

## OBSERVATORY SYSTEMS EVENT LOG

This document is intended to alert the CFHT science community to potentially important events at the observatory that could have a direct impact on science data and instrument availability. The log is not intended to be all inclusive nor very detailed - events that occupy staff time, but do not directly affect data quality or instrument availability will not likely show up here. Nor will the details, although we will provide links to further information if it is available. Roughly one year of history will be maintained in this file. Older entries will be available as an archive. Ongoing issues which have not been resolved will be noted as progress is made or if more than 2 weeks has passed an entry will be made to indicate the continuing nature of the problem or condition.

**\*\*Last update highlighted**

### Telescope and facilities

| Date     | Issue  |
|----------|--|
| 18/04/16 | Dome shutter full open restricted by 18 inches – response to unidentified noise just past this position. |
| 14/04/16 | F/8 load cells failed – reports of small amounts of triangular images                                    |
| 02/12/15 | f/8 triangular images appear to be solved - regulator and load cell data                                 |
| 02/12/15 | Triangular images continue during Nov/Dec Espadons run   |
| 27/10/15 | f/8 triangular images solved ?   |
| 30/09/15 | f/8 secondary support – imperfect images at Cassegrain focus<br>Criticality - moderate                   |

### MegaCam

| Date       | Issue   |
|------------|---|
| 15/6/17    | Fits exposure start/end times locked to GPS time<br>(SHUTOPEN/SHUTCLOS)(        |
| 1/1/17     | fits header exp end time off by 1.5 sec; start off by up to 6 sec               |
| 1/1/17     | MegaCam FAST installed for science operations                                   |
| 9/1/16     | MegaCam back in operations – slave controller working                           |
| 22/7/16    | MegaCam slave-side CCD controller noisy – Camera down                           |
| 8/12/15    | MegaCam controller power supply changed – noise issues solved                   |
| 3/12/15    | Changed readout amp for all CCDs and higher noise on some chips at start of run |
| October/15 | MegaCam annual teardown / maintenance – new filter rollers                      |
| 30/09/15   | no issues   |

## WIRCam

| Date     | Issue  |
|----------|--|
| 22/04/16 | Vacuum leak repaired and WIRCam back on the sky  |
| 15/04/16 | Vacuum leak while on telescope. WIRCam down until further notice   |
| 25/11/15 | Semesters 15A and 15B have been reduced using the new non-linearity corrections and new flat field scaling normalization. Details on WIRCam web page   |
| 05/09/17 | WIRCam has experienced a problem with one of the filter wheel mechanisms. The remaining 5 nights of the current run have been cancelled and replaced by Espadons. WIRCam will be down at least until the next run (29 September). Updates will be forthcoming. |

## Espadons / GRACES

| Date      | Issue  |
|-----------|--|
| 2/1/17    | CCD 2-amplifier readout mode released for science operations   |
| 2/10/15   | Beam obscuration on Cass unit ADC removed – likely started in July<br>Criticality – high – discovered and repaired Oct 2, 2015 |
| 30/09/15  | no issue   |
| 06 /07/15 | Grating clamp caused 27 pixel spectrum shift along dispersion<br>Criticality – high – discovered and repaired prior to 07 run  |
| 04/25/17  | Cosmetic issues noticed on Espadons detector. No apparent impact to data quality.  |

## SITELLE

| Date     | Issue  |
|----------|--|
| xx/05/16 | - mottled image problem solved with cover on ref laser beam  |
| 08/02/16 | - mottled background of a few ADCU visible on Camera1 under review<br>Criticality – moderate<br>-ME variation with path difference under review<br>Criticality – moderate<br>-IQ at field corners degraded (elongated) under review<br>Criticality – low |
|          | Some aspects of SITELLE operations remain under technical verification<br>Science commissioning completed  |
| 30/09/15 | Camera optics returned to U Laval for evaluation – poor images seen on upper 20% of fields. SITELLE remains in technical commissioning.<br>Criticality – high  |

## Pipelines and data products

| Date     | issue    |
|----------|----------|
| 30/09/15 | no issue |

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