

AB

```

+-----+-----+
| Set 0 | Before 2006-7-7          |
+-----+-----+
+ Set 1 | 2007-7-7 through 2007-5-24 |
+-----+-----+
+ Set 2 | After 2007-5-24           |
+-----+-----+

```

Details

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Each IMAGE OBJECT is a 3-dimensional representation of PEPSSI Rate Box Definition for one of those sets above. PEPSSI event measurements comprise an Energy measurement and a Time-Of-Flight (TOF) measurement. The combined (TOF,Energy) pair of each measurements represents a position on the TOV vs. Energy plane. ~~The~~ Each position on that plane corresponds to one on nineteen rate boxes, as displayed in Figure 11-6 of the SOC_INST_ICD document.

The LINE_SAMPLES axis in each IMAGE represents the Energy ADU (Analog-Digital Units; raw energy data number) of a PEPSSI raw measurement, LINE_SAMPLES positions 1 through 1024 corresponds to Energy ADU measurements of 0 through 1023.

The LINES axis in each IMAGE represents the TOF ADU of a PEPSSI raw measurement, LINES positions 1 through 20148 corresponds to TOF ADU measurements of 0 through 2047.

The value of each location in the IMAGE OBJECT is the Rate Box Index for that location's Energy and TOF ADU values.

```

MISSION_NAME           = "NEW HORIZONS"
DATA_SET_ID            = "NH-P-PEPSSI-3-PLUTO-V2.0"
PRODUCT_ID             = "RATEBOXDEFINITIONS"
PRODUCER_INSTITUTION_NAME = "SOUTHWEST RESEARCH INSTITUTE"
PRODUCT_CREATION_TIME  = 2015-12-31T00:00:00

```

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INSTRUMENT_NAME="
  PLUTO ENERGETIC PARTICLE SPECTROMETER SCIENCE INVESTIGATION"
INSTRUMENT_ID    = "PEPSSI"
INSTRUMENT_HOST_NAME = "NEW HORIZONS"

```

```

OBJECT                = HEADER
  BYTES                = 2880
  HEADER_TYPE          = "FITS"
  INTERCHANGE_FORMAT   = "BINARY"
  RECORDS              = 1
  DESCRIPTION          = "

```

```

  FITS format defined in NASA/Science
  Office Standards Technology 100-1.0
"

```

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END_OBJECT            = HEADER

```

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OBJECT                = SETONORMAL_HEADER
  BYTES                = 2880

```

Handwritten annotations: "NC" with a red arrow pointing to the word "The" in the first paragraph, and "2048" with a red circle around the number "20148" in the second paragraph.