



Chandra/CIAO Dictionary

Chandra and CIAO use a number of specialized terms, some of which are common in X-ray astronomy data analysis, but not used elsewhere, and some of which are specific to CIAO.

Here we provide a dictionary of these terms. We have provided links to more information in the CIAO webpages, on the CXC site in general, and in external webpages as appropriate, making the dictionary a handy place from which to explore. Help on the CIAO tools is available from the ahelp documentation page.

A B C D E F G H I L M O P Q R S T V W X Y Z

A

[ACIS Background](#)
[ACIS: Advanced Camera for Imaging and Spectroscopy](#)
[ADU](#)
[Afterglow](#)
[Alternating Exposure Mode](#)
[APEC: Astrophysical Plasma Emission Code](#)
[APED: Astrophysical Plasma Emission Database](#)
[ARD: Analysis Reference Data](#)
[ARF: Auxiliary Response File](#)
[asol](#)
[Aspect / Aspect Solution](#)
[ATOMDB: Atomic Database](#)

B

[Bad Pixels](#)
[BI: Backside Illuminated](#)

C

[CALDB: Calibration Database](#)
[Chandra](#)
[ChaRT: The Chandra Ray Tracer](#)
[ChIPS: Chandra Image and Plotting System](#)
[CIAO: Chandra Interactive Analysis of Observations](#)
[Continuous Clocking \(CC\)–mode for ACIS](#)
[Coordinates](#)
[CP: Custom Processing](#)
[CTI: Charge Transfer Inefficiency](#)
[CXC: Chandra X-ray Center](#)

D

Data Model (DM)

Dither

ds9

DTCOR

E

Effective Area

Electron Proton Helium Instrument (EPHIN)

Energy

Event

evt

EXPOSURE and EXPOSURn

Exposure Maps

EXPTIME

F

FEF: FITS Embedded Function

FI: Frontside Illuminated

Filter Window (filtwin)

Firstlook

FITS: Flexible Image Transport System

FLSHTIME

flt

G

Grade (Event Grade)

GTI: Good Time Intervals

GUI

GUIDE: Grating User Interactive Data Extension

H

HETG/HETGS: High Energy Transmission Grating (Spectrometer)

HRC: High Resolution Camera

HRMA: High Resolution Mirror Assembly

I

img

Instrument Maps

ISIS

L

LETG/LETGS: Low Energy Transmission Grating (Spectrometer)

Levels (in Standard Data Processing)

LIVTIMEn and LIVETIME

LSF: Line Spread Function

M

Mask File

MDL: Model Descriptor List

mtl / MTL: Mission Time Line

O

OBC: On-Board Computer

OBI: Observation Interval

Observation Times

ObsID: Observation Id

OGIP: Office for Guest Investigator Programs

OIF: Observation Index File

ONTIME and ONTIMEn

- osol
- P*
- PCAD: Pointing Control and Determination system
 - PHA keywords
 - PHA: Pulse Height Amplitude
 - PI: Pulse Invariant
 - Pileup
 - Pitch
 - Pixlib
 - Platform
 - Prism
 - PSF Libraries
 - PSF: Point Spread Function
- Q*
- Quantum Efficiency (QE)
 - Quantum Efficiency Uniformity (QEU)
- R*
- Regions
 - RMF: Redistribution Matrix File
- S*
- S–Lang
 - SDP: Standard Data Processing
 - Sherpa
 - SIM: Science Instrument Module
 - src
 - Stacks
 - Status Bits
 - Streak Events
 - Subspace / Data Subspace
- T*
- TCD: Transforms, Convolutions and Deconvolutions
 - TIMEDL
- V*
- V&V: Verification and Validation
 - Virtual Columns
 - VTP: Voronoi Tessalation and Percolation
- W*
- WCS: World Coordinate System
 - WMAP: Weight Map
- X*
- X–rays
- Y*
- Yaw
- Z*
- z

Dictionary – CIAO 3.4

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