MASTER					
Name	Bands	NULL	Description	Type	Unit
name			CXO Jhhmmss.s+ddmmss	char(20)	
ra			Right Ascension	double	deg
dec			Declination	double	deg
err_ellipse_r0			Position error ellipse parameters	double	arcsec
err_ellipse_r1			Position error ellipse parameters	double	arcsec
err_ellipse_ang			Position error ellipse parameters	double	deg
gal_b			Galactic coords	double	deg
gal_l			Galactic coords	double	deg
significance			Source significance (flux not detect)	double	# sigma
point_flag			Point source flag	bool	T/F
var_flag			Variability flag	bool	T/F
confusion_flag			Possible source confusion flag	bool	T/F
pileup_flag		*	If pileup in any obi	bool	T/F
major_axis			Major axis of source ellipsoid (deconvolved)	double	deg
major_err			Error on major axis	double	deg
minor_axis			Minor axis of source ellipsoid (deconvolved)	double	deg
minor_err			Error on minor axis	double	deg
pos_angle			Position angle of source ellipsoid (deconvolved)	double	deg
pos_angle_err			Error on position angle	double	deg
image	*		*-band image	double()()	photo s-1 cm-2
flux	*		*-band flux	double	photo s-1 cm-2
flux_err	*		*-band flux error	double	photo s-1 cm-2
flux_2_10		*	Fitted 2-10 keV flux	double	erg s-1 cm-2
flux_2_10_err		*	Fitted 2-10 keV flux error	double	erg s-1 cm-2
nh_gal			Galactic hydrogen column density	double	cm-2
nh		*	Fitted hydrogen column density	double	cm-2
nh_err		*	Fitted hydrogen column density error (0.0=fixed parameter)	double	cm-2
alpha		*	Fitted spectral index	double	
alpha_err		*	Fitted spectral index error (0.0=fixed parameter)	double	
sigma	*		*-band flux variability	double	erg s-1 cm-2
hard_ms		*	Medium/soft-band hardness ratio	double	
hard_ms_err		*	Medium/soft-band hardness ratio error	double	
hard_hs		*	Hard/soft-band hardness ratio	double	
hard_hs_err		*	Hard/soft-band hardness ratio error	double	
hard_hm		*	Hard/medium-band hardness ratio	double	
hard_hm_err		*	Hard/medium-band hardnessratio error	double	
acis_num			Number of ACIS observations	int	
acis_time			ACIS exposure time	double	s
acis_hetg_num			Number of HETG-ACIS observations	int	
acis_hetg_time			HETG-ACIS exposure time	double	s
acis_letg_num			Number of LETG-ACIS observations	int	
acis_letg_time			LETG-ACIS exposure time	double	s
hrc_num			Number of HRC observations	int	

hrc_time	HRC exposure time	double	s
hrc_hetg_num	Number of HETG-HRC observations	int	
hrc_hetg_time	HETG-HRC exposure time	double	s
hrc_letg_num	Number of LETG-HRC observations	int	
hrc_letg_time	LETG-HRC exposure time	double	s

Per Source

Observation Parameters

Name	Bands	NULL	src/reg	Type	Unit	prop3.par	Description
os_id			obs	int		n/a	Observation to Source Link
obsid			obs	int		$obs_id	Observation Identifier (obsid,obi)
obi			obs	int		$obi_num	Obi Interval
cycle		*	obs	char()		$cycle	Observation Cycle (ACIS only)
timing_mode		*(acis)	obs	bool		obspar	HRC timing mode
exptime		*	obs	double		$exptime	Exposure time (ACIS only), frame time
gti_start			obs	s		$gti_start	Min(GTI) – start of GTIs
gti_stop			obs	s		$gti_stop	Max(GTIs) – end of GTIs
gti_elapse			obs	s		$gti_ellapse	gti_stop – gti_start
gti-obs			obs	char()		$gti_date_obs	TT (fits/style) of gti_start
gti-end			obs	char()		$gti_date_end	TT (fits/style) of gti_stop
mjd_ref			obs	int		$mjdref	MJD reference
gti_mjd_obs			obs	double	s	$gti_mjd_obs	MJD-obs of GTI start
instrument			obs	char()		$instrume	Instrument (ACIS or HRC)
grating			obs	char()		$grating	Grating Type (HETG, LETG, NONE)
targname			obs	char()		$object	Target Name
ra_pnt			obs	double	deg	$ra_pnt	Observation pointed right ascension
dec_pnt			obs	double	deg	$dec_pnt	Observation pointed declination
roll_pnt			obs	double	deg	$roll_pnt	Observation pointed roll angle
ra_nom			obs	double	deg	$ra_nom	Observation nominal ra
dec_nom			obs	double	deg	$dec_nom	Observation nominal dec
roll_nom			obs	double	deg	$roll_nom	Observation nominal roll
crdate			obs	date		evt3: DATE	Processing date UTC
ascdsver			obs	char()		evt3: ASCDSVER	Software version
caldbver			obs	char()		evt3: CALDBVER	Caldb version evt3 file
readmode		*	obs	char()		$readmode	timed or continous
datamode			obs	char()		$datamode	Data readout mode

