

15. ACRONYMS AND ABBREVIATIONS

ADC	Analog-to-Digital Converter; converts electrical quantity, typically Volts, to DN or ADU
ADU	Analog-to-Digital Units; same as DN
a.k.a.	Also Known As
ApID	Application (Process) Identifier; 12-bit integer for telemetry packets, usually in hexadecimal
APID	Alternate form of ApID
APL	Alternate form of JHUAPL
bit	Binary Digit; 0 or 1 in base two
BTI	Bad Time Interval (PEPSSI)
C&DH	see CDH
CCD	Charge-Coupled Device (Instrument) or Critical Command Decoder (RF/Telecomm.)
CCSDS	Consultative Committee for Space Data Systems; telemetry packet format specification
CDH	Command and Data Handling; S/C or instrument; typ. redundant, so also CDH1, CDH-2, ...
CODMAC	Committee on Data Management and Computation ; data level definitions within NASA
CSOC	Christy Science Operations Center at MOPs JHU/APL in Laurel, MD
CU	Compression Unit
DN	Data Number; raw value measured by Analog-to-Digital Converter; typically an integer
DOY	Day Of Year (1-366)
EDU	Extension Data Unit; e.g. of FITS file; EDUs follow PDU; EDU numbering starts at 1
PHDU	Extension Header Data Unit – FITS header of Extension Data Unit
ESA	ElectroStatic Analyzer; part of SWAP instrument
FITS	Flexible Image Transport System; data storage format
FPGA	Field Programmable Gate Array
FV	FITS Viewing application; also Fv
G&C	See GNC
GB	GigaByte; 1,000,000,000 bytes
GN&C	See GNC
GNC	Guidance, Navigation, and Control (also sometimes G&C, GN&C)
HVPS	High-Voltage Power Supply
i.e.	Id Est (Latin: “that is”)
ICD	Interface Control Document
IEM	Integrated Electronic Module
IPM	Inter-Planetary Medium
ITF	Instrument Transfer Frame
JHUAPL	Johns Hopkins University/Applied Physics Laboratory; also JHU/APL
kB	kilobyte; 1,000 bytes
KiB	kibibyte; $1,024 = 2^{10}$ bytes
LASP	Laboratory for Atmospheric and Space Physics, University of Colorado Boulder
LSB	Least-Significant Bit/Byte first; ordering of bits or bytes; also lsb, LSByte-first, ...
LVPS	Low-Voltage Power Supply
MB	MegaByte; 1,000,000 bytes
Mbit	MegaBit; 1,000,000 bits
MiB	MebiByte; $1,048,576 = 2^{20}$ bytes
MCP	MicroChannel Plate; detector

MET	Mission Event (or Elapsed) Time; 10-digit, zero-padded, decimal representation of S/C seconds; may have decimal point and fractional suffix
MOPs	Mission Operations; also MOPS
MSB	Most-Significant Bit/Byte first; ordering of bits or bytes; also msb, MSByte-first, ...
N.B.	Nota Bene (Latin: “note well” i.e. pay particular attention to what follows)
NH	New Horizons; may refer to spacecraft, mission or project
OAP	Off-Axis Paraboloidal (mirror)
PDS	Planetary Data System; NASA archive organization for planetary data
PDU	Primary Data Unit; e.g. of FITS file, compare to EDU; sometimes interpreted as (E)DU 0
PHDU	Primary Header Data Unit – FITS header of Primary Data Unit
PERSI	Pluto Exploration Remote Sensing Investigation; sensor suite: MVIC; LEISA; ALICE.
PI	Principal Investigator
PPS	Pulse-Per-Second
R _j	Radius of Jupiter
R _p	Radius of Pluto
R _x	Receive (line; pin-out; channel)
S/C	Spacecraft; also SC, sc (subscript e.g. Y _{sc})
SOC	Science Operations Center (see also SOCC)
SOCC	Solar Occultation Channel (ALICE instrument; sometimes also SOC)
SSR	Solid-State Recorder; two on-board NH, so also SSR1, SSR-2, ...
STScI	Space Telescope Science Institute
SwRI	Southwest Research Institute; office in Boulder, CO, USA
TDI	Time-Delay Integration
TNF	Tracking and Navigation File
TOD	Time Of Day
TOF	Time Of Flight; sometimes used as an analog for along-track distance
TSOC	Tombaugh Science Operations Center - SOC at SwRI in Boulder, CO
T _x	Transmit (line; pin-out; channel)
VSDC	Venetia Burney Student Dust Counter (more often just SDC)