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An X-ray survey of low-mass stars in Trumpler 16 with Chandra⋆

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ABSTRACT

Aims. We identify and characterize low-mass stars in the ∼3 Myr old Trumpler 16 region by means of a deep *Chandra* X-ray observation, and study their optical and near-IR properties. We compare the X-ray activity of Trumpler 16 stars with the known characteristics of Orion and Cygnus OB2 stars.
Methods. We analyzed a 88.4 ks *Chandra* ACIS-I observation pointed at the center of Trumpler 16. Because of diffuse X-ray emission, source detection was performed using the PWDetect code for two different energy ranges: 0.5−8.0 keV and 0.9−8.0 keV. Results were merged into a single final list. We positionally correlated X-ray sources with optical and 2MASS catalogs. Source events were extracted with the IDL-based routine ACIS-Extract. X-ray variability was characterized using the Kolmogorov-Smirnov test and spectra were fitted by using XSPEC. The X-ray spectra of early-type, massive stars were analyzed individually.
Results. Our list of X-ray sources consists of 1035 entries, 660 of which have near-IR counterparts and are probably associated with Trumpler 16 members. From near-IR, color−color, and color−magnitude diagrams we compute individual masses of stars and their A_v values. The cluster median extinction is $A_v = 3.6$ mag, while OB-type stars appear less absorbed, having $A_v = 2.0$ mag. About 15% of the near-IR counterparts show disk-induced excesses. X-ray variability is found in 77 sources, and typical X-ray spectral parameters are $N_H \sim 5.37 \times 10^{21}$ cm^{-2} and $kT \sim 1.95$ keV. The OB stars appear, softer with a median $kT \sim 0.65$ keV. The median X-ray luminosity is 6.3×10^{30} erg s^{-1}, while variable sources show a larger median L_x value of 13×10^{30} erg s^{-1}. OB-stars have an even higher median L_x of 80×10^{30} erg s^{-1}, about 10 times that of the low-mass stars.
Conclusions. The Trumpler 16 region has a very rich population of low-mass X-ray emitting stars. A large fraction of its circumstellar disks have survived the intense radiation field of its massive stars. Stars with masses 1.5−2.5 $M_\odot$ display X-ray activity similar to the Cyg OB2 stars, but much less intense than observed for Orion nebula cluster members.

Key words. stars: formation – stars: early-type – stars: pre-main sequence – X-rays: stars

1. Introduction

The Carina nebula region (NGC 3372) is one of the most massive star formation regions of the Galaxy. It is associated with a giant HII region spanning about 4 deg^2 of the sky and is bisected by a prominent V-shaped dark gas and dusty lane. This prominent young structure is not as compact as some of the other young galactic clusters, but seemingly to be related to a spiral feature. In this direction, we are looking almost tangentially toward the now recognized Carina-Sagittarius spiral arm, at the edge of a giant molecular cloud extending over about 130 pc, which has a content in excess of 5×10^5 solar masses (Grabelsky et al. 1988). The concentration of massive stars (i.e. $M \geq 20\ M_\odot$) interacts with the parent giant molecular cloud of the region, leading to triggered star formation events on intermediate to lower masses (e.g. Smith et al. 2004).

This region harbors several open clusters and/or star concentrations (Trumpler 14−16; Collinder 228 and 232; Bochum 10 and 11) containing more than 60 known O-type stars (Feinstein 1995). Large cavities within the giant molecular cloud are supposed to be carved out by the Tr 14 and 16 open clusters, which contain most of massive stars of the region. In particular, Tr 16 includes three rare main-sequence O3 stars, the Wolf-Rayet (WR) star HD 93162 and the famous luminous blue variable (LBV) η Carinae. There is a historical controversy about the distance and age of Tr 14 and Tr 16 (Walborn 1995). For instance, from extensive spectroscopy and photometry Massey & Johnson (1993) find 3.2 kpc for both clusters. However, photometric studies are strongly affected by differential extinction in the region and peculiar reddening, so the derived distance are different. An example is the Carraro et al. (2004) work, who compute distances of 4.0 kpc and 2.5 kpc, for different $R = A_v/E(B-V)$ values (3.48 and 4.16 for Tr 16 and Tr 14 regions). A more reliable distance (2250 ± 180 pc), was derived from proper motion and Doppler velocities of the expanding η Carinae Homunculus using HST-STIS[1] observations (Davidson & Humphreys 1997). Recent work (Tapia et al. 2003) derives a common distance DM = 12.14 (2.7 kpc) and an age between ∼1 Myr and 3 Myr, for Tr14 and Tr16, respectively. For this study, we adopt a distance for Trumpler 16 of 2250 pc and an age of 3 Myr. This young age agrees with the Smith et al. (2000) results, which report the existence of several embedded IR sources where star formation might be active. Also, DeGioia-Eastwood et al. (2001) confirm clear evidence of pre-main sequence (PMS) stars in the region,

⋆ Full Tables 1−3 are only available in electronic form at http://www.aanda.org

[1] Data from Hubble Space Telescope (HST) with the Space Telescope Imaging Spectrograph (STIS).

while Brooks et al. (2001) have identified two compact HII regions possibly linked to very young O-type stars. Finally, Hägele et al. (2004) report a compact cluster of infrared PMS-stars in Tr 16.

Of the existing methods of identifying young stellar populations, the use of X-ray emission is perhaps the least biased (Feigelson et al. 2002). While in main-sequence (MS) stars, from late A to M dwarfs, X-rays are believed to originate from the hot coronal gas that is heated by stellar dynamo magnetic fields (Maggio et al. 1987), for late type Pre-MS stars (T Tauri stars (TTSs)) X-ray emission is attributed to solar-like coronal activity but elevated by a factor of 10^3–10^4 (Feigelson & Montmerle 1999). Several authors suggested the possibility of detecting early PMS objects through their hard X-ray emission escaping the highly obscured regions (see Walter 1992; Kamata et al. 1997; Hofner & Churchwell 1997; Hofner et al. 2002). Recently, X-ray surveys have been successful in identifying the young and pre-MS population in star-forming regions, including: *i*– deeply embedded Class I young stellar objects (YSOs); *ii*– low-mass T Tauri PMS stars; *iii*– intermediate-mass Herbig Ae/Be PMS stars; and *iv*– zero-age MS stars. Moreover, X-ray emission from low-mass PMS stars usually exhibits a strong variability that helps to confirm membership.

In the last decade, X-ray observations of young stars on star-forming regions were intensified thanks to the high spatial resolution and the improved broad-band ([0.2–12.0] and [0.5–10.0] keV) effective area of the *XMM-Newton* and *Chandra* satellites. A first X-ray survey in the Carina region by Albacete Colombo et al. (2003) was performed on the basis of two early *XMM-Newton* observations (rev #115 and #116) centered on η Carinae. Because of the spatial resolution of the EPIC[2] camera and relatively short exposure time of the observations (∼35 ks), they detected only 80 X-ray sources, most of them related to the massive OB-type stars with $L_x \sim 10^{32}$–10^{34} erg s^{-1}. Before the observation used here, three *Chandra* observations were obtained in this region, two (obsId 50 and 1249) in the timed exposure mode, and the third (obsId 51) in the continuous clocking mode, which produces no image. Using only observation obsId 1249, Evans et al. (2003) presented luminosities and hardness ratios of the hot stars in Tr 16, and part of Tr 14. Low-resolution X-ray spectra of luminous sources were discussed by Evans et al. (2004); however, the short exposure time of such an observation (∼9.5 ks) was a serious limitation for the study of intermediate- and low mass stellar population in the region. This limitation exists even if obsId. 50 and obsId. 1249 are combined (Sanchawala et al. 2007), reaching completeness just at X-ray luminosity (L_x) of $\sim 7 \times 10^{31}$ erg s^{-1}, i.e. the X-ray emission level typical of single O- and early B-type stars.

In this paper we present results of the analysis of the deepest X-ray observation ever done in this region (∼90 ks). Section 2 gives details on the observation and data-reduction procedures. Section 3 explains the method used to detect the sources, photon extraction and the construction of the catalog. In Sect. 4 we present results of the cross-correlation with existing near-IR and optical catalogs of objects and their characterization based on their color–color (CC) and color–magnitude (CM) diagrams. Section 5 presents a statistical study of variability in the X-ray domain. Section 6 deals with results of the analysis of extracted X-ray spectra. In Sect. 7 we discuss X-ray luminosities of stars and compare them statistically with the X-ray source population of ONC and Cygnus OB2 star-forming regions. In Sect. 8 we discuss X-ray and stellar parameter of O- and early B-type stars. Finally, in Sect. 9 we give a summary and draw conclusions of the paper.

[2] European Photon Image Camera has about six times less spatial resolution than *Chandra* ACIS-I camera.

2. The X-ray observations

Trumpler 16 was observed with the ACIS detector on board the *Chandra X-ray Observatory* (CXO) (Weisskopf et al. 2002) on 2006 August 31[3] (obsId 6402), as part of the *Guaranteed Time Observation* (GTO) *Chandra* program. The total effective exposure time was 88.4 ks. The data were acquired in VERY FAINT mode, to ease filtering of non-X-ray events, with six CCD turned on, the four comprising the ACIS-I array [0–3], plus CCDs 6 and 7, part of ACIS-S. However, data from the last two CCDs not are used in the following because of the degraded point spread function (PSF) and reduced effective area resulting from their large distance from the optical axis. The ACIS-I 17′ × 17′ field of view (FOV) is covered by 4 chips, each with 1024 × 1024 pixels (scale 0.49″ px^{-1}). The observation was pointed toward RA = $10^h44^m47.93^s$ and Dec = −59°43′54.21″, chosen to maximize the number of stars in the FOV and close to the optical axis, but also including most of the OB stars of the cluster. Figure 1-left shows Trumpler 16 as seen in X-rays by our ACIS-I observation.

Most of the observed X-ray sources in Fig. 1-left are very likely located toward the central part of Trumpler 16, spatially constrained by the dark V-shaped dust lane of the Carina region (Brooks et al. 1998). However, note the small X-ray source concentration inside this dark structure, located towards the south east part of Fig. 1. Deep near-IR observation are needed to reveal counterparts of such population. We defer to a forthcoming paper the use of some public HST – WFPCII[4] observations to find signatures of star-environment interactions for some of the X-ray sources.

2.1. Data reduction

Data reduction, starting with the Level 1 event list provided by the pipeline processing at the CXO, was performed using CIAO 3.3.0.1[5] and the CALDB 3.1.0 set of calibration files. We produced a level-2 event file using the ACIS_PROCESS_EVENT CIAO task, taking advantage of the VF-mode enhanced background filtering and only retaining events with grades = 0, 2–4, 6 and status = 0. Photon energies were corrected for the time dependence of the energy gain using the CORR_TGAIN CIAO task. Intervals of background flaring were searched for, but none found. We hereafter assume a non-variable background. To improve the sensitivity to faint sources, given the spectrum of the background and that of typical sources, we filtered out events outside the [500:8000] eV energy band.

3. Data analysis

We built images in the three band-passes 0.5–1.5 keV (soft), 1.5–2.2 keV (medium), and 2.2–8.0 keV (hard). Before the color-coded image combination, we corrected single band-images by variations in exposure, sensitivity, and vignetting, by computing and dividing with its respective exposure maps. We constructed a color-coded X-ray image of the region by composition of the three soft (red), medium (green), and hard (blue)

[3] Observation start date is JD 273 350 372.4528.

[4] Hubble Space Telescope – Wide Filed Planetary Camera 2.

[5] http://cxc.harvard.edu/ciao/

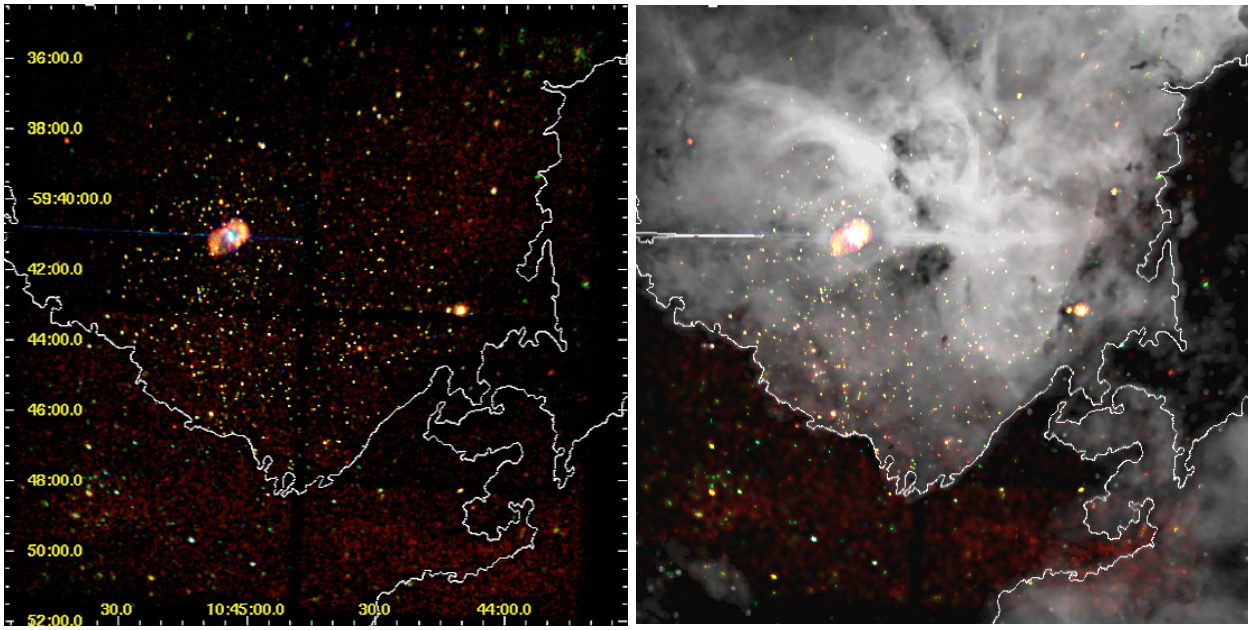

Fig. 1. *Left*: color-coded ACIS-I image of the 17′ × 17′ field in Trumpler 16 (see color version in the electronic edition). Kernel smoothing was applied to highlight point sources. Energy bands for the RGB image are [0.5:1.5], [1.5:2.2], and [2.2:8.0] keV for the red, green, and blue colors, respectively. Contour lines show the spatial distribution of the dark V-shaped dust lane. *Right*: ACIS-I image composed with a H_α image. This image clearly show the sharp cut, along the V-shape structure, in the spatial distribution of X-ray sources.

images (see Fig. 1). This image is a 17 × 17 arcmin field that comprises the center of Tr 16 and marginally the south east part of Tr 14. In addition to revealing a huge number of X-ray point-like sources with different color-energies, inspection of Fig. 1 suggests the presence of soft diffuse X-ray emission in the region. In particular, Townsley (2006) use a 57 ks ACIS-I observation centered on Tr 14 to study the diffuse X-ray emission in such a region and in the north west part of Tr 16. They explain the diffuse X-ray emission as likely arising from the fast O-star winds that shock and thermalize the surrounding medium. Because homogeneous data analysis techniques are required to do justice to a comparison of diffuse X-ray emission in this dataset with that of Tr 14, this study will be presented in a forthcoming paper.

3.1. X-ray source detection

Source detection was performed with the Palermo Wavelet Detection code, PWDetect[6] (Damiani et al. 1997b). It analyzes the data at different spatial scales, allowing the detection of both point-like and moderately extended sources, and efficiently resolving close source pairs. The most important input parameter is the detection threshold (SNR), which we established from the relationship between background level of the observation and expected number of spurious detections due to Poisson noise[7].

Diffuse, soft (~0.2−1.2 keV) X-ray emission has already been identified in this region (Corcoran et al. 1995; Townsley 2006) and causes different (non-uniform) X-ray background levels across the FOV of our observation. The best way of reducing the diffuse emission contribution is to discard soft photons in the detection procedure. We computed background (BKG) levels in four different energy ranges: 0.5−8.0 keV, 0.7−8.0 keV, 0.9−8.0 keV, and 1.1−8.0 keV. Since exposure maps are needed by the source detection algorithm, we used event files in these energy bands as input to the CIAO tool MKEXPMAP and assumed a monochromatic spectrum (kT = 2.0 keV)[8]. The background level for each energy band was computed as the average of values measured in three circular regions free of sources. If we accept 10 spurious detections in the ACIS FOV[9], mean computed background levels can be translated into different SNR thresholds for each energy band, i.e.: 4.7, 4.65, 4.6, and 4.55. These input parameters for PWDetect result in different numbers of detected sources in each energy band, for instance, 1266 sources in the 0.9−8.0 keV band, more than detected in the "canonical" 0.5−8.0 keV band (1214 sources). This is consistent with the effect of diffuse soft X-ray emission in masking weak sources.

A careful visual inspection was performed on the 0.5−8.0 keV and 0.9−8.0 keV source lists. We manually rejected 242 and 271 detections respectively, considered spurious either because they were produced by different instrumental artifacts (e.g. CCD gaps, detector edges, false detections along the readout trails), or since they resulted from the "fragmentation" into discrete sources of the extended emission making a toroidal ring around the LBV star η Carinae (Fig. 1). Furthermore, examination of afterglow[10] contamination led us to discard 29 and 20 false detections. The final source list was constructed by merging both catalogs: the list of 943 sources detected in the 0.5−8.0 keV band and the 1004 sources detected in the 0.9−8.0 keV band. Merging was performed using a criterion of maximum detection significance. The two catalogs coincide in 798 sources, consisting of 322 sources with $\mathrm{Sig}_{0.5-8.0} > \mathrm{Sig}_{0.9-8.0}$, while for the remaining 476 sources $\mathrm{Sig}_{0.9-8.0} > \mathrm{Sig}_{0.5-8.0}$ (where Sig_{x-y} is the detection significance

[6] See http://www.astropa.unipa.it/progetti_ricerca/PWDetect

[7] This last quantity was determined from extensive simulations of source-free fields (see Damiani et al. 1997a).

[8] http://asc.harvard.edu/ciao/download/doc/expmap_intro.ps

[9] See reasons of this choice in Albacete Colombo et al. (2007).

[10] Afterglow is defined as the residual charge from the interaction of a cosmic ray with the CCD. If afterglow events are not removed from the data, they can result in the spurious "detection" of faint sources.

in the $x - y$ energy band). Sixty-one sources were detected only in the 0.5−8.0 keV band, while 176 are exclusive to the 0.9−8.0 keV band and would have otherwise remained hidden because of the diffuse emission. This procedure led to a total number of 1035 X-ray sources in the entire field, which we analyze here.

3.2. Photon extraction

Even with the high spatial resolution of the *Chandra* ACIS-I camera, the high source density in Trumpler 16, source photon extraction is not an easy task. Although circular regions would contain a relatively large fraction of the PSF for almost all source photons, the extended wings of the PSF mean that very large regions would be needed, incurring in the risk of contamination from nearby sources. Moreover, the resulting inclusion of a large number of background events would reduce the signal-to-noise of weak sources. On the other hand, extraction from regions that are too small may reduce the photon statistics for further spectral and timing analysis. To address these issues, we decided to use ACIS EXTRACT (AE) v3.79 (Broos et al. 2002), an IDL-based package that makes use of TARA[11], CIAO, and FTOOLS[12] software.

This task reduces the problem of accounting for non-Gaussian shapes of the local PSF by calculating the shape of the PSF model at each individual source's position. For some sources, the background level is affected by the extended PSF wings of the bright sources (η Carinae and WR25) in the FOV. AE computes source background locally, by defining background extraction regions as circular annuli with inner radii 1.1 times the maximum distance between the source and the 99% PSF contour, and outer radii defined so that the regions contain more than 100 "background" events. To exclude contamination of the regions by nearby sources, background events are taken from a "Swiss cheese" image that excludes events within the inner annuli radii of all the 1035 sources.

The AE source extraction was performed using a PSF model that contains a specified fraction of source events ($f_{\rm PSF}$). Generally, we choose $f_{\rm PSF}$ = 90%, and computed the contours from the PSF for a mono-energetic source with E = 1.49 keV. For 9.9% of the sources in the denser parts of the Trumpler 16 field this fraction was reduced to avoid contamination with other nearby sources, in the most extreme cases down to $f_{\rm PSF} \sim 50\%$ (just 3 sources).

Following AE science hints, we then refined the initial source positions computed by PWDetect[13] by correlating the source images with the model of local PSF computed by AE libraries. This procedure was only used for those sources lying at off-axis larger than 5 arcmin (316 sources), while for the rest of the source (719 sources) we simply adopted mean photon positions[14]. AE also estimates local background spectra, computes redistribution matrix files (RMFs) and auxiliary response files (ARFs), constructs light curves, performs Kolmogorov-Smirnov variability tests, and computes photometry in 14 different energy bands. Results of AE procedure appears in Table 1, which lists the source number in Col. (1); name according to CXC naming convention[15] (2); sky position (RA and Dec J2000) (3, 4) with relative uncertainty (5); off-axis angle (θ) (6); significance of the detection (Sig.) from PWDetect analysis (7); the source extraction area (8); the PSF fraction within the extraction area, assuming E = 1.49 keV (9); the background-corrected extracted source counts in the 0.5−8.0 keV band (NetCnts) (10); the count rates (CR = NetCnts/Exptime/PSF$_{\rm frac}$) in three spectral bands: 0.5−8.0 keV, 0.5−2.0 keV and 2.0−8.0 keV, (11−13); source photon quantiles at 25, 50, and 75% percent in Cols. 14 to 16 (see Sect. 3.3); the median photon energy ($\overline{E_x}$) in (17). Column 18 is the log ($P_{\rm ks}$) Kolmogorov-Smirnov probability of non-variability (see Sect. 5), and in (19) there are flags from PWDetect detection code.

3.3. X-ray hardness ratios

A commonly used tool for exploring the spectral properties of sources with low photon statistics is the hardness ratio (e.g. Schulz et al. 1989; Prestwich et al. 2003). In this conventional method, the full energy range is divided into two or three sub-bands and the detected source photons are counted separately in each band. Most popular definitions for a single hardness ratio (HR) exist on the basis of only two energy sub-bands: *i*− HR = H/S or *ii*− HR = (H−S)/(H+S). By these definitions, HR is very sensitive to small changes (i.e. statistical fluctuations) in the number of photons falling in each band. The requirement of total counts in the full energy band is at least 40 photons (just 36% of our sources satisfy this constraint). Above this limit, HR becomes a "reliable method" of estimating the real hardness of sources (Albacete Colombo et al. 2007).

An improved method to resolve this limitation is based on the quantile analysis (Hong et al. 2004). Instead of working with predetermined energy bands, we determine the energy E^x below which the net counts is x% of the total counts of the source. We define quantile Q_x as $\frac{E^x - E_{\rm min}}{E_{\rm max} - E_{\rm min}}$, where in our study $E_{\rm min}$ = 0.5 keV and $E_{\rm max}$ = 8.0 keV. We computed the median Q_{50} values and quartiles Q_{25} and Q_{75} and give values in Table 1. A minor inconvenience of this method is that for a given spectrum, various quantiles cannot be considered independent variables, unlike the counts in different energy bands. However, Hong et al. (2004) overcome this problem by considering the log ($Q_{50}/(1 - Q_{50})$) vs. 3(Q_{25}/Q_{75}) plane. Based on an extensive set of simulated spectra, they predict the loci of models in this plane. We used a set of absorbed thermal models with plasma temperatures of 0.2, 0.5, 1, 2, 4, 10 keV, and $N_{\rm H}$ equal to 10^{20}, 10^{21}, 0.4×10^{22}, 10^{22}, 4×10^{22}, and 10^{23} cm^{-2}. Note that the spectrum changes from soft to hard as one goes from left to right in the diagram (see Fig. 2).

In a statistical sense, a comparison between sources in the grid models suggest typical $N_{\rm H}$ and kT values distributed around 0.8×10^{22} cm^{-2} and 1.5 keV, but dispersed within grid models of $N_{\rm H} = 0.4{-}1.0 \times 10^{22}$ cm^{-2} and kT = 1−3 keV, respectively. The absence of a systematic difference between the position of sources with and without a 2MASS identification on the hardness-ratio plane is probably caused by a combination of two observational bias: (*i*) related to the limiting magnitude of the 2MASS photometry ($K_{\rm s}^{\rm limit} \sim 14.3$ mag); and (*ii*) the X-ray sensitivity of the *Chandra* data ($f_{\rm x}^{\rm limit} \sim 10^{-14.5}$ erg s^{-1} cm^{-2}). However, it is not clear from the observational point of view, i.e. throughout the near-IR and X-ray flux source distributions, that a fraction of faint stellar X-rays sources would not have 2MASS counterparts. Deeper near-IR and X-ray observations are needed to unveil this issue.

[11] http://www.astro.psu.edu/xray/docs/TARA/
[12] http://heasarc.gsfc.nasa.gov/docs/software/ftools/
[13] PWDetect assumes a symmetric PSF.
[14] Please follow Acis-Extract technical procedures at website http://www.astro.psu.edu/xray/docs/TARA/ae_users_guide
[15] http://cxc.harvard.edu/cdo/scipubs.html

Table 1. Trumpler 16 X-ray source catalog (see the electronic version for the complete table).

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ cnt s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXO J+	[h:m:s]	[d:m:s]	($''$)	($'$)	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
1	104338.73-593832.7	10:43:38.74	–59:38:32.74	0.57	10.24	4.62	1757	0.90	30	0.392	0.311	0.081	0.12	0.10	−−	1.28	–0.38	–1
2	104341.39-594538.8	10:43:41.39	–59:45:38.81	0.53	8.56	6.03	1024	0.90	36	0.458	0.372	0.086	0.08	0.10	0.58	1.22	–0.16	–1
3	104341.41-594224.5	10:43:41.41	–59:42:24.52	0.28	8.52	16.38	964	0.91	208	2.626	1.533	1.093	0.13	0.17	0.37	1.74	–0.39	–2
4	104341.48-594102.2	10:43:41.49	–59:41: 2.26	0.43	8.86	6.15	997	0.90	55	0.704	0.448	0.256	0.07	0.10	0.38	1.25	–1.31	–2
5	104343.14-594409.0	10:43:43.15	–59:44: 9.02	0.46	8.17	5.88	726	0.90	28	0.361	0.052	0.309	0.23	0.24	−−	2.31	–0.39	–1
6	104343.98-594655.9	10:43:43.99	–59:46:55.93	0.43	8.60	4.83	843	0.90	41	0.532	0.483	0.049	0.11	0.09	0.55	1.19	–0.76	–4
7	104344.11-594817.9	10:43:44.11	–59:48:17.95	0.46	9.16	5.29	1042	0.90	47	0.602	0.550	0.052	0.08	0.07	0.56	1.01	–1.05	–1
8	104345.36-593948.7	10:43:45.37	–59:39:48.78	0.36	8.89	7.30	731	0.89	54	0.699	0.498	0.201	0.11	0.10	0.31	1.25	–0.34	–2
9	104345.37-593847.5	10:43:45.37	–59:38:47.54	0.40	9.40	5.83	970	0.91	45	0.580	0.227	0.353	0.14	0.11	0.49	1.36	–2.29	–1
10	104345.44-594158.9	10:43:45.44	–59:41:58.95	0.44	8.11	5.31	564	0.90	25	0.321	0.150	0.171	0.14	0.15	0.43	1.63	–0.11	–1
11	104346.39-594929.8	10:43:46.39	–59:49:29.82	0.37	9.55	4.72	474	0.74	41	0.634	0.550	0.084	0.11	0.10	0.35	1.22	–0.74	–1
12	104348.15-594924.4	10:43:48.15	–59:49:24.41	0.29	9.32	12.27	927	0.91	132	1.677	1.276	0.402	0.12	0.10	0.35	1.28	–1.24	–2
13	104349.40-594456.3	10:43:49.41	–59:44:56.36	0.28	7.45	13.68	418	0.90	89	1.138	1.118	0.020	0.06	0.06	0.56	0.98	–0.96	–3
14	104350.13-594552.6	10:43:50.14	–59:45:52.69	0.47	7.54	5.11	427	0.90	15	0.203	0.248	0.044	0.08	0.07	−−	1.01	–0.36	–1
15	104350.71-593744.4	10:43:50.71	–59:37:44.45	0.42	9.49	5.21	905	0.89	41	0.539	0.414	0.125	0.12	0.11	0.47	1.33	–0.78	–4
16	104350.89-595031.2	10:43:50.90	–59:50:31.25	0.39	9.76	5.26	1073	0.90	23	0.302	0.164	0.138	0.16	0.09	0.68	1.15	–2.67	–4
17	104351.09-594024.6	10:43:51.10	–59:40:24.67	0.38	7.97	5.42	479	0.89	28	0.361	0.239	0.122	0.11	0.09	0.36	1.20	–0.31	–1
18	104351.64-594525.1	10:43:51.64	–59:45:25.10	0.40	7.25	7.05	376	0.90	31	0.400	0.253	0.147	0.14	0.16	0.39	1.72	–3.15	–2
19	104351.87-594035.6	10:43:51.88	–59:40:35.60	0.43	7.81	5.87	443	0.89	7	0.102	0.102	0.001	0.13	0.09	−−	1.21	–0.34	–2
20	104352.13-594802.0	10:43:52.13	–59:48: 2.00	0.40	8.15	5.23	528	0.90	30	0.388	0.239	0.149	0.12	0.09	0.37	1.16	–0.46	–4
21	104352.25-594157.6	10:43:52.25	–59:41:57.68	0.39	7.28	5.31	357	0.89	25	0.325	0.301	0.023	0.07	0.08	0.93	1.07	–0.16	–4
22	104352.48-593920.9	10:43:52.48	–59:39:20.96	0.23	8.35	19.14	592	0.90	176	2.250	1.401	0.849	0.13	0.16	0.39	1.70	–0.50	–2
23	104354.13-594145.2	10:43:54.14	–59:41:45.24	0.37	7.11	4.81	357	0.90	25	0.325	0.101	0.224	0.09	0.15	0.38	1.63	–0.17	–1
24	104354.20-593805.2	10:43:54.21	–59:38: 5.24	0.41	8.93	5.21	737	0.89	22	0.290	0.196	0.094	0.15	0.12	0.72	1.43	–0.52	–1
25	104355.11-593624.2	10:43:55.11	–59:36:24.23	0.30	10.04	13.22	1205	0.90	177	2.246	1.378	0.869	0.13	0.15	0.37	1.59	–4.00	–2
26	104355.14-594750.4	10:43:55.14	–59:47:50.42	0.35	7.72	7.89	451	0.90	44	0.567	0.470	0.097	0.07	0.08	0.50	1.07	–1.07	–3
27	104355.47-594253.5	10:43:55.48	–59:42:53.59	0.29	6.69	13.04	278	0.89	51	0.664	0.357	0.306	0.14	0.17	0.53	1.74	–3.51	–2
28	104355.56-594923.0	10:43:55.57	–59:49:23.07	0.30	8.57	8.43	629	0.90	77	0.989	0.807	0.182	0.09	0.08	0.35	1.13	–0.50	–2
29	104356.25-594936.4	10:43:56.25	–59:49:36.48	0.33	8.65	5.36	648	0.89	36	0.471	0.335	0.136	0.14	0.09	0.39	1.21	–0.41	–1
30	104356.82-594236.0	10:43:56.82	–59:42:36.03	0.46	6.57	4.90	257	0.89	12	0.158	0.139	0.019	0.12	0.12	−−	1.41	–0.41	–1

Notes: column labeled with θ refers to the off-axis angle measured in arcmin from the aim point of the observation. *Sig.* is the significance of the source in number of sigma over background. Flag Id = −1: sources detected only in the 0.9−8.0 keV band. flag Id = −2 and −3 correspond to sources detected in both bands, but $\mathrm{Sig}_{0.9-8.0} > \mathrm{Sig}_{0.5-8.0}$ and $\mathrm{Sig}_{0.9-8.0} < \mathrm{Sig}_{0.5-8.0}$, respectively. Flag Id = −4 refers to sources detected only in the 0.5−8.0 keV band.

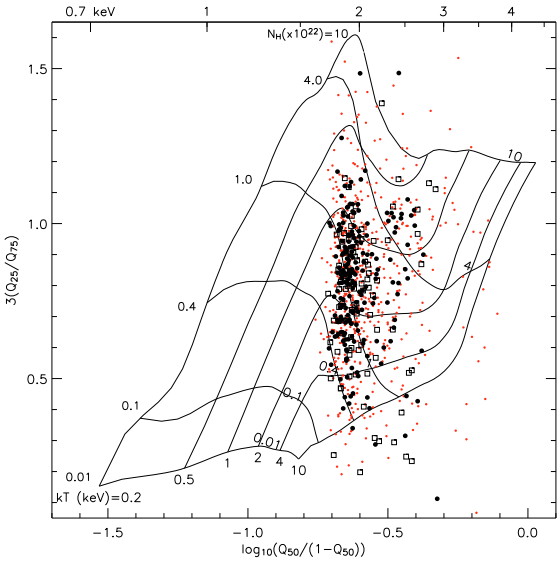

Fig. 2. Quantile color−color diagram (QCCD). The energy scale in the top *X*-axis shows the median energy values (Q_{50}). The grid pattern represents the location of simulated spectra in the diagram (Hong et al. 2004). Note: *filled circles* and *open boxes* refer to X-ray sources with and without 2MASS counterparts (see next section), respectively. *Small dots* (red) correspond to sources with unreliable quantile values affected by poor photon statistics (≤10 photons).

4. Optical and near-IR analysis

4.1. Counterparts

The large amounts of gas, dust, and selective extinctions of the region, combined with the absence of available deep ($V >$ 19 mag) optical photometry, prevent finding optical counterparts for most of our X-ray sources. We consider it appropriate to only use optical data to identify the massive star population (typical $V < 12$, Massey & Johnson 1993) of the region (i.e. Wolf-Rayet, O- and early B-types). We used a recent compendium of massive stars in the Carina Nebula presented by Smith (2006). Out of a total of 60 stars, 44 lie within the 0.0823 deg^2 FOV of our X-ray observation. We added the binary (O5.5V + O9.5V) FO 15 (Niemela et al. 2006), not included in the list of Smith (2006). Our final list of 45 hot massive stars is comprised of 1 LBV, 1 Wolf-Rayet, 21 O-type stars, and 22 early B-type stars. With a cross-identification radius of 3 arcsec, a total of 28 X-ray sources were identified. All the O-type stars were identified as X-ray emitters, while just 7/22 (∼31%) of early B-type (SpT. between B0V to B1.5V) have detectable X-ray emission. The list of massive stars with X-ray counterparts and the discussion of their X-ray properties is presented in Sect. 8.

Apart from the massive stars, our X-ray population is essentially composed of low-mass stars. In such a young cluster as Tr 16, low-mass stars are often optically invisible, being embedded and/or obscured by high amounts of gas and dust. We partially solve this problem by using the near-IR observations, on which the impact of dust extinction is reduced. We adopt J (1.25 μm), H (1.65 μm), and K_s (2.17 μm) photometry from the *Two Micron All Sky Survey* (2MASS) Point Source Catalog (PSC)[16]. The 2MASS is complete to magnitudes of 15.8, 15.1, and 14.3 mag in the J, H, and K_s bands, respectively. We restricted our photometry analysis to 2MASS sources with flag quality A−C, or D in at least one of the three magnitudes (see explanation in the 2MASS All-Sky Data Release User's Guide). With this restriction, 20 sources were removed from our initial list of 5938 sources in the ACIS FOV of our observation. This leaves a total of 5918 2MASS objects[17].

We began by cross identifying our X-ray source list with the 2MASS catalog. Identification radii, R_{id}, were chosen to limit the number of spurious identifications due to chance alignments, N_{chance}, and at the same time to include a large number of the true physical associations, N_{true}. Identification radii used were 1.0, 1.5, 2.1, and 2.7 arcsec adopted for the four different off-axis angle ranges: [0−2), [2−4), [4−7), and >7 arcmin, respectively[18]. Results of the final identification are presented in Sect. 4.3 and shown in Table 2. The first seven columns are: X-ray source number; 2MASS nomenclature for identified sources; the offset between the two positions; J, H, K_s magnitudes; photometry quality flag (Ph.Q); confusion flag (Cont). A total of 660 X-ray sources out of the 1035 in our list were identified with 665 2MASS objects. Five X-ray sources (#96, #382, #401, #816, and #1034) were identified with two 2MASS counterparts each. After a visual inspection, we kept only the closer counterparts. Thus the final list of near-IR counterparts consists of 660 entries.

We estimate the expected number of extragalactic sources in our detection list by following the Flaccomio et al. (2006) procedure. We consider the ACIS count-rates of non-stellar sources in the *Chandra Deep Field North* (CDFN, Alexander et al. 2003; Barger et al. 2003) and estimate absorption corrected count-rates assuming $N_H = 5 \times 10^{21}$ cm^{-2} (from $A_v \sim 3.6$, see Sect. 4.3) using PIMMS and assuming power-law spectra with index 1 and 2 (Giacconi et al. 2001). We then compare these count rates with upper limits taken at random positions in the ACIS FOV. For Γ between 1 and 2 we obtain 72 to 95 expected extragalactic sources. Given the intrinsic near-IR fluxes of these sources and the absorption toward Trumpler 16, they are expected to be among the 385 without NIR counterparts (cf. Flaccomio et al. 2006). This means that no more than 18 to 24% of the unidentified X-ray population is related to extragalactic sources.

4.2. Unidentified X-ray sources

A large population of young stars, proto-stars, deeply embedded in dense circumstellar gas and dust should be present in the Carina Nebula (Smith et al. 2003). However optical and near-IR counterparts of young stellar objetcs (YSOs) are difficult to detect. Fortunately, X-ray emission is expected in YSOs along all their initial phases (Montmerle et al. 2000). X-ray photons easily escape from dense circumstellar material, where absorption process becomes important mainly for energies below 1.2 keV (Morrison & McCammon 1983b). This makes hard X-ray energies the most appropriate "window" to detect counterparts of deeply embedded young sources.

Of the 375 X-rays sources without near-IR counterparts, just a small fraction (∼20%) is expected to be extra-galactic contamination (see Sect. 4.1). We are thus dealing with about ∼300 candidate young (first stage) low-mass stars, highly obscured by circumstellar material. In our data these sources typically have lower X-ray photon statistics than those with a near-IR counterpart, i.e. ∼8 vs. 28 average photons, respectively. In X-rays, no quantitative differences in the median energy and spectral

[16] See http://www.ipac.caltech.edu/2mass

[17] We note that the 2MASS catalog appears to have a "hole" around η Carinae (∼1.5 arcmin radius).

[18] The adopted radii were computed following technical procedures presented in Albacete Colombo et al. (2007).

Table 2. Near-IR counterparts of Trumpler 16 X-ray sources. The complete version is available in the electronic version.

N_x	2MASS J+	Offset (″)	J mag	H mag	K_s mag	Ph.Q	Cont.	A_v	Mass	Notes
1	10433859-5938306	2.33	14.57 ± 0.03	13.21 ± 0.04	12.63 ± 0.03	AAA	000	7.93	2.05	
2	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
3	10434145-5942245	0.30	14.18 ± 0.03	13.20 ± 0.02	12.82 ± 0.02	AAA	000	4.59	2.24	
4	10434126-5941002	2.62	15.47 ± ––	15.31 ± 0.14	14.60 ± 0.14	UBB	000	––	––	
5	10434295-5944080	1.77	15.63 ± 0.08	14.31 ± 0.06	13.27 ± 0.04	AAA	000	15.27	1.25	K-excess
6	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
7	10434401-5948177	0.76	8.70 ± 0.02	8.51 ± 0.04	8.47 ± 0.02	AAA	000	1.38	19.2	O9.5V
8	10434538-5939468	1.92	15.90 ± ––	14.88 ± ––	14.90 ± 0.16	UUC	000	––	––	
9	10434536-5938471	0.36	16.02 ± 0.10	14.04 ± 0.04	13.02 ± 0.04	AAA	000	14.90	1.01	
10	10434525-5941567	2.61	14.37 ± 0.06	12.99 ± 0.05	12.18 ± 0.04	AAA	000	12.05	2.16	K-excess
11	10434659-5949292	1.68	13.69 ± 0.05	12.68 ± 0.05	12.25 ± 0.04	AEA	c0c	––	2.38	
12	10434809-5949246	0.50	13.51 ± ––	13.09 ± 0.07	12.85 ± 0.05	UAA	0cc	––	––	
13	10434937-5944549	1.45	12.67 ± 0.02	12.20 ± 0.03	12.06 ± 0.03	AAA	000	0.82	4.89	
14	10435007-5945530	0.59	15.56 ± 0.05	14.59 ± 0.03	14.19 ± 0.07	AAA	000	4.31	1.30	
15	10435085-5937437	1.28	14.86 ± 0.05	13.74 ± 0.05	13.40 ± 0.05	AAA	000	3.76	1.86	
16	10435088-5950307	0.47	12.20 ± 0.02	11.99 ± 0.03	11.88 ± 0.02	AAA	000	0.28	6.22	
17	10435123-5940243	1.06	14.60 ± 0.05	13.38 ± 0.04	12.88 ± 0.04	AAA	000	6.57	2.03	
18	10435132-5945239	2.64	15.54 ± 0.08	14.06 ± ––	13.55 ± ––	AUU	cpp	––	1.31	
19	10435191-5940353	0.40	16.49 ± 0.16	15.15 ± 0.09	14.63 ± 0.11	CAA	000	––	0.70	
20	10435186-5948017	2.02	14.49 ± 0.05	13.46 ± 0.06	12.95 ± 0.05	AAA	000	6.60	2.09	
21	10435223-5941574	0.29	14.83 ± 0.05	14.46 ± 0.08	14.35 ± 0.11	AAA	000	––	1.88	
22	10435230-5939222	1.87	13.03 ± 0.04	11.90 ± 0.06	11.20 ± 0.04	AEE	000	––	3.55	Mass-deg.
23	10435408-5941463	1.19	15.40 ± 0.07	14.24 ± 0.05	13.79 ± 0.05	AAA	000	5.47	1.40	
24	10435419-5938073	2.13	13.03 ± ––	13.70 ± 0.06	13.53 ± 0.07	UAA	0cc	––	––	
25	10435501-5936242	0.75	11.64 ± 0.02	11.48 ± 0.03	11.37 ± 0.03	AAA	000	0.42	8.28	
26	10435505-5947505	0.70	14.18 ± 0.03	13.81 ± 0.04	13.70 ± 0.06	AAA	000	––	2.24	
27	10435545-5942531	0.50	14.93 ± 0.05	14.11 ± 0.05	13.84 ± 0.06	AAA	000	2.37	1.81	
28	10435557-5949226	0.39	13.44 ± 0.03	12.65 ± 0.03	12.24 ± 0.03	AAA	000	5.08	2.45	
29	10435606-5949351	1.97	14.53 ± 0.05	13.83 ± 0.05	13.60 ± 0.06	AAA	000	1.87	2.07	
30	10435684-5942364	0.45	14.70 ± 0.05	13.57 ± 0.03	12.88 ± 0.04	AAA	000	9.63	1.97	K-excess

Column 3 ("Offset") is the offset between X-ray and near-IR counterpart. Ph.Q refers to the 2MASS photometric quality flags for the J, H and, K_s bands: "A" to "D" indicate decreasing quality of the measurements, "U" that the value is an upper limit. The next column refers to the contamination and confusion flag: for further analysis we considered only sources unaffected by known artifacts, i.e. Cont. = 000 (see 2MASS documentation for details). Masses are given in solar units, and the last column contains information presented in Sect. 4. Note: the "MASS-DEG." flag indicates mass degeneracy according to a Siess-based Jmag-Mass calibration.

quantiles were found for the X-ray sources with and without near-IR counterparts.

4.3. Near-IR properties of identified X-ray sources

We now investigate the near-IR properties of the X-ray sources. For this purpose we restrict our analysis to sources with high-quality photometry (Ph.Q = AAA) and no confusion (Cont. = 000). With these requirements the total number of IR sources in the ACIS FOV is reduced from 5918 to 2178. We have also set a further requirement on near-IR counterparts of X-ray sources, that their J, H, and K_s magnitude errors be all <0.1 mag. All these requirements yield 367 X-ray sources with good near-IR counterparts, out of the original 660.

Figure 3 shows the $J-H$ vs. $H-K_s$ color–color (CC) diagram for these AAA-flagged sources. We also plot for comparison the MS (Kenyon & Hartmann 1995), the classical T Tauri stars (CTTS) locus of Meyer et al. (1997), and reddening vectors starting from these loci and with slope ($A_{Ks}/E(H-K_s) = 0.125$) corresponding to the extinction law given by Hanson (2003). Trumpler 16 members with purely photospheric emission should lie in this reddening band. Otherwise, YSOs, such as CTTSs, and Herbig Ae/Be stars, because of the NIR excess emission originating in the inner parts of their circumstellar disks, are often found to the right of this band, i.e. in the CTTS locus. Fifty-one (out of 367) X-ray sources, i.e. likely Trumpler 16 members, have colors consistent with the (reddened) CTTS locus. This means a fraction of 51/339 (28 OB stars were discarded) ∼15% of all (low-mass) identified X-ray sources in the CC diagram. Of all 51 sources with intrinsic K-excess i.e. disk-star systems, eleven (Src-Id: 36, 41, 209, 230, 773, 966, 993, 996, 1002, 1003, and 1009) appear below the CTTS vectors, but with intrinsic bright K_s magnitudes, as is shown in both panels of Fig. 4. They are probably intermediate- to high-mass young stars with an intrinsic K-band excess that would be produced by massive accretion disks and/or extended envelopes surrounding massive YSOs. If confirmed, they will contribute about 40% of the total massive star population of the Trumpler 16 region.

Figure 4-left shows the K_s vs. $J-K_s$ color magnitude (CM) diagram for the same stars plotted in Fig. 3. We also show for reference the expected cluster locus: the intrinsic K_s magnitudes and $J-K_s$ colors for stars earlier than B5V were taken from the MS calibration of Knödlseder (2000) and Bessell & Brett (1989). For later spectral types (masses between 0.1 and 7 $M_\odot$), we adopted the 3 Myr isochrone from Siess et al. (2000), converted to the observational plane using the calibration given by Kenyon & Hartmann (1995). The adopted MS and 3 Myr isochrone overlap satisfactorily.

