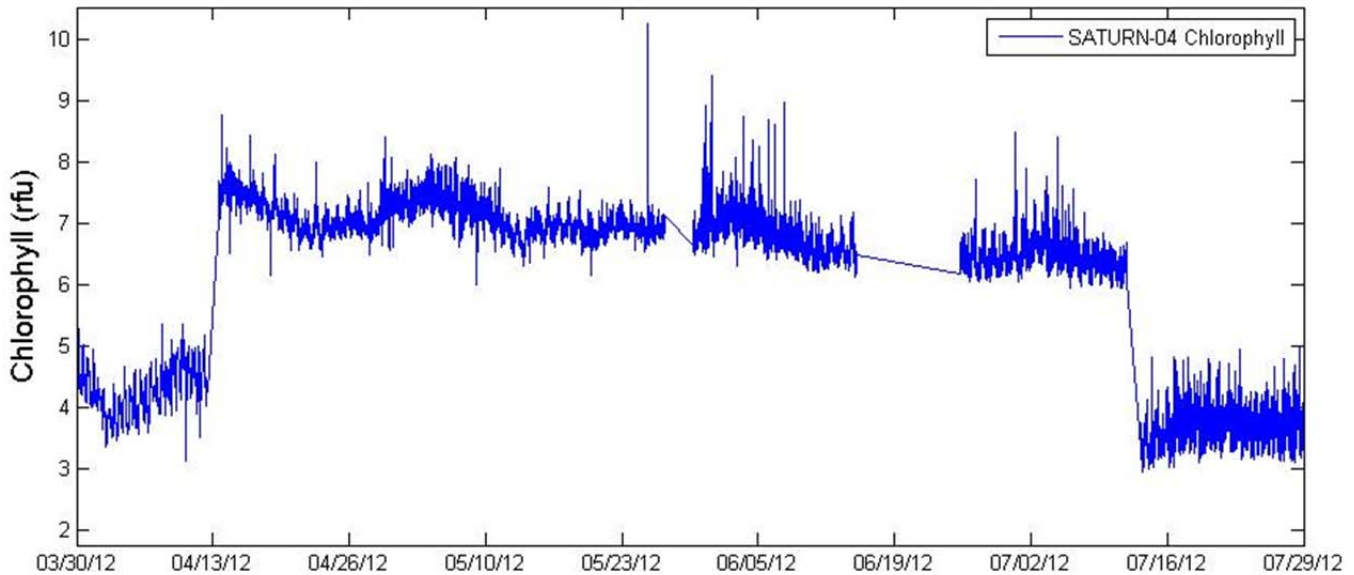


## SATURN-04 Chlorophyll Sensor Baseline Offset (4/13/12 – 7/15/12 15:00)



**Flag Comment:** A shift upward in the data following the removal & replacement of the Cyclops fluorometer flow cap was observed on 4/13/12. A similar shift downward occurred again after removal & replacement of the flow-cap on 7/13/12. The extent of the shift was approximated by taking the average chlorophyll values for 24 hours before and following the jumps in data. A shift of +2.97 rfu's occurred in April while a shift of -2.92 rfu's occurred in July. It is likely that this offset is due to a slightly different installation of the flow-cap and a correction for the offset has been applied. However, because this correction is approximate and because it is unknown whether there was also a shift in sensor response (slope), the data have been flagged and should be used with caution.

**Correction Details:** 2.9461 rfu's (the average of beginning and ending offsets) is subtracted from the raw data between 4/13/12 and 7/15/12 15:00).

**Additional Note:** The spring Lateral Bay Campaign at SATURN-04 occurred during this period of offset. During this campaign field samples were collected and a field calibration was developed for this time period (see document s4-chlcal02 in the Chlorophyll QA/QC Archive).