30 AUGUST 2018

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
30/08/16	Top end handling ring lost one drive motor to one of the opening arms. Engineering staff developed a work-around. No impact to observing.
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 Criticality - moderate

MegaCam

Date	Issue
17/7/18	filter mechanism repaired. MegaCam back in service as of **17/7/18**
6/7/18	filter mechanism fault, filter stuck in the beam. MegaCam taken off the telescope, repair and routine maintenance scheduled for the week of 7/10. Expected return to service is **16/7/18**
1/1/17	fits header exp end time off by 1.5 sec; start off by up to 6 secs
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
xx/08/18	It has been observed that the zero-points in Wircam have been degrading. It was determined that this was due to condensation on the external window during downtime. Solution is to increase dry air purge during downtime. Impact TBD.
19/09/17	WirCam repaired and back in service
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.
03/10/17	WIRCam has disassembled, the filter wheel was serviced and then reassembled. WIRCam has been reinstalled on the telescope for the run beginning 29 September and fully checks out. Problem solved.
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

Espadons / GRACES

Date	Issue
25/08/18	Due to lightning strike at the summit on 25 August, Espadons has lost all encoders. Spares on order. Espadons has been configured into a single mode (S + S). It can be manually configured into other modes and operated in campaign mode (single fixed mode and focus per night). Full capability will resume once repairs are made.
25/08/18	Due to lightning strike at the summit on 25 August, Graces has lost all encoders. Spares on order. Graces out of service until further notice.
20/6/18	Espadons Camera focus fault. Intermittent focus stage failure. Decision to operate at fixed focus until system repair can be implemented (expected repair date the week of 10/7/18)

25/04/17	Cosmetic issues noticed on Espadons detector. No apparent impact to data quality.
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 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 Criticality – high – discovered and repaired prior to 07 run

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 Criticality – moderate -ME variation with path difference under review Criticality – moderate -IQ at field corners degraded (elongated) under review Criticality – low Some aspects of SITELLE operations remain under technical verification 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. Criticality – high

Pipelines and data products

Date	issue
30/09/15	no issue