In order to estimate the typical visual absorption of cluster members, we computed the distance of each X-ray source from the cluster locus along the reddening direction on the K_s vs. $J-H$ plane (see Fig. 4-right). Resulting A_v values for individual

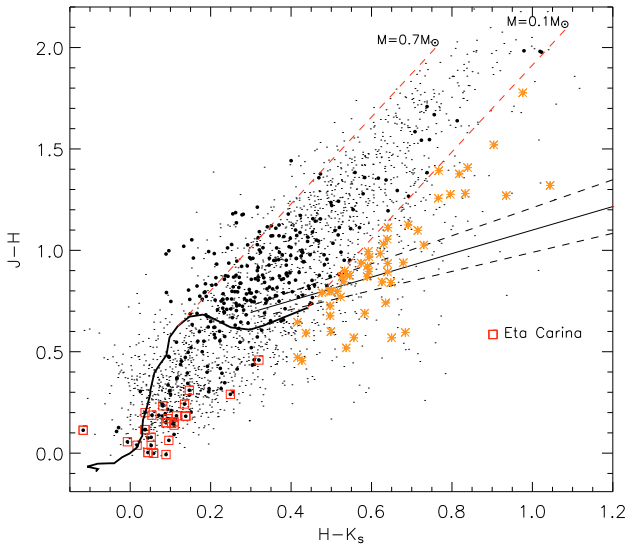

Fig. 3. *JHK*$_s$ color−color diagram from high-quality 2MASS photometry. FILLED CIRCLES and DOTS refer to X-ray detected and undetected 2MASS sources, respectively. ASTERISKS show the source population with intrinsic K_s excess. Identified 2MASS source known as O- and early B-type stars are indicated by SQUARES. The main sequence is shown for reference. We also show the classical T Tauri stars (CTTS) locus of Meyer et al. (1997) and reddening vectors (*dashed lines*) with length corresponding to A_v = 13 mag. Note: (*i*) the 2MASS photometry of η Carinae is severely affected, with Phot.Qual. = "DDD"; (*ii*) the peculiar position of the *red box* with $H - K_s < -0.1$ corresponds to the massive binary CPD-592628AB (SpT: O9.5V+B0.3V).

sources[19] are listed in Col. 9 of Table 2. Note that for $11.2 < K_s < 12.8$ the absorption cannot be constrained because the reddening vector intersects the cluster locus more than once. In both CM diagrams, around 20 X-ray sources lie to the left of or relatively close to the reddened cluster loci. These are likely to be foreground MS stars, thus their A_v values, either cannot be computed or are close to zero. In a statistical sense, the median A_v value of OB stars (A_v = 2.0 ± 0.8 mag) is lower than what is computed for low-mass stars (A_v = 3.6 ± 2.4 mag, considered to be the typical absorption of the cluster). Obviously, the above estimates depend on the reliability of the assumed cluster locus and on the assumption that disk-induced excesses do not significantly affect the *J* and *H* magnitudes. As a caution against possible contamination and/or anomalous *J* magnitude, but in particular for the *H*-band, the median A_v for the low-mass star population was estimated by discarding sources with intrinsic K_s excesses (i.e. labeled with asterisks in Figs. 3 and 4). We must note that: (*i*) the dispersion along the $J - K_s$ axis (see Fig. 4-left) indicates differential absorption of the region, and translates into a broad A_v distribution, with a spread $1\sigma \sim 2.4$ mag; and (*ii*) the difference between median A_v values of low-mass and OB stars suggests a clearing effect of strong winds and the radiation field of massive stars on their surrounding environment. This conclusion has also been reached by Albacete Colombo et al. (2007) for massive stars of the Cyg OB2 region. However, compared to the Cyg OB2 region, the fraction of disk-stars members in the Trumpler 16 region is about four times greater.

Finally, we used the 2MASS *J*-band magnitudes to obtain an estimate of stellar masses for 510 counterparts (of a total 660 identified stars) with *J*-band Phot.Qual. = "A" to "D". We computed the mass vs. *J* mag relationship appropriate for the cluster mean age (3 Myr), distance (DM = 11.78 mag), and extinction (A_v = 3.6 mag), is with the last obtained as described above for the cluster locus in the CM diagrams[20]. We used Siess et al. (2000) models to compute PMS tracks of low- and intermediate-mass stars (masses $\leq 7\ M_\odot$). We interpolated the *J* mag – mass relation, using the *J* magnitude vs. mass relationship at 3 Myr (see Col. 10 of Table 2), to compute individual masses of stars[21]. Unfortunately, the relation mass-*J* mag degenerates in the mass ranges 0.2−0.65 $M_\odot$ (3 sources) and 2.7−4.52 $M_\odot$ (21 sources). We indicate these sources with "Mass-deg." flag in Col. 11 of Table 2, and give mean mass values for sources lying in these two ranges, i.e. 0.42 and 3.55, respectively. Computed masses over 7 $M_\odot$ are potentially affected by large uncertainties in the extrapolated *J* mag – mass relation, and these values were excluded from further analysis. In Table 2 we give masses for a total of 510 stars, of which 410 range between 0.65 and 2.52 $M_\odot$.

5. X-ray variability

PMS stars have high levels of X-ray activity that are commonly attributed to a "scaled up" solar-like corona formed by active regions. X-ray variability over a wide range of time scales is common in all magnetically active stars (e.g. Feigelson & Montmerle 1999; Favata & Micela 2003; Güdel 2004). On long time scales, this includes rotational modulation of active regions, their emergence and evolution, and magnetic cycles (e.g. Marino et al. 2003; Flaccomio et al. 2005). Most of the observed variations have short time scales (~hours), however, and can be attributed to small-scale flares triggered by magnetic reconnection events.

We first investigated X-ray variability in our sources using the non binned one-sample Kolmogorov-Smirnov (KS) test (Press et al. 1992). This test compares the distribution of photon arrival times with what is expected for a constant source. The test was applied to photons in the source's extraction regions, which also contain background photons. Given that the background was found to be constant with time (Sect. 2.1), the results, i.e. the confidence with which we can reject the hypothesis that the flux was constant during our observation, can be attributed to the source photons. Column 18 of Table 1, reports the logarithm of the KS-test significance with values <−4 truncated at that value: sources with $\log(P_{KS}) < -3.0$ can be considered almost definitely variable because we expect at most one of the 1035 sources (i.e. ≤0.1%) to be erroneously classified as variable. Seventy-seven X-ray sources (≈7.4% of the total) fall in this category. Fifty-five sources with $-2.0 < \log(P_{KS}) < -3.0$ can be considered as likely to be variable, although about half of them suffer from low photon statistics. These numbers of sources are lower limits to the total number of variable sources in the region for several reasons: (i) most of the observed variability is in the form of flares, i.e. events that are shorter than our observation and with a duty cycle that may be considerably longer (Wolk et al. 2005); (ii) the sensitivity of statistical tests to time variability of a given relative amplitude depends critically on photon

[19] Individual photometric errors of up to 0.1 mag at K_s and $J - H$ color errors of ~0.14, could results for A_v errors up to ~0.7 mag.

[20] The choice of the *J* band is justified because, (i) in the presence of disk excesses, the *J*-band is the most representative of the photospheric emission, i.e. least affected; and (ii) the mass ranges in which the mass-luminosity relationship is degenerate are narrower than for a similar relationship in the *H* and K_s bands.

[21] This method suffers from photometry inaccuracy, distance, and age spread. Mass values should be adopted carefully and should not be considered to measure the slope of the mass function.

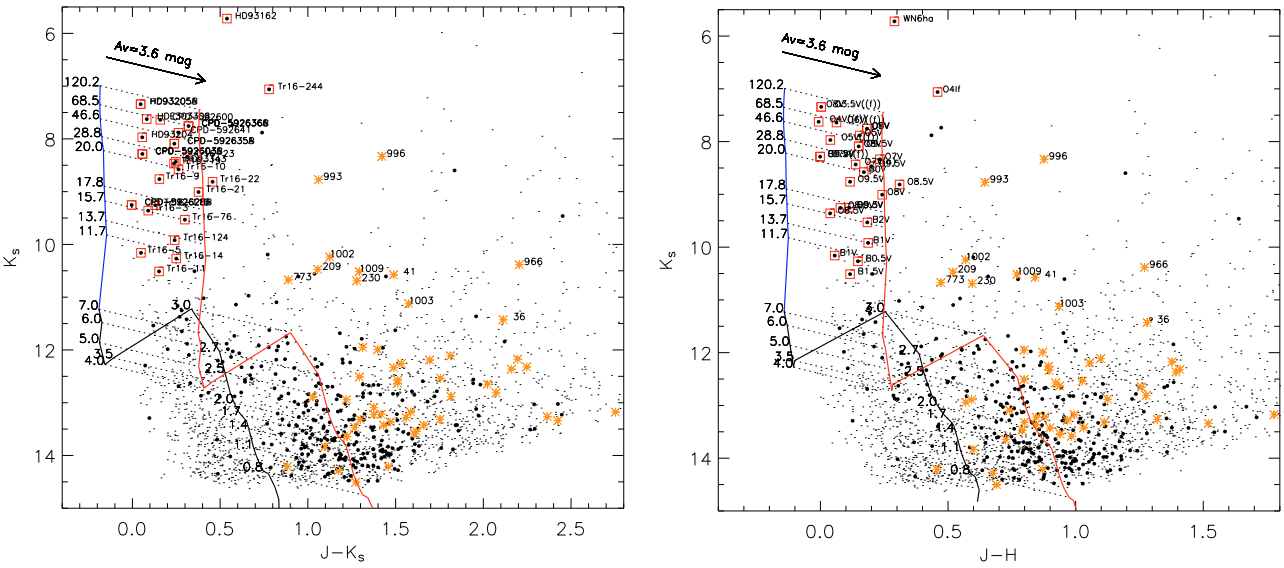

Fig. 4. CM diagrams of the Trumpler 16 region. Symbols as in Fig. 4. The two parallel curves indicate the expected cluster loci for the assumed distance and no reddening, and for the mean reddening $A_v = 3.6$ mag. Masses are indicated on *the left side* of the unreddened isochrone. Identified OB stars show K_s magnitudes below 11. Stars with K_s excess show typically $J - K_s > 1$. Note: the limitation imposed by the 2MASS photometry ($K_s \sim 14.5$ mag) corresponds to a mass limit of 1.1 $M_\odot$. Labels near OB stars refer to *Simbad names* (*left*) and respective *Spectral types* (*right*). The fact that stars Tr16−244 (O4If) and HD 93129AB (WN6ha+O4f) appear above the 120 $M_\odot$ track does not mean that they are more massive, since their evolutionary stages cannot be compared with a MS isochrone. η Carinae was discarded because of the bad 2MASS photometry (Phot.qual. = "DDD", see text). Sources labeled with numbers indicate stars (with masses above 12 $M_\odot$) probably surrounded by disks.

statistics (see Albacete Colombo et al. 2007). Hereafter, we consider those 77 sources with $\log(P_{ks}) < -3$ as variable.

To get a more accurate description of the detected variability, we extracted binned light-curves for each of the 77 variable sources in the region. We adopted a bin length of 900 s, a compromise between bins that are long enough to reach a good signal-to-noise ratio per bin for most sources and short enough to resolve the decay phase of typical flares. Since the background of our observation is both low (negligible for many sources) and constant in time, we did not apply any background subtraction to the presented light curves. In Fig. 5 we show examples of the different behaviors among the light-curves of variable sources. Source #254 like others (#35, #270, #438, #468, #480, #596, #761, and #975) experience "impulsive" flares with very quick rises and decay phases of only a few hours. Others (sources #503, #36, #41, #136, #164, #260, #489, #523, #731, and #811) show longer (2 to 10 h) flares. In several instances a second impulsive event is visible during the exponential decay of a previous flare (e.g. sources #36, #52, #87, #196, #564, #600, #620, and #623). The case of source #696 is a combination of both variability types, with two consecutive flares. Other sources like #714 and #651 (e.g. #27, #251, #271, #793, #839, #890, #904 and #980) show light curves that, instead of showing typical flares, are characterized by slow continuous rises or decays that might be explained by rotational modulation of non-homogeneously distributed plasma (Flaccomio et al. 2005). Finally, light-curves, like those observed for sources #524, #71, and #933, seem to be related to a combination of flare like activity and rotational modulation.

5.1. Variability in massive stars

Because X-ray emission from O stars, which is believed to be unrelated to solar-like magnetic activity, comes from the integrated emission from many small shocks randomly occurring in their strong winds (Feldmeier et al. 1997; Owocki & Cohen 1999), on average, global X-ray variability is not expected to occur. However, it is surprising that three (out of 28) massive stars, namely Tr 16-11 (B1.5 V, source #136), Tr 16-5 (B1 V, source #489), and the binary HD 93205 (O3.5V((f))+O8V, source #242), are significantly variable, with $\log(P_{KS})$ values lower than −3. The origin of the observed flare-like variability in the first two sources (B-type stars) is probably coronal activity of unresolved late-type companions. This hypothesis was also proposed for Tr16-11 itself by Evans et al. (2003).

Figure 6 shows the X-ray light-curve of the HD 93205 binary system. Two different processes may be acting simultaneously to explain the observed variability:

- (*i*) The decrement of count rate agrees with phase-locked X-ray variability reported by Morrell et al. (2001). The X-ray count rate decreases from ~0.055 to 0.033 cts/s (about 35%) in about 88 ks (~1 day) of continuous observation, i.e. about 16% of the orbital period. This agrees with X-ray emission from colliding winds contributing most of the total detected emission. However, we cannot discard that magnetically channeled wind streams, at the O3.5 V((f)) primary, colliding with the cool and dense postshock plasma at the magnetic equator (e.g. θ Orionis-C, Gagné et al. 2005a). A detailed spectral and time (phase-resolved) study should follow to discern between these two possibilities.
- (*ii*) The observed short time X-ray variability ($\log(P_{KS}) = -3.07$). While dynamical instabilities (Luo et al. 1990)[22] in the colliding wind region (CWR) seems to be more

[22] Whenever the wind velocities of two stars are not equal, shocked CWR should be subject to the rapid growth of dynamical (Kelvin-Helmholtz) instabilities, reaching the radiative cooling state. This limit becomes important for massive binaries with typical orbital periods ≤20 days (Antokhin et al. 2004).

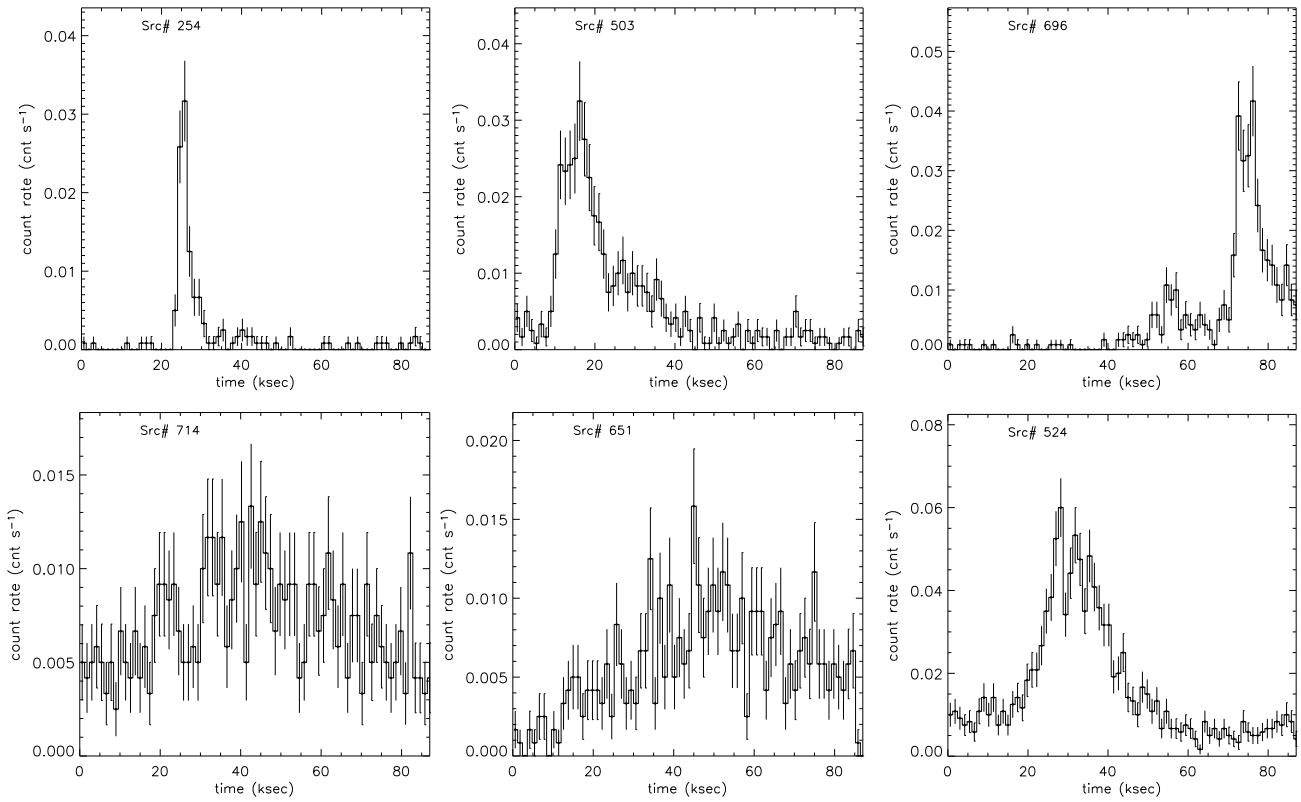

Fig. 5. Light curves (in the 0.5−8.0 keV band) showing different variability scenarios occurring among our 77 variable sources. Bin size is 900 s. The source number is indicated in each panel. *Upper panels* show a flare-like behavior with very quick rises and decay phases of hours, while *bottom panels* are slowly modulated variability. A probable flare+modulation variability is occurring in the last panel.

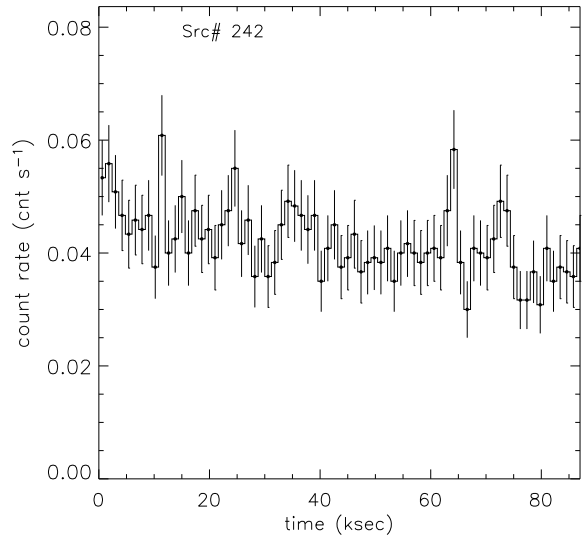

Fig. 6. X-ray light-curve of the massive binary (O3.5V((f))+O8V) HD 93205. This light curve shows: *i*− a uniform decay probably related to the orbital motion of the system, with changing absorption $N_{\rm H}$ of the colliding-wind region along the line of sight; plus *ii*− a probable short-term variability (see text).

appropiate, the magnetic reconnection from an unknown low-mass tertiary companion[23] cannot be ruled out.

We note that the origin of X-ray variability in high mass stars is beyond of the scope of this work, because it needs a larger X-ray data set. We leave this subject to a further investigation.

6. Spectral analysis

To characterize the hot plasma responsible for the X-ray emission of Trumpler 16 stars and to estimate their intrinsic X-ray luminosities, we analyzed the ACIS spectra of the 615 (out of all 1035) sources with more than 20 net photons (NET_CNTS), i.e. corrected for local background. Spectral parameters for sources with less than 20 net photons are much too ill-constrained (Albacete Colombo et al. 2007), and thus were not determined. Moreover, high local background could affect the reliability of computed spectral parameters. We defined the fraction $f_{\rm cont}$ as the ratio between BKG_CNTS (number of background counts in the source extraction region) and NET_CNTS. We accepted spectral fits for sources with $f_{\rm cont} < 1$ and NET_CNTS ≥ 20 photons. Of all 1035 sources, only 563 satisfy both conditions above, while 119 show $f_{\rm cont} < 1$, and 353 lie in the low statistics regime (i.e. NET_CNTS < 20 ph).

Source and background spectra in the 0.5−8.0 keV band were produced with AE (see Sect. 3.2), along with individual "redistribution matrices files" (RMF) and "ancillary response files" (ARF). For model-fitting, spectra were grouped to have a specified number of events in each energy bin. Grouping was tuned to the source statistics, and we chose 2, 5, 7, 10, and 60 counts per channel for sources with net-counts in the following ranges: [20−40], [40−100], [100−200], [200−500],

[23] Variability like HD 93205's has been seen also on theta 2 Ori-A and has been interpreted by Schulz et al. (2006) as evidence of binary-induced reconnection. However, image reconstruction shows that hard, short-term variations are from an intermediate-mass tertiary companion at ~0.3 arcsec (Harvin et al. 2002).

Table 3. X-ray spectral fits of Trumpler 16 sources. The complete version is available in the electronic version.

N_x #	Cnts. (ph)	Stat. (χ^2_ν)	log (N_H) (cm^{-2})	kT (keV)	log (L_x) (erg/s)	flag
1	30	– –	– – – – –	– – – – –	30.51	no-fit
2	36	– –	– – – – –	– – – – –	30.58	no-fit
3	208	0.66	22.01 ± 0.16	2.07 ± 0.56	31.58	fitted
4	55	0.94	21.90 ± 0.31	2.96 ± 2.61	30.50	fitted
5	28	– –	– – – – –	– – – – –	30.48	no-fit
6	41	– –	– – – – –	– – – – –	30.64	no-fit
7	47	– –	– – – – –	– – – – –	31.29	Tr16-19
8	54	– –	– – – – –	– – – – –	30.76	no-fit
9	45	– –	– – – – –	– – – – –	30.68	no-fit
10	25	– –	– – – – –	– – – – –	30.42	no-fit
11	41	– –	– – – – –	– – – – –	30.72	no-fit
12	132	1.50	21.23 ± 0.62	2.65 ± 0.94	31.08	fitted
13	89	0.40	21.64 ± 0.14	0.67 ± 0.93	30.83	fitted
14	15	– –	– – – – –	– – – – –	30.23	no-fit
15	41	– –	– – – – –	– – – – –	30.65	no-fit
16	23	– –	– – – – –	– – – – –	30.40	no-fit
17	28	– –	– – – – –	– – – – –	30.48	no-fit
18	31	0.80	22.32 ± 0.32	1.36 ± 0.88	31.04	fitted
19	7	– –	– – – – –	– – – – –	29.93	no-fit
20	30	– –	– – – – –	– – – – –	30.51	no-fit
21	25	1.21	21.97 ± 0.65	0.29 ± 0.18	30.02	fitted
22	176	0.94	21.81 ± 0.22	3.32 ± 1.45	31.46	fitted
23	25	– –	– – – – –	– – – – –	30.43	no-fit
24	22	– –	– – – – –	– – – – –	30.38	no-fit
25	177	1.87	22.00 ± 0.18	2.17 ± 0.74	31.52	fitted
26	44	0.90	21.70 ± 0.27	1.49 ± 0.54	30.38	fitted
27	51	0.50	22.06 ± 0.32	2.11 ± 1.27	31.03	fitted
28	77	0.47	21.28 ± 0.72	1.49 ± 0.44	30.83	fitted
29	36	– –	– – – – –	– – – – –	30.59	no-fit
30	12	– –	– – – – –	– – – – –	30.12	no-fit

Notes: last column flag: sources with no spectral information (NO-FIT) have their X-ray luminosities computed by using an average count-rate to L_x conversion factor (see Sect. 7). "HARD TAIL" flag refers to the need of more components in the spectral models. Spectral fit parameters for OB-type stars are not listed here as they are presented in Table 4.

and [500−**]. Spectral fitting of background-subtracted spectra was performed with XSPEC v12.0 (Arnaud 2004) and our own shell and TCL scripts to automate the process as described in Flaccomio et al. (2006). Because background-corrected spectra are not appropriately handled by C-statistics (Getman et al. 2005), best-fit parameters for the chosen models were computed by chi-squared (χ^2) minimization.

We fit our spectra by assuming emission by a thermal plasma, in collisional ionization equilibrium, as modeled by the APEC code (Smith et al. 2001). Elemental abundances are not easily constrained with low-statistics spectra and were fixed at $Z = 0.3\ Z_\odot$, with solar abundance ratios taken from Anders & Grevesse (1989). The choice of sub-solar abundances is suggested by several X-ray studies of star-forming regions (e.g. Feigelson et al. 2002; Preibisch 2003). Absorption was accounted for using the WABS model, parameterized by the hydrogen column density, N_H (Morrison & McCammon 1983a). In Table 3 we give best-fit parameters (χ^2_ν, N_H, kT and L_x) of the sources.

Except for 28 massive O- and early B-type stars, we fit source spectra with one-temperature ($1T$) plasma models using an automated procedure. To reduce the risk of finding a local minimum in the χ^2 spaces, our procedure chooses the best fit among several obtained starting from a grid of initial values of the model parameters: log (N_H) = 21.0, 21.7, 22.0, 22.4, 22.7 and 23.0 cm^{-2} and kT = 0.5, 0.75, 1.0, 2.0, 5.0 keV. The best-fit values of log (N_H) < 20.3 cm^{-2} were truncated at 20.3 for two cases (sources #150 and #944) because, in the 0.5−8.0 keV energy range, ACIS spectra are insensitive to lower column densities. In a similar way, above 10 keV *Chandra* is not able to distinguish between such high temperatures. Therefore, 74 best-fit values of kT above 8 keV were truncated to that value. They are indicated with a flag HARD-TAIL in Table 3.

Figure 7 shows the distribution of best-fit log (N_H) values for the 563 fitted sources. They appear to be normally distributed with a median log $N_H \sim 21.73$ ($N_H = 5.37 \times 10^{21}$ cm^{-2}) and an *FWHM* of ∼0.4 dex. The log-normal distribution of the sources is indicated with the Gaussian curve[24]. The computed median of N_H (∼5.37×10^{21} cm^{-2}) is converted to a median $A_v = 3.35$ by use of the Vuong et al. (2003) relation: $N_H/A_v = 1.6 \times 10^{21}$ atoms cm^{-2} mag^{-1}. We also tested the relation $A_v = 0.56\ N_H + 0.23$ [N_H in 10^{21}] (Predehl & Schmitt 1995), for which the median A_v is 3.23 mag. Both of these values are in good agreement with the median $A_v = 3.6$ mag computed from our near-IR analysis (see Sect. 4.3). The 1σ dispersion of the N_H distribution is 0.4 dex. It is translated into typical a A_v range between 1.3 to 6.7 mag of visual extinction. The X-ray sources without near-IR counterparts seem to be distributed towards higher absorption values (median log (N_H) ∼ 21.9 cm^{-2}) with respect to those with near-IR counterparts. Unfortunately, they generally have poor X-ray photon statistics and consequently a less reliable estimation of their X-ray spectral parameters.

Unlike the N_H distribution, the kT distribution of plasma temperatures is not log-normal. It peaks at ∼1.6 keV, has a median ∼1.95 keV, and shows an extended hard tail attributed both to variable sources (log $P_{KS} < -3$) with harder spectra (median $kT = 3.25$ keV, as expected from coronal heating processes involved in flare-like activity) and to highly absorbed sources (i.e. $A_v \geq 6$ mag) showing a median $kT \sim 2.6$ keV (while those in the range $1 \leq A_v \leq 6$ mag are softer and distributed with a median $kT = 1.75$ keV).

Finally, suspected *single* massive stars show typically soft spectra with median $kT = 0.62$ keV, while for known massive binaries, this value rises to $kT = 2.1$ keV, no doubt due to hard X-ray photons being produced in the colliding wind region (CWR) of the massive O+OB binaries. Details of X-ray spectral characteristics of massive stars in the region are presented in Sect. 8.

7. X-ray luminosity of stars

Unabsorbed X-ray luminosities were computed for those sources with available spectral fits for the [0.5−8.0] keV energy range. For sources with no available and/or reliable spectral fit (119+353 out of 1035) L_x were computed using a single count rate to L_X conversion factor (CF)[25]. CF in Trumpler 16 is $8.3^{10.3}_{5.2} \times 10^{33}$ erg/ph. Upper and lower values correspond to ± 1σ uncertainties, respectively.

In Fig. 8 we show the X-ray luminosity distribution for low-mass[26] stars, while known OB stars are plotted separately in

[24] Seven sources (#150, #305, #342, #388, #692, #868 and #944) appear to have N_H below 10^{21} cm^{-2}, and are likely foreground stars.

[25] It was computed as the median ratio between the individual unabsorbed X-ray luminosities (from best-fit spectral models) and the source count rates.

[26] We defined the low-mass range $M < 7\ M_\odot$, based on the presence of a significant convection envelope (at the adopted age) that explains X-ray emission from magnetic activity.

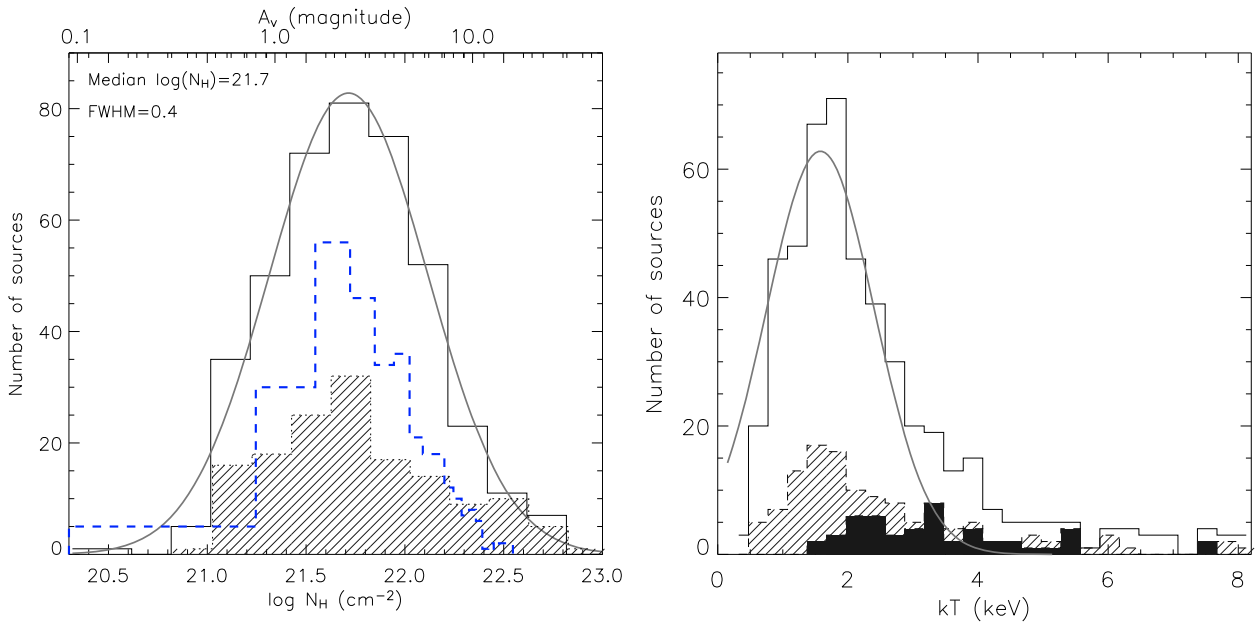

Fig. 7. *Left*: the solid histogram shows the $N_{\rm H}$ ($A_{\rm v}^{\rm xspec}$) distribution of 415 spectral fitted sources with 2MASS counterparts. The upper scale was converted using an $N_{\rm H}/A_{\rm v}$ ratio of 1.6×10^{21}. The thick dashed histogram shows the $A_{\rm v}^{\rm near-IR}$ mag distribution for all near-IR counterparts as was computed in Sect. 4. Both distributions peak at $A_{\rm v}^{\rm xspec} = 3.35$ ($1\sigma = 0.4$) mag and $A_{\rm v}^{\rm near-IR} = 3.26$ mag ($1\sigma = 0.3$ dex). The shadowed histogram shows the $N_{\rm H}$ distribution of 148 sources with no near-IR counterpart. *Right*: same as the *left panel* for plasma temperatures (kT) with, in addition, the distribution for "flaring" sources (black-filled histogram). The peak of the overal distribution is at ~1.6 keV.

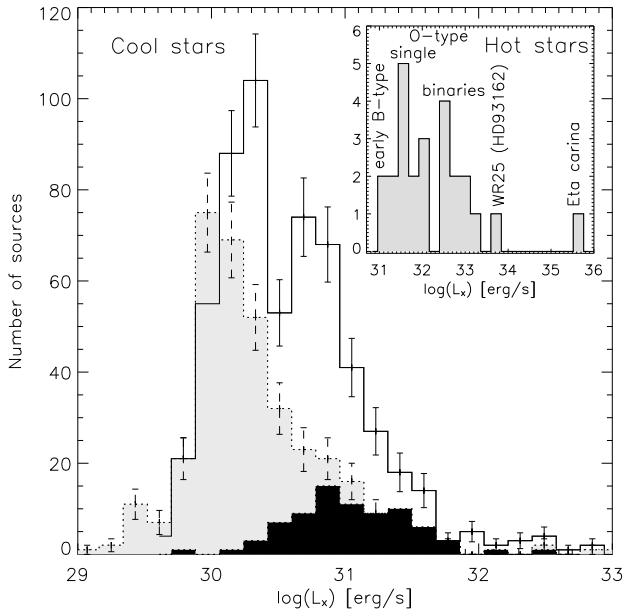

Fig. 8. The X-ray luminosity distribution for 592 low-mass stars computed from a single $L_{\rm x}$ count-rate conversion factor is shown as a *solid line*. The *grey filled* histogram shows the $L_{\rm x}$ distribution for 354 X-ray sources without near-IR counterpart. The 77 variable sources are shown with the *black-filled* histogram. *Upper-right inset* (Hot stars) shows the unabsorbed $L_{\rm x}$ from X-ray spectral fits (see Sect. 8). Error bars are 1σ Poisson errors.

the upper inset histogram. The $L_{\rm x}$ distribution of sources has been plotted separately for (*i*) 592 X-ray sources with near-IR counterpart, not including 28 OB stars and variable sources with a median $\log(L_{\rm x}) \sim 30.5$ erg s^{-1}. The peak of the distribution indeed marks the completeness limit of our X-ray observation. (*ii*) There are 354 unidentified sources, except for variable ones, which appear systematically less luminous than those with a 2MASS counterpart, with median $\log(L_{\rm x}) \sim 30.2$ erg s^{-1}. (*iii*) Seventy seven variable sources, showing a median $\log(L_{\rm x}) \sim 31.1$ erg s^{-1}, i.e. about 4 times higher than the observed $L_{\rm x}$ for similar stars in a quiescent (non-flaring) phase. The upper inset in Fig. 8 shows the unabsorbed $L_{\rm x}$ for 28 massive stars (including 13 binary systems) in the region. By the following results and discussion presented in Sect. 8, binaries appear with typical $L_{\rm x}$ over 10^{+32} erg s^{-1}, higher than observed for those suspected single B-type stars. As we discuss in Sect. 8, massive binaries have typical X-ray luminosities $L_{\rm x} \geq 10^{+32}$ erg s^{-1}, higher than those of single OB stars.

We examined how X-ray activity depends on stellar mass for Trumpler 16 low-mass stars, and compares the results with those already known for the ONC and Cyg OB2 SFRs. To increase statistics, we used $L_{\rm x}$ values computed by means of the average CF. While $L_{\rm x}$ and mass for Cyg OB2 stars were computed following the same procedures used here (Albacete Colombo et al. 2007), for ONC stars they have been computed differently in the literature[27]. For the sake of homogeneity, we recomputed $L_{\rm x}$ and masses of ONC stars by using a single count rate to $L_{\rm x}$ conversion factor ($\rm CF_{onc} = 7.52 \times 10^{+32}$ erg/ph) and 2MASS photometry, respectively.

In Fig. 9 we show a plot of $L_{\rm x}$ vs. star mass. We used circles for all 510 Tr16 sources with estimated masses. Filled (329) and open (181) circles indicate $L_{\rm x}$ values computed from spectral fits and using the CF, respectively. We performed a linear regression for all sources in the 0.7–2.5 $M_{\odot}$ range: $\log(L_{\rm x}) = 30.26(\pm0.11) + 1.0(\pm0.09)\log(M/M_{\odot})$ with a standard deviation in the residuals of 0.38 dex. The power-law slope we find here agrees with the one found by Albacete Colombo et al. (2007) for the Cyg OB2 region: $\log(L_{\rm x}) = 30.33(\pm0.16) + 0.71(\pm0.13)\log(M/M_{\odot})$ for masses in the 0.5–3.0 $M_{\odot}$ range.

[27] In the ONC, stellar masses were computed from optical spectra, available for many stars, while $L_{\rm x}$ was obtained for many stars from an X-ray spectral analysis based on a relatively high photon statistics (Getman et al. 2005).

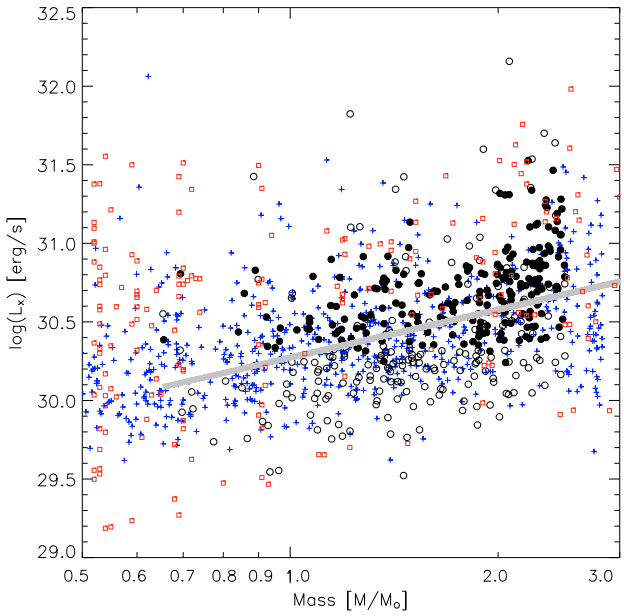

Fig. 9. X-ray luminosity vs. stellar mass for stars in the near-IR sample with masses determined from the PMS models of Siess et al. (2000). Tr16 stars are plotted by open and filled circles, corresponding to L_x from CF and spectral fits, respectively. Crosses indicate Cyg OB2 sources (Albacete Colombo et al. 2007), while small boxes are ONC sources (Preibisch et al. 2005). The thick gray line shows the linear regression fit to the Tr16 low-mass (0.7−2.5 $M_\odot$) stars.

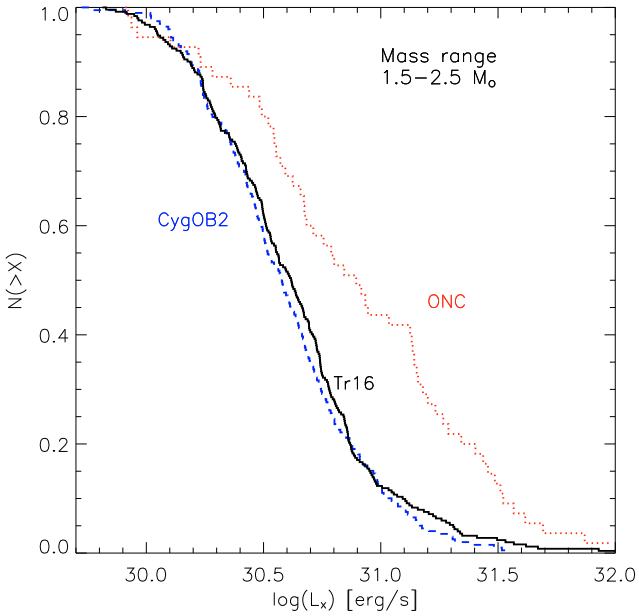

Fig. 10. Cumulative distributions of X-ray luminosities for Trumpler 16 low-mass stars with masses $1.5 \leq M/M_\odot \leq 2.5$ (thick solid line). Dotted and dashed lines represent the L_x cumulative distributions for ONC and CygOB2, respectively, in the same mass range.

This slope also agrees with what we find for the ONC stars in the mass range 0.5−3.0 $M_\odot$, namely 0.82 ± 0.09.

Changes in the X-ray activity of stars with different ages of the SFRs has been previously reported by Preibisch & Feigelson (2005). To address this issue, we computed L_x detection limits for low-mass stars in the Tr16 (3 Myr), CygOB2 (2 Myr), and ONC (1 Myr) observations, as $\log(L_x) \sim 30.5$, 30.3 and 28.5 erg s^{-1}, respectively, above which a source is detectable anywhere in the FOV. A mass-dependent completeness fraction (f_{comp}) for our survey of Trumpler 16 stars was then computed by adopting the X-ray luminosity functions given by Preibisch & Feigelson (2005): f_{comp} is ∼5% for 0.1−0.5 $M_\odot$, ∼40% for 0.5−0.9 $M_\odot$, and ∼55% in the 0.9−1.2 $M_\odot$ range. Our survey of Tr 16 is statistically complete for masses ≥1.5 $M_\odot$. In Fig. 10 we present L_x cumulative distributions for Trumpler 16, Cyg OB2, and ONC stars in the mass range 1.5−2.5 $M_\odot$ where all three data sets are complete. While Trumpler 16 and Cyg OB2 show very similar distributions, the ONC looks quite different from to Tr16. The distance between two distributions ($D = 0.31$) was computed using a two-sample Kolmogorov-Smirnov test (Press et al. 1992). We are able to confirm, with a probability ≥99.9% ($\log(P_{ks}) = -4.15$), that young ONC (1 Myr) stars, with masses in the range 1.5−2.5 $M_\odot$, are intrinsically more luminous in X-rays than their Tr16 (3 Myr) counterparts.

8. X-rays from massive stars

A variety of different physical mechanisms are responsible for the observed X-ray emission in OB-type stars. The most widely accepted explanation invokes multiple small-scale shocks in the inner layers of their radiation-driven stellar winds (e.g. Feldmeier et al. 1997). In recent years has gained importance a plasma heating model known as *magnetically channeled wind shock* (MCWS) (Schulz et al. 2003; Owocki et al. 2005; Gagné et al. 2005b). Moreover, WR+OB and/or O+OB *interacting wind binary systems* produce an excess of X-ray emission from the CWR (Stevens et al. 1992; Zhekov & Skinner 2000; Pittard & Stevens 2002).

Given the relatively large number of massive OB-type stars in the region, it is most relevant to show in Table 4 most appropiate stellar parameters of the massive stars (L_{bol}, $\dot{M}$, and L_{wind} computed as $\frac{1}{2}\dot{M}v_\infty^2$)[28]. We computed L_x by means of an absorbed (WABS) thermal plasma model (APEC). Metal abundance was fixed at $Z = 0.3\ Z_\odot$ in fitting faint sources (<100 ph.), while it was left as a free parameter for the remaining cases (see Table 4). In Fig. 11 we show the L_x/L_{bol} relation. In spite of the observed scatter, one sees that the median L_x/L_{bol} for binaries is about 7 times larger ($\sim 8.3 \times 10^{-7}$) than that of suspected single stars ($\sim 1.1 \times 10^{-7}$)[29]. Four of the 13 known binaries in the analysis are well-separated systems: the LBV η Carinae, a probable long period binary with $P \sim 2026 \pm 2$ days (Daminelli et al. 2007), the Wolf-Rayet star WR25 (HD 93162), a 208-days period binary system (Gamen et al. 2006), and HDE 303308, resolved as a binary system with a component separation of about ∼38 AU projected along the fine guidance sensor (FGS) y-axis[30]. The stars Tr16 #9 (O9.5 V+?) and Tr16 #23 (O7 V+?) show photometric variability probably related to a secondary component (Nelan et al. 2004), we also consider them to be binaries.

Besides the several works (e.g. Seward et al. 1979; Seward & Chlebowski 1982; Corcoran et al. 1995; Albacete Colombo et al. 2003; Evans et al. 2003, 2004; Sanchawala et al. 2007) about the origin of the observed X-ray emission on massive stars of this region, this goal is far beyond the scope of our paper and so extensively discussed here.

[28] Adopted values were taken from Smith (2006, Table 1).

[29] Because of observed flare-like variability in Tr16-#5 and #11, we suspect that most of X-rays emission comes from a low-mass companion, and therefore we have discarded these sources in computing the median L_x.

[30] It was unresolved along the FGS x-axis down to 20 AU, suggesting an eccentric orbit.

Table 4. Stellar parameters and X-ray spectral results for massive stars.

