

*AHELP for CIAO 3.4*

## get\_arf\_axes

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## Synopsis

Module functions to retrieve the energy/wavelength grid of an ARF associated with source and background data

## Syntax

```
Struct_Type get_arf_axes([Integer_Type])
Struct_Type get_arf_baxes([Integer_Type])

Error Return Value: NULL

Arguments:

(1) data set number (default 1)
```

## Description

In Sherpa parlance, a ``dataspace'' is an N-dimensional grid defined by the independent variables of the dataset (i.e.,  $x_i$  in the expression  $y = f(x_0, x_1, \dots, x_{(N-1)})$ ). Simple examples include the CHANNELS array in PHA datasets and the pixel numbers along each axis of FITS images.

The `get_arf_axes()` function returns a variable of `Struct_Type`, which is equivalent to that returned by `get_axes()`. The only difference is that the fields `lo` and `hi` contain data from the ENERG\_LO and ENERG\_HI columns from the input ARF file.

One may display the ARF on the same grid using the Sherpa plotting command `LPLOT ARF`.

## Bugs

See the [Sherpa bug pages](#) online for an up-to-date listing of known bugs.

## See Also

*chandra*  
[guide](#)

`get_arf_axes`

## Ahelp: get\_arf\_axes – CIAO 3.4

*sherpa*

get analysis, get axes, get coord, get data, get energy axes, get errors, get filter, get filter expr,  
get fit, get fluxed spectrum, get ftest, get metadata, get photon axes, get photon energy axes,  
get photon wave axes, get qvalue, get raw axes, get record, get source, get statistic, get stats,  
get syserrors, get wave axes, get weights, record, save, write

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URL:

[http://cxc.harvard.edu/ciao3.4/get\\_arf\\_axes.html](http://cxc.harvard.edu/ciao3.4/get_arf_axes.html)

Last modified: December 2006