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## Chandra/CIAO Dictionary

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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.

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

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**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
  - TIMEDEL
- 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

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URL:  
<http://cxc.harvard.edu/ciao3.4/dictionary/>  
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