N_x	Name	Stellar parameters				X-ray spectral parameters						Notes
#		spectral type	L_{bol} [$L_\odot$]	$\dot{M}$ [$M_\odot$/yr]	L_w [$L_\odot$]	χ^2_ν/d.o.f.	N_H [10^{22}] cm^{-2}	Abund. [$Z_\odot$]	kT_1 [keV]	kT_2 [keV]	L_X [erg/s]	
7	Tr16-19	O9.5V	47 863	0.150	33.00	1.01/28	0.55 ± 0.25	(1.0)	0.63 ± 0.17	− − − − −	$1.95^{2.2}_{0.9}10^{31}$	
52	Tr16-124	B1V	23 442	0.08	8.800	0.98/28	0.75 ± 0.33	0.18	0.49 ± 0.28	2.27 ± 1.26	$4.13^{4.2}_{1.4}10^{31}$	
74	HD93162	WN6ha	1 659 586	10.5	5140	1.9/240	0.63 ± 0.03	0.54	0.71 ± 0.01	2.66 ± 0.06	$5.23^{5.32}_{5.17}10^{33}$	fl-6.7 keV
89	Tr16-244	O4If	851 138	10.0	7060	0.95/54	1.50 ± 0.11	0.53	0.43 ± 0.06	1.09 ± 0.31	$1.01^{1.04}_{0.53}10^{33}$	em-lines
136	Tr16-11	B1.5V	19 055	0.06	4.400	1.02/17	0.79 ± 0.23	(1.0)	0.42 ± 0.24	3.05 ± 1.48	$4.05^{5.05}_{1.58}10^{31}$	variable
207	Tr16-10	B0V	37 154	0.120	22.00	0.90/19	0.35 ± 0.31	(1.0)	0.59 ± 0.13	2.85 ± 1.50	$1.88^{1.93}_{0.96}10^{31}$	
228	HD93204	O5V((f))	309 029	1.30	780.0	1.08/33	0.21 ± 0.07	0.42	0.50 ± 0.06	− − − − −	$6.15^{9.96}_{1.55}10^{31}$	
242	HD93205A	O3.5V((f))	575 440	2.50	1870	2.12/74	0.66 ± 0.04	1.2	0.26 ± 0.02	1.73 ± 0.60	$1.89^{2.26}_{1.06}10^{33}$	(A), primary, CW
242	HD93205B	O8V	91 201	0.260	91.00	″	″	″	″	″	″	(B), secondary, CW
281	Tr16-21	O8V	91 201	0.260	91.00	1.09/14	0.66 ± 0.31	(1.9)	0.33 ± 0.18	− − − − −	$2.92^{3.41}_{0.09}10^{31}$	
286	Tr16-14	B0.5V	29 512	0.100	17.00	− − − − −	− − − − −	− − − − −	− − − − −	− − − − −	− − − − −	not fitted
352	CPD-592600	O6V((f))	208 929	0.800	410.0	1.07/45	0.54 ± 0.12	1.0	0.29 ± 0.05	0.78 ± 0.11	$3.12^{3.70}_{1.76}10^{32}$	
407	CPD-592603A	O7V((f))	138 038	0.400	170.0	1.08/23	0.58 ± 0.14	(1.0)	0.31 ± 0.07	− − − − −	$1.29^{1.79}_{0.87}10^{32}$	(A), primary
407	CPD-592603B	O9.5V	47 863	0.150	33.00	″	″	″	″	″	″	(B), secondary
407	CPD-592603C	B0.2V	37 153	0.120	22.00	″	″	″	″	″	″	(C), open
489	Tr16-5	B1V	23 442	0.08	8.800	1.13/18	0.23 ± 0.09	(1.0)	2.87 ± 0.88	− − − − −	$1.26^{1.43}_{1.08}10^{31}$	variable
649	η Carinae-MS	O2If	3 715 354	8.32	6780	3.75/342	7.39 ± 0.39	4.25	0.27 ± 0.32	7.16 ± 3.6	$4.02^{8.5}_{0.6}10^{35}$	(A), fl-6.7 keV
649	η Carinae-B	O5V	309 029	1.30	780.0	″	″	″	″	″	″	(B), CW, variable
687	Tr16-23	O7V	138 038	0.400	170.0	0.78/23	0.60 ± 0.09	(1.0)	0.46 ± 0.07	− − − − −	$5.53^{6.51}_{4.34}10^{31}$	
688	Tr16-9	O9.5V	47 863	0.150	33.00	1.02/13	0.48 ± 0.29	(1.0)	0.30 ± 0.16	1.0 ± 0.23	$3.78^{4.20}_{1.40}10^{31}$	
689	HDE303308	O4V((f))	467 735	2.00	1410	1.80/49	0.54 ± 0.05	(1.0)	0.25 ± 0.03	0.52 ± 0.09	$6.16^{7.87}_{6.10}10^{32}$	em-lines
707	Tr16-3	O8.5V	72 443	0.220	67.00	0.74/16	0.25 ± 0.15	(1.0)	0.33 ± 0.15	− − − − −	$1.10^{1.27}_{0.19}10^{31}$	
729	CPD-592628A	O9.5V	47 862	0.150	33.00	1.08/17	0.93 ± 0.79	(1.0)	0.11 ± 0.17	0.96 ± 0.74	$3.11^{6.05}_{1.79}10^{32}$	(A) primary
729	CPD-592628B	B0.3V	37 153	0.120	22.00	″	″	″	″	″	″	(B) secondary
730	Tr16-22	O8.5V	72 443	0.220	67.00	1.3/64	1.07 ± 0.10	(1.9)	0.35 ± 0.07	1.86 ± 0.12	$7.71^{9.34}_{7.06}10^{32}$	prob. binary
759	Tr16-74	B1V	23 442	0.0800	8.800	− − − − −	− − − − −	− − − − −	− − − − −	− − − − −	− − − − −	not fitted
803	HD93343	O7V(n)	138 038	0.400	170.0	0.93/32	0.78 ± 0.09	(1.0)	0.28 ± 0.03	>4.0	$2.96^{3.92}_{2.63}10^{32}$	em-lines
807	Tr16-76	B2V	15 488	0.05	2.200	− − − − −	− − − − −	− − − − −	− − − − −	− − − − −	− − − − −	not fitted
808	CPD-592635A	O8V	91 201	0.260	91.00	0.88/28	0.58 ± 0.12	(1.0)	0.28 ± 0.03	0.90 ± 0.17	$1.40^{1.86}_{1.09}10^{32}$	(A), SB2
808	CPD-592635B	O9.5V	47 862	0.150	33.00	″	″	″	″	″	″	(B) SB2
812	CPD-592636A	O7V	138 038	0.400	170.0	1.05/33	0.74 ± 0.09	(1.0)	0.25 ± 0.04	0.87 ± 0.12	$3.56^{4.66}_{2.28}10^{32}$	(A), (SB2), em-lines
812	CPD-592636B	O8V	91 201	0.260	91.00	″	″	″	″	″	″	(B), SB2
812	CPD-592636C	O9V	58 884	0.180	47.00	″	″	″	″	″	″	(C), SB1
854	CPD-592641	O5V	309 029	1.30	780.0	0.87/36	0.87 ± 0.08	(1.0)	0.25 ± 0.07	0.56 ± 0.11	$5.48^{7.63}_{3.55}10^{32}$	em-lines
888	Tr16-115	O8.5V	72 443	0.220	67.00	1.01/10	0.54 ± 0.32	(1.0)	0.28 ± 0.18	0.54 ± 0.32	$3.06^{3.34}_{0.87}10^{31}$	
997	FO15A	05.5V((f))	309 029	1.30	780.0	0.83/29	1.15 ± 0.15	(1.0)	0.75 ± 0.10	>7.5	$1.05^{1.31}_{0.82}10^{32}$	(A), SB2, em-lines
997	FO15B	08.5V	91 201	0.260	91.00	″	″	″	″	″	″	(B), SB2

Notes: *"em-lines"* reefers to stars with emission lines in their optical spectra. *"CW"* notes those binaries with a colliding wind region. *"Open"* reefers to those long period binaries, i.e. with well-separated components. Components (A)−(C) refer to system components sorted according to mass decrease.

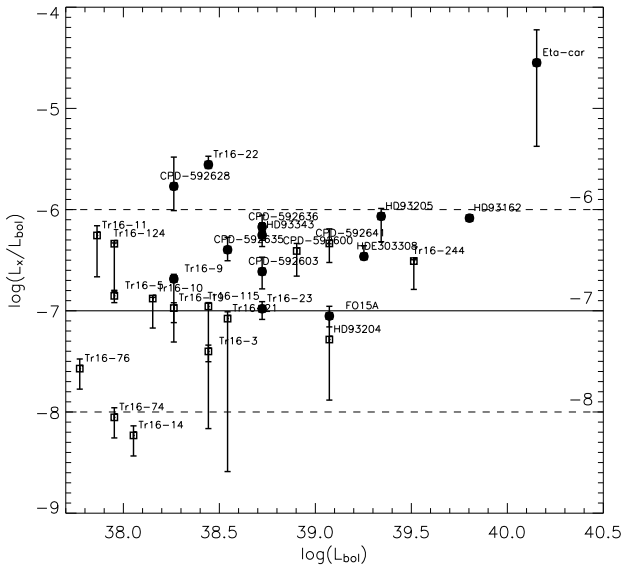

Fig. 11. Log (L_x/L_{bol}) versus log (L_{bol}) relation for massive stars in Tr16. *Open boxes* refer to suspected single stars and *filled circles* to known binaries. Notes: *i*– because of flare-like variability (see Sect. 5.1) observed in Tr16-#5 (B1.5V) and Tr16-#11 (B1V), their X-ray emission is probably dominated by a unknown lowmass star companion. *ii*– The star Tr16-#22 (O8.5V+?) has the highest log (L_x/L_{bol}) ratio (∼−5.56) among all MS OB-type stars of the region.

9. Summary and conclusion

We report here results of a deep *Chandra* X-ray observation pointed toward the ∼3 Myr old star-forming region Trumpler 16. Source detection was performed using the PWDdetect code, identifying 1035 X-ray sources in the 17′ × 17′ ACIS-I FOV. Most of these seem to be outside the obscured V-shaped region of dust and gas. Star formation in this part of the masked region has probably been disrupted and/or diminished as the stellar winds are blocked inside the cloud, due to the efficiency of the photo-evaporation processes caused by interactions of the nearby hot massive stars with the dense dust and gas structures.

Data extraction was performed using the semi-automated IDL-based ACIS EXTRACT package, which is well-suited to the analysis of observations of crowded fields such as ours.

The X-ray source list was cross-identified with optical and near-IR (2MASS) catalogs: 28 X-ray sources (of 44 within the FOV) were identified with optically characterized OB members of Trumpler 16 and 760 with 2MASS sources. Among these sources, almost all are believed to be Trumpler 16 members. About 90 X-ray sources without optical/NIR counterparts are estimated to have of extragalactic nature (AGNs), while the remaining X-ray sources with no counterpart are likely to be associated with members that are fainter than the 2MASS completeness limit.

To characterize the previously unidentified likely cluster members with NIR counterparts, we placed them on NIR color–magnitude (K_s vs. $H - K_s$) and color–color ($H - K_s$ vs. $J - H$) diagrams. A first estimate of interstellar extinction was obtained by adopting a 3 Myr isochrone for the low- and intermediate-mass stars and assuming that O- and early B-type stars lie on the MS. We find a median visual absorption for OB stars of $A_v \sim 2.0$ mag, while low mass likely members seem to be slightly more absorbed, $A_v \sim 3.6$ mag. We also use the 3 Myr isochrone and the J magnitude to estimate masses of likely members assuming that they share the same distance and absorption. Our sample of X-ray selected members with near-IR counterparts reaches down to $M = 0.5$–$0.6\ M_\odot$, and is very likely complete down to ∼1.5 $M_\odot$. From the $H - K_s$ vs. $J - H$ diagram we estimate that ∼15% (51/339) of low-mass stars have NIR excesses, finding it to be quite a high percentage with respect to the 2 Myr old Cyg OB2. We believe that the disk fraction in young SFRs is more dependent on the spatial morphology of gas and dust around massive stars, which may enhance photo-evaporation, and thus shorten disk lifetimes, than on the total number of massive stars in the region.

At least 77 sources, i.e. ∼7.4%, were found to be variable within our observation with a confidence level greater than 99.9%. Only three of the 28 detected O- and early B-type stars were detected as variable during our 90-ks observation, in spite of the high statistics of the OB stars' light curves. These exceptions are the known binary O3.5V+O8V star HD 93205 (our source #242), showing a rather linear decay of the count rate during the observation plus a short-term variability, the B1.5 V star Tr16-11 (source #136), and the B1V star Tr16-5 (source #489). The last two show a flare-like variability probably related to unresolved low-mass companions.

We modeled the ACIS X-ray spectra of sources with more than 20 photons and $f_{cont} < 1$. We assumed an absorbed single-component thermal emission model. The median log (N_H) of the sources is 21.73 (cm^{-2}). This value agrees well with the median A_v computed from the near-IR diagram. The median kT of low-mass stars is 2.6 keV. Sources associated with O- and early B-type stars are instead quite soft (median kT: 0.60 keV). Absorption-corrected X-ray luminosities of OB stars were calculated from the best-fit spectral models. O and B-type stars are the most luminous, with $L_x = 2.5 \times 10^{30}$–6.3×10^{33} erg s^{-1}. Their X-ray and bolometric luminosities roughly agree with the relation $L_x/L_{bol} = 10^{-7}$, albeit with an order of magnitude dispersion. Low-mass stars have L_x ranging between 10^{30} and 10^{31} erg s^{-1} (median $L_x = 2.8 \times 10^{30}$). Variable low mass stars are on average 0.5 dex brighter (log (L_x) ∼ 31.0 erg s^{-1}). These X-ray luminosities are consistent with those of similar mass stars in the slightly younger (2 Myr) Cyg OB2 region. However, in the mass range 1.5–2.5 $M_\odot$, the ONC (1 Myr) shows a higher X-ray activity level than observed in Trumpler 16 stars in the same mass range. We believe that the age-L_x activity connection is an acceptable explanation of this result.

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Table 1. Trumpler 16source catalog.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
1	104338.73-593832.7	10:43:38.74	–59:38:32.74	0.57	10.24	4.62	1757	0.90	30	0.392	0.311	0.081	0.12	0.10	NaN	1.28	–0.38	–1
2	104341.39-594538.8	10:43:41.39	–59:45:38.81	0.53	8.56	6.03	1024	0.90	36	0.458	0.372	0.086	0.08	0.10	0.58	1.22	–0.16	–1
3	104341.41-594224.5	10:43:41.41	–59:42:24.52	0.28	8.52	16.38	964	0.91	208	2.626	1.533	1.093	0.13	0.17	0.37	1.74	–0.39	–2
4	104341.48-594102.2	10:43:41.49	–59:41: 2.26	0.43	8.86	6.15	997	0.90	55	0.704	0.448	0.256	0.07	0.10	0.38	1.25	–1.31	–2
5	104343.14-594409.0	10:43:43.15	–59:44: 9.02	0.46	8.17	5.88	726	0.90	28	0.361	0.052	0.309	0.23	0.24	NaN	2.31	–0.39	–1
6	104343.98-594655.9	10:43:43.99	–59:46:55.93	0.43	8.60	4.83	843	0.90	41	0.532	0.483	0.049	0.11	0.09	0.55	1.19	–0.76	–4
7	104344.11-594817.9	10:43:44.11	–59:48:17.95	0.46	9.16	5.29	1042	0.90	47	0.602	0.550	0.052	0.08	0.07	0.56	1.01	–1.05	–1
8	104345.36-593948.7	10:43:45.37	–59:39:48.78	0.36	8.89	7.30	731	0.89	54	0.699	0.498	0.201	0.11	0.10	0.31	1.25	–0.34	–2
9	104345.37-593847.5	10:43:45.37	–59:38:47.54	0.40	9.40	5.83	970	0.91	45	0.580	0.227	0.353	0.14	0.11	0.49	1.36	–2.29	–1
10	104345.44-594158.9	10:43:45.44	–59:41:58.95	0.44	8.11	5.31	564	0.90	25	0.321	0.150	0.171	0.14	0.15	0.43	1.63	–0.11	–1
11	104346.39-594929.8	10:43:46.39	–59:49:29.82	0.37	9.55	4.72	474	0.74	41	0.634	0.550	0.084	0.11	0.10	0.35	1.22	–0.74	–1
12	104348.15-594924.4	10:43:48.15	–59:49:24.41	0.29	9.32	12.27	927	0.91	132	1.677	1.276	0.402	0.12	0.10	0.35	1.28	–1.24	–2
13	104349.40-594456.3	10:43:49.41	–59:44:56.36	0.28	7.45	13.68	418	0.90	89	1.138	1.118	0.020	0.06	0.06	0.56	0.98	–0.96	–3
14	104350.13-594552.6	10:43:50.14	–59:45:52.69	0.47	7.54	5.11	427	0.90	15	0.203	0.248	0.044	0.08	0.07	NaN	1.01	–0.36	–1
15	104350.71-593744.4	10:43:50.71	–59:37:44.45	0.42	9.49	5.21	905	0.89	41	0.539	0.414	0.125	0.12	0.11	0.47	1.33	–0.78	–4
16	104350.89-595031.2	10:43:50.90	–59:50:31.25	0.39	9.76	5.26	1073	0.90	23	0.302	0.164	0.138	0.16	0.09	0.68	1.15	–2.67	–4
17	104351.09-594024.6	10:43:51.10	–59:40:24.67	0.38	7.97	5.42	479	0.89	28	0.361	0.239	0.122	0.11	0.09	0.36	1.20	–0.31	–1
18	104351.64-594525.1	10:43:51.64	–59:45:25.10	0.40	7.25	7.05	376	0.90	31	0.400	0.253	0.147	0.14	0.16	0.39	1.72	–3.15	–2
19	104351.87-594035.6	10:43:51.88	–59:40:35.60	0.43	7.81	5.87	443	0.89	7	0.102	0.102	0.001	0.13	0.09	NaN	1.21	–0.34	–2
20	104352.13-594802.0	10:43:52.13	–59:48: 2.00	0.40	8.15	5.23	528	0.90	30	0.388	0.239	0.149	0.12	0.09	0.37	1.16	–0.46	–4
21	104352.25-594157.6	10:43:52.25	–59:41:57.68	0.39	7.28	5.31	357	0.89	25	0.325	0.301	0.023	0.07	0.08	0.93	1.07	–0.16	–4
22	104352.48-593920.9	10:43:52.48	–59:39:20.96	0.23	8.35	19.14	592	0.90	176	2.250	1.401	0.849	0.13	0.16	0.39	1.70	–0.50	–2
23	104354.13-594145.2	10:43:54.14	–59:41:45.24	0.37	7.11	4.81	357	0.90	25	0.325	0.101	0.224	0.09	0.15	0.38	1.63	–0.17	–1
24	104354.20-593805.2	10:43:54.21	–59:38: 5.24	0.41	8.93	5.21	737	0.89	22	0.290	0.196	0.094	0.15	0.12	0.72	1.43	–0.52	–1
25	104355.11-593624.2	10:43:55.11	–59:36:24.23	0.30	10.04	13.22	1205	0.90	177	2.246	1.378	0.869	0.13	0.15	0.37	1.59	–4.00	–2
26	104355.14-594750.4	10:43:55.14	–59:47:50.42	0.35	7.72	7.89	451	0.90	44	0.567	0.470	0.097	0.07	0.08	0.50	1.07	–1.07	–3
27	104355.47-594253.5	10:43:55.48	–59:42:53.59	0.29	6.69	13.04	278	0.89	51	0.664	0.357	0.306	0.14	0.17	0.53	1.74	–3.51	–2
28	104355.56-594923.0	10:43:55.57	–59:49:23.07	0.30	8.57	8.43	629	0.90	77	0.989	0.807	0.182	0.09	0.08	0.35	1.13	–0.50	–2
29	104356.25-594936.4	10:43:56.25	–59:49:36.48	0.33	8.65	5.36	648	0.89	36	0.471	0.335	0.136	0.14	0.09	0.39	1.21	–0.41	–1
30	104356.82-594236.0	10:43:56.82	–59:42:36.03	0.46	6.57	4.90	257	0.89	12	0.158	0.139	0.019	0.12	0.12	NaN	1.41	–0.41	–1
31	104357.84-594902.5	10:43:57.85	–59:49: 2.58	0.36	8.13	7.31	525	0.90	37	0.476	0.324	0.152	0.12	0.11	0.68	1.36	–1.41	–2
32	104359.26-594315.5	10:43:59.27	–59:43:15.55	0.40	6.17	5.14	215	0.90	16	0.214	0.130	0.084	0.06	0.11	0.59	1.31	–0.20	–2
33	104359.31-593652.9	10:43:59.31	–59:36:52.93	0.39	9.33	7.97	441	0.74	40	0.625	0.460	0.166	0.13	0.13	0.34	1.49	–0.41	–2
34	104400.39-593640.3	10:44: 0.39	–59:36:40.31	0.42	9.40	5.12	981	0.91	42	0.531	0.430	0.101	0.10	0.10	0.46	1.25	–0.99	–1
35	104400.90-593714.0	10:44: 0.91	–59:37:14.03	0.33	8.93	10.40	748	0.90	63	0.810	0.393	0.417	0.14	0.14	0.46	1.55	–4.00	–2
36	104401.03-594409.7	10:44: 1.04	–59:44: 9.78	0.10	5.91	44.08	193	0.91	416	5.258	1.783	3.476	0.15	0.28	0.43	2.58	–4.00	–2
37	104401.10-593550.0	10:44: 1.11	–59:35:50.08	0.49	10.00	5.89	1409	0.90	58	0.751	0.635	0.117	0.11	0.11	0.47	1.34	–0.24	–3
38	104401.17-594559.5	10:44: 1.17	–59:45:59.55	0.29	6.25	8.98	212	0.90	38	0.483	0.254	0.229	0.10	0.16	0.51	1.73	–0.43	–1
39	104401.59-594458.0	10:44: 1.59	–59:44:58.02	0.29	5.93	8.14	189	0.91	34	0.430	0.341	0.089	0.10	0.11	0.39	1.35	–0.09	–2
40	104402.10-594511.1	10:44: 2.11	–59:45:11.19	0.39	5.91	4.93	183	0.90	11	0.142	0.047	0.095	0.12	0.13	0.42	1.49	–0.06	–1
41	104402.19-593751.1	10:44: 2.20	–59:37:51.19	0.21	8.36	24.30	586	0.90	218	2.790	2.069	0.720	0.09	0.10	0.35	1.26	–4.00	–2
42	104402.46-594826.2	10:44: 2.46	–59:48:26.29	0.32	7.30	7.47	335	0.89	37	0.479	0.295	0.184	0.11	0.12	0.38	1.38	–0.13	–4
43	104402.79-593946.2	10:44: 2.79	–59:39:46.30	0.09	7.03	52.71	300	0.89	688	8.864	7.050	1.815	0.09	0.11	0.41	1.33	–0.68	–3
44	104403.12-594309.1	10:44: 3.12	–59:43: 9.15	0.40	5.70	5.25	172	0.90	9	0.114	0.082	0.032	0.16	0.16	0.48	1.67	–0.25	–4
45	104403.27-594201.2	10:44: 3.27	–59:42: 1.27	0.30	5.94	6.35	185	0.90	28	0.365	0.180	0.185	0.10	0.14	0.35	1.56	–0.19	–1
46	104403.64-593700.2	10:44: 3.64	–59:37: 0.27	0.31	8.88	11.10	729	0.90	89	1.140	0.756	0.383	0.11	0.11	0.39	1.36	–2.60	–1
47	104404.07-594205.1	10:44: 4.07	–59:42: 5.17	0.30	5.82	5.58	74	0.74	18	0.294	0.069	0.226	0.17	0.36	0.46	3.20	–0.37	–1

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
48	104404.12-594414.1	10:44: 4.13	–59:44:14.16	0.32	5.53	6.25	156	0.90	19	0.244	0.152	0.092	0.13	0.15	0.65	1.64	–0.04	–1
49	104405.12-593843.8	10:44: 5.12	–59:38:43.81	0.33	7.48	4.90	399	0.90	34	0.435	0.357	0.078	0.08	0.08	0.63	1.09	–1.40	–1
50	104405.28-594543.7	10:44: 5.29	–59:45:43.77	0.29	5.67	6.21	158	0.90	27	0.344	0.265	0.079	0.05	0.06	0.33	0.97	–1.92	–4
51	104405.74-594353.3	10:44: 5.74	–59:43:53.31	0.34	5.32	4.93	137	0.90	13	0.169	0.121	0.048	0.07	0.09	0.51	1.17	–0.48	–1
52	104405.91-593512.7	10:44: 5.91	–59:35:12.79	0.45	10.18	9.51	1632	0.90	156	1.992	1.620	0.372	0.10	0.12	0.47	1.41	–0.27	–4
53	104405.96-593909.2	10:44: 5.96	–59:39: 9.25	0.38	7.11	5.10	310	0.90	16	0.206	0.173	0.034	0.13	0.09	0.28	1.15	–0.11	–1
54	104406.02-594648.6	10:44: 6.02	–59:46:48.66	0.36	6.03	6.78	183	0.90	11	0.153	0.075	0.078	0.13	0.13	0.48	1.48	–0.42	–2
55	104406.46-594101.4	10:44: 6.47	–59:41: 1.46	0.33	5.97	4.77	179	0.90	12	0.153	0.153	0.000	0.07	0.08	NaN	1.09	–0.26	–4
56	104406.89-593611.5	10:44: 6.89	–59:36:11.53	0.30	9.29	15.06	879	0.90	129	1.643	1.153	0.490	0.10	0.12	0.40	1.43	–0.00	–1
57	104406.94-594147.1	10:44: 6.95	–59:41:47.18	0.28	5.58	8.86	149	0.91	27	0.348	0.208	0.140	0.15	0.17	0.38	1.74	–0.93	–2
58	104407.42-594846.2	10:44: 7.42	–59:48:46.26	0.25	7.05	9.42	296	0.89	69	0.893	0.770	0.124	0.08	0.09	0.37	1.15	–0.14	–2
59	104407.64-594130.4	10:44: 7.64	–59:41:30.48	0.45	5.62	4.92	136	0.89	0	0.012	0.028	0.016	0.09	0.09	NaN	1.19	–0.33	–1
60	104407.92-594315.8	10:44: 7.92	–59:43:15.82	0.17	5.08	13.37	107	0.90	66	0.846	0.178	0.668	0.15	0.31	0.44	2.81	–0.95	–2
61	104408.08-594522.7	10:44: 8.08	–59:45:22.72	0.22	5.23	11.36	109	0.89	40	0.521	0.304	0.217	0.13	0.17	0.42	1.77	–0.33	–2
62	104408.20-594037.2	10:44: 8.21	-59:40:37.29	0.23	5.99	9.77	185	0.90	47	0.606	0.453	0.153	0.12	0.12	0.39	1.38	–1.10	–2
63	104408.73-593610.0	10:44: 8.73	–59:36:10.03	0.40	9.18	5.96	405	0.73	31	0.491	0.362	0.129	0.13	0.13	0.45	1.45	–0.51	–1
64	104408.78-593830.2	10:44: 8.79	–59:38:30.22	0.32	7.32	7.04	373	0.90	33	0.429	0.334	0.095	0.12	0.10	0.40	1.25	–2.66	–2
65	104409.09-594539.0	10:44: 9.10	–59:45:39.00	0.20	5.19	14.13	107	0.90	52	0.671	0.481	0.189	0.12	0.15	0.40	1.61	–0.02	–2
66	104409.13-593717.5	10:44: 9.13	–59:37:17.56	0.29	8.23	11.94	562	0.90	83	1.058	0.821	0.237	0.11	0.12	0.41	1.38	–0.42	–3
67	104409.59-595104.1	10:44: 9.59	–59:51: 4.18	0.38	8.64	4.85	648	0.90	15	0.203	0.178	0.025	0.12	0.08	NaN	1.13	–0.06	–1
68	104409.75-594339.6	10:44: 9.76	–59:43:39.62	0.26	4.82	7.70	94	0.89	21	0.272	0.196	0.076	0.08	0.09	0.40	1.15	–0.15	–1
69	104409.83-594448.1	10:44: 9.84	–59:44:48.11	0.21	4.88	12.07	93	0.89	37	0.484	0.398	0.086	0.13	0.13	0.46	1.51	–0.74	–2
70	104410.19-593552.3	10:44:10.20	–59:35:52.35	0.30	9.34	18.40	1060	0.90	191	2.451	1.791	0.660	0.11	0.12	0.37	1.43	–1.90	–2
71	104410.38-594817.6	10:44:10.38	–59:48:17.63	0.11	6.45	41.89	225	0.90	377	4.790	3.827	0.963	0.09	0.11	0.39	1.30	–4.00	–3
72	104410.38-593955.0	10:44:10.39	–59:39:55.00	0.31	6.19	5.09	201	0.90	15	0.193	0.119	0.074	0.10	0.09	0.71	1.19	–0.40	–1
73	104410.41-594352.3	10:44:10.42	–59:43:52.39	0.26	4.73	6.30	89	0.89	22	0.287	0.195	0.092	0.10	0.13	0.44	1.48	–0.93	–2
74	104410.42-594311.0	10:44:10.43	–59:43:11.04	0.01	4.78	385.17	90	0.89	22476	288.953	208.248	80.706	0.11	0.13	0.38	1.49	–0.31	–3
75	104410.71-593524.4	10:44:10.72	–59:35:24.45	0.52	9.71	7.00	1373	0.89	59	0.757	0.419	0.338	0.12	0.15	0.37	1.61	–2.74	–2
76	104410.85-594013.1	10:44:10.86	–59:40:13.15	0.23	5.95	8.60	38	0.57	22	0.453	0.289	0.164	0.10	0.14	0.52	1.53	–0.08	–2
77	104410.88-594020.7	10:44:10.88	–59:40:20.72	0.41	5.87	5.17	74	0.74	4	0.074	0.033	0.041	0.13	0.10	0.46	1.23	–2.87	–3
78	104411.35-594533.6	10:44:11.36	–59:45:33.63	0.35	4.90	5.94	90	0.89	9	0.125	0.093	0.033	0.12	0.14	0.35	1.58	–0.54	–1
79	104411.62-593916.3	10:44:11.63	–59:39:16.39	0.25	6.51	10.93	235	0.90	56	0.727	0.538	0.189	0.11	0.12	0.37	1.38	–0.41	–2
80	104411.88-594223.4	10:44:11.88	–59:42:23.42	0.32	4.79	5.34	99	0.91	9	0.123	0.078	0.045	0.13	0.13	0.30	1.49	–0.65	–3
81	104411.90-594142.9	10:44:11.91	–59:41:42.92	0.28	5.04	5.19	112	0.91	17	0.216	0.152	0.064	0.10	0.12	0.56	1.40	–0.05	–2
82	104411.92-594312.4	10:44:11.92	–59:43:12.50	0.18	4.59	5.92	91	0.91	44	0.557	0.461	0.096	0.10	0.11	0.47	1.32	–0.60	–3
83	104411.92-594414.7	10:44:11.92	–59:44:14.78	0.27	4.55	6.36	89	0.91	17	0.225	0.157	0.067	0.10	0.16	0.35	1.71	–0.01	–2
84	104412.49-594212.3	10:44:12.50	–59:42:12.32	0.25	4.78	6.54	97	0.91	22	0.281	0.130	0.151	0.12	0.20	0.47	1.99	–1.16	–3
85	104412.57-594351.1	10:44:12.57	–59:43:51.10	0.23	4.46	7.16	85	0.91	25	0.324	0.241	0.083	0.10	0.11	0.46	1.30	–0.43	–2
86	104412.87-594418.5	10:44:12.88	–59:44:18.55	0.17	4.44	14.31	82	0.91	51	0.657	0.410	0.246	0.11	0.17	0.31	1.78	–0.63	–2
87	104412.89-594344.6	10:44:12.89	–59:43:44.66	0.09	4.42	29.28	82	0.90	184	2.336	1.174	1.162	0.12	0.18	0.42	1.84	–4.00	–2
88	104412.90-594333.1	10:44:12.91	–59:43:33.19	0.27	4.43	6.18	83	0.90	17	0.220	0.181	0.039	0.11	0.12	0.44	1.42	–0.54	–2
89	104413.24-594310.3	10:44:13.24	–59:43:10.40	0.05	4.43	51.25	81	0.91	689	8.726	7.536	1.190	0.12	0.12	0.34	1.43	–0.86	–3
90	104413.74-594052.8	10:44:13.75	–59:40:52.88	0.30	5.26	4.73	122	0.91	12	0.163	0.061	0.102	0.13	0.13	0.46	1.45	–0.08	–1

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
91	104413.82-594240.1	10:44:13.83	–59:42:40.17	0.31	4.47	5.11	81	0.91	9	0.123	0.077	0.046	0.11	0.16	0.61	1.73	–0.31	–2
92	104413.86-594224.6	10:44:13.86	–59:42:24.68	0.17	4.55	13.46	73	0.89	49	0.637	0.465	0.173	0.10	0.11	0.33	1.36	–0.57	–3
93	104413.91-594129.0	10:44:13.92	–59:41:29.01	0.19	4.92	9.96	89	0.89	40	0.518	0.502	0.016	0.06	0.07	NaN	1.00	–0.05	–3
94	104414.04-594732.0	10:44:14.04	–59:47:32.05	0.44	5.60	6.09	145	0.90	2	0.030	0.009	0.040	0.43	0.06	NaN	0.97	–2.30	–3
95	104414.76-593922.7	10:44:14.77	–59:39:22.76	0.33	6.16	4.63	200	0.90	15	0.203	0.140	0.063	0.08	0.08	0.65	1.12	–1.14	–1
96	104415.10-594446.2	10:44:15.11	–59:44:46.28	0.28	4.23	5.23	60	0.89	12	0.157	0.152	0.005	0.09	0.11	NaN	1.34	–0.24	–3
97	104415.12-593951.6	10:44:15.12	–59:39:51.63	0.25	5.79	9.02	161	0.90	34	0.437	0.278	0.159	0.13	0.14	0.35	1.54	–0.26	–2
98	104415.31-594257.3	10:44:15.31	–59:42:57.39	0.20	4.22	8.37	62	0.90	26	0.337	0.254	0.083	0.10	0.11	0.38	1.33	–0.88	–2
99	104415.39-594225.1	10:44:15.40	–59:42:25.14	0.28	4.36	5.17	66	0.90	11	0.149	0.145	0.004	0.13	0.14	NaN	1.51	–0.67	–3
100	104415.78-593814.8	10:44:15.78	–59:38:14.88	0.33	6.96	4.78	293	0.89	26	0.339	0.244	0.095	0.10	0.10	0.35	1.28	–0.29	–4
101	104415.98-594023.3	10:44:15.99	–59:40:23.34	0.13	5.35	19.42	114	0.89	125	1.614	1.148	0.466	0.12	0.14	0.40	1.54	–0.05	–2
102	104416.26-594420.7	10:44:16.26	–59:44:20.75	0.20	4.01	5.81	55	0.90	25	0.321	0.251	0.070	0.11	0.12	0.31	1.44	–0.16	–1
103	104416.37-594354.6	10:44:16.38	–59:43:54.60	0.14	3.98	13.63	55	0.90	52	0.666	0.069	0.597	0.14	0.35	0.44	3.09	–1.32	–2
104	104416.62-593512.0	10:44:16.63	–59:35:12.08	0.54	9.56	6.78	1294	0.89	51	0.666	0.540	0.126	0.11	0.12	0.50	1.41	–0.12	–2
105	104417.14-594156.6	10:44:17.14	–59:41:56.67	0.09	4.35	26.02	65	0.90	164	2.106	1.495	0.611	0.11	0.14	0.37	1.54	–0.40	–2
106	104417.44-594547.7	10:44:17.44	–59:45:47.74	0.26	4.28	5.66	60	0.90	15	0.198	0.096	0.102	0.15	0.18	0.42	1.84	–0.09	–2
107	104417.49-594333.3	10:44:17.49	–59:43:33.37	0.26	3.85	5.42	52	0.90	14	0.185	0.116	0.069	0.09	0.16	0.52	1.70	–0.29	–2
108	104417.63-594337.2	10:44:17.63	–59:43:37.22	0.29	3.83	5.40	23	0.75	7	0.117	0.091	0.027	0.12	0.16	NaN	1.68	–0.07	–2
109	104417.63-594416.1	10:44:17.63	–59:44:16.11	0.28	3.84	5.17	50	0.90	10	0.131	0.069	0.062	0.10	0.19	0.48	1.94	–0.73	–3
110	104417.72-594236.0	10:44:17.72	–59:42:36.09	0.08	4.02	30.44	55	0.89	195	2.506	1.799	0.707	0.11	0.14	0.40	1.57	–1.11	–3
111	104417.83-594356.3	10:44:17.83	–59:43:56.36	0.21	3.79	7.97	49	0.90	19	0.251	0.212	0.039	0.11	0.13	0.29	1.46	–0.77	–2
112	104418.40-594347.5	10:44:18.41	–59:43:47.59	0.11	3.72	14.32	48	0.89	74	0.954	0.579	0.375	0.11	0.17	0.35	1.76	–0.52	–1
113	104419.40-594153.2	10:44:19.41	–59:41:53.29	0.24	4.12	6.06	56	0.89	13	0.177	0.128	0.048	0.13	0.14	0.54	1.52	–0.03	–2
114	104419.51-593950.8	10:44:19.52	–59:39:50.87	0.27	5.41	6.33	133	0.90	23	0.303	0.031	0.273	0.02	0.46	0.53	3.91	–0.45	–4
115	104419.58-594351.7	10:44:19.58	–59:43:51.72	0.16	3.57	9.83	43	0.89	34	0.443	0.350	0.093	0.11	0.13	0.34	1.44	–0.23	–3
116	104419.67-594312.0	10:44:19.67	–59:43:12.09	0.11	3.63	13.66	11	0.58	35	0.698	0.463	0.235	0.14	0.17	0.36	1.75	–0.02	–2
117	104419.82-594313.1	10:44:19.83	–59:43:13.13	0.15	3.61	5.25	11	0.58	18	0.364	0.248	0.116	0.13	0.17	0.49	1.75	–0.55	–1
118	104420.10-594801.6	10:44:20.10	–59:48: 1.66	0.39	5.41	5.15	114	0.89	11	0.150	0.076	0.074	0.14	0.16	0.42	1.69	–3.66	–1
119	104420.16-594339.5	10:44:20.16	–59:43:39.55	0.11	3.51	16.01	41	0.89	65	0.845	0.649	0.196	0.10	0.12	0.45	1.40	–2.71	–2
120	104420.19-593826.1	10:44:20.19	–59:38:26.14	0.35	6.49	5.30	237	0.90	15	0.204	0.204	0.001	0.13	0.10	NaN	1.22	–0.16	–1
121	104420.21-594229.8	10:44:20.22	–59:42:29.80	0.15	3.77	10.31	46	0.89	37	0.489	0.401	0.088	0.11	0.12	0.29	1.39	–0.10	–2
122	104420.43-594415.4	10:44:20.43	–59:44:15.46	0.17	3.48	9.99	40	0.89	26	0.339	0.256	0.083	0.11	0.15	0.34	1.63	–0.19	–2
123	104420.51-594158.7	10:44:20.51	–59:41:58.77	0.23	3.96	5.11	50	0.89	13	0.171	0.127	0.044	0.09	0.13	0.42	1.50	–0.24	–2
124	104420.66-595029.2	10:44:20.67	–59:50:29.22	0.31	7.42	5.84	396	0.90	32	0.410	0.125	0.285	0.18	0.15	0.53	1.65	–0.05	–1
125	104420.99-594540.4	10:44:20.99	–59:45:40.47	0.18	3.83	10.08	46	0.89	25	0.324	0.198	0.126	0.09	0.15	0.37	1.63	–0.50	–2
126	104421.06-594419.8	10:44:21.06	–59:44:19.80	0.11	3.41	6.66	38	0.89	65	0.843	0.709	0.134	0.09	0.11	0.37	1.34	–0.21	–1
127	104421.44-594147.7	10:44:21.45	–59:41:47.75	0.29	3.95	4.60	49	0.89	7	0.097	0.085	0.012	0.09	0.10	0.71	1.24	–0.03	–1
128	104421.54-594647.0	10:44:21.54	–59:46:47.04	0.17	4.40	11.87	63	0.89	41	0.540	0.105	0.435	0.04	0.39	0.51	3.42	–0.07	–3
129	104421.93-594126.4	10:44:21.93	–59:41:26.47	0.19	4.10	7.30	54	0.89	24	0.316	0.269	0.047	0.09	0.09	0.34	1.21	–0.02	–3
130	104422.07-594941.5	10:44:22.07	–59:49:41.58	0.32	6.64	4.83	252	0.90	19	0.254	0.238	0.017	0.06	0.06	NaN	0.98	–0.34	–1
131	104422.10-594004.6	10:44:22.10	–59:40: 4.69	0.33	5.02	5.08	93	0.90	7	0.094	0.062	0.032	0.12	0.11	NaN	1.31	–0.40	–2
132	104422.15-594449.2	10:44:22.15	–59:44:49.26	0.20	3.37	6.01	36	0.89	15	0.196	0.157	0.038	0.13	0.16	0.31	1.67	–0.43	–3
133	104422.19-595057.4	10:44:22.20	–59:50:57.48	0.24	7.76	14.53	431	0.89	118	1.528	1.134	0.394	0.11	0.12	0.38	1.38	–0.13	–2
134	104422.33-594308.5	10:44:22.34	–59:43: 8.54	0.17	3.31	7.74	35	0.89	24	0.315	0.182	0.133	0.08	0.16	0.34	1.72	–0.62	–3
135	104422.53-594340.7	10:44:22.54	–59:43:40.79	0.24	3.21	5.27	34	0.89	9	0.128	0.073	0.054	0.10	0.11	NaN	1.33	–0.03	–2
136	104422.54-593925.7	10:44:22.54	–59:39:25.74	0.15	5.50	16.84	141	0.91	119	1.516	1.243	0.272	0.10	0.10	0.40	1.28	–4.00	–3
137	104422.54-594403.5	10:44:22.54	–59:44: 3.50	0.25	3.20	5.94	8	0.57	4	0.085	0.067	0.017	0.13	0.12	0.99	1.44	–0.62	–3
138	104422.55-593822.6	10:44:22.55	–59:38:22.62	0.32	6.39	5.36	227	0.90	23	0.299	0.263	0.036	0.07	0.07	0.30	1.03	–0.50	–1
139	104422.60-594609.0	10:44:22.60	–59:46: 9.03	0.33	3.90	4.73	46	0.89	5	0.068	0.052	0.016	0.07	0.08	0.67	1.13	–0.28	–3
140	104422.67-594402.3	10:44:22.68	–59:44: 2.31	0.21	3.18	4.68	8	0.57	6	0.124	0.127	0.003	0.11	0.10	NaN	1.29	–0.09	–1

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
141	104422.80-594432.3	10:44:22.81	–59:44:32.37	0.11	3.23	14.33	33	0.89	51	0.666	0.545	0.120	0.10	0.11	0.35	1.34	–1.54	–2
142	104423.07-593800.1	10:44:23.08	–59:38: 0.14	0.30	6.68	6.89	259	0.90	33	0.429	0.278	0.151	0.12	0.13	0.34	1.46	–0.07	–2
143	104423.09-594306.4	10:44:23.10	–59:43: 6.47	0.19	3.23	7.21	33	0.89	18	0.239	0.195	0.044	0.12	0.13	0.30	1.48	–1.22	–2
144	104423.14-594155.2	10:44:23.15	–59:41:55.27	0.23	3.70	6.38	42	0.90	13	0.170	0.051	0.119	0.17	0.21	0.44	2.10	–0.71	–2
145	104423.22-594206.5	10:44:23.22	–59:42: 6.51	0.15	3.60	10.87	40	0.90	31	0.396	0.319	0.077	0.10	0.11	0.38	1.33	–0.33	–3
146	104423.58-593941.5	10:44:23.58	–59:39:41.53	0.20	5.21	10.87	119	0.91	42	0.538	0.426	0.113	0.12	0.12	0.34	1.39	–2.68	–3
147	104423.69-594114.6	10:44:23.69	–59:41:14.68	0.11	4.05	19.48	52	0.90	88	1.123	0.939	0.183	0.09	0.11	0.38	1.29	–0.07	–2
148	104423.96-594218.7	10:44:23.97	–59:42:18.77	0.24	3.41	4.79	36	0.90	9	0.123	0.020	0.103	0.13	0.57	0.61	4.75	–0.58	–1
149	104424.01-594301.0	10:44:24.02	–59:43: 1.02	0.18	3.14	6.92	32	0.90	17	0.218	0.072	0.146	0.16	0.32	0.43	2.90	–0.05	–4
150	104424.02-594423.2	10:44:24.02	–59:44:23.21	0.13	3.05	11.83	30	0.90	38	0.489	0.354	0.135	0.08	0.13	0.41	1.48	–0.68	–3
151	104424.08-594055.8	10:44:24.09	–59:40:55.87	0.09	4.23	27.08	58	0.90	159	2.036	1.697	0.340	0.11	0.12	0.36	1.38	–0.21	–3
152	104424.20-593728.1	10:44:24.20	–59:37:28.15	0.30	7.10	10.18	321	0.89	47	0.614	0.370	0.244	0.13	0.14	0.38	1.56	–0.21	–2
153	104424.79-594555.0	10:44:24.80	–59:45:55.04	0.11	3.54	14.59	38	0.90	58	0.745	0.699	0.045	0.08	0.08	0.30	1.11	–3.02	–3
154	104424.81-595120.5	10:44:24.81	–59:51:20.52	0.36	7.99	6.51	545	0.90	31	0.405	0.242	0.163	0.14	0.12	0.64	1.41	–0.60	–2
155	104424.83-593959.4	10:44:24.84	–59:39:59.40	0.24	4.88	6.47	86	0.90	23	0.295	0.235	0.060	0.09	0.11	0.28	1.33	–0.03	–3
156	104424.90-593702.5	10:44:24.91	–59:37: 2.51	0.15	7.45	36.15	388	0.90	318	4.059	2.807	1.252	0.11	0.14	0.39	1.56	–0.22	–2
157	104424.97-593648.1	10:44:24.97	–59:36:48.11	0.38	7.67	4.64	462	0.90	34	0.443	0.405	0.039	0.07	0.08	0.40	1.08	–1.27	–1
158	104425.18-593621.1	10:44:25.18	–59:36:21.11	0.33	8.08	10.38	517	0.89	67	0.875	0.651	0.224	0.09	0.11	0.42	1.29	–1.07	–3
159	104425.41-594111.6	10:44:25.42	–59:41:11.68	0.19	3.92	7.84	49	0.90	22	0.292	0.285	0.007	0.07	0.08	NaN	1.08	–0.18	–3
160	104425.42-594354.9	10:44:25.43	–59:43:54.96	0.11	2.84	10.11	13	0.75	32	0.501	0.337	0.164	0.10	0.16	0.34	1.69	–1.75	–3
161	104425.56-594352.5	10:44:25.56	–59:43:52.54	0.14	2.82	4.83	4	0.39	7	0.225	0.198	0.027	0.16	0.17	NaN	1.80	–2.40	–1
162	104425.57-594458.0	10:44:25.58	–59:44:58.02	0.23	3.01	5.07	28	0.90	8	0.115	0.095	0.020	0.06	0.07	0.30	1.03	–0.04	–4
163	104425.72-594728.4	10:44:25.73	–59:47:28.45	0.24	4.53	8.24	68	0.89	19	0.252	0.203	0.049	0.13	0.13	0.37	1.46	–0.21	–2
164	104425.74-594353.3	10:44:25.75	–59:43:53.38	0.09	2.80	16.58	27	0.89	70	0.902	0.677	0.225	0.11	0.13	0.38	1.45	–4.00	–3
165	104425.76-593923.8	10:44:25.76	–59:39:23.89	0.26	5.30	8.80	129	0.91	21	0.276	0.236	0.040	0.09	0.09	0.72	1.21	–0.17	–3
166	104425.81-594329.4	10:44:25.82	–59:43:29.40	0.18	2.82	6.74	28	0.89	16	0.216	0.117	0.100	0.13	0.19	0.40	1.95	–0.34	–4
167	104425.84-593915.6	10:44:25.85	–59:39:15.63	0.42	5.41	4.95	137	0.91	6	0.076	0.080	0.004	0.08	0.08	NaN	1.08	–1.21	–1
168	104426.16-594621.2	10:44:26.16	–59:46:21.26	0.29	3.68	4.76	41	0.89	7	0.090	0.036	0.054	0.18	0.23	0.59	2.20	–1.05	–1
169	104426.17-594426.8	10:44:26.17	–59:44:26.86	0.13	2.79	9.74	27	0.89	30	0.389	0.341	0.049	0.09	0.12	0.49	1.37	–1.00	–3
170	104426.32-594241.3	10:44:26.32	–59:42:41.32	0.09	2.98	17.54	29	0.89	70	0.901	0.662	0.239	0.12	0.14	0.41	1.55	–0.93	–2
171	104426.33-594750.7	10:44:26.33	–59:47:50.73	0.34	4.79	8.43	81	0.90	8	0.111	0.096	0.015	0.04	0.04	0.60	0.81	–1.66	–3
172	104426.38-593739.9	10:44:26.38	–59:37:39.94	0.26	6.80	11.67	278	0.89	54	0.699	0.563	0.136	0.10	0.12	0.32	1.39	–0.02	–2
173	104426.92-594542.0	10:44:26.93	–59:45:42.05	0.23	3.20	4.71	32	0.89	10	0.135	0.117	0.018	0.08	0.08	0.42	1.07	–0.06	–4
174	104427.06-594438.7	10:44:27.07	–59:44:38.76	0.06	2.73	25.78	26	0.89	129	1.659	1.329	0.330	0.10	0.12	0.36	1.43	–0.01	–4
175	104427.30-594035.3	10:44:27.31	–59:40:35.38	0.18	4.21	10.01	58	0.89	31	0.412	0.380	0.032	0.11	0.11	NaN	1.29	–0.58	–2
176	104427.42-593609.7	10:44:27.43	–59:36: 9.77	0.40	8.16	5.00	546	0.89	33	0.427	0.041	0.468	0.36	0.40	NaN	3.51	–0.00	–2
177	104427.53-594615.3	10:44:27.53	–59:46:15.37	0.25	3.48	6.60	37	0.89	9	0.121	0.064	0.057	0.13	0.17	0.40	1.74	–1.73	–2
178	104427.67-594018.2	10:44:27.67	–59:40:18.26	0.28	4.41	4.71	67	0.89	12	0.165	0.124	0.041	0.07	0.08	0.73	1.07	–0.12	–4
179	104427.84-594521.4	10:44:27.84	–59:45:21.44	0.07	2.92	20.20	28	0.89	111	1.435	1.402	0.033	0.06	0.06	NaN	0.95	–0.11	–3
180	104427.85-593748.7	10:44:27.86	–59:37:48.71	0.26	6.60	8.71	250	0.89	55	0.715	0.579	0.136	0.11	0.12	0.31	1.37	–1.06	–2
181	104427.91-594202.9	10:44:27.92	–59:42: 2.94	0.09	3.13	17.39	30	0.89	73	0.940	0.669	0.271	0.12	0.14	0.30	1.56	–0.09	–2
182	104428.37-594123.5	10:44:28.37	–59:41:23.50	0.14	3.52	11.32	38	0.89	37	0.483	0.442	0.040	0.10	0.10	0.33	1.28	–0.28	–3
183	104428.49-594826.2	10:44:28.50	–59:48:26.23	0.22	5.15	9.32	101	0.89	31	0.405	0.272	0.132	0.14	0.15	0.37	1.64	–1.94	–2
184	104428.50-594144.8	10:44:28.50	–59:41:44.84	0.10	3.26	15.82	33	0.89	64	0.831	0.621	0.210	0.10	0.12	0.32	1.41	–0.93	–3
185	104428.57-594431.1	10:44:28.57	–59:44:31.14	0.17	2.52	6.05	26	0.90	14	0.190	0.171	0.019	0.08	0.09	NaN	1.14	–0.56	–4
186	104428.63-593920.4	10:44:28.64	–59:39:20.41	0.34	5.17	5.07	120	0.91	6	0.077	0.013	0.090	0.36	0.22	NaN	2.17	–0.37	–1