Per-Obi Source

Name	Bands	NULL	src/reg	Type	Unit	prop3.par	Description
os_id			obs	int		n/a	Observation to Source Link
region_id			reg	char()		$region_id	region identification
source_id			src	int		# -- see below, eg ra#_fit_*	Source Identifier from 2d fit : 1 or 2
detect_significance			reg	double		$detect_sig	detection sig.
detnam			reg	char()		$detnam	Detector (ACIS-n, HRC-I, HRC-S)
livetime			reg	double	s	$livetime	Exposure Time corrected for GTI and dtcor
mjr_axis_raw			reg	double	deg	$ro_raw	Major axis of source ellipsoid on the detector
mnr_axis_raw			reg	double	deg	$r1_raw	Minor axis of source ellipsoid on the detector
pos_angle_raw			reg	double	deg	$rotang_raw	Position angle of source ellipsoid
psf_mjr_axis_raw	*		reg	double	deg	TBD	Major axis of ellipsoid representing the PSF (FWHM)
psf_mnr_axis_raw	*		reg	double	deg	TBD	Minor axis of ellipsoid representing the PSF (FWHM)
psf_pos_angle_raw	*		reg	double	deg	TBD	Position angle of ellipsoid representing the PSF

Name		reg/src	Description	Type	Units	Keyword
theta		reg	off axis angle	double	arcmin	$theta
phi		reg	azimuth	double	deg	$phi
aper_bkg_rate	*	reg	Count rate in background	double	c/sec	$bkg_rate_ *
aper_bkg_rate_err	*	reg	Error in background rate	double	c/sec	$bkg_rate_err_ *
aper_cnts	*	reg	number of total src counts	int	counts	$src_counts_ *
aper_rate	*	reg	Net count rate in region	double	c/sec	$net_rate_ *
aper_rate_err	*	reg	Error in count rate	double	c/sec	$net_rate_err_ *
pileup_warning	*	reg	Counts per frame per pixel	double	c/frame/pixel	$pileup_warn_ *
alpha	*	reg	Fitted spectral index	double		$flux_index_ *
alpha_err	*	reg	Fitted spectral index error (0.0=fixed parameter)	double		$flux_index_lo_ ,$flux_index_hi_ *
nh	*	reg	Fitted hydrogen column density	double	cm-2	TBD
nh_err	*	reg	Fitted hydrogen column density error	double	cm-2	TBD
conf_flag	*	reg	Possible source confusion flag	int	coded	TBD
edge_flag		reg	Chip-edge flag	int	coded	TBD
multi_chip_flag		reg	Multiple Chip flag	int	coded	TBD
var_flag	*	reg	Variability flag	int	coded	TBD
sigma	*	reg	*-band flux variability	double	erg s-1 cm-2	TBD
flux_2_10	*	reg	Fitted 2-10 keV flux	double	erg s-1 cm-2	$flux_2_10_broad
flux_2_10_err	*	reg	Fitted 2-10 keV flux error	double	erg s-1 cm-2	$flux_2_10_err_broad
ra	*	src	Right Ascension from fit	double	deg	$ra#_fit_ *
dec	*	src	Declination	double	deg	$dec#_fit_ *
err_ellipse_r0	*	src	Error ellipse parameters on position	double	arcsec	TBD
err_ellipse_r1	*	src	Error ellipse parameters on position	double	arcsec	TBD
err_ellipse_ang	*	src	Error ellipse parameters on position	double	deg	TBD
mjr_axis_fit	*	src	Major axis of source ellipsoid (deconvolved)	double	deg	$x#_fit_extent_ *
mjr_axis_fit_err	*	src	Error in Major axis of source ellipsoid (deconvolved)	double	deg	$x#_fit_extent_err*
mnr_axis_fit	*	src	Minor axis of source ellipsoid (deconvolved)	double	deg	$y#_fit_extent_ *
mnr_axis_fit_err	*	src	Error in Minor axis of source ellipsoid (deconvolved)	double	deg	$y#_fit_extent_err*
pos_angle_fit	*	src	Position angle of source ellipsoid (deconvolved)	double	deg	$angle#_fit_ *
pos_angle_fit_err	*	src	Error in Pos angle of source ellipsoid (deconvolved)	double	deg	$angle#_fit_err_ *
gal_b	*	src	galactic coords	double	deg	$gal_l_#_ *
gal_l	*	src	galactic coords	double	deg	$gal_b_#_ *
flux	*	src	*-band flux	double	photo s-1 cm-2	$flux#_sherpa_ *
flux_err	*	src	*-band flux error	double	photo s-1 cm-2	$flux#_sherpa_err_ *
flux_significance	*	src	flux / flux_err	double		$significance#_ *
point_flag	*	src	Point source flag	int	coded	TBD
point_stat	*	src	Point source statistic	double		TBD