

New Horizons SDC PDS Review

Addie Dove
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KEM data overview

- The extended mission (KEM) shall go from 2016-10-26 to 2021-09-30
 - KEM Cruise 1 is from 2016-10-26 to 2018-08-13
 - KEM1 (Encounter) is from 2018-08-14 to 2018-12-01
 - This dataset includes data downlinked prior to 2019-01-01
 - Caveat that more data might be added later if downlinked after 2018-12-31
- Overall, no significant changes to the documentation or the dataset, other than updates for the new mission phase; documentation accurately reflects this
- No significant typos, other errors seen this time

KEM Cruise 1 data

- KEM Cruise 1 is from 2016-10-26 to 2018-08-13
- Data added from v1.0 release
- Issues with completeness of supplementary files addressed, all files have dates that go at least through 2018-08-13
- Previous release (v1.0) went up through 2017-12-17
- Additional notation added in the “dataset.cat” file (partly addressing issue raised in last review):

When considering this data set, note that the SDC channel thresholds were increased to their 'high' settings starting on 9/21/2017 (or 39.5 AU) due to unexpected noise following instrument testing for the MU-69 encounter. The instrument testing was neither a stimulus test nor a noise calibration test, though a modified version of the noise calibration commanding was used. The test was scheduled during a period of high spacecraft activity similar to activity levels expected during the MU-69 encounter, with the intent of judging what threshold values for each channel would give noise counts similar to those measured during low-activity periods. Thresholds were reset to 'low' settings on 6/10/2018. Therefore, during the interval from 9/21/2017 through 6/10/2018, detections smaller than the cruise 'high' thresholds were not recorded.

- Lots of activity on 2017-09-21

KEM1 data

- KEM1 (Encounter) is from 2018-08-14 to 2018-12-01
- Very little data in this release
- Threshold changes on 19-08-27 - significantly higher?