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
187	104428.63-594413.7	10:44:28.64	–59:44:13.75	0.18	2.45	6.75	26	0.90	12	0.160	0.118	0.042	0.06	0.07	0.56	1.00	–0.95	–3
188	104428.66-594051.9	10:44:28.66	–59:40:51.97	0.17	3.89	8.61	47	0.89	30	0.386	0.324	0.062	0.08	0.10	0.46	1.24	–0.33	–3
189	104428.89-594817.3	10:44:28.89	–59:48:17.33	0.14	5.00	20.06	92	0.89	96	1.246	0.816	0.430	0.13	0.14	0.42	1.58	–0.60	–2
190	104428.92-594207.9	10:44:28.93	–59:42: 7.91	0.22	2.98	4.95	28	0.89	9	0.126	0.097	0.030	0.10	0.14	0.49	1.58	–0.50	–3
191	104429.11-594143.1	10:44:29.11	–59:41:43.17	0.08	3.23	22.03	32	0.89	112	1.447	1.059	0.389	0.11	0.12	0.38	1.43	–0.44	–3
192	104429.26-594303.1	10:44:29.27	–59:43: 3.17	0.13	2.50	10.84	26	0.90	29	0.372	0.276	0.096	0.09	0.12	0.68	1.39	–0.09	–3
193	104429.30-594518.4	10:44:29.31	–59:45:18.49	0.30	2.73	5.16	28	0.90	3	0.039	0.025	0.014	0.12	0.19	0.76	1.96	–0.38	–3
194	104429.35-594500.6	10:44:29.35	–59:45: 0.66	0.29	2.59	5.02	26	0.90	3	0.042	0.039	0.004	0.13	0.13	NaN	1.48	–0.24	–2
195	104429.37-593649.9	10:44:29.37	–59:36:49.98	0.44	7.45	4.79	376	0.89	19	0.249	0.015	0.234	0.09	0.36	0.43	3.17	–0.16	–1
196	104429.39-593739.0	10:44:29.40	–59:37:39.06	0.15	6.68	26.76	264	0.89	205	2.631	1.593	1.038	0.12	0.16	0.37	1.71	–4.00	–2
197	104429.45-594605.9	10:44:29.45	–59:46: 5.92	0.13	3.20	11.59	31	0.89	32	0.421	0.393	0.028	0.11	0.11	0.48	1.29	–0.54	–3
198	104429.50-594144.6	10:44:29.50	–59:41:44.66	0.12	3.17	9.53	31	0.89	44	0.575	0.456	0.119	0.11	0.14	0.38	1.54	–0.91	–2
199	104429.70-594453.6	10:44:29.71	–59:44:53.61	0.15	2.50	8.11	25	0.90	17	0.224	0.193	0.031	0.09	0.10	0.31	1.27	–0.67	–3
200	104429.79-594332.7	10:44:29.80	–59:43:32.78	0.09	2.31	13.66	24	0.90	55	0.706	0.520	0.186	0.11	0.13	0.38	1.45	–0.09	–2
201	104429.93-594533.8	10:44:29.94	–59:45:33.88	0.30	2.81	4.87	26	0.89	3	0.043	0.026	0.017	0.07	0.11	NaN	1.34	–1.83	–1
202	104430.01-595103.4	10:44:30.02	–59:51: 3.41	0.30	7.50	8.46	396	0.90	56	0.725	0.418	0.307	0.09	0.12	0.51	1.38	–2.39	–2
203	104430.03-594218.1	10:44:30.04	–59:42:18.12	0.19	2.77	7.27	25	0.89	12	0.165	0.096	0.069	0.12	0.16	0.64	1.69	–0.41	–2
204	104430.05-594447.7	10:44:30.06	–59:44:47.75	0.13	2.42	9.00	24	0.90	23	0.298	0.219	0.079	0.12	0.14	0.41	1.57	–0.59	–2
205	104430.09-594100.2	10:44:30.10	–59:41: 0.27	0.11	3.67	17.24	41	0.90	71	0.911	0.667	0.244	0.10	0.12	0.48	1.42	–4.00	–2
206	104430.32-594036.1	10:44:30.32	–59:40:36.13	0.20	3.98	7.89	50	0.89	22	0.285	0.210	0.075	0.10	0.13	0.36	1.46	–0.39	–2
207	104430.41-593726.8	10:44:30.41	–59:37:26.80	0.18	6.83	22.53	291	0.90	149	1.917	1.607	0.310	0.08	0.10	0.45	1.23	–0.34	–3
208	104430.49-594454.2	10:44:30.50	–59:44:54.20	0.19	2.41	6.28	24	0.90	10	0.134	0.103	0.031	0.06	0.10	0.28	1.25	–0.01	–2
209	104430.58-593925.0	10:44:30.58	–59:39:25.07	0.26	4.99	6.23	107	0.91	18	0.232	0.191	0.040	0.13	0.12	0.29	1.38	–0.15	–2
210	104430.65-594629.7	10:44:30.66	–59:46:29.73	0.20	3.38	5.89	35	0.89	15	0.193	0.124	0.069	0.07	0.07	0.49	1.06	–0.01	–3
211	104430.75-593535.6	10:44:30.76	–59:35:35.65	0.49	8.59	6.19	921	0.90	41	0.526	0.345	0.181	0.12	0.14	0.31	1.53	–2.13	–2
212	104430.77-594021.8	10:44:30.77	–59:40:21.85	0.33	4.15	5.80	56	0.89	5	0.068	0.089	0.021	0.11	0.10	NaN	1.25	–0.58	–3
213	104431.04-594205.2	10:44:31.04	–59:42: 5.22	0.07	2.80	23.94	25	0.90	102	1.317	0.982	0.336	0.11	0.14	0.37	1.57	–4.00	–3
214	104431.11-594239.2	10:44:31.12	–59:42:39.21	0.16	2.46	7.59	22	0.89	16	0.210	0.151	0.059	0.09	0.11	0.60	1.32	–0.62	–3
215	104431.12-594304.9	10:44:31.12	–59:43: 4.96	0.18	2.27	6.59	5	0.58	5	0.110	0.113	0.003	0.10	0.10	NaN	1.28	–0.41	–2
216	104431.17-594127.4	10:44:31.17	–59:41:27.43	0.10	3.23	17.06	32	0.89	60	0.772	0.535	0.237	0.13	0.15	0.38	1.66	–0.53	–3
217	104431.19-594410.4	10:44:31.19	–59:44:10.46	0.14	2.13	8.01	22	0.90	18	0.233	0.164	0.069	0.11	0.14	0.39	1.58	–0.75	–2
218	104431.25-594418.6	10:44:31.26	–59:44:18.66	0.16	2.14	7.15	22	0.90	14	0.181	0.166	0.015	0.08	0.09	0.55	1.14	–1.06	–3
219	104431.47-594304.2	10:44:31.48	–59:43: 4.23	0.37	2.23	4.77	20	0.89	1	0.020	0.012	0.008	0.13	0.13	NaN	1.45	NaN	–1
220	104431.48-594414.2	10:44:31.49	–59:44:14.25	0.13	2.10	8.18	21	0.90	22	0.286	0.218	0.068	0.11	0.14	0.36	1.57	–0.05	–3
221	104431.83-594612.3	10:44:31.83	–59:46:12.35	0.11	3.07	12.08	29	0.89	45	0.581	0.372	0.209	0.11	0.14	0.49	1.54	–1.11	–2
222	104431.87-593803.3	10:44:31.87	–59:38: 3.39	0.31	6.19	6.75	211	0.90	28	0.362	0.329	0.033	0.09	0.10	0.40	1.23	–0.55	–3
223	104431.93-593841.4	10:44:31.93	–59:38:41.48	0.18	5.59	14.87	153	0.90	84	1.077	0.816	0.262	0.12	0.14	0.40	1.54	–1.29	–3
224	104431.95-594401.5	10:44:31.96	–59:44: 1.59	0.17	2.02	5.75	20	0.90	10	0.135	0.102	0.033	0.08	0.08	0.52	1.11	–0.05	–2
225	104432.02-594300.4	10:44:32.02	–59:43: 0.40	0.14	2.20	9.13	20	0.89	20	0.261	0.254	0.007	0.11	0.12	NaN	1.42	–0.06	–2
226	104432.27-594621.1	10:44:32.27	–59:46:21.12	0.25	3.14	4.79	31	0.89	7	0.092	0.086	0.006	0.09	0.11	0.42	1.32	–0.91	–1
227	104432.37-594426.3	10:44:32.38	–59:44:26.38	0.14	2.03	7.48	21	0.90	18	0.233	0.124	0.108	0.12	0.15	0.42	1.63	–2.27	–2
228	104432.38-594431.0	10:44:32.38	–59:44:31.02	0.03	2.05	56.98	21	0.90	598	7.609	7.475	0.134	0.06	0.06	0.35	0.95	–0.39	–3
229	104432.42-594200.2	10:44:32.43	–59:42: 0.22	0.10	2.73	13.69	24	0.90	48	0.622	0.516	0.105	0.11	0.13	0.36	1.44	–1.16	–3
230	104432.55-594406.5	10:44:32.56	–59:44: 6.51	0.18	1.95	5.90	20	0.90	9	0.123	0.103	0.020	0.10	0.11	NaN	1.32	–0.11	–2

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
231	104432.58-594351.6	10:44:32.59	–59:43:51.66	0.10	1.93	12.16	20	0.90	39	0.501	0.393	0.108	0.10	0.11	0.34	1.33	–1.48	–3
232	104432.66-594143.5	10:44:32.66	–59:41:43.55	0.23	2.91	5.20	27	0.89	8	0.112	0.106	0.006	0.08	0.08	0.36	1.12	–0.15	–1
233	104432.69-594020.8	10:44:32.70	–59:40:20.89	0.23	4.04	6.57	54	0.89	17	0.223	0.143	0.080	0.12	0.16	0.32	1.66	–0.08	–2
234	104432.86-594306.3	10:44:32.86	–59:43: 6.33	0.06	2.06	22.52	19	0.89	113	1.459	1.129	0.330	0.10	0.13	0.36	1.45	–0.02	–3
235	104432.90-594702.5	10:44:32.91	–59:47: 2.57	0.15	3.67	12.06	41	0.90	33	0.426	0.346	0.080	0.12	0.13	0.40	1.48	–0.52	–2
236	104433.13-594131.1	10:44:33.13	–59:41:31.11	0.15	3.03	9.54	29	0.89	25	0.327	0.244	0.083	0.12	0.15	0.29	1.62	–1.58	–2
237	104433.14-594001.9	10:44:33.15	–59:40: 1.98	0.12	4.30	17.67	63	0.90	80	1.030	0.672	0.358	0.10	0.14	0.51	1.53	–2.86	–3
238	104433.18-594547.5	10:44:33.19	–59:45:47.50	0.12	2.65	9.83	24	0.89	30	0.393	0.324	0.069	0.07	0.09	0.43	1.18	–0.15	–3
239	104433.18-594928.0	10:44:33.19	–59:49:28.01	0.28	5.86	7.86	174	0.90	25	0.329	0.108	0.221	0.16	0.17	0.52	1.80	–0.14	–2
240	104433.32-593553.3	10:44:33.32	–59:35:53.38	0.37	8.22	8.86	606	0.89	56	0.728	0.503	0.224	0.13	0.14	0.54	1.51	–2.66	–2
241	104433.77-594312.8	10:44:33.77	–59:43:12.81	0.13	1.91	9.45	20	0.90	22	0.284	0.120	0.164	0.11	0.33	0.41	2.95	–4.00	–2
242	104433.77-594415.4	10:44:33.78	–59:44:15.44	0.01	1.82	143.55	20	0.90	3351	42.687	40.936	1.751	0.07	0.07	0.33	1.03	–3.55	–3
243	104433.82-594611.2	10:44:33.82	–59:46:11.23	0.17	2.89	6.56	27	0.89	17	0.225	0.054	0.171	0.20	0.39	NaN	3.45	–0.33	–2
244	104433.85-594011.7	10:44:33.86	–59:40:11.70	0.24	4.11	6.35	57	0.90	17	0.221	0.110	0.111	0.13	0.19	0.43	1.89	–1.81	–2
245	104433.98-593733.8	10:44:33.99	–59:37:33.83	0.20	6.58	19.33	262	0.89	119	1.533	1.093	0.440	0.11	0.14	0.37	1.53	–1.07	–3
246	104434.00-594809.2	10:44:34.00	–59:48: 9.27	0.27	4.60	5.57	73	0.90	15	0.196	0.095	0.102	0.13	0.17	0.59	1.80	–0.45	–2
247	104434.01-594248.6	10:44:34.01	–59:42:48.69	0.19	2.07	6.16	21	0.90	10	0.134	0.087	0.047	0.12	0.17	0.49	1.75	–0.93	–2
248	104434.01-594737.4	10:44:34.01	–59:47:37.45	0.19	4.11	10.30	55	0.90	27	0.349	0.234	0.114	0.14	0.16	0.42	1.68	–1.18	–2
249	104434.05-594354.9	10:44:34.05	–59:43:54.99	0.07	1.75	19.91	19	0.90	79	1.017	0.599	0.418	0.11	0.16	0.41	1.73	–1.02	–2
250	104434.11-593850.4	10:44:34.12	–59:38:50.45	0.36	5.35	5.17	135	0.91	9	0.115	0.104	0.011	0.05	0.06	0.64	0.92	–1.29	–1
251	104434.97-594405.7	10:44:34.98	–59:44: 5.77	0.06	1.64	19.29	19	0.90	81	1.046	0.770	0.275	0.11	0.14	0.36	1.57	–4.00	–3
252	104435.02-594142.3	10:44:35.02	–59:41:42.36	0.24	2.73	5.64	25	0.89	6	0.084	0.077	0.007	0.08	0.08	NaN	1.10	–0.41	–3
253	104435.11-594420.7	10:44:35.12	–59:44:20.79	0.17	1.67	5.09	19	0.90	10	0.133	0.138	0.005	0.08	0.08	NaN	1.12	–0.01	–2
254	104435.15-594512.3	10:44:35.16	–59:45:12.30	0.06	2.07	25.07	21	0.90	120	1.538	1.023	0.515	0.11	0.14	0.44	1.51	–4.00	–3
255	104435.25-594610.2	10:44:35.26	–59:46:10.27	0.22	2.77	5.59	26	0.89	8	0.110	0.103	0.007	0.12	0.12	NaN	1.37	–0.12	–2
256	104435.26-593535.2	10:44:35.27	–59:35:35.24	0.32	8.47	15.84	816	0.89	140	1.813	1.237	0.577	0.11	0.15	0.35	1.60	–4.00	–2
257	104435.33-594228.4	10:44:35.34	–59:42:28.43	0.21	2.14	5.40	20	0.89	7	0.098	0.089	0.009	0.16	0.16	0.31	1.73	–0.01	–4
258	104435.51-594808.5	10:44:35.52	–59:48: 8.52	0.29	4.52	4.79	71	0.90	12	0.161	0.167	0.006	0.07	0.07	NaN	1.00	–1.25	–1
259	104435.52-594045.9	10:44:35.53	–59:40:45.98	0.19	3.51	8.44	39	0.89	19	0.252	0.195	0.057	0.15	0.15	NaN	1.63	–0.04	–2
260	104435.57-594350.9	10:44:35.57	–59:43:50.98	0.08	1.56	17.57	18	0.90	56	0.720	0.570	0.150	0.11	0.12	0.41	1.40	–1.13	–2
261	104435.60-594523.7	10:44:35.60	–59:45:23.76	0.15	2.15	5.60	5	0.57	7	0.151	0.093	0.058	0.08	0.19	0.51	1.96	–0.49	–3
262	104435.60-594523.8	10:44:35.60	–59:45:23.90	0.15	2.16	5.60	5	0.57	7	0.151	0.093	0.058	0.08	0.19	0.51	1.96	–0.49	–3
263	104435.70-594629.5	10:44:35.71	–59:46:29.58	0.17	3.01	7.55	30	0.89	19	0.247	0.026	0.221	0.17	0.47	NaN	4.01	–0.22	–2
264	104435.74-594502.7	10:44:35.74	–59:45: 2.79	0.18	1.91	6.37	20	0.90	8	0.113	0.095	0.018	0.10	0.11	NaN	1.33	–1.51	–3
265	104435.81-593810.2	10:44:35.82	–59:38:10.25	0.35	5.93	5.00	190	0.90	18	0.232	0.127	0.104	0.08	0.11	0.59	1.30	–1.24	–1
266	104435.90-594446.8	10:44:35.90	–59:44:46.85	0.08	1.75	16.88	19	0.90	58	0.742	0.672	0.070	0.09	0.10	0.43	1.28	–0.24	–3
267	104436.07-594456.8	10:44:36.07	–59:44:56.81	0.11	1.82	7.37	4	0.57	11	0.233	0.216	0.017	0.08	0.09	0.32	1.16	–0.92	–2
268	104436.09-594258.4	10:44:36.10	–59:42:58.46	0.14	1.76	7.40	19	0.90	16	0.212	0.126	0.085	0.11	0.13	0.30	1.47	–0.38	–2
269	104436.21-594456.1	10:44:36.22	–59:44:56.13	0.16	1.80	4.69	4	0.57	5	0.112	0.074	0.038	0.09	0.12	NaN	1.37	–0.25	–1
270	104436.32-595107.9	10:44:36.32	–59:51: 7.96	0.37	7.38	4.82	397	0.90	24	0.308	0.250	0.058	0.12	0.10	0.83	1.26	–3.13	–1
271	104436.36-594411.0	10:44:36.36	–59:44:11.00	0.03	1.48	43.34	18	0.90	324	4.144	2.884	1.260	0.11	0.15	0.37	1.61	–4.00	–3
272	104436.36-593944.5	10:44:36.37	–59:39:44.54	0.21	4.41	7.84	68	0.89	27	0.356	0.276	0.080	0.10	0.11	0.49	1.34	–0.10	–3
273	104436.45-595042.8	10:44:36.45	–59:50:42.80	0.28	6.96	10.00	314	0.90	56	0.720	0.423	0.297	0.09	0.13	0.43	1.50	–1.02	–2
274	104436.59-593904.9	10:44:36.60	–59:39: 4.99	0.31	5.03	5.19	100	0.89	13	0.172	0.119	0.054	0.06	0.10	0.64	1.25	–0.42	–3
275	104436.67-594304.9	10:44:36.67	–59:43: 4.94	0.07	1.64	16.72	19	0.90	63	0.803	0.475	0.329	0.08	0.12	0.35	1.42	–2.81	–3
276	104436.68-594423.8	10:44:36.68	–59:44:23.90	0.08	1.50	15.00	18	0.90	46	0.596	0.485	0.111	0.08	0.11	0.35	1.34	–0.30	–3

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
277	104436.71-593503.4	10:44:36.72	–59:35: 3.43	0.39	8.96	14.44	1116	0.91	139	1.758	0.047	1.711	0.17	0.42	0.49	3.68	–0.21	–2
278	104436.71-594621.8	10:44:36.72	–59:46:21.85	0.08	2.84	21.57	27	0.89	85	1.103	0.672	0.431	0.11	0.15	0.35	1.61	–0.92	–2
279	104436.72-594556.3	10:44:36.72	–59:45:56.32	0.13	2.48	10.06	22	0.89	25	0.321	0.261	0.060	0.12	0.13	0.31	1.47	–0.54	–2
280	104436.74-594725.3	10:44:36.74	–59:47:25.31	0.41	3.79	4.64	47	0.89	2	0.026	0.012	0.014	0.15	0.15	0.78	1.63	–0.99	–1
281	104436.75-594729.5	10:44:36.76	–59:47:29.52	0.12	3.85	17.20	49	0.89	70	0.900	0.872	0.028	0.08	0.08	0.31	1.08	–0.33	–3
282	104436.78-595008.2	10:44:36.78	–59:50: 8.24	0.26	6.39	9.63	235	0.90	46	0.596	0.413	0.183	0.12	0.12	0.44	1.41	–1.28	–2
283	104436.85-594406.3	10:44:36.86	–59:44: 6.33	0.08	1.41	15.21	18	0.90	44	0.566	0.455	0.111	0.10	0.12	0.47	1.43	–0.58	–3
284	104437.03-593944.4	10:44:37.04	–59:39:44.49	0.23	4.38	7.06	67	0.89	22	0.290	0.213	0.077	0.11	0.13	0.44	1.46	–0.48	–3
285	104437.04-593734.9	10:44:37.05	–59:37:34.99	0.34	6.47	7.23	250	0.89	31	0.397	0.186	0.211	0.14	0.18	0.44	1.85	–0.32	–2
286	104437.19-594001.0	10:44:37.20	–59:40: 1.07	0.35	4.11	4.90	58	0.90	6	0.080	0.043	0.037	0.10	0.17	0.38	1.77	–0.10	–1
287	104437.23-594604.1	10:44:37.24	–59:46: 4.17	0.12	2.55	11.11	23	0.89	31	0.399	0.262	0.137	0.09	0.16	0.33	1.68	–0.59	–3
288	104437.25-594712.7	10:44:37.25	–59:47:12.74	0.26	3.57	4.69	41	0.89	9	0.124	0.084	0.040	0.07	0.08	0.98	1.14	–1.85	–1
289	104437.38-594336.6	10:44:37.39	–59:43:36.67	0.08	1.36	14.10	18	0.90	46	0.596	0.548	0.048	0.08	0.08	0.28	1.12	–2.84	–3
290	104437.52-594447.7	10:44:37.53	–59:44:47.71	0.09	1.59	13.41	18	0.90	37	0.485	0.340	0.145	0.10	0.12	0.36	1.39	–0.14	–3
291	104437.58-594245.7	10:44:37.58	–59:42:45.72	0.14	1.73	7.20	19	0.90	16	0.211	0.153	0.058	0.11	0.15	0.47	1.66	–0.33	–2
292	104437.67-594426.7	10:44:37.67	–59:44:26.79	0.18	1.40	5.86	18	0.90	8	0.110	0.089	0.022	0.13	0.15	NaN	1.60	–0.45	–2
293	104437.67-594430.8	10:44:37.68	–59:44:30.84	0.10	1.43	11.59	18	0.90	30	0.392	0.281	0.111	0.11	0.13	0.36	1.47	–0.58	–3
294	104437.73-593959.1	10:44:37.73	–59:39:59.14	0.20	4.12	9.65	58	0.90	27	0.345	0.258	0.087	0.10	0.12	0.51	1.37	–0.49	–3
295	104437.75-594207.4	10:44:37.75	–59:42: 7.44	0.13	2.19	10.07	20	0.89	23	0.302	0.088	0.214	0.15	0.28	0.44	2.57	–0.78	–2
296	104437.76-594216.6	10:44:37.76	–59:42:16.65	0.10	2.07	12.40	19	0.89	34	0.444	0.348	0.096	0.09	0.11	0.42	1.31	–0.74	–3
297	104437.85-594330.9	10:44:37.85	–59:43:30.97	0.09	1.33	12.67	17	0.90	40	0.522	0.372	0.150	0.09	0.12	0.47	1.42	–1.74	–3
298	104438.02-594305.2	10:44:38.03	–59:43: 5.26	0.15	1.49	7.88	18	0.90	14	0.190	0.130	0.060	0.09	0.11	0.46	1.31	–0.73	–3
299	104438.05-593533.6	10:44:38.05	–59:35:33.67	0.49	8.44	7.28	815	0.89	45	0.583	0.491	0.093	0.08	0.09	0.59	1.20	–0.07	–4
300	104438.06-594437.0	10:44:38.07	–59:44:37.02	0.14	1.43	5.27	7	0.74	9	0.147	0.118	0.029	0.06	0.08	0.47	1.12	–0.11	–3
301	104438.11-594434.8	10:44:38.12	–59:44:34.90	0.05	1.41	23.46	18	0.90	107	1.375	1.124	0.250	0.12	0.13	0.34	1.47	–2.30	–3
302	104438.12-594326.0	10:44:38.13	–59:43:26.07	0.07	1.32	18.24	17	0.90	67	0.859	0.746	0.112	0.08	0.10	0.40	1.22	–0.16	–3
303	104438.13-594027.2	10:44:38.13	–59:40:27.24	0.24	3.66	5.85	44	0.89	11	0.143	0.109	0.034	0.09	0.12	0.60	1.37	–0.49	–4
304	104438.13-594131.3	10:44:38.14	–59:41:31.37	0.07	2.68	25.20	25	0.89	119	1.533	1.179	0.354	0.12	0.13	0.36	1.50	–0.36	–2
305	104438.17-594426.1	10:44:38.17	–59:44:26.11	0.12	1.34	8.55	17	0.90	22	0.288	0.190	0.098	0.09	0.16	0.48	1.67	–1.28	–3
306	104438.19-593914.3	10:44:38.20	–59:39:14.37	0.31	4.82	4.62	89	0.89	10	0.134	0.048	0.087	0.12	0.17	0.62	1.75	–0.16	–1
307	104438.19-594311.1	10:44:38.20	–59:43:11.15	0.11	1.42	10.51	18	0.90	27	0.351	0.289	0.062	0.12	0.12	0.38	1.44	–0.92	–3
308	104438.26-594333.6	10:44:38.27	–59:43:33.65	0.10	1.27	11.68	17	0.90	29	0.379	0.320	0.060	0.09	0.09	0.51	1.20	–1.19	–3
309	104438.41-594344.3	10:44:38.42	–59:43:44.37	0.13	1.21	8.07	17	0.90	16	0.210	0.164	0.046	0.07	0.11	0.57	1.35	–0.39	–3
310	104438.54-594351.1	10:44:38.55	–59:43:51.13	0.28	1.18	4.74	17	0.90	2	0.030	0.009	0.021	0.08	0.26	NaN	2.46	–0.95	–1
311	104438.54-594654.4	10:44:38.55	–59:46:54.44	0.08	3.23	19.96	34	0.90	108	1.379	0.830	0.549	0.11	0.14	0.37	1.58	–1.18	–2
312	104438.62-594717.3	10:44:38.63	–59:47:17.34	0.30	3.58	4.96	41	0.89	5	0.067	0.056	0.011	0.11	0.11	NaN	1.29	–1.95	–3
313	104438.63-594739.4	10:44:38.64	–59:47:39.47	0.24	3.93	5.13	52	0.90	14	0.182	0.145	0.037	0.13	0.13	0.35	1.50	–1.22	–4
314	104438.70-594442.7	10:44:38.71	–59:44:42.77	0.10	1.42	10.49	17	0.90	31	0.408	0.288	0.120	0.09	0.12	0.32	1.43	–0.14	–1
315	104438.77-594848.6	10:44:38.77	–59:48:48.68	0.28	5.04	5.39	101	0.90	18	0.239	0.178	0.061	0.12	0.12	0.27	1.36	–0.17	–2
316	104439.11-594709.5	10:44:39.12	–59:47: 9.51	0.17	3.44	9.80	38	0.90	24	0.317	0.305	0.012	0.08	0.08	NaN	1.07	–0.39	–2
317	104439.12-594653.5	10:44:39.13	–59:46:53.57	0.15	3.19	7.12	33	0.90	27	0.348	0.270	0.078	0.12	0.13	0.40	1.47	–0.86	–2
318	104439.28-594257.7	10:44:39.29	–59:42:57.78	0.12	1.44	8.71	17	0.90	19	0.249	0.139	0.110	0.14	0.16	0.41	1.68	–0.02	–2
319	104439.48-594040.1	10:44:39.48	–59:40:40.17	0.18	3.41	5.94	9	0.58	9	0.196	0.142	0.054	0.10	0.12	0.29	1.39	–0.10	–2
320	104439.48-594639.7	10:44:39.48	–59:46:39.73	0.23	2.96	5.09	29	0.90	9	0.119	0.078	0.042	0.09	0.10	0.37	1.28	–0.88	–4

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
321	104439.49-594040.7	10:44:39.50	–59:40:40.75	0.22	3.40	5.94	9	0.58	6	0.119	0.084	0.035	0.09	0.12	NaN	1.39	–0.37	–2
322	104439.75-594836.0	10:44:39.76	–59:48:36.06	0.12	4.81	21.50	88	0.89	128	1.645	0.754	0.891	0.15	0.20	0.40	2.02	–2.25	–2
323	104439.90-594924.3	10:44:39.91	–59:49:24.39	0.29	5.59	5.55	158	0.90	18	0.240	0.091	0.149	0.18	0.18	0.35	1.86	–1.04	–2
324	104439.91-594640.5	10:44:39.91	–59:46:40.51	0.19	2.95	6.13	29	0.90	14	0.184	0.053	0.132	0.12	0.27	0.38	2.51	–0.05	–2
325	104439.94-594358.1	10:44:39.94	–59:43:58.15	0.06	1.01	19.05	16	0.90	70	0.900	0.790	0.110	0.10	0.11	0.38	1.34	–0.70	–3
326	104440.04-594221.7	10:44:40.04	–59:42:21.74	0.13	1.83	8.29	20	0.90	20	0.261	0.165	0.096	0.09	0.14	0.41	1.55	–0.72	–2
327	104440.08-594557.1	10:44:40.08	–59:45:57.11	0.13	2.27	8.08	20	0.89	21	0.272	0.252	0.021	0.10	0.10	0.58	1.22	–0.20	–2
328	104440.09-594354.5	10:44:40.09	–59:43:54.51	0.21	0.99	5.20	16	0.90	5	0.070	0.075	0.005	0.12	0.12	NaN	1.41	–0.18	–3
329	104440.11-594547.9	10:44:40.11	–59:45:47.93	0.22	2.14	4.70	20	0.89	6	0.078	0.071	0.008	0.05	0.06	NaN	0.97	–0.53	–4
330	104440.13-594118.0	10:44:40.13	–59:41:18.09	0.14	2.78	9.50	27	0.89	25	0.326	0.286	0.040	0.08	0.09	0.35	1.15	–0.06	–2
331	104440.19-594611.5	10:44:40.20	–59:46:11.54	0.14	2.49	10.13	23	0.89	22	0.295	0.211	0.084	0.12	0.15	0.37	1.62	–1.36	–2
332	104440.69-593459.8	10:44:40.69	–59:34:59.83	0.68	8.95	6.03	1049	0.89	26	0.341	0.303	0.038	0.10	0.12	NaN	1.39	–1.67	–1
333	104440.78-594445.3	10:44:40.79	–59:44:45.37	0.11	1.24	10.15	16	0.90	22	0.287	0.254	0.034	0.09	0.10	0.37	1.29	–0.43	–4
334	104440.91-594524.7	10:44:40.91	–59:45:24.79	0.13	1.75	7.14	19	0.90	18	0.232	0.237	0.006	0.06	0.07	NaN	0.99	–0.07	–3
335	104440.96-594401.5	10:44:40.96	–59:44: 1.54	0.19	0.89	5.73	18	0.91	7	0.090	0.071	0.019	0.10	0.12	0.76	1.44	–0.47	–3
336	104441.10-594046.6	10:44:41.11	–59:40:46.60	0.21	3.24	6.31	34	0.89	13	0.171	0.108	0.063	0.11	0.14	0.42	1.56	–1.14	–2
337	104441.11-594652.9	10:44:41.11	–59:46:52.92	0.14	3.10	9.04	31	0.90	28	0.364	0.247	0.117	0.10	0.13	0.39	1.45	–1.08	–2
338	104441.12-594559.1	10:44:41.13	–59:45:59.12	0.19	2.25	5.72	20	0.89	8	0.115	0.059	0.057	0.08	0.19	NaN	1.95	–0.54	–2
339	104441.14-594422.9	10:44:41.14	–59:44:22.91	0.10	0.98	11.86	16	0.90	31	0.408	0.296	0.112	0.10	0.12	0.38	1.44	–0.74	–3
340	104441.15-594006.5	10:44:41.15	–59:40: 6.57	0.20	3.89	7.68	52	0.90	25	0.325	0.197	0.127	0.07	0.14	0.31	1.51	–1.24	–2
341	104441.19-594520.5	10:44:41.20	–59:45:20.56	0.11	1.67	10.06	19	0.90	29	0.376	0.100	0.276	0.13	0.31	0.45	2.82	–0.25	–2
342	104441.20-593819.7	10:44:41.21	–59:38:19.74	0.23	5.64	9.76	167	0.90	52	0.664	0.577	0.087	0.10	0.10	0.27	1.27	–2.08	–2
343	104441.31-594039.9	10:44:41.31	–59:40:39.98	0.31	3.34	5.31	36	0.89	4	0.058	0.069	0.010	0.04	0.05	NaN	0.85	–1.37	–3
344	104441.35-594302.8	10:44:41.35	–59:43: 2.86	0.16	1.19	4.82	17	0.90	10	0.134	0.076	0.059	0.13	0.20	0.35	1.99	–0.26	–4
345	104441.35-594408.6	10:44:41.36	–59:44: 8.65	0.08	0.86	14.98	16	0.90	48	0.618	0.508	0.110	0.10	0.12	0.42	1.44	–0.48	–1
346	104441.46-594244.1	10:44:41.46	–59:42:44.14	0.18	1.42	5.08	18	0.90	8	0.110	0.039	0.071	0.10	0.33	0.45	2.96	–0.42	–1
347	104441.53-595031.9	10:44:41.54	–59:50:31.97	0.37	6.68	4.77	280	0.90	17	0.217	0.069	0.148	0.19	0.19	0.45	1.90	–0.08	–1
348	104441.57-594208.9	10:44:41.58	–59:42: 8.93	0.13	1.93	9.06	18	0.89	22	0.290	0.191	0.098	0.11	0.13	0.64	1.45	–0.20	–1
349	104441.59-594705.1	10:44:41.59	–59:47: 5.14	0.19	3.28	6.90	35	0.90	16	0.211	0.173	0.038	0.13	0.13	0.35	1.51	–0.44	–2
350	104441.74-594254.3	10:44:41.75	–59:42:54.32	0.07	1.27	19.53	17	0.90	73	0.933	0.799	0.134	0.11	0.13	0.34	1.44	–0.49	–3
351	104441.79-594047.6	10:44:41.79	–59:40:47.69	0.07	3.20	26.97	33	0.89	147	1.893	1.336	0.557	0.11	0.13	0.38	1.49	–2.40	–3
352	104441.83-594656.3	10:44:41.84	–59:46:56.39	0.03	3.13	80.88	32	0.90	1073	13.637	12.933	0.704	0.07	0.07	0.33	1.04	–0.31	–3
353	104442.00-594023.2	10:44:42.01	–59:40:23.30	0.23	3.59	6.25	43	0.89	13	0.173	0.108	0.065	0.14	0.16	0.42	1.68	–0.17	–2
354	104442.01-594215.9	10:44:42.01	–59:42:15.92	0.09	1.80	13.08	20	0.90	46	0.593	0.509	0.084	0.12	0.12	0.33	1.41	–0.71	–2
355	104442.08-594416.8	10:44:42.08	–59:44:16.85	0.09	0.83	11.39	16	0.90	33	0.431	0.256	0.175	0.09	0.15	0.43	1.66	–0.99	–2
356	104442.19-594258.0	10:44:42.19	–59:42:58.06	0.14	1.18	6.07	17	0.90	13	0.173	0.140	0.033	0.11	0.11	0.50	1.36	–0.02	–2
357	104442.19-594243.0	10:44:42.19	–59:42:43.07	0.07	1.39	18.38	18	0.90	73	0.939	0.739	0.200	0.10	0.13	0.44	1.47	–4.00	–3
358	104442.31-594007.6	10:44:42.32	–59:40: 7.68	0.28	3.84	5.19	50	0.90	9	0.121	0.112	0.009	0.13	0.13	NaN	1.46	–0.62	–2
359	104442.35-594404.3	10:44:42.36	–59:44: 4.31	0.17	0.72	5.87	16	0.90	8	0.110	0.063	0.047	0.12	0.13	NaN	1.46	–0.39	–3
360	104442.39-594252.1	10:44:42.39	–59:42:52.12	0.19	1.25	5.00	17	0.90	7	0.089	0.084	0.006	0.07	0.08	NaN	1.11	–0.84	–4
361	104442.57-594214.6	10:44:42.58	–59:42:14.64	0.18	1.79	4.79	20	0.90	9	0.120	0.062	0.057	0.07	0.16	0.30	1.71	–0.04	–4
362	104442.68-594123.9	10:44:42.68	–59:41:23.93	0.14	2.59	8.52	25	0.89	23	0.296	0.187	0.109	0.12	0.18	0.42	1.84	–0.27	–2
363	104442.76-594532.5	10:44:42.76	–59:45:32.59	0.25	1.76	4.61	20	0.90	4	0.054	0.046	0.008	0.09	0.10	NaN	1.22	–1.33	–1
364	104442.86-594353.6	10:44:42.86	–59:43:53.68	0.12	0.64	8.71	15	0.90	18	0.237	0.217	0.020	0.08	0.08	0.35	1.09	–0.15	–4

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
365	104442.88-594645.4	10:44:42.88	–59:46:45.42	0.22	2.92	5.58	29	0.90	10	0.135	0.104	0.031	0.08	0.09	0.65	1.19	–0.06	–3
366	104443.02-594017.6	10:44:43.02	–59:40:17.61	0.23	3.66	5.97	45	0.89	14	0.184	0.159	0.025	0.07	0.09	0.28	1.14	–1.86	–2
367	104443.13-594024.8	10:44:43.14	–59:40:24.85	0.24	3.54	6.08	42	0.89	12	0.162	0.108	0.054	0.13	0.13	0.41	1.50	–0.74	–2
368	104443.15-594505.7	10:44:43.15	–59:45: 5.80	0.14	1.34	7.11	17	0.90	14	0.191	0.182	0.009	0.10	0.10	NaN	1.24	–0.31	–3
369	104443.17-594217.1	10:44:43.18	–59:42:17.17	0.18	1.72	5.73	19	0.90	9	0.124	0.091	0.033	0.10	0.10	0.61	1.25	–0.12	–3
370	104443.26-594553.1	10:44:43.26	–59:45:53.15	0.08	2.07	16.63	19	0.89	57	0.742	0.456	0.286	0.11	0.16	0.37	1.66	–1.06	–2
371	104443.27-594346.7	10:44:43.28	–59:43:46.71	0.18	0.60	4.87	15	0.90	7	0.096	0.062	0.034	0.14	0.14	NaN	1.54	–0.38	–1
372	104443.35-595120.7	10:44:43.35	–59:51:20.72	0.36	7.46	4.92	103	0.57	22	0.445	0.195	0.250	0.16	0.20	0.34	1.99	–0.07	–1
373	104443.40-594729.4	10:44:43.41	–59:47:29.45	0.28	3.63	5.09	44	0.90	6	0.089	0.075	0.014	0.12	0.12	0.36	1.39	–0.12	–4
374	104443.42-594451.0	10:44:43.42	–59:44:51.02	0.19	1.10	5.22	16	0.90	7	0.090	0.092	0.003	0.15	0.15	NaN	1.65	–0.39	–1
375	104443.54-594132.6	10:44:43.55	–59:41:32.66	0.13	2.42	9.61	25	0.90	26	0.334	0.240	0.094	0.11	0.15	0.33	1.62	–0.07	–2
376	104443.58-594718.2	10:44:43.59	–59:47:18.21	0.15	3.44	10.79	39	0.89	32	0.416	0.340	0.076	0.10	0.10	0.43	1.27	–3.53	–2
377	104443.63-594538.3	10:44:43.64	–59:45:38.31	0.17	1.82	5.90	20	0.90	10	0.138	0.094	0.044	0.11	0.11	0.51	1.34	–1.31	–3
378	104443.89-594114.5	10:44:43.89	–59:41:14.53	0.12	2.71	10.15	26	0.89	36	0.466	0.321	0.146	0.11	0.15	0.34	1.66	–0.56	–1
379	104443.95-593955.7	10:44:43.96	–59:39:55.72	0.13	4.01	16.07	55	0.90	66	0.842	0.521	0.321	0.12	0.15	0.38	1.60	–3.37	–2
380	104444.01-594201.0	10:44:44.01	–59:42: 1.07	0.20	1.95	4.74	18	0.89	7	0.097	0.079	0.018	0.11	0.13	0.34	1.46	–0.43	–4
381	104444.04-593959.4	10:44:44.04	–59:39:59.48	0.18	3.94	6.17	23	0.74	21	0.342	0.192	0.150	0.13	0.16	0.42	1.68	–0.36	–2
382	104444.11-595124.2	10:44:44.12	–59:51:24.21	0.31	7.52	8.61	111	0.58	32	0.642	0.316	0.326	0.12	0.16	0.40	1.70	–0.88	–2
383	104444.26-594233.5	10:44:44.26	–59:42:33.51	0.08	1.42	14.59	18	0.90	49	0.635	0.526	0.110	0.10	0.11	0.39	1.35	–1.05	–3
384	104444.26-594537.5	10:44:44.26	–59:45:37.59	0.14	1.78	8.25	20	0.90	17	0.218	0.173	0.044	0.11	0.13	NaN	1.50	–0.50	–3
385	104444.27-594839.0	10:44:44.27	–59:48:39.04	0.22	4.77	8.99	89	0.89	32	0.415	0.114	0.301	0.09	0.34	0.45	3.03	–0.22	–2
386	104444.30-594424.9	10:44:44.31	–59:44:24.98	0.11	0.69	9.88	16	0.90	21	0.279	0.091	0.188	0.16	0.31	0.42	2.80	–0.11	–2
387	104444.33-593831.8	10:44:44.34	–59:38:31.85	0.37	5.39	5.21	145	0.90	16	0.210	0.111	0.099	0.15	0.17	0.33	1.79	NaN	–4
388	104444.34-594559.1	10:44:44.34	–59:45:59.16	0.09	2.13	16.41	20	0.89	53	0.689	0.556	0.133	0.11	0.11	0.42	1.32	–0.37	–3
389	104444.47-594527.9	10:44:44.47	–59:45:27.96	0.19	1.62	5.26	19	0.90	8	0.105	0.072	0.033	0.13	0.13	0.44	1.50	–0.82	–3
390	104444.62-594413.6	10:44:44.62	–59:44:13.62	0.16	0.53	5.81	15	0.90	9	0.121	0.113	0.007	0.12	0.12	0.54	1.40	–1.17	–2
391	104444.90-594559.4	10:44:44.90	–59:45:59.42	0.14	2.12	7.88	20	0.89	18	0.242	0.236	0.006	0.11	0.11	0.58	1.30	–0.19	–3
392	104445.34-593919.2	10:44:45.34	–59:39:19.29	0.19	4.59	11.39	90	0.91	46	0.583	0.520	0.063	0.11	0.12	0.50	1.37	–0.22	–3
393	104445.42-593611.6	10:44:45.42	–59:36:11.61	0.40	7.72	5.42	239	0.73	31	0.488	0.341	0.147	0.12	0.15	0.38	1.63	–0.17	–4
394	104445.50-594035.4	10:44:45.51	–59:40:35.46	0.29	3.33	5.19	36	0.89	7	0.100	0.081	0.019	0.10	0.13	NaN	1.44	NaN	–1
395	104445.67-594737.5	10:44:45.68	–59:47:37.59	0.16	3.73	11.42	48	0.90	36	0.470	0.116	0.355	0.16	0.35	0.45	3.10	–1.03	–2
396	104445.95-594520.9	10:44:45.95	–59:45:20.98	0.13	1.47	10.10	18	0.90	19	0.254	0.219	0.035	0.11	0.12	0.32	1.38	–0.59	–3
397	104446.02-594659.3	10:44:46.02	–59:46:59.33	0.18	3.09	6.93	32	0.90	19	0.246	0.190	0.056	0.10	0.16	0.93	1.72	–1.58	–2
398	104446.02-594608.5	10:44:46.03	–59:46: 8.59	0.15	2.25	8.53	21	0.89	18	0.237	0.165	0.073	0.10	0.11	0.36	1.33	–2.46	–3
399	104446.17-594228.9	10:44:46.17	–59:42:28.98	0.24	1.44	4.91	18	0.90	5	0.070	0.072	0.002	0.08	0.08	NaN	1.11	NaN	–1
400	104446.23-594449.1	10:44:46.24	–59:44:49.19	0.08	0.94	15.14	16	0.90	44	0.569	0.481	0.088	0.11	0.12	0.59	1.37	–0.82	–3
401	104446.35-593604.0	10:44:46.36	–59:36: 4.07	0.32	7.84	11.56	499	0.90	81	1.042	0.778	0.264	0.11	0.14	0.46	1.52	–4.00	–3
402	104446.46-594130.7	10:44:46.46	–59:41:30.78	0.19	2.40	7.32	22	0.89	11	0.153	0.018	0.136	0.15	0.34	0.35	3.08	–1.45	–2
403	104446.69-593901.3	10:44:46.70	–59:39: 1.39	0.20	4.88	11.97	94	0.89	42	0.550	0.304	0.246	0.09	0.17	0.38	1.79	–4.00	–2
404	104446.99-594326.4	10:44:47.00	–59:43:26.43	0.13	0.48	7.94	15	0.90	16	0.211	0.174	0.037	0.12	0.12	0.32	1.41	–1.29	–3
405	104447.06-593812.0	10:44:47.07	–59:38:12.08	0.30	5.70	6.53	170	0.90	27	0.348	0.130	0.217	0.12	0.22	0.60	2.12	–1.35	–2
406	104447.30-594116.4	10:44:47.30	–59:41:16.44	0.09	2.63	14.71	25	0.89	66	0.856	0.483	0.374	0.12	0.16	0.47	1.72	–0.36	–2
407	104447.34-594353.2	10:44:47.34	–59:43:53.30	0.04	0.08	36.79	15	0.90	204	2.609	2.548	0.061	0.06	0.07	NaN	1.00	–0.23	–3
408	104447.43-593507.8	10:44:47.43	–59:35: 7.81	0.52	8.77	8.03	994	0.90	51	0.663	0.671	0.008	0.09	0.10	NaN	1.24	–0.25	–3
409	104447.43-594011.6	10:44:47.43	–59:40:11.65	0.16	3.71	11.12	46	0.89	33	0.433	0.021	0.412	0.01	0.41	0.46	3.55	–0.08	–2
410	104447.45-594046.0	10:44:47.45	–59:40:46.01	0.21	3.14	5.00	32	0.89	12	0.154	0.118	0.036	0.10	0.11	0.38	1.33	–0.11	–2
411	104447.79-594638.3	10:44:47.80	–59:46:38.31	0.16	2.74	8.01	27	0.90	19	0.251	0.203	0.048	0.08	0.09	0.32	1.14	NaN	–3
412	104447.80-594717.7	10:44:47.81	–59:47:17.73	0.17	3.39	9.36	38	0.89	26	0.336	0.214	0.123	0.13	0.15	0.33	1.62	NaN	–2

