# New Horizons SDC PDS Review

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# KEM1 Encounter data v3.0

"This is VERSION 3.0 of this data set.

This version includes data acquired by the spacecraft between 08/14/2018 and 07/31/2019. It only includes data downlinked before 08/01/2019.

Future datasets may include more data acquired by the spacecraft after 08/13/2018 but downlinked after 07/31/2019."

- V3.0 of the dataset includes data from 2018-08-14 to 2019-07-28 (dates after 2019-01-20 added since V2.0)

- Additional language in dataset.cat:

  V2.0

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  Version 2.0 included data acquired by the spacecraft between 08/14/2018 and 01/31/2019. It only included data downlinked before 02/01/2019.

  Two digits of precision have also been added to the EXPOSURE_DURATION value in all data labels after V1.0.

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## DATA

- Data is consistent with previous deliveries

  - ENG data: 6 column (Copy #, Ch ID, zero fill, Threshold, Magnitude, Timestamp)

  - SCI data: 11 column (UTC Time, MET, Channel, Charge, Mass, Mass_Threshold, M_sigplus, M_sigminus, Coincident flag, Thruster flag, imp vel)

- Lots of signals, mostly coincident hits, thruster firings, etc.

- No issues found with these data, quality flags seems to match

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## DOCUMENTATION

- Overall, no significant changes to the documentation or the dataset, other than updates for the new mission phase; documentation accurately reflects this

  - Added references to new papers
  - Inconsistent end dates

# Inconsistent end dates in document/

**data: 2018-08-14 to 2019-07-28**

- nh_pos_vel_angle - only data until end of 2016 (should at least match sdcram)

- sdc_chn_lvl_dn: 2019-12-21
- sdc_off_3d_v0838: 2018-12-24
- sdc_off_v0838: 2019-02-07
- sdc_on_3d_v0838: 2019-02-07
- sdc_on_off_cmd_v0002_alt: 2019-01-03
- sdc_on_off_cmd_v0002: 2019-01-03
- sdc_on_off_times_v0838_alt: 2019-02-07
- sdc_on_off_times_v0838: 2019-02-07
- sdc_on_v0838: 2019-02-04
- sdc_stm_v0003 (is also label file)
- sdcram: 2017-12-18
- sdcpower: 2019-05-13