

```

+-----+
| 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 TOF vs. Energy plane. The each position on that plane corresponds to one of 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-V1.0"
PRODUCT_ID             = "RATEBOXDEFINITIONS"
PRODUCER_INSTITUTION_NAME = "SOUTHWEST RESEARCH INSTITUTE"
PRODUCT_CREATION_TIME  = 2015-12-31T00:00:00
    
```

```

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
"
    
```

```

END_OBJECT           = HEADER
    
```

```

OBJECT                = SETONORMAL_HEADER
BYTES                 = 2880
    
```