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
413	104447.80-594606.6	10:44:47.81	–59:46: 6.66	0.13	2.21	10.54	21	0.89	23	0.299	0.224	0.075	0.11	0.13	0.35	1.47	–0.61	–2
414	104447.82-594632.5	10:44:47.82	–59:46:32.59	0.15	2.64	9.39	26	0.89	24	0.308	0.246	0.062	0.10	0.12	0.48	1.40	–0.39	–2
415	104447.93-594539.4	10:44:47.94	–59:45:39.46	0.15	1.75	6.39	17	0.89	14	0.183	0.146	0.037	0.09	0.10	0.42	1.26	–1.93	–3
416	104448.00-594309.2	10:44:48.01	–59:43: 9.27	0.12	0.75	8.58	16	0.90	19	0.248	0.225	0.024	0.12	0.13	0.57	1.47	–0.67	–3
417	104448.40-594114.0	10:44:48.40	–59:41:14.09	0.07	2.67	21.35	25	0.89	106	1.374	0.975	0.398	0.11	0.13	0.40	1.47	–0.23	–3
418	104448.92-593823.3	10:44:48.92	–59:38:23.38	0.38	5.52	5.11	153	0.90	11	0.148	0.049	0.098	0.12	0.24	0.45	2.30	–1.39	–1
419	104449.00-594343.5	10:44:49.00	–59:43:43.58	0.05	0.22	23.60	15	0.90	123	1.574	1.209	0.365	0.11	0.13	0.35	1.45	–0.47	–3
420	104449.04-594044.7	10:44:49.04	–59:40:44.76	0.11	3.16	14.35	32	0.89	50	0.645	0.408	0.237	0.12	0.16	0.41	1.67	–0.07	–2
421	104449.09-594135.0	10:44:49.09	–59:41:35.09	0.24	2.32	4.87	24	0.90	5	0.073	0.034	0.039	0.13	0.25	0.64	2.38	–1.42	–1
422	104449.16-594422.2	10:44:49.16	–59:44:22.28	0.20	0.49	4.61	15	0.90	5	0.069	0.048	0.021	0.10	0.10	0.47	1.29	–0.13	–1
423	104449.22-594558.3	10:44:49.22	–59:45:58.38	0.24	2.08	4.98	19	0.89	5	0.068	0.060	0.008	0.09	0.09	NaN	1.17	–3.07	–1
424	104449.26-594733.3	10:44:49.27	–59:47:33.34	0.18	3.66	9.06	45	0.90	28	0.360	0.254	0.107	0.12	0.17	0.35	1.74	–0.37	–2
425	104449.27-594040.5	10:44:49.27	–59:40:40.50	0.14	3.23	7.01	33	0.89	30	0.397	0.286	0.111	0.13	0.15	0.54	1.61	–4.00	–1
426	104449.43-593957.8	10:44:49.43	–59:39:57.89	0.24	3.94	6.56	52	0.90	16	0.207	0.148	0.058	0.13	0.15	0.61	1.63	–0.13	–2
427	104449.46-594741.0	10:44:49.46	–59:47:41.01	0.13	3.78	12.62	11	0.57	25	0.509	0.351	0.158	0.14	0.16	0.39	1.69	–3.27	–2
428	104449.66-594740.4	10:44:49.67	–59:47:40.46	0.20	3.78	5.45	11	0.57	10	0.205	0.107	0.098	0.14	0.17	0.44	1.80	–2.15	–2
429	104449.69-594503.2	10:44:49.69	–59:45: 3.23	0.10	1.17	10.53	16	0.90	27	0.350	0.251	0.098	0.11	0.13	0.32	1.47	–0.40	–3
430	104449.77-594615.2	10:44:49.77	–59:46:15.26	0.12	2.36	11.53	22	0.89	27	0.354	0.193	0.162	0.11	0.18	0.35	1.84	–0.41	–2
431	104449.77-594208.1	10:44:49.78	–59:42: 8.19	0.07	1.78	18.44	17	0.89	67	0.869	0.569	0.300	0.11	0.16	0.41	1.68	–1.16	–2
432	104449.80-594727.4	10:44:49.81	–59:47:27.42	0.11	3.56	16.63	42	0.90	73	0.935	0.589	0.346	0.12	0.17	0.37	1.76	–0.09	–2
433	104449.87-594457.9	10:44:49.87	–59:44:57.98	0.16	1.09	5.55	16	0.90	9	0.124	0.089	0.035	0.12	0.12	0.33	1.41	–0.56	–2
434	104449.91-594358.1	10:44:49.91	–59:43:58.17	0.09	0.26	12.61	15	0.90	32	0.414	0.317	0.097	0.10	0.12	0.34	1.41	–1.40	–3
435	104449.91-594504.7	10:44:49.92	–59:45: 4.74	0.15	1.20	6.03	16	0.90	12	0.159	0.150	0.009	0.11	0.11	NaN	1.29	–0.93	–2
436	104450.03-593908.5	10:44:50.03	–59:39: 8.51	0.30	4.77	5.27	98	0.91	10	0.137	0.072	0.065	0.13	0.15	0.47	1.65	–0.61	–2
437	104450.08-593843.9	10:44:50.09	–59:38:43.99	0.19	5.18	14.78	124	0.91	63	0.808	0.463	0.345	0.13	0.16	0.44	1.71	–4.00	–2
438	104450.11-594442.6	10:44:50.12	–59:44:42.64	0.04	0.85	36.01	15	0.90	208	2.664	1.555	1.108	0.12	0.17	0.47	1.74	–4.00	–2
439	104450.13-594553.4	10:44:50.14	–59:45:53.49	0.07	2.01	18.11	19	0.89	66	0.849	0.532	0.317	0.11	0.16	0.37	1.72	–4.00	–2
440	104450.16-594738.6	10:44:50.16	–59:47:38.70	0.14	3.75	11.69	48	0.90	51	0.660	0.531	0.129	0.11	0.14	0.38	1.57	–0.29	–2
441	104450.16-594523.5	10:44:50.17	–59:45:23.58	0.07	1.52	21.53	18	0.90	76	0.970	0.770	0.201	0.10	0.12	0.36	1.36	–0.09	–3
442	104450.18-593656.8	10:44:50.18	–59:36:56.86	0.46	6.96	4.93	316	0.90	13	0.177	0.084	0.093	0.12	0.14	0.43	1.55	–0.91	–1
443	104450.18-594410.6	10:44:50.19	–59:44:10.68	0.16	0.40	6.34	15	0.90	9	0.118	0.086	0.033	0.09	0.09	0.40	1.20	–0.07	–2
444	104450.25-594715.0	10:44:50.26	–59:47:15.09	0.21	3.36	5.99	37	0.89	15	0.194	0.127	0.066	0.13	0.16	0.46	1.70	–0.67	–2
445	104450.27-594014.8	10:44:50.27	–59:40:14.82	0.19	3.67	4.60	6	0.40	5	0.161	0.144	0.017	0.11	0.11	NaN	1.34	–0.24	–1
446	104450.37-594017.4	10:44:50.37	–59:40:17.45	0.09	3.63	21.01	42	0.89	104	1.349	0.744	0.605	0.13	0.17	0.44	1.76	–0.27	–2
447	104450.47-594540.7	10:44:50.47	–59:45:40.77	0.05	1.80	30.41	18	0.89	167	2.152	1.308	0.845	0.11	0.16	0.45	1.70	–4.00	–3
448	104450.82-594527.6	10:44:50.82	–59:45:27.67	0.09	1.60	14.66	19	0.90	44	0.562	0.452	0.111	0.13	0.14	0.38	1.53	–1.50	–2
449	104450.84-594442.9	10:44:50.84	–59:44:42.90	0.07	0.89	17.25	16	0.90	63	0.813	0.599	0.214	0.12	0.15	0.46	1.64	–1.85	–3
450	104450.85-593633.5	10:44:50.85	–59:36:33.60	0.23	7.35	19.30	408	0.90	136	1.727	1.091	0.635	0.12	0.16	0.35	1.73	–3.19	–3
451	104450.93-594435.5	10:44:50.93	–59:44:35.51	0.13	0.79	7.83	15	0.90	16	0.212	0.151	0.061	0.07	0.11	0.38	1.34	–0.19	–3
452	104451.03-594349.4	10:44:51.04	–59:43:49.45	0.17	0.40	5.48	15	0.90	8	0.105	0.084	0.021	0.08	0.11	0.77	1.33	–1.97	–1
453	104451.13-593938.3	10:44:51.14	–59:39:38.31	0.15	4.28	14.04	63	0.89	51	0.660	0.416	0.244	0.14	0.18	0.44	1.86	–0.19	–2
454	104451.14-594425.1	10:44:51.15	–59:44:25.17	0.14	0.66	6.62	15	0.90	12	0.160	0.151	0.009	0.12	0.13	0.31	1.49	–2.49	–3
455	104451.23-594743.1	10:44:51.23	–59:47:43.15	0.33	3.84	4.84	50	0.90	5	0.071	0.066	0.004	0.10	0.10	NaN	1.27	–0.90	–4
456	104451.30-594438.6	10:44:51.30	–59:44:38.61	0.18	0.85	5.76	16	0.90	7	0.096	0.048	0.048	0.08	0.16	0.44	1.67	–1.39	–2
457	104451.36-594838.3	10:44:51.36	–59:48:38.31	0.26	4.75	5.62	87	0.90	19	0.251	0.214	0.037	0.10	0.10	NaN	1.25	–0.50	–3
458	104451.37-594406.8	10:44:51.38	–59:44: 6.85	0.07	0.48	16.04	15	0.90	53	0.682	0.521	0.162	0.11	0.13	0.36	1.49	–0.11	–2

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log (P_{ks})	id
459	104451.51-594454.0	10:44:51.51	–59:44:54.07	0.07	1.09	16.63	16	0.90	61	0.786	0.037	0.749	0.17	0.43	0.45	3.71	–0.73	–2
460	104451.51-594259.7	10:44:51.51	–59:42:59.80	0.16	1.01	6.23	16	0.90	10	0.137	0.104	0.033	0.10	0.15	0.34	1.60	–0.80	–2
461	104451.76-595029.1	10:44:51.76	–59:50:29.18	0.37	6.60	5.70	276	0.90	18	0.236	0.103	0.133	0.10	0.10	0.44	1.25	–0.74	–1
462	104451.80-594305.1	10:44:51.80	–59:43: 5.18	0.14	0.95	7.24	16	0.90	15	0.194	0.134	0.061	0.11	0.13	0.30	1.47	–2.49	–2
463	104451.85-595135.0	10:44:51.86	–59:51:35.10	0.49	7.70	6.37	529	0.89	7	0.100	0.001	0.099	0.09	0.07	0.37	0.99	–0.37	–1
464	104451.96-594636.1	10:44:51.96	–59:46:36.18	0.21	2.75	5.21	27	0.90	9	0.126	0.059	0.067	0.16	0.19	0.34	1.91	–0.82	–1
465	104452.03-594506.4	10:44:52.03	–59:45: 6.47	0.17	1.31	6.02	17	0.90	9	0.119	0.059	0.060	0.11	0.19	0.33	1.93	–0.59	–2
466	104452.08-594451.9	10:44:52.09	–59:44:51.98	0.19	1.10	4.89	16	0.90	6	0.084	0.002	0.086	0.27	0.47	NaN	4.01	–1.34	–1
467	104452.19-594515.1	10:44:52.20	–59:45:15.12	0.10	1.45	13.27	18	0.90	33	0.422	0.362	0.060	0.13	0.13	0.40	1.50	–0.04	–3
468	104452.26-594155.1	10:44:52.27	–59:41:55.18	0.03	2.06	49.47	18	0.89	435	5.586	2.784	2.802	0.13	0.20	0.44	2.01	–4.00	–4
469	104452.46-594130.1	10:44:52.46	–59:41:30.11	0.13	2.47	10.33	22	0.89	25	0.330	0.316	0.014	0.07	0.07	0.35	1.03	–0.42	–3
470	104452.54-594200.0	10:44:52.54	–59:42: 0.03	0.08	1.99	13.99	18	0.89	49	0.632	0.488	0.145	0.09	0.11	0.37	1.33	–0.60	–1
471	104452.67-594327.4	10:44:52.67	–59:43:27.44	0.18	0.75	5.06	15	0.90	7	0.093	0.099	0.006	0.11	0.11	NaN	1.30	–1.13	–2
472	104452.69-595123.3	10:44:52.70	–59:51:23.37	0.32	7.51	10.03	465	0.89	52	0.667	0.111	0.556	0.17	0.21	0.48	2.09	–0.83	–2
473	104452.78-594319.0	10:44:52.79	–59:43:19.08	0.07	0.85	15.31	16	0.90	53	0.677	0.412	0.265	0.11	0.16	0.43	1.73	–1.76	–3
474	104452.90-594634.2	10:44:52.90	–59:46:34.28	0.19	2.74	5.44	27	0.90	12	0.159	0.115	0.044	0.10	0.12	0.37	1.40	–0.46	–3
475	104453.04-594733.2	10:44:53.05	–59:47:33.23	0.32	3.71	6.59	46	0.90	5	0.071	0.054	0.016	0.10	0.11	0.40	1.32	–0.94	–2
476	104453.10-594039.6	10:44:53.10	–59:40:39.62	0.15	3.31	8.97	33	0.89	26	0.345	0.269	0.076	0.13	0.15	0.35	1.61	–0.16	–3
477	104453.23-594136.0	10:44:53.24	–59:41:36.05	0.13	2.40	9.99	21	0.89	24	0.319	0.291	0.028	0.07	0.07	0.45	1.06	–1.73	–3
478	104453.27-594000.9	10:44:53.28	–59:40: 0.91	0.21	3.95	6.62	50	0.90	17	0.230	0.140	0.090	0.11	0.15	0.68	1.63	–0.91	–2
479	104453.41-594353.1	10:44:53.41	–59:43:53.16	0.12	0.69	7.95	15	0.90	16	0.207	0.186	0.021	0.10	0.10	0.70	1.25	–0.02	–2
480	104453.41-593531.8	10:44:53.42	–59:35:31.87	0.52	8.40	6.15	794	0.90	27	0.354	0.213	0.141	0.08	0.14	0.35	1.52	–4.00	–3
481	104453.54-594145.1	10:44:53.54	–59:41:45.19	0.12	2.26	9.42	19	0.89	25	0.332	0.150	0.182	0.12	0.20	0.46	2.03	–1.48	–2
482	104453.73-594324.1	10:44:53.74	–59:43:24.16	0.07	0.89	19.25	16	0.90	64	0.827	0.589	0.238	0.10	0.14	0.36	1.52	–0.62	–3
483	104453.74-594425.8	10:44:53.75	–59:44:25.83	0.19	0.90	5.24	16	0.90	6	0.082	0.086	0.004	0.14	0.14	NaN	1.54	–0.12	–2
484	104453.80-594234.2	10:44:53.81	–59:42:34.26	0.15	1.52	6.42	17	0.90	12	0.162	0.118	0.045	0.09	0.13	0.80	1.50	–0.22	–3
485	104453.88-594314.0	10:44:53.88	–59:43:14.05	0.14	1.01	7.26	16	0.90	15	0.196	0.185	0.010	0.07	0.07	NaN	1.00	NaN	–3
486	104453.96-594523.8	10:44:53.96	–59:45:23.88	0.10	1.68	12.23	19	0.90	32	0.409	0.337	0.072	0.10	0.11	0.29	1.32	–1.04	–2
487	104454.01-594152.4	10:44:54.01	–59:41:52.48	0.16	2.17	6.64	18	0.89	12	0.164	0.151	0.013	0.08	0.09	0.30	1.20	–0.12	–3
488	104454.08-594443.7	10:44:54.09	–59:44:43.73	0.19	1.13	6.16	16	0.90	6	0.078	0.085	0.007	0.08	0.08	NaN	1.10	–1.21	–3
489	104454.08-594129.3	10:44:54.09	–59:41:29.35	0.05	2.54	27.53	22	0.89	159	2.058	1.458	0.601	0.11	0.14	0.43	1.52	–4.00	–3
490	104454.16-594028.1	10:44:54.17	–59:40:28.16	0.17	3.52	8.77	42	0.90	22	0.289	0.231	0.058	0.13	0.14	0.55	1.57	–1.85	–2
491	104454.22-594536.9	10:44:54.22	–59:45:36.90	0.08	1.89	16.20	18	0.89	52	0.671	0.431	0.240	0.12	0.16	0.44	1.71	–1.32	–2
492	104454.32-594533.4	10:44:54.33	–59:45:33.47	0.20	1.84	5.68	18	0.89	7	0.093	0.097	0.004	0.07	0.07	NaN	1.04	–0.01	–3
493	104454.37-594658.8	10:44:54.37	–59:46:58.90	0.37	3.18	4.68	33	0.90	1	0.018	0.015	0.003	0.11	0.06	NaN	0.93	–0.21	–1
494	104454.38-594355.3	10:44:54.39	–59:43:55.34	0.16	0.81	6.61	15	0.90	9	0.119	0.086	0.034	0.08	0.09	0.44	1.16	–0.26	–2
495	104454.40-593925.1	10:44:54.41	–59:39:25.11	0.16	4.56	14.75	81	0.91	54	0.689	0.415	0.274	0.14	0.16	0.37	1.72	–1.58	–2
496	104454.41-594423.7	10:44:54.42	–59:44:23.79	0.06	0.95	18.37	16	0.90	75	0.960	0.710	0.250	0.11	0.13	0.52	1.44	–0.63	–3
497	104454.51-594243.1	10:44:54.52	–59:42:43.11	0.07	1.45	18.51	17	0.90	63	0.810	0.638	0.171	0.11	0.12	0.33	1.43	–0.09	–3
498	104454.68-594443.4	10:44:54.69	–59:44:43.49	0.16	1.18	5.52	16	0.90	10	0.129	0.111	0.018	0.10	0.11	NaN	1.35	–0.80	–3
499	104454.71-594923.5	10:44:54.71	–59:49:23.55	0.22	5.55	10.34	154	0.90	52	0.671	0.299	0.372	0.15	0.20	0.33	2.01	–0.63	–2
500	104454.75-594339.1	10:44:54.75	–59:43:39.18	0.11	0.90	8.92	15	0.90	20	0.261	0.229	0.033	0.11	0.13	0.53	1.46	–0.03	–3
501	104454.76-593600.1	10:44:54.76	–59:36: 0.12	0.45	7.95	6.20	496	0.89	29	0.382	0.392	0.010	0.10	0.10	NaN	1.28	–0.06	–1
502	104454.77-594134.8	10:44:54.78	–59:41:34.86	0.15	2.48	6.80	21	0.89	16	0.208	0.158	0.050	0.10	0.11	0.58	1.31	–0.51	–3
503	104454.85-594351.5	10:44:54.86	–59:43:51.57	0.02	0.87	57.24	15	0.90	474	6.054	3.978	2.075	0.12	0.15	0.40	1.62	–4.00	–3
504	104454.96-594545.3	10:44:54.96	–59:45:45.37	0.14	2.05	7.32	19	0.89	19	0.246	0.174	0.072	0.12	0.14	0.30	1.58	–0.13	–3
505	104455.00-594257.5	10:44:55.00	–59:42:57.57	0.21	1.30	5.21	16	0.90	5	0.071	0.053	0.018	0.07	0.10	0.44	1.27	–1.46	–3
506	104455.01-594542.8	10:44:55.02	–59:45:42.86	0.20	2.02	7.08	19	0.89	8	0.105	0.071	0.035	0.05	0.09	0.38	1.16	–2.36	–3
507	104455.12-594824.4	10:44:55.12	–59:48:24.42	0.11	4.59	23.40	75	0.89	122	1.578	1.052	0.527	0.13	0.16	0.38	1.68	–0.21	–2

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
508	104455.25-594226.4	10:44:55.25	–59:42:26.41	0.14	1.73	7.52	16	0.89	15	0.202	0.131	0.071	0.14	0.18	0.33	1.86	–1.75	–2
509	104455.31-594648.5	10:44:55.32	–59:46:48.54	0.14	3.05	9.73	30	0.90	28	0.360	0.331	0.029	0.08	0.08	0.58	1.07	–0.01	–1
510	104455.39-594629.6	10:44:55.39	–59:46:29.64	0.18	2.76	6.51	26	0.90	14	0.191	0.146	0.045	0.10	0.11	0.39	1.31	–0.55	–2
511	104455.42-594609.9	10:44:55.42	–59:46: 9.93	0.20	2.45	6.09	23	0.89	9	0.123	0.092	0.030	0.13	0.17	0.29	1.76	–0.18	–3
512	104455.45-594751.9	10:44:55.45	–59:47:51.91	0.24	4.07	6.11	55	0.91	15	0.191	0.006	0.197	0.37	0.40	NaN	3.49	–0.16	–2
513	104455.45-594453.4	10:44:55.46	–59:44:53.46	0.05	1.37	22.62	17	0.90	107	1.365	1.053	0.312	0.12	0.13	0.41	1.49	–0.59	–3
514	104455.91-594229.3	10:44:55.92	–59:42:29.37	0.15	1.74	7.28	16	0.89	13	0.171	0.141	0.029	0.06	0.09	NaN	1.15	–0.44	–3
515	104455.98-594447.8	10:44:55.99	–59:44:47.88	0.13	1.35	8.90	16	0.90	15	0.194	0.163	0.032	0.09	0.11	0.59	1.32	–0.12	–2
516	104456.00-594129.6	10:44:56.00	–59:41:29.64	0.15	2.62	8.64	23	0.89	16	0.216	0.169	0.047	0.10	0.11	0.27	1.35	–0.58	–3
517	104456.07-594554.5	10:44:56.07	–59:45:54.53	0.16	2.25	7.21	20	0.89	13	0.174	0.104	0.070	0.13	0.14	0.31	1.58	–0.43	–2
518	104456.12-595039.6	10:44:56.12	–59:50:39.67	0.30	6.84	9.15	303	0.90	43	0.550	0.385	0.165	0.13	0.14	0.43	1.52	–0.39	–2
519	104456.14-594840.1	10:44:56.14	–59:48:40.14	0.19	4.88	10.00	89	0.89	42	0.540	0.153	0.387	0.13	0.24	0.39	2.32	–0.03	–2
520	104456.16-594600.1	10:44:56.17	–59:46: 0.14	0.15	2.34	7.11	21	0.89	16	0.213	0.154	0.058	0.07	0.10	0.32	1.26	–0.96	–3
521	104456.18-594538.2	10:44:56.18	–59:45:38.20	0.09	2.02	16.50	19	0.89	50	0.644	0.571	0.073	0.11	0.12	0.67	1.41	–0.06	–3
522	104456.20-594813.7	10:44:56.21	–59:48:13.77	0.23	4.45	6.30	67	0.89	21	0.272	0.197	0.074	0.15	0.15	0.44	1.60	–0.11	–2
523	104456.20-594647.3	10:44:56.21	–59:46:47.34	0.08	3.07	20.92	30	0.90	91	1.167	0.515	0.653	0.13	0.24	0.37	2.32	–4.00	–2
524	104456.29-593830.7	10:44:56.29	–59:38:30.74	0.05	5.49	88.34	142	0.90	1367	17.369	8.133	9.236	0.13	0.21	0.44	2.10	–4.00	–3
525	104456.37-594139.4	10:44:56.37	–59:41:39.42	0.14	2.49	7.97	21	0.89	19	0.256	0.187	0.069	0.12	0.13	0.40	1.50	–2.04	–2
526	104456.46-594535.3	10:44:56.47	–59:45:35.36	0.06	2.00	24.74	18	0.89	103	1.335	0.877	0.458	0.12	0.16	0.36	1.67	–1.25	–2
527	104456.65-594003.7	10:44:56.65	–59:40: 3.80	0.17	3.99	8.73	50	0.89	29	0.381	0.311	0.070	0.12	0.13	0.32	1.44	–0.18	–2
528	104456.82-594054.8	10:44:56.83	–59:40:54.85	0.21	3.19	5.12	30	0.90	7	0.092	0.075	0.017	0.15	0.19	NaN	1.94	–0.78	–3
529	104456.85-594418.0	10:44:56.85	–59:44:18.05	0.13	1.19	7.84	16	0.90	17	0.218	0.148	0.070	0.12	0.13	0.56	1.48	–0.83	–3
530	104456.85-594243.7	10:44:56.85	–59:42:43.71	0.17	1.63	5.47	18	0.90	9	0.120	0.101	0.019	0.11	0.12	0.36	1.37	–0.73	–4
531	104456.90-594145.3	10:44:56.91	–59:41:45.34	0.05	2.43	27.62	21	0.89	148	1.913	1.524	0.389	0.11	0.13	0.36	1.47	–1.00	–3
532	104456.96-594513.9	10:44:56.97	–59:45:13.94	0.15	1.75	7.86	19	0.90	12	0.158	0.126	0.032	0.09	0.10	0.30	1.29	–0.40	–2
533	104457.04-594315.6	10:44:57.04	–59:43:15.69	0.20	1.32	5.11	17	0.90	7	0.092	0.070	0.022	0.09	0.20	0.43	1.97	–0.21	–1
534	104457.05-593827.0	10:44:57.05	–59:38:27.02	0.12	5.57	18.68	61	0.74	121	1.882	1.755	0.128	0.07	0.08	0.61	1.08	–1.92	–3
535	104457.08-594500.0	10:44:57.08	–59:45: 0.03	0.09	1.59	13.91	18	0.90	38	0.494	0.399	0.095	0.12	0.12	0.36	1.43	–0.02	–3
536	104457.20-594256.4	10:44:57.21	–59:42:56.40	0.16	1.52	6.31	17	0.90	10	0.140	0.099	0.041	0.14	0.16	0.57	1.70	–0.18	–3
537	104457.27-594123.5	10:44:57.28	–59:41:23.57	0.07	2.77	19.87	25	0.89	104	1.346	1.010	0.336	0.10	0.13	0.44	1.51	–0.09	–3
538	104457.33-594312.0	10:44:57.33	–59:43:12.05	0.13	1.38	8.78	17	0.90	18	0.231	0.185	0.047	0.07	0.08	0.30	1.07	NaN	–3
539	104457.33-594036.0	10:44:57.33	–59:40:36.08	0.23	3.51	4.95	36	0.89	9	0.128	0.089	0.039	0.11	0.15	NaN	1.65	–0.13	–4
540	104457.42-594918.4	10:44:57.43	–59:49:18.49	0.23	5.54	8.54	147	0.90	41	0.532	0.247	0.285	0.13	0.18	0.39	1.85	–1.21	–4
541	104457.46-594526.6	10:44:57.47	–59:45:26.60	0.17	1.95	6.52	18	0.89	10	0.137	0.102	0.035	0.11	0.12	0.42	1.42	–2.20	–3
542	104457.50-594200.6	10:44:57.50	–59:42: 0.63	0.09	2.24	15.01	19	0.89	51	0.665	0.407	0.258	0.10	0.16	0.42	1.73	–0.32	–3
543	104457.53-594832.1	10:44:57.54	–59:48:32.19	0.22	4.79	8.33	82	0.89	28	0.365	0.203	0.161	0.14	0.18	0.39	1.85	–0.27	–4
544	104457.55-594450.1	10:44:57.55	–59:44:50.17	0.18	1.53	4.88	17	0.90	8	0.104	0.110	0.006	0.09	0.09	NaN	1.18	–0.14	–4
545	104457.66-594822.5	10:44:57.66	–59:48:22.53	0.31	4.64	4.67	74	0.89	10	0.134	0.039	0.095	0.17	0.23	0.49	2.22	–1.91	–1
546	104457.70-594518.4	10:44:57.70	–59:45:18.49	0.11	1.87	10.54	20	0.90	29	0.378	0.180	0.198	0.13	0.22	0.36	2.16	–0.24	–2
547	104457.71-594215.2	10:44:57.71	–59:42:15.23	0.07	2.06	17.95	18	0.89	66	0.852	0.541	0.311	0.13	0.17	0.41	1.79	–1.33	–3
548	104457.74-594723.5	10:44:57.74	–59:47:23.52	0.20	3.70	7.46	43	0.89	19	0.249	0.199	0.050	0.13	0.14	0.28	1.58	–0.33	–2
549	104457.76-593754.6	10:44:57.76	–59:37:54.65	0.31	6.12	7.58	194	0.90	30	0.391	0.232	0.159	0.11	0.16	0.36	1.69	–4.00	–2
550	104457.77-594715.6	10:44:57.78	–59:47:15.69	0.16	3.58	8.50	40	0.89	28	0.361	0.271	0.090	0.12	0.14	0.58	1.52	–0.25	–2
551	104457.93-593959.8	10:44:57.93	–59:39:59.89	0.16	4.10	10.49	53	0.89	39	0.508	0.478	0.030	0.10	0.10	0.62	1.28	–0.36	–2
552	104458.05-594709.3	10:44:58.06	–59:47: 9.31	0.07	3.49	26.70	38	0.89	155	1.995	1.420	0.575	0.12	0.15	0.40	1.65	–2.63	–2
553	104458.05-594224.2	10:44:58.06	–59:42:24.28	0.07	1.97	18.52	18	0.89	66	0.855	0.593	0.261	0.11	0.14	0.37	1.54	–0.05	–3

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
554	104458.07-594628.1	10:44:58.07	–59:46:28.16	0.13	2.87	10.38	27	0.90	30	0.385	0.339	0.046	0.10	0.10	NaN	1.28	–0.41	–2
555	104458.16-594249.7	10:44:58.16	–59:42:49.76	0.09	1.68	12.63	16	0.89	35	0.463	0.357	0.107	0.10	0.12	0.38	1.40	–0.54	–2
556	104458.16-594545.8	10:44:58.17	–59:45:45.87	0.23	2.26	4.84	21	0.89	5	0.076	0.043	0.034	0.06	0.08	0.35	1.12	–0.36	–1
557	104458.20-594839.8	10:44:58.20	–59:48:39.86	0.33	4.93	4.82	90	0.89	7	0.102	0.070	0.033	0.12	0.12	0.37	1.41	–0.00	–2
558	104458.43-593943.5	10:44:58.44	–59:39:43.57	0.19	4.38	9.67	63	0.89	32	0.421	0.397	0.024	0.10	0.11	0.64	1.32	–0.71	–2
559	104458.48-594625.3	10:44:58.49	–59:46:25.35	0.13	2.85	11.85	27	0.89	33	0.423	0.300	0.123	0.10	0.13	0.31	1.48	–0.22	–2
560	104458.52-594410.6	10:44:58.52	–59:44:10.67	0.17	1.36	6.16	17	0.90	9	0.115	0.096	0.019	0.12	0.12	0.39	1.39	–0.43	–3
561	104458.58-594351.4	10:44:58.58	–59:43:51.47	0.16	1.34	5.67	17	0.90	10	0.133	0.002	0.135	0.50	0.50	NaN	4.29	–0.74	–2
562	104458.63-594245.9	10:44:58.63	–59:42:45.97	0.11	1.76	11.28	17	0.89	28	0.365	0.295	0.070	0.11	0.11	0.32	1.36	–0.46	–3
563	104458.64-594039.3	10:44:58.64	–59:40:39.33	0.10	3.52	12.15	9	0.58	27	0.548	0.453	0.095	0.10	0.11	0.44	1.33	–0.09	–2
564	104458.65-595023.1	10:44:58.65	–59:50:23.14	0.14	6.62	31.45	263	0.90	251	3.210	1.174	2.036	0.13	0.27	0.41	2.49	–4.00	–2
565	104458.72-594241.3	10:44:58.73	–59:42:41.35	0.12	1.82	8.05	19	0.90	24	0.307	0.239	0.068	0.09	0.11	0.35	1.34	–0.42	–2
566	104458.76-594002.4	10:44:58.76	–59:40: 2.49	0.25	4.10	5.88	52	0.89	10	0.132	0.103	0.029	0.15	0.16	NaN	1.70	–2.73	–1
567	104458.89-593638.5	10:44:58.89	–59:36:38.54	0.37	7.39	8.51	390	0.90	41	0.532	0.313	0.219	0.07	0.15	0.39	1.65	–4.00	–1
568	104459.18-594410.3	10:44:59.19	–59:44:10.30	0.13	1.44	7.77	18	0.90	19	0.243	0.185	0.059	0.07	0.07	0.37	1.04	–0.28	–3
569	104459.31-594459.4	10:44:59.32	–59:44:59.42	0.07	1.80	20.04	19	0.90	79	1.005	0.756	0.249	0.12	0.13	0.35	1.47	–0.59	–2
570	104459.32-593937.4	10:44:59.33	–59:39:37.40	0.28	4.52	4.85	68	0.89	12	0.161	0.141	0.020	0.10	0.11	0.51	1.33	–0.02	–2
571	104459.36-594147.1	10:44:59.36	–59:41:47.11	0.20	2.56	4.71	22	0.89	6	0.084	0.042	0.042	0.12	0.26	0.84	2.44	–0.22	–1
572	104459.44-594000.7	10:44:59.45	–59:40: 0.76	0.14	4.15	13.55	54	0.89	53	0.690	0.416	0.274	0.11	0.14	0.39	1.54	–0.63	–2
573	104459.46-594650.2	10:44:59.47	–59:46:50.21	0.14	3.27	10.77	33	0.90	31	0.404	0.323	0.081	0.13	0.14	0.35	1.53	–0.05	–3
574	104459.56-594615.7	10:44:59.56	–59:46:15.78	0.24	2.78	4.74	12	0.73	5	0.079	0.050	0.029	0.16	0.18	0.72	1.88	–0.91	–1
575	104459.60-594218.9	10:44:59.60	–59:42:18.98	0.20	2.16	4.63	19	0.89	7	0.103	0.049	0.054	0.13	0.20	0.37	2.03	–0.84	–1
576	104459.73-594613.2	10:44:59.73	–59:46:13.22	0.21	2.75	5.01	26	0.89	9	0.123	0.090	0.033	0.06	0.10	0.74	1.22	–0.84	–4
577	104459.73-594222.8	10:44:59.73	–59:42:22.87	0.13	2.13	9.25	19	0.89	21	0.273	0.242	0.031	0.07	0.07	0.44	1.04	–0.41	–3
578	104459.82-594211.4	10:44:59.83	–59:42:11.43	0.14	2.28	7.58	20	0.89	18	0.241	0.190	0.052	0.11	0.11	0.42	1.32	–0.11	–2
579	104459.88-594418.6	10:44:59.89	–59:44:18.68	0.20	1.56	5.18	18	0.90	6	0.085	0.078	0.007	0.13	0.13	NaN	1.48	–1.30	–2
580	104459.93-594314.8	10:44:59.93	–59:43:14.87	0.18	1.65	5.79	17	0.89	9	0.119	0.097	0.022	0.08	0.08	0.37	1.11	–0.31	–3
581	104500.08-594334.6	10:45: 0.09	–59:43:34.69	0.06	1.57	19.89	16	0.89	83	1.072	0.795	0.278	0.12	0.14	0.38	1.52	–1.09	–3
582	104500.13-594702.0	10:45: 0.14	–59:47: 2.00	0.20	3.49	8.03	37	0.90	16	0.210	0.128	0.082	0.13	0.15	0.41	1.64	–0.47	–3
583	104500.15-594550.1	10:45: 0.15	–59:45:50.15	0.13	2.47	9.18	22	0.89	25	0.330	0.040	0.290	0.17	0.53	0.59	4.45	–1.22	–2
584	104500.17-594403.7	10:45: 0.18	–59:44: 3.72	0.13	1.55	8.01	18	0.90	17	0.228	0.158	0.070	0.11	0.13	0.33	1.46	–0.71	–2
585	104500.22-594005.1	10:45: 0.23	–59:40: 5.13	0.14	4.12	12.89	52	0.89	52	0.671	0.570	0.101	0.12	0.14	0.42	1.53	–0.08	–3
586	104500.24-594352.8	10:45: 0.25	–59:43:52.87	0.20	1.55	5.63	16	0.89	6	0.084	0.087	0.004	0.08	0.08	NaN	1.11	–0.22	–1
587	104500.34-594339.9	10:45: 0.34	–59:43:39.99	0.07	1.58	18.07	16	0.89	66	0.853	0.640	0.213	0.12	0.14	0.44	1.51	–0.62	–2
588	104500.46-594325.2	10:45: 0.47	–59:43:25.27	0.10	1.65	12.06	17	0.89	32	0.413	0.227	0.186	0.10	0.16	0.37	1.72	–1.27	–2
589	104500.48-593937.7	10:45: 0.49	–59:39:37.72	0.18	4.56	11.16	69	0.89	38	0.498	0.419	0.079	0.09	0.11	0.47	1.34	–0.55	–3
590	104500.59-594203.2	10:45: 0.59	–59:42: 3.20	0.11	2.44	11.49	21	0.89	32	0.411	0.354	0.057	0.09	0.12	0.42	1.39	–0.10	–3
591	104500.62-594332.7	10:45: 0.63	–59:43:32.73	0.10	1.64	12.79	17	0.89	34	0.441	0.280	0.162	0.08	0.14	0.29	1.56	–0.28	–3
592	104500.63-594033.5	10:45: 0.64	–59:40:33.60	0.20	3.71	6.99	40	0.89	37	0.487	0.563	0.076	0.44	0.28	NaN	2.58	–0.27	–2
593	104500.64-594603.4	10:45: 0.64	–59:46: 3.48	0.12	2.68	11.84	25	0.89	33	0.430	0.357	0.072	0.10	0.12	0.30	1.37	–0.07	–3

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
594	104500.74-594917.3	10:45: 0.74	–59:49:17.37	0.22	5.62	10.38	152	0.90	52	0.670	0.106	0.564	0.13	0.27	0.37	2.52	–0.01	–2
595	104500.74-594450.4	10:45: 0.74	–59:44:50.47	0.16	1.87	6.91	18	0.89	12	0.156	0.136	0.020	0.11	0.11	NaN	1.35	–0.43	–2
596	104500.76-594532.5	10:45: 0.77	–59:45:32.56	0.12	2.30	10.26	21	0.89	27	0.357	0.260	0.097	0.14	0.17	0.32	1.76	–3.44	–2
597	104500.90-594245.1	10:45: 0.91	–59:42:45.10	0.13	2.00	8.46	18	0.89	21	0.272	0.217	0.055	0.10	0.11	0.50	1.34	–0.29	–3
598	104500.94-594718.4	10:45: 0.94	–59:47:18.50	0.29	3.78	4.76	45	0.89	5	0.075	0.015	0.090	0.33	0.32	NaN	2.93	–0.00	–1
599	104500.94-594016.5	10:45: 0.94	–59:40:16.51	0.17	3.98	7.46	54	0.90	26	0.336	0.239	0.097	0.08	0.10	0.50	1.29	–0.58	–4
600	104501.04-594515.5	10:45: 1.05	–59:45:15.51	0.03	2.14	55.26	20	0.89	525	6.759	6.199	0.560	0.08	0.08	0.37	1.09	–4.00	–3
601	104501.05-594601.2	10:45: 1.05	–59:46: 1.24	0.23	2.69	4.96	25	0.89	7	0.096	0.062	0.035	0.05	0.07	0.51	1.06	–0.61	–1
602	104501.09-593925.4	10:45: 1.09	–59:39:25.50	0.19	4.78	8.88	89	0.91	39	0.494	0.416	0.078	0.08	0.09	0.37	1.19	–0.04	–3
603	104501.10-593917.5	10:45: 1.10	–59:39:17.56	0.14	4.90	18.66	96	0.90	82	1.047	0.741	0.306	0.12	0.14	0.36	1.57	–0.47	–2
604	104501.12-593853.9	10:45: 1.12	–59:38:53.93	0.32	5.27	4.91	105	0.89	12	0.167	0.151	0.016	0.08	0.08	0.38	1.13	–1.08	–1
605	104501.19-594415.2	10:45: 1.19	–59:44:15.20	0.06	1.71	22.82	17	0.89	99	1.285	0.750	0.535	0.11	0.16	0.36	1.70	–4.00	–3
606	104501.23-593821.9	10:45: 1.24	–59:38:21.97	0.23	5.79	10.62	162	0.90	47	0.601	0.368	0.233	0.10	0.15	0.42	1.64	–0.48	–4
607	104501.30-594037.5	10:45: 1.30	–59:40:37.56	0.07	3.69	22.46	39	0.89	76	0.987	2.213	1.227	0.43	0.31	NaN	2.86	–0.21	–2
608	104501.47-594002.7	10:45: 1.47	–59:40: 2.72	0.21	4.22	5.29	13	0.58	9	0.181	0.078	0.102	0.18	0.28	0.38	2.59	–0.09	–3
609	104501.49-594633.9	10:45: 1.49	–59:46:33.96	0.20	3.16	6.63	32	0.90	13	0.174	0.104	0.070	0.13	0.14	0.56	1.57	–0.12	–2
610	104501.49-594205.0	10:45: 1.49	–59:42: 5.07	0.15	2.50	7.48	22	0.89	17	0.220	0.157	0.063	0.15	0.15	0.29	1.63	–0.39	–3
611	104501.51-594155.8	10:45: 1.52	–59:41:55.87	0.17	2.61	6.18	22	0.89	11	0.147	0.133	0.014	0.06	0.12	0.56	1.44	–0.44	–4
612	104501.55-594219.1	10:45: 1.55	–59:42:19.14	0.14	2.34	7.56	20	0.89	18	0.242	0.149	0.093	0.13	0.15	0.41	1.60	–0.00	–3
613	104501.57-594005.9	10:45: 1.57	–59:40: 5.92	0.20	4.18	5.34	13	0.58	9	0.198	0.139	0.059	0.08	0.11	0.35	1.35	–1.08	–2
614	104501.58-595004.6	10:45: 1.59	–59:50: 4.68	0.31	6.41	7.79	230	0.90	29	0.375	0.092	0.467	0.38	0.34	NaN	3.03	–2.71	–2
615	104501.63-594659.3	10:45: 1.63	–59:46:59.34	0.26	3.54	4.83	38	0.90	8	0.108	0.003	0.105	0.21	0.37	NaN	3.27	–0.07	–1
616	104501.79-594710.7	10:45: 1.80	–59:47:10.79	0.14	3.71	12.55	42	0.89	44	0.577	0.112	0.465	0.16	0.39	0.47	3.45	–4.00	–2
617	104501.85-594237.6	10:45: 1.85	–59:42:37.67	0.13	2.17	10.03	19	0.89	23	0.297	0.267	0.030	0.10	0.11	0.38	1.32	–2.39	–2
618	104501.93-594159.5	10:45: 1.94	–59:41:59.55	0.14	2.60	8.04	22	0.90	19	0.249	0.209	0.040	0.07	0.09	0.40	1.21	–0.49	–2
619	104501.99-594117.2	10:45: 2.00	–59:41:17.22	0.04	3.16	6.33	29	0.89	422	5.424	5.291	0.133	0.06	0.06	0.55	0.96	–0.26	–1
620	104502.01-594023.7	10:45: 2.01	–59:40:23.74	0.06	3.93	36.04	45	0.89	224	2.890	1.702	1.188	0.13	0.15	0.44	1.63	–4.00	–3
621	104502.03-594531.7	10:45: 2.04	–59:45:31.74	0.12	2.41	10.13	22	0.89	27	0.352	0.243	0.109	0.13	0.15	0.37	1.64	–0.01	–2
622	104502.03-594021.8	10:45: 2.04	–59:40:21.82	0.11	3.96	5.60	6	0.39	17	0.532	0.280	0.252	0.13	0.17	0.34	1.79	–0.88	–3
623	104502.08-593743.8	10:45: 2.08	–59:37:43.86	0.22	6.43	14.96	218	0.90	77	0.991	0.597	0.393	0.12	0.15	0.42	1.65	–4.00	–2
624	104502.12-594107.1	10:45: 2.12	–59:41: 7.20	0.03	3.31	30.71	32	0.89	425	5.454	5.362	0.092	0.05	0.05	0.44	0.90	–0.07	–3
625	104502.16-594321.3	10:45: 2.17	–59:43:21.32	0.23	1.88	4.76	18	0.89	5	0.069	0.050	0.019	0.06	0.10	0.44	1.27	–0.03	–4
626	104502.16-594216.2	10:45: 2.17	–59:42:16.21	0.18	2.43	6.25	21	0.89	10	0.135	0.120	0.015	0.11	0.12	0.60	1.38	–1.06	–2
627	104502.18-594134.6	10:45: 2.18	–59:41:34.65	0.08	2.94	15.57	26	0.89	69	0.890	0.708	0.182	0.11	0.13	0.31	1.48	–1.41	–3
628	104502.19-593953.3	10:45: 2.19	–59:39:53.33	0.18	4.40	10.55	61	0.90	34	0.441	0.327	0.114	0.11	0.14	0.44	1.54	–0.21	–2
629	104502.24-594249.2	10:45: 2.24	–59:42:49.21	0.10	2.10	11.32	18	0.89	33	0.424	0.331	0.093	0.11	0.14	0.33	1.57	–0.94	–2
630	104502.24-594346.7	10:45: 2.25	–59:43:46.75	0.16	1.81	6.84	17	0.89	11	0.142	0.095	0.047	0.18	0.18	0.60	1.87	–0.04	–2
631	104502.28-594536.3	10:45: 2.28	–59:45:36.35	0.11	2.48	12.32	23	0.89	34	0.440	0.344	0.097	0.10	0.11	0.44	1.34	–1.27	–3
632	104502.46-594540.9	10:45: 2.46	–59:45:40.96	0.09	2.55	15.68	23	0.90	58	0.747	0.574	0.173	0.12	0.14	0.36	1.52	–1.26	–2
633	104502.61-594612.5	10:45: 2.62	–59:46:12.55	0.15	2.96	8.78	28	0.89	23	0.298	0.186	0.112	0.13	0.15	0.43	1.59	–0.35	–2
634	104502.65-594332.6	10:45: 2.66	–59:43:32.60	0.16	1.89	6.45	18	0.89	11	0.153	0.094	0.059	0.18	0.19	0.41	1.95	–0.81	–3
635	104502.67-594336.9	10:45: 2.67	–59:43:36.93	0.20	1.88	5.25	17	0.89	7	0.092	0.058	0.034	0.11	0.14	0.71	1.55	–0.65	–2
636	104502.69-594235.4	10:45: 2.69	–59:42:35.47	0.15	2.28	7.40	20	0.89	16	0.207	0.036	0.171	0.18	0.34	0.55	3.05	–0.93	–2
637	104502.77-593907.6	10:45: 2.77	–59:39: 7.64	0.28	5.13	5.35	110	0.90	18	0.229	0.145	0.084	0.10	0.12	0.41	1.40	–0.73	–2
638	104502.92-594225.8	10:45: 2.93	–59:42:25.81	0.06	2.40	22.82	21	0.89	114	1.472	1.084	0.388	0.10	0.13	0.39	1.45	–2.05	–3
639	104502.96-594257.9	10:45: 2.97	–59:42:58.00	0.18	2.11	5.76	19	0.90	10	0.138	0.106	0.032	0.10	0.18	0.32	1.83	–0.21	–3

