p>f182a_No0008_1633+38_ZX_LL.pdf, f182a_No0008_1633+38_ZX_LR.pdf, f182a_No0008_1633+38_ZX_RL.pdf, f182a_No0008_1633+38_ZX_RR.pdf</p> | <p>good weather. swapped pols, the setup will stay the same for c182a, but before c182b will be fixed.</p> |

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|---------|------|---------|--|--|
| On | X | Yes | <p>Pv fringes are based on 10s of data from scan No0001:</p> <p>f182a No0001 OJ287 XP LL.pdf, f182a No0001 OJ287 XP LR.pdf, f182a No0001 OJ287 XP RR.pdf</p> <p>f182a No0002 OJ287 BX LL.pdf, f182a No0002 OJ287 BX LR.pdf, f182a No0002 OJ287 BX RL.pdf, f182a No0002 OJ287 BX RR.pdf</p> <p>f182a No0008 1633+38 BX LL.pdf, f182a No0008 1633+38 BX LR.pdf, f182a No0008 1633+38 BX RL.pdf, f182a No0008 1633+38 BX RR.pdf</p> <p>f182a No0002 OJ287 ZX LL.pdf, f182a No0002 OJ287 ZX LR.pdf, f182a No0002 OJ287 ZX RL.pdf, f182a No0002 OJ287 ZX RR.pdf</p> <p>f182a No0008 1633+38 ZX LL.pdf, f182a No0008 1633+38 ZX LR.pdf, f182a No0008 1633+38 ZX RL.pdf, f182a No0008 1633+38 ZX RR.pdf</p> <p>f182a No0009 1633+38 XY LR.pdf, f182a No0009 1633+38 XY RL.pdf, f182a No0009 1633+38 XY RR.pdf</p> | Tsys ~400K during scan No0001 |
| Ys | Y | Yes | <p>Fringes only to 'R'-channel:</p> <p>f182a No0002 OJ287 BY LR.pdf, f182a No0002 OJ287 BY RR.pdf</p> <p>f182a No0007 1633+38 BY LR.pdf, f182a No0007 1633+38 BY RR.pdf</p> <p>f182a No0008 1633+38 BY LR.pdf, f182a No0008 1633+38 BY RR.pdf</p> <p>Only in scan No0009 fringess appear also to 'L'-channel</p> <p>f182a No0009 1633+38 BY LL.pdf, f182a No0009 1633+38 BY LR.pdf, f182a No0009 1633+38 BY RL.pdf, f182a No0009 1633+38 BY RR.pdf</p> <p>f182a No0009 1633+38 XY LR.pdf, f182a No0009 1633+38 XY RL.pdf, f182a No0009 1633+38 XY RR.pdf</p> | <p>An amplifier burned out, likely just before the test. Frontend signal switched to a spare channel to compensate, but too late to influence these results. This explains low SNR, but not why we see fringes to R only (Ys normally only records LCP at 3 mm, so both 'L' and 'R' should be</p> |

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|---------|------|---------|--|------------------|
| | | | | the same LCP) |
| Pv | P | Yes | <p>Based on 10s of data from scan No0001</p> <p>f182a No0001 OJ287 BP LL.pdf, f182a No0001 OJ287 BP RL.pdf, f182a No0001 OJ287 BP RR.pdf</p> <p>f182a No0001 OJ287 XP LL.pdf, f182a No0001 OJ287 XP LR.pdf, f182a No0001 OJ287 XP RR.pdf</p> <p>f182a No0001 OJ287 ZP LR.pdf</p> | bad weather |

Notes