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
640	104503.01-594152.9	10:45: 3.01	–59:41:52.92	0.17	2.78	5.87	24	0.90	12	0.153	0.072	0.082	0.11	0.21	0.40	2.06	–0.25	–3
641	104503.22-594156.9	10:45: 3.23	–59:41:56.94	0.19	2.75	5.75	23	0.90	9	0.117	0.123	0.006	0.08	0.10	NaN	1.22	–0.57	–2
642	104503.31-594218.1	10:45: 3.32	–59:42:18.13	0.13	2.52	9.94	22	0.89	24	0.315	0.262	0.052	0.10	0.12	0.45	1.36	–0.12	–3
643	104503.34-594301.6	10:45: 3.34	–59:43: 1.66	0.15	2.13	7.53	19	0.90	16	0.206	0.160	0.047	0.09	0.13	NaN	1.50	–0.23	–2
644	104503.40-594800.1	10:45: 3.41	–59:48: 0.13	0.29	4.54	4.82	68	0.89	9	0.125	0.034	0.091	0.17	0.24	0.49	2.33	–0.27	–1
645	104503.47-594638.3	10:45: 3.47	–59:46:38.38	0.10	3.36	17.47	35	0.90	70	0.898	0.640	0.258	0.12	0.13	0.36	1.48	–0.93	–2
646	104503.47-594753.4	10:45: 3.48	–59:47:53.47	0.33	4.44	5.31	64	0.90	6	0.084	0.076	0.008	0.06	0.08	0.48	1.14	–2.28	–3
647	104503.48-594033.4	10:45: 3.49	–59:40:33.45	0.14	3.88	7.32	43	0.89	127	1.639	1.557	0.082	NaN	0.13	NaN	1.45	–0.02	–2
648	104503.48-594038.4	10:45: 3.49	–59:40:38.40	0.09	3.81	15.18	41	0.89	82	1.056	1.046	0.010	NaN	0.13	NaN	1.44	–0.27	–2
649	104503.58-594103.7	10:45: 3.59	–59:41: 3.72	0.01	3.46	400.94	34	0.89	17563	225.330	15.874	209.457	0.17	0.50	0.55	4.27	–1.50	–2
650	104503.64-594320.8	10:45: 3.65	–59:43:20.85	0.06	2.06	22.33	18	0.89	92	1.184	0.844	0.340	0.10	0.12	0.37	1.42	–0.75	–3
651	104503.69-594348.4	10:45: 3.70	–59:43:48.45	0.03	1.99	52.92	18	0.89	435	5.587	3.144	2.443	0.12	0.17	0.41	1.80	–4.00	–3
652	104503.72-594247.9	10:45: 3.73	–59:42:47.90	0.16	2.28	6.48	19	0.89	14	0.181	0.114	0.067	0.09	0.14	0.33	1.57	–0.03	–3
653	104503.77-594408.0	10:45: 3.78	–59:44: 8.03	0.16	2.01	5.87	18	0.89	11	0.151	0.028	0.123	0.08	0.43	0.53	3.74	–0.61	–1
654	104503.82-594507.5	10:45: 3.83	–59:45: 7.52	0.16	2.35	7.53	21	0.89	13	0.175	0.118	0.057	0.12	0.14	0.35	1.56	–0.93	–2
655	104503.84-594220.8	10:45: 3.84	–59:42:20.86	0.15	2.54	8.02	22	0.89	18	0.239	0.199	0.040	0.10	0.10	0.42	1.23	–0.35	–2
656	104503.93-593819.9	10:45: 3.93	–59:38:19.91	0.16	5.93	19.52	173	0.90	119	1.529	1.193	0.335	0.11	0.12	0.46	1.43	–0.24	–3
657	104503.98-594127.6	10:45: 3.98	–59:41:27.61	0.10	3.17	11.23	29	0.89	20	0.259	0.265	0.005	0.10	0.11	NaN	1.31	–0.25	–3
658	104504.22-594010.9	10:45: 4.23	–59:40:10.95	0.14	4.25	11.39	63	0.90	50	0.639	0.458	0.181	0.09	0.14	0.33	1.54	–1.06	–3
659	104504.28-594448.2	10:45: 4.28	–59:44:48.27	0.11	2.25	10.84	20	0.90	29	0.377	0.231	0.146	0.10	0.15	0.38	1.63	–0.15	–2
660	104504.38-594147.0	10:45: 4.38	–59:41:47.03	0.17	2.97	5.75	26	0.89	10	0.131	0.099	0.031	0.12	0.18	0.32	1.82	–1.10	–2
661	104504.67-594012.5	10:45: 4.68	–59:40:12.51	0.16	4.26	7.40	24	0.74	26	0.414	0.315	0.098	0.11	0.13	0.29	1.48	–0.67	–2
662	104504.75-594614.5	10:45: 4.76	–59:46:14.50	0.14	3.16	8.90	31	0.90	29	0.377	0.305	0.072	0.11	0.15	0.38	1.59	–0.21	–3
663	104504.77-594053.7	10:45: 4.78	–59:40:53.74	0.04	3.68	32.24	39	0.89	369	4.741	3.583	1.157	0.11	0.13	0.38	1.46	–0.31	–3
664	104504.83-594609.1	10:45: 4.84	–59:46: 9.15	0.17	3.10	6.19	30	0.90	17	0.228	0.158	0.070	0.12	0.13	0.37	1.47	–0.03	–4
665	104504.85-595003.6	10:45: 4.85	–59:50: 3.63	0.32	6.51	7.46	235	0.90	31	0.397	0.125	0.271	0.15	0.21	0.45	2.04	–0.02	–2
666	104504.85-594553.6	10:45: 4.86	–59:45:53.63	0.13	2.92	12.05	27	0.90	31	0.405	0.220	0.185	0.12	0.16	0.36	1.69	–3.87	–2
667	104504.96-594517.8	10:45: 4.97	–59:45:17.84	0.10	2.56	13.80	23	0.89	46	0.596	0.359	0.237	0.12	0.17	0.47	1.76	–4.00	–2
668	104504.98-594207.2	10:45: 4.99	–59:42: 7.29	0.11	2.79	11.64	25	0.89	42	0.551	0.414	0.137	0.11	0.13	0.43	1.48	–0.90	–2
669	104504.99-594131.8	10:45: 5.00	–59:41:31.81	0.16	3.20	5.74	33	0.90	8	0.106	0.118	0.012	0.09	0.14	NaN	1.55	–0.80	–3
670	104505.09-593733.6	10:45: 5.09	–59:37:33.68	0.23	6.70	14.84	250	0.89	82	1.064	0.711	0.353	0.11	0.14	0.36	1.54	–0.24	–2
671	104505.12-594531.3	10:45: 5.13	–59:45:31.31	0.21	2.70	5.30	25	0.90	9	0.122	0.102	0.020	0.09	0.12	0.36	1.39	–1.10	–2
672	104505.17-594421.1	10:45: 5.18	–59:44:21.12	0.17	2.22	6.54	20	0.89	11	0.149	0.116	0.033	0.12	0.12	0.48	1.41	–0.65	–3
673	104505.22-594043.9	10:45: 5.23	–59:40:43.92	0.09	3.85	14.42	42	0.89	98	1.265	0.929	0.336	0.09	0.12	0.44	1.37	–0.21	–3
674	104505.28-594540.1	10:45: 5.29	–59:45:40.13	0.08	2.81	19.60	26	0.90	78	0.998	0.698	0.301	0.12	0.15	0.43	1.66	–1.13	–2
675	104505.29-594544.6	10:45: 5.30	–59:45:44.63	0.13	2.86	10.35	26	0.90	29	0.374	0.175	0.198	0.15	0.22	0.45	2.17	–2.51	–2
676	104505.33-594158.6	10:45: 5.34	–59:41:58.61	0.18	2.92	5.16	26	0.89	12	0.165	0.101	0.063	0.12	0.17	0.44	1.74	–0.02	–2
677	104505.35-594640.1	10:45: 5.35	–59:46:40.16	0.12	3.53	12.43	37	0.90	49	0.630	0.371	0.259	0.13	0.16	0.40	1.71	–0.99	–1
678	104505.42-594439.0	10:45: 5.43	–59:44:39.07	0.20	2.33	6.19	21	0.89	8	0.108	0.102	0.006	0.09	0.09	NaN	1.20	–2.72	–2
679	104505.47-594358.6	10:45: 5.48	–59:43:58.67	0.17	2.21	5.90	20	0.89	11	0.152	0.132	0.020	0.10	0.11	0.60	1.32	–0.04	–2
680	104505.61-594530.7	10:45: 5.61	–59:45:30.79	0.10	2.75	15.78	25	0.90	52	0.667	0.520	0.148	0.13	0.13	0.34	1.49	–1.26	–2
681	104505.65-594447.8	10:45: 5.65	–59:44:47.89	0.09	2.41	14.12	21	0.89	49	0.636	0.450	0.186	0.12	0.14	0.33	1.52	–0.10	–3
682	104505.73-594343.7	10:45: 5.74	–59:43:43.74	0.06	2.25	24.31	20	0.89	117	1.514	1.070	0.444	0.10	0.14	0.39	1.57	–0.27	–3
683	104505.74-594606.8	10:45: 5.75	–59:46: 6.81	0.15	3.15	9.08	31	0.90	23	0.307	0.162	0.145	0.13	0.18	0.36	1.86	–0.17	–2
684	104505.78-594208.8	10:45: 5.78	–59:42: 8.85	0.20	2.85	5.18	26	0.89	11	0.143	0.122	0.021	0.11	0.16	NaN	1.68	–1.05	–2
685	104505.78-594442.4	10:45: 5.79	–59:44:42.45	0.16	2.39	6.77	21	0.89	15	0.197	0.164	0.033	0.11	0.12	0.49	1.41	–0.05	–1
686	104505.83-594404.9	10:45: 5.83	–59:44: 4.95	0.15	2.26	5.78	21	0.89	16	0.214	0.194	0.020	0.11	0.11	0.74	1.32	–0.21	–3
687	104505.83-594519.7	10:45: 5.83	–59:45:19.74	0.05	2.67	34.53	25	0.89	217	2.784	2.751	0.033	0.07	0.08	0.67	1.07	–0.05	–3
688	104505.87-594307.8	10:45: 5.87	–59:43: 7.82	0.07	2.39	18.92	22	0.89	82	1.057	0.970	0.087	0.07	0.07	NaN	1.04	NaN	–3

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
689	104505.93-594006.0	10:45: 5.94	–59:40: 6.06	0.03	4.43	104.13	71	0.91	1718	21.742	21.175	0.568	0.06	0.07	0.32	1.00	–0.82	–3
690	104505.94-594259.5	10:45: 5.94	–59:42:59.52	0.20	2.45	5.41	22	0.89	9	0.124	0.066	0.058	0.15	0.17	NaN	1.81	–0.97	–2
691	104505.94-594023.9	10:45: 5.94	–59:40:23.93	0.11	4.18	15.22	60	0.90	75	0.958	0.805	0.154	0.11	0.12	0.32	1.38	–0.17	–3
692	104506.01-594341.0	10:45: 6.01	–59:43:41.09	0.12	2.29	11.45	21	0.89	29	0.384	0.299	0.084	0.11	0.11	0.37	1.35	–1.83	–3
693	104506.01-594630.2	10:45: 6.02	–59:46:30.21	0.11	3.46	15.95	36	0.90	60	0.767	0.519	0.248	0.12	0.13	0.33	1.51	–0.71	–3
694	104506.09-594434.7	10:45: 6.09	–59:44:34.77	0.13	2.39	9.31	22	0.89	23	0.298	0.241	0.056	0.12	0.14	0.30	1.54	–0.45	–2
695	104506.11-594620.9	10:45: 6.12	–59:46:20.97	0.12	3.35	12.98	34	0.90	44	0.575	0.506	0.069	0.09	0.10	0.40	1.24	–0.06	–2
696	104506.12-594319.2	10:45: 6.13	–59:43:19.27	0.03	2.37	48.21	22	0.89	434	5.583	3.364	2.219	0.12	0.16	0.45	1.72	–4.00	–3
697	104506.17-594738.0	10:45: 6.17	–59:47:38.08	0.31	4.38	4.65	61	0.90	8	0.102	0.011	0.113	0.42	0.41	NaN	3.54	–0.27	–1
698	104506.22-593939.9	10:45: 6.22	–59:39:39.94	0.17	4.83	10.06	79	0.89	45	0.590	0.477	0.114	0.10	0.11	0.51	1.32	–0.84	–3
699	104506.33-594945.1	10:45: 6.33	–59:49:45.18	0.31	6.29	8.94	210	0.90	28	0.357	0.118	0.239	0.15	0.19	0.50	1.95	–0.09	–2
700	104506.36-593508.0	10:45: 6.37	–59:35: 8.04	0.57	9.07	6.06	1109	0.90	29	0.380	0.314	0.065	0.12	0.13	0.56	1.45	–1.25	–2
701	104506.37-594350.5	10:45: 6.38	–59:43:50.60	0.21	2.33	4.80	21	0.89	7	0.099	0.079	0.020	0.04	0.09	0.65	1.20	–0.92	–2
702	104506.39-594439.8	10:45: 6.39	–59:44:39.88	0.24	2.45	4.70	22	0.89	5	0.066	0.035	0.031	0.08	0.14	0.32	1.52	–0.35	–4
703	104506.55-594015.5	10:45: 6.56	–59:40:15.56	0.20	4.34	7.14	66	0.90	20	0.258	0.123	0.134	0.08	0.15	0.40	1.61	–0.62	–2
704	104506.63-594344.1	10:45: 6.64	–59:43:44.15	0.18	2.36	5.66	21	0.89	10	0.137	0.067	0.071	0.15	0.18	0.60	1.84	–0.04	–2
705	104506.67-594354.4	10:45: 6.67	–59:43:54.41	0.16	2.36	8.27	21	0.89	14	0.187	0.156	0.032	0.14	0.14	NaN	1.55	–0.16	–1
706	104506.70-594727.2	10:45: 6.70	–59:47:27.22	0.29	4.26	5.18	57	0.89	9	0.124	0.023	0.100	0.19	0.31	0.36	2.83	–0.09	–1
707	104506.72-594156.6	10:45: 6.73	–59:41:56.62	0.08	3.08	19.85	28	0.89	91	1.177	1.140	0.037	0.06	0.06	0.44	0.93	–0.54	–3
708	104506.74-594328.5	10:45: 6.74	–59:43:28.54	0.18	2.41	6.32	22	0.89	11	0.151	0.105	0.046	0.10	0.13	0.49	1.49	–1.01	–3
709	104506.82-594446.1	10:45: 6.83	–59:44:46.16	0.08	2.53	18.78	23	0.89	71	0.913	0.627	0.286	0.12	0.15	0.38	1.63	–0.62	–3
710	104506.83-594537.1	10:45: 6.84	–59:45:37.19	0.22	2.94	4.75	28	0.90	8	0.114	0.082	0.032	0.11	0.12	0.33	1.43	–0.36	–3
711	104506.88-594412.5	10:45: 6.88	–59:44:12.54	0.24	2.41	4.61	22	0.89	5	0.069	0.038	0.031	0.16	0.17	NaN	1.80	–0.90	–1
712	104506.96-594617.2	10:45: 6.97	–59:46:17.27	0.15	3.38	6.46	9	0.57	12	0.245	0.209	0.037	0.07	0.08	0.37	1.08	–0.14	–3
713	104506.97-594532.2	10:45: 6.98	–59:45:32.25	0.18	2.90	6.29	27	0.89	14	0.181	0.162	0.019	0.07	0.07	0.57	1.04	–1.80	–3
714	104507.07-594124.9	10:45: 7.07	–59:41:24.97	0.06	3.47	25.05	39	0.90	201	2.558	1.778	0.781	0.09	0.11	0.45	1.35	–3.33	–3
715	104507.11-594313.4	10:45: 7.11	–59:43:13.45	0.12	2.51	11.83	23	0.89	30	0.397	0.310	0.087	0.09	0.12	0.44	1.38	–0.66	–2
716	104507.11-594238.2	10:45: 7.12	–59:42:38.21	0.14	2.73	10.41	25	0.89	24	0.318	0.280	0.038	0.10	0.13	0.36	1.47	–1.44	–2
717	104507.21-594624.4	10:45: 7.21	–59:46:24.45	0.17	3.49	8.14	37	0.90	23	0.296	0.201	0.095	0.10	0.13	0.48	1.47	–1.09	–2
718	104507.34-594446.8	10:45: 7.34	–59:44:46.86	0.11	2.60	11.34	23	0.89	34	0.438	0.395	0.043	0.11	0.12	0.38	1.37	–0.27	–2
719	104507.41-594345.1	10:45: 7.42	–59:43:45.11	0.26	2.46	4.77	22	0.89	4	0.060	0.004	0.057	0.10	0.50	0.53	4.26	–0.40	–1
720	104507.72-595102.9	10:45: 7.73	–59:51: 2.95	0.38	7.57	5.70	461	0.90	17	0.225	0.206	0.019	0.15	0.11	0.36	1.34	–0.23	–1
721	104507.81-594026.1	10:45: 7.82	–59:40:26.18	0.19	4.28	7.83	63	0.90	20	0.263	0.154	0.110	0.12	0.20	0.60	1.97	–0.59	–1
722	104507.86-593533.1	10:45: 7.87	–59:35:33.10	0.43	8.72	7.26	815	0.90	54	0.694	0.024	0.671	0.23	0.40	NaN	3.49	–0.18	–1
723	104507.87-594446.9	10:45: 7.87	–59:44:46.91	0.14	2.66	8.33	24	0.89	24	0.308	0.214	0.094	0.11	0.13	0.39	1.47	–0.24	–2
724	104507.89-595043.3	10:45: 7.90	–59:50:43.39	0.28	7.27	11.30	342	0.89	59	0.762	0.390	0.372	0.13	0.15	0.36	1.60	–0.28	–2
725	104507.89-594134.1	10:45: 7.90	–59:41:34.12	0.06	3.43	28.50	34	0.89	187	2.416	1.772	0.644	0.10	0.14	0.36	1.51	–4.00	–3
726	104507.97-593725.8	10:45: 7.98	–59:37:25.89	0.37	6.95	6.56	311	0.90	26	0.335	0.247	0.088	0.13	0.14	0.64	1.56	–0.74	–2
727	104508.10-594005.1	10:45: 8.10	–59:40: 5.15	0.15	4.59	13.91	78	0.91	59	0.757	0.537	0.220	0.12	0.14	0.37	1.58	–1.97	–3
728	104508.14-594555.3	10:45: 8.14	–59:45:55.33	0.24	3.25	4.91	32	0.89	7	0.097	0.072	0.026	0.09	0.10	0.41	1.26	–0.07	–3
729	104508.25-594049.7	10:45: 8.25	–59:40:49.77	0.11	4.00	15.15	47	0.89	56	0.721	0.620	0.101	0.06	0.08	0.63	1.14	–0.43	–3
730	104508.26-594607.0	10:45: 8.26	–59:46: 7.04	0.02	3.38	93.24	35	0.89	2029	26.004	18.945	7.059	0.11	0.14	0.37	1.54	–0.99	–3
731	104508.36-593847.0	10:45: 8.36	–59:38:47.05	0.16	5.73	18.68	150	0.91	109	1.379	0.980	0.399	0.10	0.13	0.37	1.50	–4.00	–2

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
732	104508.56-594704.4	10:45: 8.57	–59:47: 4.43	0.22	4.10	6.72	52	0.89	15	0.205	0.078	0.127	0.17	0.21	0.38	2.04	–0.93	–2
733	104508.58-594614.4	10:45: 8.58	–59:46:14.47	0.18	3.50	6.80	37	0.89	21	0.271	0.169	0.102	0.10	0.13	0.45	1.50	–0.25	–1
734	104508.61-594017.1	10:45: 8.61	–59:40:17.12	0.09	4.46	26.27	71	0.90	177	2.247	1.876	0.371	0.10	0.12	0.36	1.39	–0.01	–3
735	104508.63-594354.1	10:45: 8.64	–59:43:54.18	0.10	2.61	14.16	24	0.89	48	0.619	0.436	0.184	0.12	0.13	0.37	1.50	–1.31	–2
736	104508.67-594134.5	10:45: 8.67	–59:41:34.50	0.14	3.50	9.67	35	0.89	34	0.440	0.360	0.080	0.11	0.12	0.52	1.41	–1.18	–2
737	104508.69-594505.3	10:45: 8.69	–59:45: 5.31	0.25	2.87	6.13	27	0.89	6	0.081	0.074	0.007	0.03	0.05	NaN	0.85	–2.39	–4
738	104508.81-594423.7	10:45: 8.81	–59:44:23.72	0.12	2.68	11.28	25	0.89	33	0.424	0.354	0.070	0.13	0.13	0.41	1.51	–0.16	–2
739	104508.86-594109.3	10:45: 8.86	–59:41: 9.30	0.16	3.81	8.41	42	0.89	29	0.374	0.367	0.007	NaN	0.18	NaN	1.83	–0.34	–2
740	104508.87-594721.0	10:45: 8.88	–59:47:21.04	0.30	4.34	5.52	60	0.89	7	0.102	0.053	0.049	0.16	0.19	NaN	1.91	–0.16	–2
741	104508.90-594630.2	10:45: 8.91	–59:46:30.27	0.15	3.71	10.17	42	0.90	33	0.434	0.281	0.154	0.13	0.16	0.40	1.68	–0.10	–2
742	104508.92-594101.8	10:45: 8.92	–59:41: 1.80	0.18	3.91	5.42	44	0.89	18	0.243	0.269	0.026	0.48	0.32	NaN	2.92	–1.08	–2
743	104508.92-594235.2	10:45: 8.93	–59:42:35.28	0.15	2.96	7.01	28	0.89	22	0.288	0.259	0.029	0.11	0.13	0.35	1.46	–0.60	–3
744	104508.97-594124.0	10:45: 8.98	–59:41:24.01	0.16	3.65	5.64	38	0.89	25	0.323	0.329	0.006	NaN	0.12	NaN	1.38	–2.07	–1
745	104508.99-594245.3	10:45: 9.00	–59:42:45.32	0.27	2.89	4.94	27	0.90	5	0.067	0.019	0.048	0.18	0.49	0.82	4.14	–0.42	–1
746	104509.02-594255.8	10:45: 9.02	–59:42:55.83	0.09	2.83	15.39	26	0.90	61	0.781	0.367	0.414	0.11	0.24	0.42	2.30	–3.64	–3
747	104509.14-594241.0	10:45: 9.14	–59:42:41.07	0.21	2.94	4.75	27	0.90	9	0.128	0.109	0.019	0.08	0.10	0.44	1.24	–0.73	–4
748	104509.23-593851.3	10:45: 9.24	–59:38:51.37	0.23	5.72	9.46	148	0.90	44	0.562	0.477	0.085	0.09	0.11	0.35	1.32	–0.29	–3
749	104509.24-594711.9	10:45: 9.24	–59:47:11.97	0.15	4.25	12.45	56	0.89	45	0.579	0.262	0.317	0.14	0.20	0.39	2.01	–0.38	–2
750	104509.32-594315.1	10:45: 9.32	–59:43:15.11	0.20	2.77	6.97	26	0.90	12	0.158	0.125	0.033	0.10	0.13	0.42	1.44	–0.46	–2
751	104509.38-594056.8	10:45: 9.39	–59:40:56.81	0.20	4.01	4.98	47	0.89	13	0.175	0.128	0.048	0.13	0.20	0.65	1.99	–0.71	–3
752	104509.48-594509.9	10:45: 9.49	–59:45: 9.97	0.17	2.99	7.41	29	0.90	17	0.230	0.110	0.120	0.16	0.20	0.33	1.97	–0.24	–2
753	104509.59-594043.5	10:45: 9.60	–59:40:43.56	0.12	4.19	15.92	52	0.90	68	0.874	0.796	0.078	0.10	0.12	0.44	1.37	–0.03	–3
754	104509.71-594544.7	10:45: 9.71	–59:45:44.74	0.22	3.30	5.00	33	0.90	10	0.132	0.081	0.051	0.12	0.13	0.51	1.48	–0.08	–2
755	104509.72-593904.7	10:45: 9.72	–59:39: 4.80	0.18	5.55	15.62	135	0.90	68	0.866	0.699	0.168	0.10	0.12	0.34	1.40	–0.49	–2
756	104509.73-594245.6	10:45: 9.74	–59:42:45.68	0.09	2.98	18.72	28	0.90	76	0.977	0.737	0.240	0.10	0.13	0.38	1.45	–0.12	–3
757	104509.78-594538.1	10:45: 9.78	–59:45:38.12	0.28	3.25	5.15	32	0.90	5	0.074	0.060	0.014	0.13	0.13	NaN	1.48	–1.07	–2
758	104509.86-594233.8	10:45: 9.87	–59:42:33.85	0.16	3.07	6.11	8	0.58	9	0.196	0.107	0.089	0.15	0.17	0.60	1.79	–0.07	–2
759	104509.93-594258.5	10:45: 9.94	–59:42:58.53	0.26	2.92	4.96	27	0.90	7	0.096	0.037	0.059	0.11	0.24	0.46	2.26	–0.01	–2
760	104509.95-594121.4	10:45: 9.95	–59:41:21.49	0.18	3.77	8.55	41	0.89	13	0.179	0.152	0.027	0.10	0.17	0.31	1.75	–0.06	–3
761	104509.96-594018.5	10:45: 9.97	–59:40:18.52	0.10	4.54	22.54	65	0.89	121	1.569	0.815	0.754	0.13	0.20	0.40	1.97	–4.00	–2
762	104510.07-594437.8	10:45:10.07	–59:44:37.88	0.09	2.88	15.40	27	0.90	67	0.865	0.540	0.325	0.11	0.15	0.35	1.66	–4.00	–2
763	104510.13-594353.0	10:45:10.14	–59:43:53.07	0.11	2.80	13.25	26	0.90	43	0.553	0.421	0.132	0.10	0.12	0.41	1.39	–0.25	–3
764	104510.16-594234.5	10:45:10.17	–59:42:34.51	0.09	3.10	11.96	8	0.58	31	0.610	0.343	0.267	0.13	0.18	0.36	1.86	–0.37	–3
765	104510.22-594307.6	10:45:10.22	–59:43: 7.68	0.22	2.91	5.62	28	0.90	10	0.139	0.129	0.009	0.11	0.11	0.32	1.32	NaN	–4
766	104510.25-594729.2	10:45:10.25	–59:47:29.29	0.19	4.56	10.94	67	0.89	35	0.453	0.070	0.383	0.16	0.30	0.36	2.77	–0.10	–2
767	104510.25-594230.3	10:45:10.26	–59:42:30.34	0.15	3.14	5.55	30	0.90	24	0.314	0.231	0.083	0.10	0.14	0.30	1.54	–0.90	–1
768	104510.33-594705.9	10:45:10.33	–59:47: 6.00	0.21	4.26	8.79	56	0.89	22	0.285	0.122	0.164	0.09	0.20	0.29	2.02	–0.01	–3
769	104510.37-594028.8	10:45:10.37	–59:40:28.90	0.14	4.44	14.16	60	0.89	60	0.780	0.618	0.161	0.09	0.11	0.32	1.35	–0.24	–3
770	104510.39-594456.5	10:45:10.39	–59:44:56.51	0.15	3.01	9.37	29	0.90	22	0.293	0.275	0.018	0.12	0.13	NaN	1.45	–0.15	–2
771	104510.40-594135.4	10:45:10.41	–59:41:35.48	0.18	3.66	7.00	38	0.90	19	0.249	0.220	0.029	0.13	0.14	0.64	1.54	–0.49	–3
772	104510.45-594409.4	10:45:10.46	–59:44: 9.48	0.25	2.85	5.07	27	0.90	5	0.074	0.033	0.041	0.11	0.17	0.77	1.75	–0.02	–2
773	104510.57-594512.2	10:45:10.57	–59:45:12.24	0.16	3.13	7.76	31	0.90	22	0.293	0.213	0.080	0.12	0.13	0.40	1.47	–0.28	–2
774	104510.63-594448.3	10:45:10.63	–59:44:48.35	0.27	3.00	5.20	28	0.90	4	0.060	0.016	0.043	0.06	0.30	0.62	2.74	–0.06	–2
775	104510.65-594254.4	10:45:10.66	–59:42:54.45	0.13	3.03	10.31	29	0.90	34	0.444	0.390	0.055	0.10	0.11	0.49	1.33	–0.38	–3
776	104510.69-594423.4	10:45:10.69	–59:44:23.46	0.20	2.91	4.93	28	0.90	10	0.137	0.106	0.030	0.11	0.13	0.34	1.47	–0.24	–1
777	104510.73-594635.4	10:45:10.74	–59:46:35.43	0.27	3.93	4.87	47	0.90	8	0.108	0.085	0.023	0.10	0.12	0.31	1.44	–0.28	–4

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
778	104510.79-593748.3	10:45:10.80	–59:37:48.31	0.34	6.75	8.20	251	0.89	25	0.323	0.231	0.091	0.08	0.13	0.43	1.46	–0.21	–3
779	104510.82-594251.1	10:45:10.83	–59:42:51.15	0.08	3.07	18.02	29	0.90	89	1.140	0.745	0.395	0.11	0.15	0.40	1.63	–0.10	–3
780	104510.83-594036.3	10:45:10.84	–59:40:36.31	0.15	4.38	12.28	58	0.89	48	0.621	0.569	0.052	0.10	0.11	0.54	1.29	–0.56	–2
781	104510.91-594246.5	10:45:10.92	–59:42:46.56	0.11	3.11	13.97	29	0.90	55	0.704	0.069	0.635	0.16	0.46	0.50	3.91	–0.09	–2
782	104510.98-594707.4	10:45:10.99	–59:47: 7.47	0.29	4.34	4.99	59	0.89	9	0.120	0.033	0.086	0.14	0.23	0.40	2.21	–0.65	–3
783	104511.01-594156.8	10:45:11.02	–59:41:56.83	0.23	3.51	5.37	35	0.90	11	0.144	0.055	0.089	0.09	0.24	0.40	2.33	–0.56	–3
784	104511.03-594239.3	10:45:11.03	–59:42:39.30	0.06	3.17	31.75	30	0.90	188	2.407	1.454	0.953	0.12	0.16	0.39	1.69	–4.00	–3
785	104511.08-594521.1	10:45:11.08	–59:45:21.18	0.21	3.26	6.70	32	0.90	12	0.158	0.120	0.038	0.11	0.13	0.27	1.50	–0.16	–2
786	104511.10-594457.1	10:45:11.10	–59:44:57.15	0.08	3.10	17.77	30	0.90	84	1.076	0.818	0.258	0.10	0.13	0.39	1.45	–0.03	–3
787	104511.13-594533.5	10:45:11.13	–59:45:33.52	0.10	3.36	17.87	34	0.90	68	0.876	0.701	0.175	0.10	0.12	0.45	1.38	–1.93	–3
788	104511.22-594233.9	10:45:11.22	–59:42:33.92	0.08	3.23	19.49	31	0.90	98	1.260	1.009	0.251	0.11	0.13	0.42	1.46	–0.40	–3
789	104511.28-594709.9	10:45:11.29	–59:47: 9.98	0.27	4.39	5.21	26	0.73	8	0.131	0.046	0.085	0.16	0.24	0.35	2.31	–0.22	–1
790	104511.32-594341.4	10:45:11.33	–59:43:41.46	0.23	2.96	4.92	28	0.90	7	0.101	0.071	0.030	0.07	0.07	NaN	1.05	–0.02	–2
791	104511.34-593903.3	10:45:11.35	–59:39: 3.38	0.26	5.68	9.18	145	0.90	29	0.379	0.241	0.138	0.10	0.13	0.40	1.46	–2.86	–2
792	104511.53-593959.9	10:45:11.54	–59:39:59.96	0.18	4.91	13.04	93	0.91	46	0.583	0.466	0.116	0.10	0.13	0.32	1.44	–0.16	–2
793	104511.59-594613.0	10:45:11.60	–59:46:13.06	0.06	3.77	30.98	43	0.90	250	3.197	1.845	1.353	0.13	0.17	0.41	1.81	–4.00	–2
794	104511.64-593922.7	10:45:11.64	–59:39:22.73	0.22	5.42	10.85	126	0.90	40	0.518	0.326	0.192	0.12	0.16	0.37	1.71	–0.88	–2
795	104511.65-594512.8	10:45:11.65	–59:45:12.88	0.19	3.26	6.03	32	0.90	15	0.197	0.172	0.025	0.08	0.09	NaN	1.16	–0.22	–2
796	104511.66-594925.8	10:45:11.66	–59:49:25.90	0.30	6.28	5.94	207	0.90	27	0.356	0.156	0.200	0.09	0.15	0.36	1.60	–0.14	–3
797	104511.68-594217.5	10:45:11.69	–59:42:17.51	0.26	3.40	5.00	34	0.90	8	0.104	0.086	0.018	0.10	0.10	0.53	1.23	–0.31	–2
798	104511.81-594133.8	10:45:11.81	–59:41:33.84	0.16	3.81	10.17	41	0.89	31	0.401	0.310	0.091	0.11	0.14	0.34	1.52	–0.05	–2
799	104511.84-594327.1	10:45:11.85	–59:43:27.19	0.28	3.05	4.71	29	0.90	4	0.059	0.018	0.041	0.19	0.20	NaN	2.03	–0.82	–1
800	104511.98-594334.5	10:45:11.99	–59:43:34.57	0.18	3.05	5.47	7	0.57	8	0.164	0.148	0.016	0.07	0.10	NaN	1.28	–0.51	–4
801	104512.20-594017.9	10:45:12.20	–59:40:17.91	0.27	4.73	6.53	83	0.90	15	0.191	0.129	0.062	0.12	0.14	0.51	1.54	–0.19	–2
802	104512.23-594024.7	10:45:12.23	–59:40:24.78	0.23	4.65	7.97	79	0.90	19	0.245	0.198	0.047	0.11	0.12	0.40	1.42	–0.45	–3
803	104512.25-594500.5	10:45:12.26	–59:45: 0.55	0.04	3.26	56.68	32	0.90	504	6.424	5.609	0.815	0.08	0.09	0.38	1.17	–0.12	–3
804	104512.28-594334.1	10:45:12.29	–59:43:34.15	0.15	3.09	6.50	8	0.58	11	0.221	0.145	0.076	0.12	0.17	0.36	1.75	–0.29	–1
805	104512.51-594845.1	10:45:12.52	–59:48:45.11	0.33	5.75	5.37	134	0.89	12	0.158	0.029	0.130	0.19	0.23	NaN	2.25	–0.03	–1
806	104512.58–594254.2	10:45:12.58	–59:42:54.26	0.11	3.26	13.36	32	0.89	60	0.770	0.548	0.222	0.10	0.12	0.33	1.37	–0.54	–4
807	104512.67-594248.2	10:45:12.67	–59:42:48.26	0.20	3.31	6.91	33	0.89	14	0.192	0.115	0.077	0.09	0.17	0.44	1.75	–0.20	–3
808	104512.75-594446.2	10:45:12.76	–59:44:46.21	0.04	3.25	43.86	31	0.90	393	5.014	4.794	0.220	0.07	0.07	0.29	1.03	–0.51	–3
809	104512.78-594342.3	10:45:12.78	–59:43:42.33	0.17	3.14	6.83	30	0.89	20	0.258	0.217	0.041	0.10	0.11	0.61	1.30	–0.52	–3
810	104512.79-594113.5	10:45:12.80	–59:41:13.60	0.21	4.12	6.18	57	0.90	16	0.211	0.156	0.054	0.06	0.13	0.47	1.44	–2.33	–1
811	104512.90-594942.3	10:45:12.90	–59:49:42.33	0.09	6.60	54.73	240	0.90	631	8.038	2.720	5.318	0.14	0.28	0.44	2.63	–4.00	–2
812	104512.90-594419.3	10:45:12.91	–59:44:19.38	0.03	3.17	52.77	31	0.90	606	7.751	7.376	0.374	0.08	0.08	0.33	1.09	–0.83	–3
813	104512.92-594149.2	10:45:12.92	–59:41:49.26	0.23	3.78	5.71	41	0.89	13	0.176	0.066	0.111	0.11	0.25	0.39	2.36	–0.04	–3
814	104512.93-594504.5	10:45:12.93	–59:45: 4.55	0.21	3.36	5.86	34	0.90	11	0.151	0.123	0.028	0.08	0.10	0.32	1.24	–1.41	–2
815	104513.07-594415.8	10:45:13.07	–59:44:15.86	0.24	3.19	4.83	31	0.90	8	0.105	0.102	0.004	0.07	0.07	NaN	1.02	–0.04	–1
816	104513.13-593521.1	10:45:13.14	–59:35:21.17	0.41	9.12	10.18	1032	0.90	90	1.160	0.851	0.310	0.12	0.14	0.50	1.55	–0.15	–2
817	104513.26-594051.0	10:45:13.26	–59:40:51.02	0.25	4.42	5.86	68	0.91	11	0.142	0.080	0.062	0.13	0.24	0.56	2.30	–1.10	–2
818	104513.35-594257.7	10:45:13.36	–59:42:57.75	0.22	3.34	5.02	34	0.89	13	0.172	0.115	0.057	0.12	0.17	0.39	1.74	–0.00	–2
819	104513.39-594005.6	10:45:13.40	–59:40: 5.66	0.19	4.98	11.74	98	0.90	42	0.538	0.427	0.111	0.11	0.12	0.40	1.40	–0.57	–2
820	104513.42-594302.5	10:45:13.42	–59:43: 2.57	0.26	3.33	5.50	34	0.89	10	0.130	0.070	0.060	0.13	0.17	0.36	1.75	–0.24	–2
821	104513.56-594331.9	10:45:13.56	–59:43:31.99	0.13	3.25	10.66	33	0.89	37	0.485	0.354	0.131	0.11	0.12	0.41	1.44	–0.30	–2
822	104513.57-594404.3	10:45:13.57	–59:44: 4.38	0.09	3.24	19.38	32	0.89	80	1.038	0.754	0.284	0.11	0.14	0.39	1.55	–0.10	–2
823	104513.57-595109.3	10:45:13.58	–59:51: 9.36	0.34	7.94	8.53	575	0.91	51	0.649	0.598	0.052	0.07	0.08	NaN	1.11	–1.71	–3
824	104513.57-594309.6	10:45:13.58	–59:43: 9.64	0.23	3.32	4.74	34	0.89	12	0.161	0.143	0.019	0.10	0.11	NaN	1.34	–0.27	–1

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log (P_{ks})	id
825	104513.68-594411.3	10:45:13.69	–59:44:11.33	0.22	3.26	5.14	33	0.89	10	0.132	0.103	0.029	0.13	0.13	0.28	1.47	–0.09	–1
826	104513.80-594726.7	10:45:13.81	–59:47:26.71	0.21	4.81	9.59	76	0.89	30	0.390	0.199	0.191	0.15	0.19	0.44	1.92	–1.81	–2
827	104513.87-594446.0	10:45:13.87	–59:44:46.06	0.23	3.38	5.93	34	0.89	9	0.123	0.056	0.067	0.13	0.18	0.49	1.84	–0.87	–1
828	104513.95-594339.9	10:45:13.96	–59:43:39.96	0.20	3.29	7.18	33	0.89	14	0.189	0.076	0.113	0.12	0.21	0.46	2.10	–0.39	–2
829	104513.98-594407.0	10:45:13.99	–59:44: 7.07	0.27	3.29	4.73	33	0.89	5	0.076	0.062	0.014	0.18	0.18	0.44	1.84	–0.32	–1
830	104514.09-594315.5	10:45:14.09	–59:43:15.57	0.14	3.36	12.36	35	0.89	38	0.499	0.419	0.080	0.10	0.11	0.32	1.36	–0.24	–3
831	104514.11-594211.7	10:45:14.12	–59:42:11.80	0.15	3.72	11.24	47	0.90	39	0.498	0.404	0.094	0.10	0.13	0.37	1.45	–0.61	–3
832	104514.12-594059.2	10:45:14.12	–59:40:59.21	0.09	4.41	25.99	69	0.90	152	1.929	1.175	0.754	0.10	0.16	0.51	1.72	–1.77	–3
833	104514.16-593857.8	10:45:14.16	–59:38:57.81	0.28	5.95	9.68	168	0.90	29	0.377	0.292	0.085	0.12	0.13	0.33	1.45	–0.96	–2
834	104514.54-594246.8	10:45:14.54	–59:42:46.80	0.11	3.54	19.22	38	0.89	67	0.874	0.589	0.285	0.12	0.14	0.45	1.56	–0.16	–2
835	104514.60-594031.8	10:45:14.60	–59:40:31.89	0.23	4.76	6.86	85	0.90	22	0.286	0.155	0.131	0.10	0.16	0.38	1.69	–0.20	–3
836	104514.68-594423.8	10:45:14.68	–59:44:23.81	0.12	3.41	9.49	9	0.58	21	0.432	0.239	0.193	0.11	0.15	0.42	1.61	–1.69	–2
837	104514.78-594344.6	10:45:14.79	–59:43:44.67	0.21	3.39	6.40	35	0.89	13	0.169	0.119	0.049	0.09	0.11	0.36	1.32	–0.44	–2
838	104514.83-594006.9	10:45:14.84	–59:40: 7.00	0.20	5.08	10.45	104	0.90	41	0.525	0.338	0.187	0.12	0.16	0.36	1.70	–0.66	–3
839	104514.92-594441.5	10:45:14.93	–59:44:41.58	0.09	3.49	19.23	36	0.89	90	1.160	0.672	0.488	0.12	0.17	0.44	1.77	–4.00	–2
840	104514.96-594423.5	10:45:14.96	–59:44:23.52	0.16	3.44	5.69	9	0.58	11	0.236	0.201	0.036	0.12	0.12	0.56	1.39	–1.06	–2
841	104515.04-594021.9	10:45:15.04	–59:40:21.96	0.22	4.92	8.99	94	0.90	28	0.364	0.317	0.047	0.09	0.11	0.63	1.32	–0.55	–2
842	104515.22-594412.5	10:45:15.23	–59:44:12.54	0.22	3.45	5.75	37	0.89	12	0.166	0.089	0.077	0.10	0.15	0.36	1.61	–0.94	–3
843	104515.27-594416.7	10:45:15.27	–59:44:16.76	0.19	3.47	7.84	37	0.89	19	0.245	0.178	0.067	0.12	0.13	0.42	1.49	–0.26	–3
844	104515.52-594707.3	10:45:15.52	–59:47: 7.30	0.28	4.74	6.89	83	0.90	15	0.195	0.083	0.112	0.16	0.19	0.49	1.95	–0.64	–2
845	104515.52-594012.9	10:45:15.52	–59:40:12.94	0.20	5.07	11.13	103	0.90	44	0.561	0.466	0.094	0.08	0.10	0.40	1.28	–0.01	–3
846	104515.72-594359.0	10:45:15.72	–59:43:59.03	0.21	3.50	6.15	38	0.89	15	0.195	0.143	0.051	0.11	0.13	0.35	1.45	–0.54	–2
847	104515.78-594127.3	10:45:15.79	–59:41:27.39	0.11	4.28	19.12	64	0.90	90	1.144	0.793	0.351	0.11	0.15	0.40	1.59	–2.56	–2
848	104516.24-594141.2	10:45:16.25	–59:41:41.24	0.09	4.20	29.29	54	0.89	151	1.952	1.446	0.506	0.09	0.13	0.40	1.47	–1.02	–3
849	104516.29-594316.9	10:45:16.29	–59:43:16.94	0.13	3.63	12.25	42	0.89	47	0.616	0.463	0.153	0.11	0.13	0.33	1.50	–0.02	–2
850	104516.35-594546.4	10:45:16.36	–59:45:46.40	0.33	4.04	4.74	49	0.89	3	0.049	0.012	0.036	0.14	0.14	NaN	1.59	–0.04	–1
851	104516.35-593959.4	10:45:16.36	–59:39:59.45	0.38	5.31	4.68	118	0.91	7	0.090	0.094	0.004	0.14	0.14	NaN	1.55	–0.86	–1
852	104516.39-594228.0	10:45:16.40	–59:42:28.03	0.20	3.86	8.12	46	0.89	22	0.289	0.121	0.168	0.11	0.22	0.40	2.14	–0.40	–2
853	104516.54-594215.4	10:45:16.54	–59:42:15.49	0.17	3.96	10.37	49	0.89	34	0.448	0.386	0.063	0.09	0.10	0.31	1.26	–1.55	–2
854	104516.56-594337.1	10:45:16.56	–59:43:37.12	0.04	3.62	54.22	41	0.89	645	8.282	7.914	0.369	0.08	0.08	0.31	1.12	–0.25	–2
855	104516.61-595018.4	10:45:16.61	–59:50:18.48	0.34	7.35	5.51	376	0.90	29	0.374	0.207	0.167	0.11	0.11	0.47	1.31	–0.24	–2
856	104516.71-594420.8	10:45:16.71	–59:44:20.88	0.22	3.65	5.77	42	0.89	14	0.188	0.109	0.078	0.07	0.14	0.32	1.54	–0.27	–3
857	104516.75-594008.2	10:45:16.75	–59:40: 8.25	0.20	5.23	10.50	114	0.91	45	0.570	0.372	0.198	0.10	0.16	0.35	1.68	–0.40	–3
858	104516.82-593809.0	10:45:16.83	–59:38: 9.07	0.35	6.81	6.08	261	0.89	26	0.339	0.240	0.099	0.10	0.12	0.37	1.37	–0.05	–3
859	104516.83-594628.8	10:45:16.84	–59:46:28.82	0.12	4.46	19.38	63	0.89	82	1.064	1.024	0.040	0.06	0.06	0.44	0.94	–0.11	–3
860	104516.84-594050.8	10:45:16.84	–59:40:50.82	0.28	4.76	4.69	75	0.89	11	0.143	0.112	0.031	0.10	0.14	0.68	1.56	–0.27	–1
861	104517.10-594542.1	10:45:17.11	–59:45:42.16	0.15	4.09	13.04	51	0.90	44	0.567	0.376	0.191	0.12	0.13	NaN	1.48	–0.58	–2
862	104517.20-594701.4	10:45:17.20	–59:47: 1.50	0.17	4.83	11.93	88	0.90	50	0.644	0.288	0.357	0.15	0.22	0.42	2.18	–2.06	–2
863	104517.21-594913.3	10:45:17.22	–59:49:13.35	0.29	6.47	7.71	223	0.89	31	0.400	0.253	0.147	0.16	0.17	0.46	1.77	–0.33	–2
864	104517.24-594341.3	10:45:17.24	–59:43:41.31	0.06	3.70	32.16	43	0.90	276	3.537	2.058	1.479	0.12	0.17	0.40	1.79	–4.00	–3
865	104517.36-594714.8	10:45:17.37	–59:47:14.87	0.26	4.99	6.92	97	0.90	22	0.288	0.085	0.202	0.08	0.25	0.44	2.39	–0.32	–2
866	104517.38-594025.3	10:45:17.38	–59:40:25.38	0.20	5.09	10.26	104	0.91	43	0.545	0.333	0.212	0.09	0.15	0.38	1.64	–2.30	–2
867	104517.65-594054.0	10:45:17.65	–59:40:54.02	0.20	4.80	9.37	77	0.89	34	0.440	0.328	0.112	0.09	0.13	0.37	1.47	–2.83	–3
868	104517.72-593833.6	10:45:17.72	–59:38:33.64	0.29	6.53	8.96	221	0.90	39	0.506	0.442	0.064	0.09	0.10	0.36	1.23	–1.11	–3
869	104517.77-594210.7	10:45:17.78	–59:42:10.74	0.27	4.14	6.05	54	0.89	12	0.154	0.033	0.121	0.17	0.30	0.47	2.76	–0.00	–2
870	104517.90-594229.8	10:45:17.91	–59:42:29.80	0.23	4.03	7.54	52	0.90	17	0.228	0.228	0.000	0.07	0.07	NaN	1.01	–0.58	–4
871	104517.90-593710.1	10:45:17.91	–59:37:10.17	0.31	7.72	11.90	439	0.90	62	0.798	0.762	0.037	0.09	0.10	NaN	1.27	–1.15	–2

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
872	104518.00-593559.3	10:45:18.00	–59:35:59.35	0.39	8.78	11.96	704	0.90	57	0.735	0.487	0.248	0.13	0.15	0.43	1.62	–0.79	–2
873	104518.10-594305.8	10:45:18.10	–59:43: 5.84	0.30	3.89	4.67	49	0.90	10	0.131	0.113	0.017	0.13	0.13	NaN	1.51	NaN	–1
874	104518.17-594142.1	10:45:18.17	–59:41:42.11	0.17	4.40	11.78	61	0.90	41	0.531	0.450	0.081	0.10	0.11	0.34	1.30	–0.52	–2
875	104518.36-594613.5	10:45:18.37	–59:46:13.58	0.37	4.48	4.87	64	0.89	3	0.040	0.016	0.056	0.46	0.28	NaN	2.61	–0.38	–1
876	104518.66-594758.6	10:45:18.67	–59:47:58.61	0.28	5.62	5.94	140	0.90	24	0.309	0.263	0.045	0.05	0.06	0.58	0.98	–0.34	–4
877	104518.75-593912.0	10:45:18.75	–59:39:12.03	0.22	6.10	13.16	179	0.90	57	0.732	0.582	0.150	0.12	0.12	0.51	1.43	–1.61	–2
878	104518.78-594403.0	10:45:18.79	–59:44: 3.09	0.42	3.89	4.80	48	0.90	0	0.010	0.016	0.026	0.72	0.32	NaN	2.87	–1.06	–1
879	104518.91-594217.9	10:45:18.91	–59:42:17.92	0.17	4.22	12.82	57	0.90	40	0.514	0.414	0.100	0.12	0.14	0.37	1.53	–0.48	–2
880	104519.05-594142.4	10:45:19.06	–59:41:42.48	0.22	4.50	7.75	65	0.90	21	0.280	0.202	0.079	0.10	0.14	0.37	1.56	–0.01	–2
881	104519.21-594359.6	10:45:19.21	–59:43:59.66	0.23	3.94	6.89	49	0.90	15	0.201	0.171	0.030	0.10	0.11	0.41	1.29	–0.04	–2
882	104519.61-594731.8	10:45:19.62	–59:47:31.82	0.29	5.39	5.33	123	0.91	21	0.266	0.056	0.210	0.06	0.25	0.41	2.39	–2.15	–1
883	104519.78-594937.7	10:45:19.79	–59:49:37.72	0.33	6.99	6.31	286	0.89	31	0.409	0.258	0.151	0.10	0.13	0.43	1.46	–0.13	–2
884	104519.85-594326.5	10:45:19.86	–59:43:26.52	0.13	4.05	16.55	53	0.90	63	0.813	0.684	0.130	0.10	0.11	0.44	1.35	–0.93	–3
885	104519.98-594847.0	10:45:19.98	–59:48:47.03	0.33	6.33	6.32	206	0.90	18	0.239	0.027	0.211	0.23	0.22	NaN	2.17	–0.25	–2
886	104520.14-593919.2	10:45:20.15	–59:39:19.29	0.22	6.13	12.13	181	0.90	60	0.778	0.598	0.180	0.10	0.13	0.51	1.47	–0.72	–2
887	104520.37-594458.9	10:45:20.37	–59:44:58.98	0.35	4.23	5.02	55	0.90	4	0.052	0.017	0.035	0.12	0.13	NaN	1.48	–0.04	–1
888	104520.60-594251.1	10:45:20.61	–59:42:51.17	0.13	4.25	17.34	59	0.89	71	0.917	0.900	0.018	0.06	0.07	0.30	0.99	–0.84	–3
889	104520.64-594132.4	10:45:20.65	–59:41:32.41	0.26	4.75	7.51	86	0.90	17	0.222	0.205	0.017	0.07	0.09	NaN	1.19	–0.12	–3
890	104520.70-594401.2	10:45:20.71	–59:44: 1.25	0.15	4.13	13.90	54	0.89	50	0.642	0.336	0.306	0.12	0.17	0.44	1.80	–3.40	–2
891	104520.80-594808.2	10:45:20.80	–59:48: 8.24	0.34	5.92	4.68	164	0.90	14	0.187	0.079	0.108	0.14	0.16	0.51	1.69	–0.06	–1
892	104520.84-594013.0	10:45:20.84	–59:40:13.02	0.26	5.55	9.84	135	0.90	28	0.366	0.366	0.001	0.09	0.11	NaN	1.33	–0.31	–2
893	104520.92-594530.3	10:45:20.93	–59:45:30.35	0.24	4.45	7.98	62	0.90	15	0.193	0.153	0.040	0.11	0.12	0.65	1.42	–1.47	–3
894	104520.97-594548.7	10:45:20.97	–59:45:48.73	0.15	4.58	13.52	66	0.90	56	0.723	0.329	0.393	0.12	0.20	0.34	1.99	–1.27	–2
895	104521.10-594447.4	10:45:21.10	–59:44:47.44	0.28	4.27	5.45	56	0.89	10	0.132	0.085	0.047	0.13	0.15	0.48	1.61	–0.06	–2
896	104521.37-594134.4	10:45:21.38	–59:41:34.42	0.19	4.82	12.55	90	0.90	40	0.514	0.394	0.120	0.11	0.13	0.45	1.47	–0.13	–2
897	104521.43-594047.5	10:45:21.43	–59:40:47.54	0.30	5.25	7.14	116	0.90	12	0.160	0.114	0.046	0.11	0.17	0.43	1.78	–1.73	–2
898	104521.47-594420.0	10:45:21.48	–59:44:20.04	0.21	4.25	9.74	57	0.89	24	0.312	0.171	0.141	0.13	0.17	0.51	1.80	–3.65	–2
899	104521.51-594431.8	10:45:21.51	–59:44:31.80	0.36	4.28	4.96	57	0.89	3	0.051	0.037	0.014	0.15	0.15	NaN	1.62	–0.32	–2
900	104521.55-594521.7	10:45:21.56	–59:45:21.74	0.30	4.48	4.89	63	0.89	8	0.105	0.099	0.006	0.09	0.08	0.31	1.09	–2.38	–1
901	104521.75-594206.1	10:45:21.76	–59:42: 6.20	0.32	4.63	5.79	83	0.90	10	0.133	0.104	0.029	0.15	0.15	0.35	1.62	–0.73	–3
902	104521.96-594021.2	10:45:21.96	–59:40:21.21	0.15	5.57	17.23	137	0.90	119	1.526	1.090	0.436	0.12	0.15	0.36	1.65	–3.04	–2
903	104522.00-594052.6	10:45:22.01	–59:40:52.67	0.12	5.26	24.10	117	0.90	147	1.869	1.485	0.384	0.12	0.14	0.37	1.53	–0.19	–2
904	104522.03-594356.4	10:45:22.03	–59:43:56.42	0.13	4.30	16.88	69	0.90	75	0.957	0.605	0.351	0.12	0.16	0.38	1.73	–4.00	–2
905	104522.08-594145.7	10:45:22.08	–59:41:45.71	0.15	4.81	16.64	90	0.90	75	0.958	0.564	0.394	0.09	0.17	0.39	1.74	–0.47	–3
906	104522.13-593755.5	10:45:22.14	–59:37:55.57	0.30	7.37	11.64	369	0.90	52	0.668	0.481	0.187	0.12	0.13	0.35	1.45	–0.36	–3
907	104522.14-594336.0	10:45:22.14	–59:43:36.07	0.15	4.32	15.42	70	0.90	60	0.765	0.585	0.180	0.13	0.15	0.41	1.59	–0.46	–2
908	104522.18-595114.1	10:45:22.19	–59:51:14.11	0.35	8.50	10.03	740	0.91	66	0.845	0.523	0.322	0.12	0.13	0.36	1.50	–0.59	–2
909	104522.31-595046.8	10:45:22.32	–59:50:46.84	0.22	8.12	24.47	531	0.90	194	2.480	2.208	0.271	0.10	0.11	0.40	1.31	–0.14	–2
910	104522.41-594542.5	10:45:22.42	–59:45:42.50	0.48	4.70	4.62	80	0.90	2	0.033	0.050	0.017	0.22	0.13	NaN	1.47	–0.18	–1
911	104523.09-594502.4	10:45:23.10	–59:45: 2.50	0.31	4.57	5.20	78	0.90	8	0.107	0.057	0.050	0.12	0.11	0.39	1.36	–0.05	–2
912	104523.21-594456.3	10:45:23.21	–59:44:56.37	0.21	4.56	7.40	78	0.90	28	0.361	0.242	0.119	0.10	0.14	0.42	1.55	–1.20	–2
913	104523.54-593914.0	10:45:23.55	–59:39:14.01	0.33	6.48	6.81	217	0.89	27	0.349	0.325	0.024	0.06	0.07	0.33	1.02	–0.77	–3
914	104523.55-594520.5	10:45:23.55	–59:45:20.57	0.26	4.71	7.21	84	0.90	14	0.189	0.092	0.097	0.11	0.18	0.35	1.81	–0.43	–3
915	104523.56-594546.2	10:45:23.56	–59:45:46.21	0.34	4.86	4.82	89	0.90	7	0.095	0.053	0.042	0.19	0.19	NaN	1.92	–0.08	–1
916	104523.73-594144.7	10:45:23.73	–59:41:44.75	0.17	5.00	13.46	102	0.90	62	0.787	0.659	0.128	0.11	0.11	0.40	1.32	–0.12	–3
917	104523.85-594501.3	10:45:23.86	–59:45: 1.36	0.23	4.66	5.34	83	0.90	23	0.292	0.260	0.032	0.11	0.11	0.30	1.34	–0.50	–2

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
918	104523.97-594529.4	10:45:23.97	–59:45:29.42	0.32	4.81	4.93	89	0.90	7	0.092	0.023	0.115	0.48	0.42	NaN	3.68	–0.36	–2
919	104523.99-594411.9	10:45:23.99	–59:44:11.91	0.29	4.55	4.75	82	0.90	11	0.145	0.142	0.003	0.09	0.08	0.49	1.13	–0.09	–1
920	104524.09-594343.8	10:45:24.09	–59:43:43.84	0.18	4.56	12.09	83	0.91	46	0.588	0.398	0.189	0.11	0.14	0.39	1.58	–4.00	–2
921	104524.12-594750.5	10:45:24.13	–59:47:50.51	0.36	6.02	5.36	172	0.90	8	0.113	0.023	0.089	0.20	0.20	NaN	1.99	–0.31	–1
922	104524.50-594220.5	10:45:24.51	–59:42:20.56	0.21	4.87	11.21	99	0.90	40	0.507	0.345	0.162	0.13	0.15	0.36	1.59	–0.49	–3
923	104524.62-594506.9	10:45:24.63	–59:45: 6.91	0.22	4.78	9.30	89	0.90	28	0.358	0.182	0.176	0.13	0.17	0.39	1.75	–1.64	–2
924	104524.63-594126.9	10:45:24.63	–59:41:26.97	0.15	5.24	16.48	119	0.91	89	1.134	0.769	0.364	0.11	0.15	0.41	1.62	–0.52	–2
925	104525.09-594106.8	10:45:25.09	–59:41: 6.83	0.31	5.45	6.77	133	0.91	13	0.169	0.164	0.005	0.10	0.12	NaN	1.42	–1.77	–3
926	104525.29-594125.7	10:45:25.29	–59:41:25.78	0.22	5.32	7.07	49	0.74	27	0.430	0.327	0.103	0.08	0.12	0.39	1.38	–0.43	–2
927	104525.60-594413.8	10:45:25.60	–59:44:13.82	0.31	4.76	6.03	81	0.89	8	0.105	0.023	0.083	0.17	0.18	0.48	1.83	–0.59	–2
928	104525.60-594351.0	10:45:25.61	–59:43:51.02	0.10	4.75	29.48	82	0.89	179	2.303	1.503	0.800	0.11	0.14	0.36	1.55	–0.14	–2
929	104525.61-594935.0	10:45:25.61	–59:49:35.06	0.32	7.40	7.50	344	0.89	48	0.627	0.228	0.399	0.05	0.22	0.43	2.15	–1.59	–3
930	104525.61-594101.3	10:45:25.62	–59:41: 1.31	0.36	5.56	4.73	140	0.91	9	0.120	0.036	0.084	0.05	0.30	0.55	2.74	–2.21	–1
931	104525.64-594232.7	10:45:25.65	–59:42:32.70	0.31	4.94	5.51	104	0.91	13	0.176	0.149	0.027	0.12	0.13	0.31	1.44	–0.15	–3
932	104525.77-594753.8	10:45:25.77	–59:47:53.80	0.24	6.22	10.54	191	0.90	46	0.596	0.092	0.505	0.14	0.30	0.44	2.77	–0.36	–2
933	104525.95-594656.1	10:45:25.95	–59:46:56.11	0.15	5.67	20.69	144	0.90	118	1.510	0.430	1.080	0.14	0.29	0.49	2.64	–4.00	–2
934	104525.95-594404.1	10:45:25.96	–59:44: 4.17	0.16	4.79	15.93	84	0.89	71	0.917	0.621	0.296	0.12	0.14	0.33	1.55	–3.72	–2
935	104526.43-594029.1	10:45:26.44	–59:40:29.10	0.25	5.94	10.77	168	0.90	44	0.562	0.474	0.088	0.06	0.07	0.29	1.03	–0.69	–3
936	104526.44-594350.6	10:45:26.45	–59:43:50.61	0.35	4.85	4.79	21	0.58	5	0.103	0.013	0.090	0.12	0.32	0.53	2.91	–0.52	–1
937	104526.69-594845.5	10:45:26.70	–59:48:45.51	0.30	6.88	6.60	265	0.89	30	0.394	0.240	0.155	0.11	0.10	0.39	1.22	–1.15	–2
938	104526.89-594828.8	10:45:26.90	–59:48:28.88	0.24	6.71	9.80	247	0.90	59	0.758	0.177	0.581	0.13	0.25	0.38	2.36	–0.54	–2
939	104526.91-594149.8	10:45:26.92	–59:41:49.83	0.31	5.33	8.35	111	0.89	17	0.219	0.173	0.046	0.10	0.11	0.64	1.31	–0.27	–2
940	104527.00-594232.3	10:45:27.00	–59:42:32.40	0.31	5.11	7.16	101	0.89	16	0.211	0.139	0.072	0.08	0.12	0.30	1.42	–1.02	–3
941	104527.05-593857.4	10:45:27.05	–59:38:57.44	0.35	6.99	6.37	298	0.90	26	0.342	0.221	0.122	0.08	0.12	0.51	1.37	–0.13	–2
942	104527.09-594922.1	10:45:27.09	–59:49:22.15	0.32	7.36	7.36	338	0.89	40	0.518	0.086	0.432	0.08	0.25	0.45	2.40	–0.51	–2
943	104527.13-594519.4	10:45:27.13	–59:45:19.49	0.25	5.14	6.09	97	0.89	23	0.306	0.233	0.073	0.13	0.13	0.35	1.51	–0.40	–2
944	104527.21-594219.5	10:45:27.22	–59:42:19.60	0.23	5.20	12.11	106	0.89	39	0.503	0.335	0.168	0.09	0.14	0.33	1.53	–0.12	–3
945	104527.87-594235.5	10:45:27.87	–59:42:35.50	0.40	5.20	4.91	50	0.74	6	0.097	0.055	0.043	0.08	0.17	0.36	1.78	–2.02	–4
946	104527.95-594138.9	10:45:27.96	–59:41:38.91	0.10	5.53	24.54	29	0.58	112	2.235	1.649	0.586	0.10	0.13	0.42	1.47	–0.16	–3
947	104527.98-594320.1	10:45:27.99	–59:43:20.16	0.37	5.08	5.60	101	0.89	7	0.100	0.076	0.024	0.12	0.09	NaN	1.21	–2.15	–3
948	104528.24-594230.3	10:45:28.24	–59:42:30.33	0.27	5.27	9.16	126	0.91	27	0.353	0.229	0.124	0.13	0.16	0.35	1.72	–1.14	–2
949	104528.24-594607.4	10:45:28.25	–59:46: 7.43	0.31	5.54	5.65	121	0.89	20	0.259	0.194	0.065	0.13	0.14	0.37	1.57	–0.67	–2
950	104528.27-594103.4	10:45:28.27	–59:41: 3.47	0.36	5.83	4.95	162	0.90	12	0.156	0.120	0.037	0.09	0.09	NaN	1.15	–0.47	–4
951	104528.31-594708.0	10:45:28.32	–59:47: 8.07	0.34	6.02	6.42	175	0.90	15	0.201	0.090	0.111	0.17	0.17	0.57	1.77	–0.97	–2
952	104528.31-594556.5	10:45:28.32	–59:45:56.59	0.29	5.48	6.90	117	0.89	18	0.236	0.149	0.087	0.12	0.14	0.31	1.58	–0.02	–2
953	104528.35-594023.4	10:45:28.36	–59:40:23.45	0.34	6.19	6.11	191	0.90	20	0.265	0.174	0.091	0.11	0.12	0.54	1.41	–0.50	–3
954	104528.48-594155.8	10:45:28.48	–59:41:55.88	0.21	5.48	12.93	138	0.90	55	0.710	0.492	0.217	0.12	0.13	0.43	1.48	–0.18	–2
955	104528.51-594246.2	10:45:28.51	–59:42:46.30	0.19	5.24	15.91	125	0.91	69	0.874	0.678	0.196	0.10	0.12	0.39	1.41	–0.37	–3
956	104528.57-594150.5	10:45:28.57	–59:41:50.55	0.40	5.52	5.13	55	0.73	7	0.117	0.089	0.028	0.10	0.12	0.61	1.37	–2.31	–4
957	104528.58-594755.5	10:45:28.58	–59:47:55.53	0.26	6.51	8.86	223	0.90	47	0.606	0.426	0.180	0.13	0.15	0.35	1.64	–1.22	–2
958	104528.89-594348.0	10:45:28.90	–59:43:48.01	0.11	5.16	27.23	120	0.91	180	2.278	1.688	0.590	0.12	0.15	0.42	1.64	–0.03	–2
959	104529.44-594649.7	10:45:29.44	–59:46:49.77	0.29	5.99	6.83	171	0.90	27	0.353	0.061	0.293	0.09	0.23	0.38	2.19	–1.21	–2
960	104529.80-594515.0	10:45:29.80	–59:45:15.07	0.34	5.44	5.34	132	0.90	12	0.159	0.083	0.075	0.10	0.15	0.43	1.59	–0.39	–3
961	104530.24-594820.8	10:45:30.24	–59:48:20.84	0.17	6.94	23.34	269	0.89	176	2.265	1.317	0.948	0.13	0.16	0.38	1.74	–0.17	–2
962	104530.24-594628.7	10:45:30.25	–59:46:28.78	0.28	5.92	5.78	165	0.90	28	0.368	0.341	0.027	0.10	0.10	0.33	1.24	–1.68	–1
963	104530.39-594753.2	10:45:30.39	–59:47:53.25	0.31	6.67	5.09	238	0.89	26	0.341	0.122	0.219	0.11	0.15	0.46	1.64	–0.21	–1

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYGJ+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
964	104530.66-594035.1	10:45:30.67	–59:40:35.12	0.36	6.33	4.90	209	0.90	12	0.159	0.134	0.025	0.12	0.14	0.59	1.58	–1.07	–1
965	104530.95-594342.6	10:45:30.96	–59:43:42.67	0.33	5.43	5.21	142	0.90	12	0.153	0.017	0.136	0.12	0.30	0.51	2.72	–0.62	–1
966	104530.98-595044.5	10:45:30.98	–59:50:44.50	0.34	8.72	9.26	667	0.89	78	1.005	0.586	0.419	0.09	0.14	0.38	1.54	–0.86	–2
967	104531.34-594113.5	10:45:31.34	–59:41:13.56	0.28	6.09	11.47	191	0.90	37	0.484	0.337	0.147	0.12	0.14	0.42	1.53	–0.87	–2
968	104531.99-594238.9	10:45:32.00	–59:42:38.99	0.23	5.69	12.75	166	0.90	52	0.664	0.382	0.282	0.13	0.16	0.35	1.70	–0.27	–2
969	104532.02-594750.7	10:45:32.02	–59:47:50.74	0.27	6.81	4.82	112	0.73	35	0.552	0.230	0.322	0.10	0.21	0.37	2.04	–2.85	–1
970	104532.22-594819.8	10:45:32.22	–59:48:19.85	0.33	7.12	5.84	325	0.90	29	0.373	0.215	0.158	0.11	0.13	0.44	1.49	–2.41	–1
971	104532.29-594319.8	10:45:32.30	–59:43:19.84	0.12	5.62	26.26	163	0.90	215	2.732	1.259	1.473	0.13	0.20	0.42	2.03	–4.00	–2
972	104532.54-594634.5	10:45:32.55	–59:46:34.59	0.36	6.22	4.85	196	0.90	15	0.200	0.074	0.126	0.16	0.17	0.49	1.74	–0.32	–1
973	104532.68-594857.0	10:45:32.68	–59:48:57.10	0.29	7.56	11.60	401	0.90	53	0.677	0.393	0.284	0.11	0.14	0.36	1.57	–0.42	–2
974	104532.71-594916.6	10:45:32.72	–59:49:16.65	0.34	7.79	4.90	192	0.73	30	0.478	0.291	0.187	0.13	0.14	0.34	1.55	–0.50	–1
975	104532.80-594746.7	10:45:32.81	–59:47:46.73	0.19	6.85	19.59	260	0.89	133	1.721	0.520	1.201	0.14	0.28	0.41	2.57	–4.00	–2
976	104532.91-594133.9	10:45:32.92	–59:41:33.95	0.35	6.14	5.38	196	0.90	20	0.262	0.128	0.134	0.13	0.17	0.40	1.81	–0.15	–2
977	104532.97-594839.4	10:45:32.97	–59:48:39.49	0.33	7.40	5.54	371	0.90	23	0.293	0.046	0.339	0.57	0.28	NaN	2.59	–0.23	–1
978	104533.50-594907.2	10:45:33.51	–59:49: 7.20	0.29	7.75	7.54	441	0.90	58	0.743	0.400	0.344	0.10	0.13	0.43	1.48	–0.17	–2
979	104533.62-594715.1	10:45:33.62	–59:47:15.19	0.30	6.66	8.33	242	0.89	36	0.472	0.239	0.233	0.11	0.14	0.39	1.53	–0.30	–2
980	104533.72-594808.4	10:45:33.72	–59:48: 8.49	0.22	7.15	14.95	333	0.90	102	1.299	0.491	0.808	0.14	0.21	0.40	2.05	–4.00	–2
981	104534.04-595008.8	10:45:34.04	–59:50: 8.84	0.40	8.52	4.87	611	0.89	29	0.376	0.365	0.011	0.07	0.07	0.38	1.06	–0.98	–3
982	104534.18-595040.9	10:45:34.19	–59:50:40.92	0.35	8.93	8.67	803	0.91	70	0.887	0.748	0.139	0.12	0.12	0.32	1.41	–0.02	–2
983	104534.20-594253.2	10:45:34.20	–59:42:53.20	0.41	5.92	6.70	190	0.91	18	0.236	0.103	0.133	0.12	0.22	0.38	2.14	–0.04	–2
984	104534.51-594916.0	10:45:34.52	–59:49:16.04	0.36	7.95	7.38	207	0.73	17	0.267	0.181	0.086	0.14	0.13	0.57	1.46	–1.19	–2
985	104534.83-594628.6	10:45:34.84	–59:46:28.60	0.33	6.44	5.89	222	0.90	23	0.294	0.141	0.152	0.16	0.17	0.43	1.77	–1.12	–1
986	104535.26-594753.8	10:45:35.27	–59:47:53.83	0.24	7.17	9.94	68	0.57	34	0.698	0.321	0.377	0.14	0.19	0.53	1.89	–0.94	–2
987	104535.40-594545.4	10:45:35.40	–59:45:45.48	0.24	6.26	11.76	207	0.90	58	0.738	0.418	0.320	0.13	0.16	0.38	1.69	–0.08	–3
988	104535.86-594421.5	10:45:35.86	–59:44:21.57	0.35	6.06	5.66	197	0.91	13	0.175	0.026	0.148	0.20	0.20	NaN	2.02	–1.74	–2
989	104535.92-594138.1	10:45:35.93	–59:41:38.17	0.35	6.46	7.83	233	0.90	23	0.301	0.070	0.231	0.16	0.21	0.59	2.09	–0.38	–2
990	104535.95-594113.5	10:45:35.95	–59:41:13.59	0.32	6.62	8.65	247	0.89	36	0.474	0.411	0.063	0.06	0.07	0.31	1.02	–0.67	–3
991	104536.36-594756.0	10:45:36.36	–59:47:56.10	0.32	7.31	5.15	151	0.74	25	0.394	0.293	0.101	0.15	0.15	0.40	1.60	–0.83	–1
992	104536.40-594838.6	10:45:36.41	–59:48:38.61	0.32	7.73	7.36	401	0.89	30	0.389	0.244	0.145	0.12	0.11	0.62	1.34	–0.07	–2
993	104536.48-594410.6	10:45:36.49	–59:44:10.66	0.13	6.12	31.65	205	0.90	234	2.967	1.427	1.540	0.13	0.20	0.43	2.00	–4.00	–2
994	104536.63-595022.1	10:45:36.64	–59:50:22.15	0.40	8.91	5.05	332	0.73	28	0.452	0.325	0.127	0.13	0.13	0.35	1.50	–0.19	–1
995	104536.67-594809.1	10:45:36.68	–59:48: 9.18	0.24	7.46	15.92	360	0.89	88	1.139	0.380	0.759	0.17	0.20	0.41	1.99	–2.07	–2
996	104536.73-594702.4	10:45:36.74	–59:47: 2.40	0.16	6.90	27.67	274	0.90	203	2.602	2.242	0.359	0.12	0.13	0.32	1.48	–0.07	–2
997	104536.81-594821.6	10:45:36.82	–59:48:21.64	0.16	7.60	28.96	382	0.89	273	3.518	2.708	0.810	0.12	0.13	0.37	1.47	–0.59	–2
998	104536.87-594620.2	10:45:36.88	–59:46:20.20	0.31	6.63	7.17	242	0.90	29	0.371	0.186	0.186	0.17	0.18	0.36	1.88	–0.11	–2
999	104537.25-594646.0	10:45:37.25	–59:46:46.02	0.48	6.84	4.88	118	0.74	6	0.101	0.019	0.120	0.29	0.27	NaN	2.50	–0.26	–1
1000	104537.87-594755.0	10:45:37.88	–59:47:55.02	0.31	7.46	6.82	356	0.89	38	0.495	0.228	0.267	0.14	0.14	0.42	1.56	–0.70	–1
1001	104538.28-595029.1	10:45:38.29	–59:50:29.16	0.37	9.14	9.83	775	0.89	71	0.916	0.725	0.191	0.11	0.12	0.37	1.37	–0.35	–2
1002	104538.38-594207.0	10:45:38.39	–59:42: 7.06	0.28	6.61	11.64	264	0.90	58	0.754	0.396	0.358	0.13	0.18	0.44	1.82	–1.58	–2
1003	104538.59-594513.6	10:45:38.59	–59:45:13.67	0.28	6.52	9.45	239	0.90	38	0.491	0.248	0.243	0.14	0.17	0.39	1.77	–0.93	–2
1004	104539.11-594739.4	10:45:39.12	–59:47:39.47	0.36	7.46	4.68	387	0.90	25	0.318	0.147	0.171	0.12	0.12	0.36	1.39	–0.77	–1
1005	104539.15-594526.6	10:45:39.16	–59:45:26.63	0.29	6.63	9.10	250	0.89	39	0.502	0.238	0.265	0.13	0.16	0.51	1.68	–0.20	–2
1006	104539.86-594859.5	10:45:39.87	–59:48:59.52	0.21	8.28	20.51	558	0.90	193	2.463	1.414	1.049	0.13	0.15	0.42	1.66	–0.27	–2
1007	104540.06-594959.1	10:45:40.07	–59:49:59.12	0.38	8.95	6.76	797	0.91	56	0.710	0.343	0.368	0.12	0.12	0.37	1.43	–0.90	–2
1008	104540.16-594202.8	10:45:40.16	–59:42: 2.86	0.39	6.84	5.67	301	0.90	25	0.321	0.156	0.165	0.13	0.16	0.41	1.72	–1.01	–2

Table 1. continued.

N_x	NAME	RA	Dec	Error	θ	Sig.	Area	PSF	Cts	Count Rates ($\times 10^{-3}$ ctn s^{-1})			Quantiles			$\overline{E}_x$	Var.	flag.
#	CXOCYG J+	[h:m:s]	[d:m:s]	($''$)	$'$	(σ)	(px.)	(%)	(ph.)	Tot.	Soft	Hard	Q_{25}	Q_{50}	Q_{75}	(keV)	log ($P_{\rm ks}$)	id
1009	104540.28-594829.7	10:45:40.28	–59:48:29.76	0.34	8.03	5.78	507	0.90	36	0.461	0.292	0.169	0.14	0.11	0.38	1.30	–0.61	–2
1010	104540.32-594924.9	10:45:40.33	–59:49:24.99	0.34	8.59	8.07	636	0.90	42	0.541	0.182	0.359	0.13	0.11	0.37	1.33	–3.99	–2
1011	104540.37-593837.4	10:45:40.37	–59:38:37.47	0.40	8.46	11.16	612	0.90	49	0.623	0.329	0.293	0.13	0.17	0.35	1.80	–1.14	–2
1012	104540.56-594742.3	10:45:40.56	–59:47:42.35	0.30	7.64	8.57	422	0.90	60	0.773	0.298	0.475	0.14	0.20	0.40	2.03	–1.85	–2
1013	104540.56-594752.8	10:45:40.57	–59:47:52.90	0.36	7.73	6.21	190	0.74	25	0.402	0.186	0.216	0.15	0.18	0.38	1.85	–1.17	–1
1014	104541.59-593819.8	10:45:41.59	–59:38:19.84	0.24	8.77	23.47	703	0.90	229	2.913	2.667	0.247	0.07	0.07	0.33	1.05	–0.37	–1
1015	104541.68-594824.0	10:45:41.69	–59:48:24.06	0.38	8.12	4.71	224	0.73	20	0.321	0.193	0.128	0.13	0.12	0.39	1.37	–0.64	–4
1016	104542.17-594803.4	10:45:42.18	–59:48: 3.50	0.32	7.99	8.37	501	0.90	62	0.797	0.394	0.403	0.13	0.17	0.43	1.77	–0.28	–2
1017	104542.48-594254.5	10:45:42.49	–59:42:54.57	0.43	6.95	6.90	329	0.90	30	0.383	0.198	0.185	0.12	0.17	0.42	1.74	NaN	–2
1018	104542.61-594022.1	10:45:42.62	–59:40:22.13	0.46	7.75	6.45	422	0.89	17	0.228	0.176	0.052	0.10	0.12	0.35	1.42	–0.69	–2
1019	104543.63-593953.8	10:45:43.63	–59:39:53.85	0.41	8.09	7.64	522	0.90	33	0.423	0.275	0.148	0.12	0.13	0.43	1.45	–0.36	–2
1020	104543.68-594147.8	10:45:43.69	–59:41:47.81	0.27	7.34	14.30	370	0.89	85	1.099	0.695	0.404	0.11	0.13	0.35	1.50	–1.02	–2
1021	104543.80-594555.3	10:45:43.81	–59:45:55.33	0.38	7.32	5.06	359	0.90	28	0.359	0.164	0.195	0.05	0.16	0.48	1.69	–0.26	–1
1022	104544.26-594313.8	10:45:44.26	–59:43:13.83	0.42	7.13	4.67	357	0.90	15	0.201	0.118	0.083	0.15	0.14	0.37	1.57	–0.46	–1
1023	104544.50-593924.5	10:45:44.51	–59:39:24.59	0.51	8.43	5.98	601	0.90	17	0.228	0.126	0.102	0.12	0.12	0.52	1.43	–0.16	–1
1024	104545.03-594155.0	10:45:45.03	–59:41:55.06	0.47	7.47	4.73	403	0.89	17	0.227	0.227	0.000	0.09	0.09	0.77	1.21	–0.37	–1
1025	104545.56-594948.0	10:45:45.56	–59:49:48.05	0.45	9.35	5.91	839	0.89	16	0.216	0.231	0.015	0.12	0.08	NaN	1.12	–0.27	–1
1026	104545.72-594517.9	10:45:45.72	–59:45:17.97	0.42	7.41	4.68	377	0.89	12	0.154	0.096	0.058	0.11	0.08	0.47	1.07	–0.15	–1
1027	104545.95-594638.0	10:45:45.96	–59:46:38.02	0.38	7.80	6.35	428	0.89	40	0.516	0.363	0.153	0.07	0.08	0.51	1.09	–0.21	–1
1028	104546.46-595022.9	10:45:46.46	–59:50:22.94	0.47	9.81	5.34	1094	0.91	34	0.441	0.299	0.143	0.13	0.12	0.50	1.39	–1.26	–4
1029	104546.61-594840.3	10:45:46.62	–59:48:40.36	0.31	8.79	13.22	680	0.89	94	1.214	0.696	0.518	0.15	0.17	0.41	1.74	–1.18	–2
1030	104546.88-595042.1	10:45:46.89	–59:50:42.18	0.41	10.06	7.20	1228	0.90	78	0.993	0.635	0.358	0.12	0.15	0.49	1.59	–2.72	–1
1031	104547.79-594749.0	10:45:47.79	–59:47:49.08	0.33	8.49	9.62	610	0.90	55	0.707	0.159	0.549	0.17	0.20	0.45	1.99	–1.37	–2
1032	104548.72-594608.8	10:45:48.72	–59:46: 8.86	0.42	7.98	6.51	527	0.90	26	0.330	0.042	0.372	0.39	0.33	NaN	3.01	–0.54	–2
1033	104550.24-594705.1	10:45:50.24	–59:47: 5.19	0.41	8.47	7.10	627	0.90	34	0.439	0.142	0.297	0.19	0.17	NaN	1.75	–0.30	–1
1034	104551.63-594535.9	10:45:51.63	–59:45:35.98	0.44	8.20	6.99	545	0.89	29	0.372	0.154	0.218	0.08	0.16	0.35	1.66	–2.64	–3
1035	104552.19-594810.7	10:45:52.19	–59:48:10.79	0.34	9.15	10.27	864	0.91	89	1.134	0.604	0.530	0.12	0.14	0.40	1.51	–0.53	–2

Table 2. Near-IR counterparts of Trumpler 16 X-ray sources.

N_x	2MASS J+	Off.″	J mag	H mag	K_s mag	Ph.Q	Cont.	A_v	Mass	ID.flags
1	10433859-5938306	2.33	14.57 ± 0.03	13.21 ± 0.04	12.63 ± 0.03	AAA	000	7.93	2.05	
2	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
3	10434145-5942245	0.30	14.18 ± 0.03	13.20 ± 0.02	12.82 ± 0.02	AAA	000	4.59	2.24	
4	10434126-5941002	2.62	15.47 ± ****	15.31 ± 0.14	14.60 ± 0.14	UBB	000	NaN	NaN	
5	10434295-5944080	1.77	15.63 ± 0.08	14.31 ± 0.06	13.27 ± 0.04	AAA	000	15.27	1.25	K-excess
6	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
7	10434401-5948177	0.76	8.70 ± 0.02	8.51 ± 0.04	8.47 ± 0.02	AAA	000	1.38	19.15	O9.5V
8	10434538-5939468	1.92	15.90 ± ****	14.88 ± ****	14.90 ± 0.16	UUC	000	NaN	NaN	
9	10434536-5938471	0.36	16.02 ± 0.10	14.04 ± 0.04	13.02 ± 0.04	AAA	000	14.90	1.01	
10	10434525-5941567	2.61	14.37 ± 0.06	12.99 ± 0.05	12.18 ± 0.04	AAA	000	12.05	2.16	K-excess
11	10434659-5949292	1.68	13.69 ± 0.05	12.68 ± 0.05	12.25 ± 0.04	AEA	c0c	NaN	2.38	
12	10434809-5949246	0.50	13.51 ± ****	13.09 ± 0.07	12.85 ± 0.05	UAA	0cc	NaN	NaN	
13	10434937-5944549	1.45	12.67 ± 0.02	12.20 ± 0.03	12.06 ± 0.03	AAA	000	0.82	4.89	
14	10435007-5945530	0.59	15.56 ± 0.05	14.59 ± 0.03	14.19 ± 0.07	AAA	000	4.31	1.30	
15	10435085-5937437	1.28	14.86 ± 0.05	13.74 ± 0.05	13.40 ± 0.05	AAA	000	3.76	1.86	
16	10435088-5950307	0.47	12.20 ± 0.02	11.99 ± 0.03	11.88 ± 0.02	AAA	000	0.28	6.22	
17	10435123-5940243	1.06	14.60 ± 0.05	13.38 ± 0.04	12.88 ± 0.04	AAA	000	6.57	2.03	
18	10435132-5945239	2.64	15.54 ± 0.08	14.06 ± ****	13.55 ± ****	AUU	cpp	NaN	1.31	
19	10435191-5940353	0.40	16.49 ± 0.16	15.15 ± 0.09	14.63 ± 0.11	CAA	000	NaN	0.70	
20	10435186-5948017	2.02	14.49 ± 0.05	13.46 ± 0.06	12.95 ± 0.05	AAA	000	6.60	2.09	
21	10435223-5941574	0.29	14.83 ± 0.05	14.46 ± 0.08	14.35 ± 0.11	AAA	000	NaN	1.88	
22	10435230-5939222	1.87	13.03 ± 0.04	11.90 ± 0.06	11.20 ± 0.04	AEE	000	NaN	3.55	Mass-deg.
23	10435408-5941463	1.19	15.40 ± 0.07	14.24 ± 0.05	13.79 ± 0.05	AAA	000	5.47	1.40	
24	10435419-5938073	2.13	13.03 ± ****	13.70 ± 0.06	13.53 ± 0.07	UAA	0cc	NaN	NaN	
25	10435501-5936242	0.75	11.64 ± 0.02	11.48 ± 0.03	11.37 ± 0.03	AAA	000	0.42	8.28	
26	10435505-5947505	0.70	14.18 ± 0.03	13.81 ± 0.04	13.70 ± 0.06	AAA	000	NaN	2.24	
27	10435545-5942531	0.50	14.93 ± 0.05	14.11 ± 0.05	13.84 ± 0.06	AAA	000	2.37	1.81	
28	10435557-5949226	0.39	13.44 ± 0.03	12.65 ± 0.03	12.24 ± 0.03	AAA	000	5.08	2.45	
29	10435606-5949351	1.97	14.53 ± 0.05	13.83 ± 0.05	13.60 ± 0.06	AAA	000	1.87	2.07	
30	10435684-5942364	0.45	14.70 ± 0.05	13.57 ± 0.03	12.88 ± 0.04	AAA	000	9.63	1.97	K-excess
31	10435797-5949022	1.04	15.45 ± ****	14.71 ± 0.06	14.50 ± 0.11	UAB	000	NaN	NaN	
32	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
33	10435930-5936527	0.17	15.52 ± 0.09	14.37 ± 0.06	13.91 ± 0.07	AAA	000	5.51	1.33	
34	10440004-5936400	2.62	14.34 ± 0.03	13.49 ± 0.02	13.17 ± 0.03	AAA	spp	3.48	2.18	
35	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
36	10440100-5944098	0.24	13.54 ± 0.03	12.26 ± 0.02	11.43 ± 0.02	AAA	000	NaN	2.42	K-excess
37	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
38	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
39	10440164-5944580	0.42	13.92 ± 0.03	13.33 ± 0.04	12.89 ± 0.04	AAA	c00	5.53	2.31	K-excess
40	10440206-5945114	0.39	15.09 ± 0.06	14.06 ± 0.05	13.43 ± 0.05	AAA	000	8.56	1.66	K-excess
41	10440209-5937522	1.34	12.06 ± 0.02	11.22 ± 0.02	10.57 ± 0.02	AAA	000	NaN	6.71	K-excess
42	10440234-5948257	1.01	15.03 ± 0.05	14.02 ± 0.04	13.65 ± 0.05	AAA	000	4.03	1.72	
43	10440277-5939464	0.19	10.96 ± 0.02	10.36 ± 0.02	10.19 ± 0.02	AAA	000	3.48	10.79	
44	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
45	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
46	10440355-5937000	0.65	14.54 ± 0.05	13.68 ± 0.03	13.45 ± 0.05	AAA	000	1.95	2.07	
47	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
48	10440402-5944142	0.81	15.81 ± ****	14.78 ± 0.07	14.39 ± 0.12	UAB	0cc	NaN	NaN	
49	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
50	10440533-5945433	0.50	15.94 ± 0.10	15.11 ± 0.09	15.98 ± ****	AAU	000	NaN	1.06	
51	10440579-5943543	1.14	15.62 ± 0.10	14.38 ± 0.06	13.86 ± 0.07	AAA	c00	6.50	1.26	
52	10440583-5935116	1.27	10.16 ± 0.02	9.97 ± 0.02	9.92 ± 0.02	AAA	000	1.63	13.76	B1V
53	10440588-5939087	0.75	14.87 ± 0.07	14.14 ± 0.07	13.64 ± 0.07	AAA	000	6.25	1.85	K-excess
54	10440591-5946488	0.86	14.92 ± 0.11	14.16 ± 0.08	13.76 ± 0.16	AAB	ccc	NaN	1.81	
55	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
56	10440683-5936116	0.44	11.73 ± 0.02	11.33 ± 0.02	11.14 ± 0.02	AAA	000	1.99	7.94	
57	10440695-5941469	0.21	15.34 ± ****	14.20 ± ****	13.81 ± 0.07	UUA	00c	NaN	NaN	
58	10440727-5948461	1.09	11.56 ± 0.02	10.78 ± 0.02	10.61 ± 0.02	AAA	000	NaN	8.59	
59	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
60	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
61	10440804-5945222	0.57	14.62 ± 0.05	13.82 ± 0.04	13.32 ± 0.05	AAA	000	6.46	2.02	K-excess
62	10440820-5940373	0.09	14.76 ± 0.07	14.00 ± 0.06	13.67 ± 0.07	AAA	ccc	3.55	1.93	
63	10440871-5936104	0.49	13.05 ± 0.03	12.49 ± 0.03	12.31 ± 0.04	AAA	ccc	1.52	3.55	Mass-deg.
64	10440861-5938281	2.43	16.62 ± 0.22	15.31 ± 0.11	14.73 ± ****	DBU	cc0	NaN	0.65	
65	10440910-5945388	0.12	15.45 ± 0.07	14.47 ± 0.05	13.99 ± 0.07	AAA	ccc	5.84	1.37	
66	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	

Table 2. continued.

N_x	2MASS J+	Off.″	J mag	H mag	K_s mag	Ph.Q	Cont.	A_v	Mass	ID.flags
67	10440958-5951031	1.07	15.48 ± ****	14.86 ± 0.10	14.94 ± 0.14	UAB	0cc	NaN	NaN	
68	10440976-5943383	1.26	12.95 ± 0.03	12.56 ± 0.02	12.33 ± 0.03	AAA	00c	2.24	3.55	Mass-deg.
69	10440976-5944480	0.60	12.62 ± 0.03	11.98 ± 0.03	11.75 ± 0.03	AAA	ccc	2.36	4.98	
70	10441017-5935514	0.88	14.57 ± 0.05	13.78 ± 0.05	13.48 ± 0.06	AAA	0cc	2.99	2.05	
71	10441031-5948171	0.65	14.80 ± 0.04	14.15 ± ****	14.19 ± ****	AUU	c00	NaN	1.90	
72	10441035-5939566	1.71	15.41 ± 0.08	14.75 ± 0.07	14.42 ± 0.11	AAB	ccc	NaN	1.39	
73	10441037-5943534	1.12	14.22 ± ****	13.91 ± 0.06	13.26 ± 0.07	UAA	00c	NaN	NaN	
74	10441038-5943111	0.30	6.26 ± 0.01	5.97 ± 0.02	5.72 ± 0.01	AAA	ddd	NaN	28.21	WN6ha + O4f
75	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
76	10441079-5940135	0.60	14.65 ± 0.05	13.81 ± 0.05	13.54 ± 0.06	AAA	000	2.56	2.00	
77	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
78	10441134-5945333	0.29	16.03 ± 0.13	14.80 ± 0.08	14.38 ± 0.10	BAA	000	NaN	1.01	
79	10441161-5939168	0.45	14.60 ± 0.05	13.75 ± 0.05	13.22 ± 0.05	AAA	c00	6.98	2.03	K-excess
80	10441184-5942233	0.31	15.35 ± 0.07	14.19 ± 0.05	12.96 ± ****	AAU	cc0	NaN	1.43	
81	10441186-5941433	0.50	15.32 ± 0.07	14.64 ± 0.06	14.58 ± 0.12	AAB	000	NaN	1.46	
82	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
83	10441187-5944146	0.38	15.48 ± 0.08	14.49 ± 0.05	14.06 ± 0.08	AAA	ccc	4.93	1.35	
84	10441243-5942127	0.63	16.28 ± ****	15.10 ± 0.11	14.46 ± ****	UBU	000	NaN	NaN	
85	10441249-5943512	0.57	15.57 ± 0.13	14.63 ± 0.11	14.16 ± 0.12	BBB	ccc	NaN	1.29	
86	10441282-5944187	0.46	15.35 ± 0.08	14.40 ± 0.05	13.86 ± 0.07	AAA	ccc	6.74	1.44	
87	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
88	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
89	10441319-5943103	0.34	7.84 ± 0.01	7.38 ± 0.04	7.06 ± 0.02	AAA	ddd	6.01	22.36	O4If
90	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
91	10441389-5942404	0.58	15.83 ± 0.15	15.07 ± 0.12	14.53 ± 0.14	BBB	ccc	NaN	1.13	
92	10441385-5942249	0.23	14.38 ± 0.05	13.55 ± 0.04	13.34 ± 0.05	AAA	000	1.66	2.16	
93	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
94	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
95	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
96	10441525-5944475	1.85	15.33 ± 0.08	14.52 ± 0.06	13.91 ± ****	AAU	cc0	NaN	1.45	
97	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
98	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
99	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
100	10441574-5938153	1.68	15.28 ± 0.10	14.37 ± 0.08	13.81 ± ****	AAU	cc0	NaN	1.49	
101	10441594-5940236	0.60	14.02 ± 0.03	13.15 ± 0.03	12.68 ± 0.03	AAA	000	6.10	2.28	
102	10441629-5944215	0.43	14.62 ± 0.06	13.97 ± 0.06	13.60 ± 0.06	AAA	c0c	4.24	2.02	
103	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
104	10441648-5935100	0.78	13.26 ± 0.03	12.60 ± 0.03	12.34 ± 0.03	AAA	000	2.66	2.50	
105	10441711-5941568	2.35	13.81 ± 0.03	12.97 ± 0.03	12.70 ± 0.03	AAA	000	2.94	2.34	
106	10441742-5945475	0.26	15.60 ± ****	14.40 ± ****	13.72 ± 0.06	UUA	00c	NaN	NaN	
107	10441752-5943331	0.19	14.78 ± 0.06	13.99 ± 0.05	13.90 ± 0.08	AAA	ccc	NaN	1.92	
108	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
109	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
110	10441770-5942359	0.33	14.64 ± 0.06	13.94 ± 0.06	13.61 ± 0.07	AAA	cc0	3.55	2.01	
111	10441794-5943570	0.17	14.84 ± 0.05	13.96 ± 0.04	13.57 ± 0.06	AAA	ccc	4.48	1.87	
112	10441835-5943474	1.09	15.80 ± 0.14	14.81 ± 0.10	14.19 ± 0.10	BAA	pcc	NaN	1.15	
113	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
114	10441944-5939503	0.44	13.79 ± 0.01	12.90 ± 0.02	12.26 ± 0.01	AAA	000	8.90	2.35	K-excess
115	10441951-5943518	0.74	14.75 ± 0.05	13.95 ± 0.05	13.69 ± 0.06	AAA	ccc	2.27	1.94	
116	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
117	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
118	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
119	10442013-5943396	0.57	14.91 ± 0.11	13.52 ± ****	13.17 ± ****	AUU	c00	NaN	1.82	
120	10442019-5938264	0.21	15.08 ± 0.10	14.28 ± 0.09	14.13 ± 0.10	AAA	ccc	NaN	1.67	
121	10442016-5942296	0.33	14.03 ± 0.04	13.24 ± 0.04	12.86 ± 0.05	AAA	000	4.63	2.28	
122	10442040-5944155	0.43	16.00 ± 0.14	15.09 ± 0.11	15.05 ± ****	BBU	cc0	NaN	1.02	
123	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
124	10442056-5950282	0.26	14.46 ± 0.03	13.36 ± 0.02	12.85 ± 0.03	AAA	000	6.70	2.11	
125	10442096-5945407	1.28	15.59 ± ****	14.23 ± 0.05	13.71 ± 0.06	UAA	0cc	NaN	NaN	
126	10442104-5944198	0.33	14.63 ± 0.05	13.98 ± 0.05	13.71 ± 0.07	AAA	ccc	2.52	2.01	
127	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
128	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
129	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
130	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
131	10442202-5940045	0.11	15.42 ± 0.09	14.60 ± 0.07	14.26 ± 0.10	AAA	000	3.07	1.39	
132	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	

Table 2. continued.

N_x	2MASS J+	Off.″	J mag	H mag	K_s mag	Ph.Q	Cont.	A_v	Mass	ID.flags
133	10442219-5950575	0.57	12.40 ± 0.02	11.84 ± 0.02	11.62 ± 0.02	AAA	000	2.07	5.59	
134	10442236-5943086	0.09	15.03 ± 0.07	14.04 ± ****	13.83 ± ****	AUU	c00	NaN	1.72	
135	10442256-5943415	0.27	16.87 ± ****	15.52 ± ****	14.68 ± 0.13	UUB	00c	NaN	NaN	
136	10442251-5939258	0.82	10.66 ± 0.02	10.55 ± 0.02	10.51 ± 0.02	AAA	ss0	1.21	11.90	B1.5V
137	10442247-5944034	0.22	15.75 ± 0.10	14.69 ± 0.10	14.36 ± 0.11	AAB	ccc	NaN	1.18	
138	10442244-5938236	0.50	14.90 ± ****	14.30 ± 0.06	13.54 ± 0.05	UAA	00c	NaN	NaN	
139	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
140	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
141	10442279-5944323	1.34	14.10 ± 0.03	13.29 ± 0.02	12.94 ± 0.03	AAA	000	4.18	2.26	
142	10442285-5938013	0.12	14.84 ± 0.07	13.87 ± 0.05	13.28 ± 0.06	AAA	cc0	8.00	1.87	K-excess
143	10442308-5943063	2.03	14.94 ± 0.08	14.24 ± 0.08	13.98 ± 0.09	AAA	ccc	2.10	1.79	
144	10442312-5941552	0.14	14.75 ± ****	13.65 ± ****	13.14 ± 0.05	UUA	00c	NaN	NaN	
145	10442318-5942070	0.21	14.83 ± ****	14.28 ± 0.09	13.97 ± 0.13	UAB	0cc	NaN	NaN	
146	10442356-5939414	0.63	13.72 ± 0.04	13.14 ± 0.03	12.83 ± 0.05	AAA	000	3.58	2.37	
147	10442362-5941151	0.14	13.69 ± 0.03	12.90 ± 0.03	12.63 ± 0.03	AAA	000	2.82	2.38	
148	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
149	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
150	10442407-5944222	0.69	14.76 ± 0.06	13.77 ± 0.06	13.18 ± 0.05	AAA	ccc	7.99	1.93	K-excess
151	10442404-5940559	1.00	13.76 ± 0.03	13.08 ± 0.03	12.93 ± 0.04	AAA	ccc	0.77	2.35	
152	10442417-5937280	0.35	15.44 ± 0.06	14.48 ± 0.05	14.18 ± 0.08	AAA	000	2.32	1.37	
153	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
154	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
155	10442482-5939596	0.23	14.64 ± 0.05	13.76 ± 0.06	13.22 ± 0.05	AAA	cc0	7.14	2.01	K-excess
156	10442489-5937026	0.22	14.27 ± 0.03	13.40 ± 0.03	13.15 ± 0.04	AAA	00s	2.24	2.21	
157	10442498-5936478	0.16	14.76 ± 0.05	14.02 ± 0.05	13.79 ± 0.07	AAA	000	1.78	1.93	
158	10442522-5936215	0.29	13.27 ± 0.03	12.65 ± 0.03	12.46 ± 0.04	AAA	ccc	1.67	2.50	
159	10442538-5941114	0.56	14.59 ± 0.06	14.00 ± 0.06	13.79 ± 0.07	AAA	ccc	1.37	2.04	
160	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
161	10442564-5943534	0.31	14.04 ± 0.04	13.29 ± 0.05	13.06 ± 0.06	AAA	000	2.07	2.27	
162	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
163	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
164	10442564-5943534	1.14	14.04 ± 0.04	13.29 ± 0.05	13.06 ± 0.06	AAA	000	2.07	2.27	
165	10442567-5939238	0.77	14.95 ± 0.04	13.96 ± 0.03	13.50 ± 0.04	AAE	000	NaN	1.78	
166	10442568-5943287	0.70	14.19 ± ****	13.67 ± 0.06	13.38 ± 0.08	UAA	0cc	NaN	NaN	
167	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
168	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
169	10442597-5944267	1.21	14.89 ± 0.07	14.02 ± 0.06	13.52 ± 0.07	AAA	c00	6.31	1.84	
170	10442628-5942412	1.49	14.15 ± 0.03	13.43 ± 0.02	13.15 ± 0.04	AAA	000	2.84	2.24	
171	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
172	10442630-5937403	0.27	15.43 ± 0.07	14.36 ± 0.05	13.98 ± 0.07	AAA	000	4.18	1.38	
173	10442685-5945412	0.68	14.17 ± 0.05	13.71 ± 0.07	13.40 ± 0.05	AAA	ccc	3.22	2.24	
174	10442704-5944389	0.97	13.48 ± 0.04	12.79 ± 0.03	12.55 ± 0.03	AAA	000	2.30	2.44	
175	10442729-5940357	0.21	15.23 ± 0.07	14.47 ± 0.06	14.23 ± 0.09	AAA	000	0.98	1.53	
176	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
177	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
178	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
179	10442781-5945213	0.34	8.31 ± 0.02	7.83 ± 0.04	7.74 ± 0.03	AAA	000	2.33	20.63	
180	10442786-5937477	0.23	14.59 ± 0.04	13.64 ± 0.05	13.28 ± 0.05	AAA	ccc	4.08	2.04	
181	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
182	10442835-5941238	1.00	13.69 ± ****	12.99 ± 0.03	12.72 ± 0.04	UAA	0cc	NaN	NaN	
183	10442842-5948258	0.33	14.23 ± 0.08	13.31 ± 0.07	13.02 ± 0.06	AAA	ccc	3.10	2.22	
184	10442847-5941450	0.68	13.96 ± 0.03	13.23 ± 0.03	12.96 ± 0.04	AAA	ccc	2.80	2.30	
185	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
186	10442850-5939200	0.31	15.68 ± 0.08	14.72 ± 0.07	14.45 ± 0.12	AAB	000	NaN	1.22	
187	10442865-5944140	1.06	15.88 ± 0.12	14.85 ± 0.08	14.44 ± 0.11	BAB	ccc	NaN	1.10	
188	10442857-5940527	0.32	15.09 ± 0.07	14.64 ± 0.07	14.21 ± 0.10	AAA	css	4.81	1.66	K-excess
189	10442906-5948165	1.03	11.92 ± 0.03	11.40 ± 0.03	11.10 ± 0.03	AAA	ccc	4.08	7.25	
190	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
191	10442907-5941431	1.56	12.64 ± 0.04	12.09 ± 0.04	11.92 ± 0.04	AAA	ccc	1.34	4.96	
192	10442925-5943034	0.25	15.33 ± ****	15.22 ± 0.11	14.13 ± ****	UBU	0c0	NaN	NaN	
193	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
194	10442933-5945005	0.29	16.15 ± 0.17	15.10 ± 0.10	14.31 ± ****	CAU	cc0	NaN	0.93	
195	10442946-5936513	0.15	15.09 ± 0.05	14.34 ± 0.05	14.00 ± 0.07	AAA	000	3.47	1.66	
196	10442939-5937393	1.52	14.68 ± 0.05	13.92 ± 0.05	13.67 ± 0.06	AAA	ccc	2.15	1.98	

Table 2. continued.

N_x	2MASS J+	Off.″	J mag	H mag	K_s mag	Ph.Q	Cont.	A_v	Mass	ID.flags
197	10442936-5946058	0.30	15.54 ± 0.08	14.53 ± 0.06	14.20 ± 0.08	AAA	000	2.88	1.31	
198	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
199	10442969-5944536	0.65	15.26 ± 0.08	14.41 ± 0.06	14.08 ± 0.09	AAA	cc0	3.26	1.50	
200	10442976-5943327	0.12	14.09 ± 0.04	13.34 ± 0.03	13.04 ± 0.04	AAA	000	3.28	2.26	
201	10442981-5945339	0.23	16.10 ± 0.13	15.14 ± 0.11	14.75 ± 0.14	BBB	ccc	NaN	0.96	
202	10442998-5951037	0.91	15.45 ± 0.07	14.34 ± 0.06	13.98 ± 0.07	AAA	ccc	3.84	1.37	
203	10443000-5942182	0.36	15.45 ± 0.07	14.33 ± 0.05	13.98 ± 0.09	AAA	c00	3.66	1.37	
204	10443001-5944477	0.26	13.57 ± ****	13.24 ± 0.04	13.09 ± 0.06	UAA	0cc	NaN	NaN	
205	10443007-5941003	0.36	15.03 ± 0.07	14.18 ± 0.07	13.80 ± 0.09	AAA	000	4.16	1.71	
206	10443032-5940364	0.18	15.27 ± 0.07	14.22 ± 0.04	14.07 ± 0.08	AAA	000	NaN	1.49	
207	10443037-5937267	0.29	8.84 ± 0.02	8.67 ± 0.02	8.58 ± 0.03	AAA	0cc	2.27	18.65	B0V
208	10443039-5944539	0.28	15.65 ± 0.09	15.07 ± 0.10	13.99 ± ****	AAU	cc0	NaN	1.23	
209	10443054-5939246	0.81	11.53 ± 0.02	11.01 ± 0.02	10.48 ± 0.02	AAA	000	9.32	8.69	K-excess
210	10443060-5946290	0.48	15.50 ± 0.08	14.58 ± 0.07	14.23 ± 0.10	AAA	000	3.11	1.33	
211	10443061-5935361	0.78	14.50 ± 0.05	13.63 ± 0.05	13.24 ± 0.05	AAA	000	4.67	2.09	
212	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
213	10443101-5942051	1.17	14.83 ± 0.05	14.03 ± 0.04	13.85 ± 0.06	AAA	000	0.83	1.88	
214	10443112-5942392	0.23	16.42 ± ****	15.12 ± 0.11	14.84 ± 0.16	UAB	00c	NaN	NaN	
215	10443110-5943048	0.07	14.85 ± 0.04	14.19 ± ****	13.94 ± ****	AUU	pp0	NaN	1.86	
216	10443106-5941277	0.18	15.21 ± 0.10	14.89 ± 0.11	14.35 ± 0.13	ABB	cc0	NaN	1.55	
217	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
218	10443120-5944186	0.85	14.14 ± ****	15.59 ± 0.20	13.74 ± ****	UCU	0c0	NaN	NaN	
219	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
220	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
221	10443181-5946123	0.38	16.61 ± ****	15.30 ± 0.12	15.53 ± ****	UBU	000	NaN	NaN	
222	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
223	10443186-5938415	0.14	14.57 ± 0.05	13.84 ± 0.04	13.58 ± 0.05	AAA	000	2.41	2.05	
224	10443190-5944020	0.56	14.47 ± 0.08	13.73 ± 0.06	13.09 ± 0.05	AAA	ccc	8.70	2.11	K-excess
225	10443200-5943006	0.61	15.62 ± 0.10	14.49 ± 0.10	14.23 ± 0.10	AAA	c0c	1.52	1.25	
226	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
227	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
228	10443233-5944309	0.32	8.03 ± 0.02	7.99 ± 0.04	7.97 ± 0.03	AAA	000	1.06	21.67	O5V((f))
229	10443242-5942002	0.32	16.41 ± ****	15.30 ± 0.12	15.50 ± ****	UBU	000	NaN	NaN	
230	10443255-5944066	0.05	11.97 ± 0.03	11.38 ± 0.03	10.69 ± 0.02	AAA	c00	NaN	7.06	K-excess
231	10443254-5943517	0.17	14.00 ± 0.04	13.35 ± 0.02	13.20 ± 0.03	AAE	c00	NaN	2.29	
232	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
233	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
234	10443280-5943064	0.34	13.54 ± 0.03	12.96 ± 0.03	12.73 ± 0.04	AAA	000	2.29	2.42	
235	10443292-5947021	0.40	15.32 ± 0.07	14.23 ± 0.05	13.91 ± 0.07	AAA	000	3.19	1.45	
236	10443306-5941309	0.43	15.18 ± 0.06	14.19 ± 0.05	14.10 ± 0.08	AAA	000	NaN	1.58	
237	10443309-5940022	0.48	14.48 ± 0.04	13.56 ± 0.02	13.35 ± 0.04	EAE	000	NaN	2.10	
238	10443309-5945478	0.45	15.08 ± 0.08	13.93 ± ****	13.41 ± ****	AUU	000	NaN	1.67	
239	10443319-5949278	0.77	16.29 ± 0.14	14.68 ± 0.07	13.90 ± 0.06	BAA	c00	NaN	0.84	
240	10443330-5935543	0.19	14.99 ± 0.08	14.24 ± 0.07	13.87 ± 0.08	AAA	cc0	4.03	1.75	
241	10443376-5943129	0.94	14.06 ± ****	13.70 ± ****	14.20 ± 0.09	UUA	00c	NaN	NaN	
242	10443374-5944154	0.14	7.39 ± 0.01	7.39 ± 0.03	7.34 ± 0.03	AAA	000	1.49	24.03	O8V
243	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
244	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
245	10443396-5937340	0.22	14.22 ± 0.04	13.43 ± 0.04	13.13 ± 0.04	AAA	ccc	3.22	2.22	
246	10443402-5948091	0.26	15.84 ± ****	15.31 ± 0.12	14.12 ± ****	UBU	000	NaN	NaN	
247	10443393-5942486	0.20	14.56 ± 0.06	13.72 ± 0.09	13.32 ± 0.09	AAA	ccc	4.70	2.06	
248	10443410-5947366	0.62	16.09 ± 0.12	14.39 ± 0.05	13.56 ± 0.05	BAA	c00	NaN	0.97	
249	10443403-5943553	1.08	12.86 ± 0.03	12.13 ± 0.03	11.68 ± 0.03	AAA	ddd	5.94	4.51	
250	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
251	10443492-5944059	0.37	13.38 ± ****	12.69 ± ****	12.91 ± 0.04	UUA	00c	NaN	NaN	
252	10443499-5941423	0.48	14.85 ± 0.04	14.07 ± 0.05	13.71 ± 0.06	AAA	ccc	3.95	1.87	
253	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
254	10443509-5945120	0.17	15.61 ± 0.08	14.84 ± 0.08	14.41 ± 0.10	AAA	000	4.38	1.26	
255	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
256	10443538-5935346	0.48	13.52 ± 0.03	12.77 ± 0.03	12.47 ± 0.03	AAA	000	3.37	2.42	
257	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
258	10443547-5948082	1.05	12.37 ± 0.02	12.26 ± 0.02	12.30 ± 0.03	AAA	000	NaN	5.69	
259	10443544-5940461	0.39	16.51 ± 0.21	15.11 ± 0.11	15.02 ± 0.19	CBC	c0c	NaN	0.69	
260	10443552-5943509	0.63	13.98 ± 0.03	13.27 ± 0.03	12.99 ± 0.04	AAA	000	2.97	2.29	

Table 2. continued.

N_x	2MASS J+	Off.″	J mag	H mag	K_s mag	Ph.Q	Cont.	A_v	Mass	ID.flags
261	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
262	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
263	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
264	10443571-5945028	0.32	15.51 ± 0.09	15.16 ± 0.11	14.60 ± 0.13	ABB	cp0	NaN	1.33	
265	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
266	10443586-5944469	0.23	14.44 ± 0.04	13.69 ± 0.03	13.59 ± 0.05	AAA	000	NaN	2.12	
267	10443601-5944570	0.33	15.47 ± 0.08	14.59 ± 0.09	14.36 ± 0.10	AAA	ccc	0.51	1.36	
268	10443606-5942585	0.48	16.03 ± 0.12	15.19 ± 0.13	14.40 ± ****	BBU	cc0	NaN	1.01	
269	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
270	10443618-5951085	0.30	13.39 ± 0.05	13.26 ± 0.04	13.29 ± 0.06	AAA	ccc	NaN	2.46	
271	10443633-5944111	1.19	14.17 ± 0.05	13.48 ± 0.05	13.31 ± 0.06	AAA	ccc	0.88	2.24	
272	10443634-5939443	0.28	14.16 ± 0.08	13.59 ± 0.08	12.94 ± 0.11	AAA	ccc	8.96	2.24	K-excess
273	10443637-5950429	0.28	14.25 ± 0.04	13.14 ± 0.03	12.59 ± 0.04	AAA	000	7.37	2.22	
274	10443648-5939032	0.57	14.87 ± 0.12	13.77 ± ****	13.09 ± ****	BUU	c00	NaN	1.85	
275	10443662-5943051	1.89	14.93 ± 0.05	14.09 ± 0.04	13.83 ± ****	AAU	cc0	NaN	1.81	
276	10443668-5944239	0.36	14.83 ± 0.05	13.84 ± 0.04	13.47 ± 0.05	AAA	cc0	4.23	1.88	
277	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
278	10443666-5946218	0.06	14.14 ± 0.03	13.21 ± 0.04	12.63 ± 0.03	AAA	000	7.78	2.25	K-excess
279	10443668-5945563	0.42	15.77 ± 0.09	15.04 ± 0.09	14.78 ± 0.14	AAB	000	NaN	1.16	
280	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
281	10443668-5947296	0.24	9.38 ± 0.02	9.14 ± 0.02	9.01 ± 0.02	AAA	s00	2.94	16.64	O8V
282	10443676-5950098	0.53	15.12 ± 0.08	13.97 ± 0.06	13.49 ± 0.06	AAA	ccc	5.92	1.63	
283	10443679-5944063	1.63	15.65 ± 0.09	14.93 ± 0.09	15.02 ± ****	AAU	cc0	NaN	1.24	
284	10443699-5939441	0.49	14.40 ± 0.11	13.64 ± 0.10	12.22 ± ****	BAU	cc0	NaN	2.15	
285	10443712-5937356	0.49	14.58 ± ****	14.31 ± 0.11	13.51 ± ****	UBU	0c0	NaN	NaN	
286	10443718-5940014	0.80	10.52 ± 0.02	10.37 ± 0.02	10.27 ± 0.02	AAA	000	2.32	12.44	B0.5V
287	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
288	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
289	10443734-5943366	0.42	14.52 ± 0.05	14.08 ± 0.06	13.77 ± 0.06	AAA	000	3.06	2.08	
290	10443748-5944474	0.29	15.80 ± 0.11	14.83 ± 0.08	14.61 ± 0.13	AAB	c00	NaN	1.14	
291	10443756-5942459	0.42	15.90 ± 0.11	14.87 ± 0.08	14.62 ± 0.14	BAB	00c	NaN	1.09	
292	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
293	10443766-5944309	0.30	15.00 ± ****	15.09 ± 0.12	13.47 ± ****	UBU	0c0	NaN	NaN	
294	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
295	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
296	10443772-5942167	0.14	15.02 ± 0.05	14.13 ± 0.05	13.74 ± 0.06	AAA	000	4.40	1.72	
297	10443782-5943310	0.26	14.93 ± 0.06	14.33 ± 0.06	13.83 ± 0.07	AAA	ccc	6.20	1.80	K-excess
298	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
299	10443789-5935350	0.24	13.48 ± 0.03	12.80 ± 0.03	12.61 ± 0.03	AAA	000	1.61	2.44	
300	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
301	10443807-5944350	1.83	13.39 ± 0.03	12.52 ± 0.02	11.99 ± 0.03	AAA	000	7.12	2.46	K-excess
302	10443808-5943260	0.32	12.83 ± 0.04	12.23 ± 0.05	12.01 ± 0.05	AAA	ccc	2.19	4.58	
303	10443803-5940267	0.34	15.10 ± 0.06	14.01 ± 0.05	13.56 ± 0.06	AAA	ccc	5.56	1.65	
304	10443808-5941313	0.89	13.72 ± 0.04	12.94 ± 0.05	12.65 ± 0.04	AAA	000	3.18	2.37	
305	10443814-5944263	0.39	15.46 ± 0.08	14.79 ± 0.09	14.29 ± 0.10	AAA	c00	5.95	1.36	K-excess
306	10443830-5939135	0.34	15.65 ± ****	14.68 ± 0.09	14.58 ± ****	UAU	0c0	NaN	NaN	
307	10443816-5943114	1.17	13.22 ± 0.03	12.46 ± 0.03	12.17 ± 0.03	AAA	ccc	3.27	3.55	Mass-deg.
308	10443822-5943340	0.35	14.82 ± 0.07	13.80 ± 0.05	13.67 ± 0.07	AAA	ccc	0.16	1.89	
309	10443837-5943444	0.46	15.22 ± 0.09	14.13 ± ****	13.69 ± ****	AUU	c00	NaN	1.54	
310	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
311	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
312	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
313	10443862-5947394	0.37	16.02 ± 0.12	15.03 ± 0.10	14.68 ± 0.14	BAB	ccc	NaN	1.01	
314	10443868-5944429	0.11	15.10 ± 0.05	14.24 ± 0.05	14.02 ± 0.08	AAA	000	0.95	1.65	
315	10443853-5948487	0.26	15.71 ± 0.08	14.35 ± 0.06	13.88 ± 0.06	AAA	000	5.68	1.20	
316	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
317	10443902-5946535	1.78	14.83 ± 0.07	13.96 ± 0.06	13.69 ± 0.09	AAA	ccc	2.46	1.88	
318	10443927-5942584	0.75	15.95 ± ****	14.95 ± ****	14.80 ± 0.15	UUB	00c	NaN	NaN	

Table 2. continued.

N_x	2MASS J+	Off.″	J mag	H mag	K_s mag	Ph.Q	Cont.	A_v	Mass	ID.flags
319	10443941-5940402	0.68	16.13 ± ****	15.71 ± 0.19	15.08 ± ****	UCU	0c0	NaN	NaN	
320	10443942-5946395	0.50	14.95 ± 0.05	13.98 ± 0.04	13.39 ± 0.04	AEE	c0c	NaN	1.78	
321	10443941-5940402	0.49	16.13 ± ****	15.71 ± 0.19	15.08 ± ****	UCU	0c0	NaN	NaN	
322	10443972-5948362	0.74	15.27 ± 0.06	13.83 ± 0.04	13.43 ± 0.05	AAA	ccc	4.73	1.49	
323	10443991-5949243	0.32	16.83 ± ****	14.81 ± 0.08	14.70 ± 0.14	UAB	000	NaN	NaN	
324	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
325	10443989-5943582	0.07	13.39 ± ****	12.78 ± ****	12.46 ± 0.04	UUA	00c	NaN	NaN	
326	10444012-5942218	0.36	15.39 ± ****	14.59 ± ****	14.66 ± 0.13	UUB	00c	NaN	NaN	
327	10444009-5945569	0.62	15.14 ± 0.07	14.28 ± 0.07	13.98 ± 0.08	AAA	000	2.81	1.61	
328	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
329	10444001-5945479	0.17	15.22 ± 0.06	14.20 ± 0.06	13.80 ± 0.06	AAA	000	4.56	1.54	
330	10444008-5941179	0.78	14.77 ± 0.04	13.88 ± 0.03	13.72 ± 0.05	AEA	00c	NaN	1.92	
331	10444014-5946117	0.35	15.88 ± 0.09	14.90 ± 0.09	14.59 ± 0.12	AAB	000	NaN	1.10	
332	10444058-5934579	0.49	14.87 ± 0.06	14.06 ± 0.06	13.72 ± 0.08	AAA	000	3.60	1.85	
333	10444076-5944454	2.08	16.10 ± 0.14	14.98 ± 0.11	14.26 ± ****	BBU	cc0	NaN	0.96	
334	10444086-5945247	0.18	13.26 ± 0.03	12.97 ± 0.03	12.87 ± 0.04	AAA	000	NaN	2.50	
335	10444093-5944011	0.33	15.63 ± ****	15.31 ± 0.12	14.57 ± ****	UBU	0c0	NaN	NaN	
336	10444111-5940466	0.48	15.24 ± 0.09	14.66 ± 0.09	12.91 ± ****	AAU	cc0	NaN	1.52	
337	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
338	10444109-5945597	0.09	16.10 ± 0.14	15.27 ± 0.14	16.13 ± ****	BBU	000	NaN	0.96	
339	10444108-5944228	0.67	14.89 ± 0.05	14.00 ± 0.05	13.61 ± 0.06	AAA	000	4.61	1.83	
340	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
341	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
342	10444114-5938194	0.41	13.25 ± ****	12.61 ± 0.04	12.29 ± 0.04	UAA	0cc	NaN	NaN	
343	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
344	10444128-5943031	0.56	15.89 ± 0.12	14.71 ± 0.07	14.29 ± 0.09	BAA	ccc	NaN	1.09	
345	10444130-5944087	0.59	13.91 ± 0.04	13.20 ± 0.04	12.98 ± 0.04	AAA	cc0	1.88	2.31	
346	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
347	10444150-5950319	0.37	13.96 ± 0.03	12.58 ± 0.02	11.84 ± 0.03	AAA	000	11.08	2.30	
348	10444155-5942091	0.28	15.90 ± ****	15.09 ± 0.10	15.83 ± ****	UAU	000	NaN	NaN	
349	10444160-5947046	0.29	13.53 ± 0.11	12.89 ± 0.09	12.79 ± 0.09	BAA	ccc	NaN	2.42	
350	10444170-5942543	0.45	12.73 ± ****	12.41 ± 0.04	12.34 ± 0.04	UAA	0cc	NaN	NaN	
351	10444176-5940478	0.32	13.01 ± 0.04	12.41 ± 0.04	12.08 ± ****	AAU	cc0	NaN	3.55	Mass-deg.
352	10444176-5946563	0.25	7.80 ± 0.01	7.74 ± 0.04	7.64 ± 0.03	AAA	000	2.32	22.51	O6V((f))
353	10444196-5940227	0.53	16.55 ± ****	16.13 ± ****	14.88 ± 0.17	UUC	00c	NaN	NaN	
354	10444197-5942160	0.63	14.03 ± 0.05	13.41 ± 0.04	13.21 ± 0.05	AAA	ccc	1.64	2.28	
355	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
356	10444217-5942582	0.31	15.55 ± 0.09	14.61 ± 0.07	14.44 ± 0.11	AAB	ccc	NaN	1.31	
357	10444215-5942431	0.21	14.83 ± 0.07	14.06 ± 0.06	13.87 ± 0.08	AAA	ccc	0.84	1.88	
358	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
359	10444236-5944043	0.30	15.25 ± 0.06	14.25 ± 0.06	14.06 ± 0.08	AAA	ccc	0.58	1.51	
360	10444237-5942524	0.13	14.25 ± ****	14.90 ± 0.08	14.35 ± 0.10	UAA	0cc	NaN	NaN	
361	10444250-5942150	0.38	15.50 ± 0.09	14.79 ± 0.08	14.40 ± 0.10	AAA	ccc	1.59	1.34	
362	10444264-5941235	0.66	13.93 ± 0.03	12.83 ± 0.03	12.11 ± 0.03	AAA	ccc	10.26	2.31	K-excess
363	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
364	10444285-5943539	0.45	15.21 ± 0.06	14.50 ± 0.06	14.25 ± 0.10	AAA	000	0.02	1.54	
365	10444284-5946453	0.25	14.82 ± ****	14.92 ± 0.12	14.48 ± 0.11	UBA	0cc	NaN	NaN	
366	10444297-5940173	0.27	15.40 ± 0.08	14.34 ± 0.06	14.02 ± 0.07	AAA	c0c	3.07	1.40	
367	10444308-5940245	0.45	15.55 ± 0.11	14.11 ± ****	13.89 ± ****	AUU	c00	NaN	1.31	
368	10444309-5945059	0.51	16.69 ± ****	15.20 ± 0.09	14.60 ± ****	UAU	000	NaN	NaN	
369	10444316-5942178	0.46	15.90 ± 0.11	15.14 ± 0.11	14.52 ± ****	ABU	cc0	NaN	1.09	
370	10444321-5945532	0.72	15.91 ± 0.14	14.87 ± 0.08	14.36 ± 0.10	BAA	ccc	NaN	1.08	
371	10444323-5943466	0.36	15.71 ± ****	15.57 ± 0.15	14.94 ± 0.16	UBC	0cc	NaN	NaN	
372	10444329-5951202	0.34	14.86 ± ****	13.60 ± ****	13.14 ± 0.06	UUA	00c	NaN	NaN	
373	10444334-5947295	0.66	16.19 ± 0.14	14.92 ± 0.07	14.51 ± 0.11	BAA	ccc	NaN	0.91	
374	10444332-5944513	0.51	15.82 ± 0.10	15.01 ± 0.10	14.15 ± ****	AAU	cc0	NaN	1.13	
375	10444351-5941325	0.77	15.75 ± 0.09	14.62 ± 0.07	14.26 ± 0.09	AAA	ccc	3.56	1.17	
376	10444353-5947178	0.27	13.73 ± 0.02	12.97 ± 0.03	12.69 ± 0.02	AAA	000	3.09	2.36	
377	10444357-5945383	0.49	15.48 ± 0.09	14.58 ± 0.07	14.26 ± 0.12	AAB	ccc	NaN	1.35	
378	10444387-5941145	0.47	15.46 ± 0.08	14.28 ± 0.05	14.02 ± 0.08	AAA	c0c	1.80	1.36	
379	10444395-5939557	0.15	14.55 ± 0.05	13.75 ± 0.05	13.52 ± 0.04	AEA	ccc	NaN	2.06	
380	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
381	10444405-5939597	0.02	15.93 ± 0.12	14.58 ± 0.07	15.02 ± 0.19	BAC	ccc	NaN	1.07	
382	10444430-5951253	0.25	13.50 ± 0.07	12.27 ± ****	12.44 ± 0.09	AUA	c0c	NaN	2.43	
383	10444430-5942333	1.58	11.73 ± 0.03	11.51 ± 0.04	11.42 ± 0.05	AAA	00c	0.20	7.95	
384	10444422-5945375	1.80	14.84 ± 0.06	13.99 ± 0.05	13.37 ± 0.06	AAA	ccc	8.50	1.88	K-excess

Table 2. continued.

N_x	2MASS J+	Off.″	J mag	H mag	K_s mag	Ph.Q	Cont.	A_v	Mass	ID.flags
385	10444425-5948388	0.38	17.23 ± ****	15.52 ± 0.15	16.53 ± ****	UBU	000	NaN	NaN	
386	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
387	10444433-5938318	0.30	14.35 ± 0.04	13.25 ± 0.02	12.84 ± 0.04	AAA	000	5.12	2.18	
388	10444433-5945595	0.25	13.21 ± 0.03	12.71 ± 0.04	12.57 ± 0.04	AAA	000	0.84	3.55	Mass-deg.
389	10444449-5945283	0.05	16.01 ± ****	15.30 ± 0.12	14.53 ± ****	UBU	000	NaN	NaN	
390	10444461-5944135	0.41	12.19 ± 0.02	12.09 ± 0.02	11.98 ± 0.02	AAA	000	0.38	6.26	
391	10444485-5945593	0.46	13.81 ± ****	14.52 ± 0.06	14.41 ± 0.10	UAA	0cc	NaN	NaN	
392	10444528-5939192	0.06	12.64 ± ****	12.08 ± 0.03	11.80 ± 0.04	UAA	0cc	NaN	NaN	
393	10444534-5936104	0.40	15.32 ± 0.08	14.51 ± 0.06	14.07 ± 0.07	AAA	000	5.19	1.45	
394	10444549-5940348	0.47	14.23 ± ****	14.92 ± 0.15	14.30 ± 0.14	UBB	0cc	NaN	NaN	
395	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
396	10444591-5945210	1.27	15.78 ± 0.09	15.09 ± 0.09	14.51 ± 0.11	AAA	sss	7.25	1.16	K-excess
397	10444601-5946595	0.61	15.40 ± 0.08	14.40 ± 0.06	13.88 ± 0.06	AAA	c0s	6.60	1.40	
398	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
399	10444616-5942293	0.24	15.29 ± 0.08	14.23 ± 0.06	13.83 ± 0.07	AAA	c0c	4.51	1.48	
400	10444621-5944493	0.18	14.49 ± 0.05	13.71 ± 0.06	13.48 ± 0.08	AAA	ccc	1.89	2.09	
401	10444654-5936055	0.33	14.74 ± ****	13.82 ± ****	13.64 ± 0.06	UUA	000	NaN	NaN	
402	10444646-5941306	0.27	16.06 ± 0.13	14.80 ± 0.08	14.40 ± 0.10	BAA	ccc	NaN	0.99	
403	10444673-5939009	0.67	14.67 ± ****	15.06 ± 0.11	13.38 ± ****	UBU	0c0	NaN	NaN	
404	10444699-5943266	2.10	15.25 ± 0.08	14.39 ± 0.06	14.03 ± 0.09	AAA	ccc	3.68	1.51	
405	10444708-5938127	0.13	15.64 ± 0.11	14.79 ± 0.10	14.23 ± 0.09	BAA	s0c	NaN	1.25	
406	10444732-5941170	0.51	12.22 ± ****	11.80 ± ****	11.66 ± 0.04	UUA	00c	NaN	NaN	
407	10444729-5943532	0.21	8.34 ± 0.01	8.34 ± 0.02	8.29 ± 0.02	AAA	000	1.71	20.49	B0.2V
408	10444742-5935081	0.65	13.73 ± 0.03	13.08 ± 0.03	12.88 ± 0.03	AAA	000	1.65	2.37	
409	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
410	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
411	10444777-5946384	0.64	14.58 ± 0.05	14.27 ± 0.06	14.02 ± 0.06	AAA	ccc	1.83	2.05	
412	10444775-5947176	0.34	15.41 ± 0.09	14.25 ± 0.05	13.77 ± 0.06	AEA	ccc	NaN	1.39	
413	10444777-5946067	0.32	14.23 ± 0.03	13.44 ± 0.03	13.12 ± 0.04	AAA	000	3.44	2.22	
414	10444774-5946323	0.24	14.31 ± 0.05	13.27 ± 0.05	12.83 ± 0.04	AAA	000	5.60	2.19	
415	10444791-5945397	0.40	15.88 ± 0.11	14.93 ± 0.09	14.72 ± 0.14	BAB	ccc	NaN	1.10	
416	10444796-5943095	0.27	14.74 ± 0.05	13.88 ± 0.05	13.57 ± 0.08	AAA	00c	3.18	1.95	
417	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
418	10444891-5938245	0.60	15.19 ± 0.08	14.21 ± 0.06	13.58 ± 0.06	AAA	000	8.37	1.57	K-excess
419	10444898-5943435	0.32	13.17 ± 0.04	12.41 ± 0.05	12.09 ± 0.05	AEA	c00	NaN	3.55	Mass-deg.
420	10444902-5940445	0.36	12.45 ± ****	11.81 ± 0.03	11.45 ± 0.04	UAA	0cc	NaN	NaN	
421	10444910-5941350	1.15	15.72 ± ****	15.16 ± 0.12	14.32 ± ****	UBU	0p0	NaN	NaN	
422	10444912-5944225	0.11	15.79 ± 0.11	14.75 ± 0.08	14.28 ± 0.09	AAA	c00	5.47	1.15	
423	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
424	10444924-5947332	0.24	14.76 ± 0.06	13.89 ± 0.07	13.56 ± 0.06	AAA	000	3.49	1.93	
425	10444928-5940405	0.10	13.38 ± ****	14.11 ± 0.09	13.60 ± 0.11	UAB	0cc	NaN	NaN	
426	10444942-5939577	0.40	15.38 ± 0.09	14.17 ± 0.04	13.85 ± 0.05	AAA	ccc	3.13	1.41	
427	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
428	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
429	10444968-5945032	0.18	14.59 ± ****	13.72 ± ****	13.84 ± 0.06	UUA	00c	NaN	NaN	
430	10444974-5946152	0.11	15.60 ± 0.09	14.65 ± 0.07	14.44 ± 0.11	AAB	ccc	NaN	1.27	
431	10444976-5942081	0.19	14.07 ± 0.03	13.18 ± 0.03	12.66 ± 0.04	AAA	c0c	6.89	2.27	
432	10444978-5947273	0.07	13.97 ± 0.04	13.14 ± 0.04	12.65 ± 0.04	AAA	000	6.41	2.30	
433	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
434	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
435	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
436	10445011-5939084	0.23	15.29 ± 0.13	14.46 ± 0.09	13.90 ± 0.10	BAA	c0c	NaN	1.47	
437	10445005-5938448	0.08	15.30 ± 0.08	14.35 ± 0.06	13.96 ± 0.09	AAA	c0c	4.29	1.47	
438	10445008-5944428	0.19	15.37 ± 0.07	14.52 ± 0.06	14.06 ± 0.10	AAA	ccc	5.31	1.42	
439	10445009-5945534	0.64	14.34 ± 0.04	13.57 ± 0.04	13.15 ± 0.04	AAA	000	5.17	2.18	
440	10445014-5947386	0.93	14.02 ± 0.04	13.22 ± 0.04	12.97 ± 0.05	AAA	000	2.49	2.28	
441	10445012-5945236	0.34	14.52 ± 0.06	13.70 ± ****	13.32 ± ****	AUU	c00	NaN	2.08	
442	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
443	10445016-5944104	0.31	15.16 ± 0.06	14.22 ± 0.04	13.54 ± 0.04	AAA	c00	9.33	1.60	K-excess
444	10445020-5947151	0.13	15.14 ± 0.05	14.20 ± 0.05	13.96 ± 0.06	AAA	000	1.76	1.61	
445	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
446	10445036-5940174	0.37	13.32 ± ****	12.56 ± 0.03	12.32 ± 0.03	UAA	00c	NaN	NaN	
447	10445043-5945408	0.25	12.73 ± 0.03	12.17 ± 0.04	11.95 ± 0.03	AAA	ccc	2.22	4.78	
448	10445078-5945276	0.35	14.75 ± 0.05	13.81 ± 0.04	13.49 ± 0.05	AAE	000	NaN	1.94	
449	10445081-5944429	0.02	16.22 ± 0.15	15.03 ± 0.09	14.03 ± ****	BAU	cc0	NaN	0.89	
450	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	

Table 2. continued.

N_x	2MASS J+	Off.″	J mag	H mag	K_s mag	Ph.Q	Cont.	A_v	Mass	ID.flags
451	10445091-5944356	0.31	14.53 ± 0.04	13.79 ± 0.02	13.47 ± 0.04	AAE	000	NaN	2.07	
452	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
453	10445112-5939384	0.31	14.99 ± 0.05	13.80 ± 0.03	13.54 ± 0.05	AAA	c0c	2.38	1.75	
454	10445108-5944255	0.24	16.38 ± ****	15.41 ± 0.14	15.06 ± 0.19	UBC	0cc	NaN	NaN	
455	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
456	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
457	10445162-5948382	0.21	15.27 ± 0.09	13.90 ± 0.06	13.42 ± 0.06	AAA	ccc	5.96	1.49	
458	10445134-5944068	0.14	15.46 ± 0.09	14.50 ± 0.05	14.34 ± 0.10	AAA	00c	NaN	1.36	
459	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
460	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
461	10445156-5950286	0.61	12.42 ± 0.02	12.02 ± 0.03	11.88 ± 0.03	AAA	000	0.92	5.55	
462	10445175-5943055	2.03	15.42 ± 0.08	14.44 ± 0.06	14.23 ± 0.09	AAA	ccc	0.29	1.38	
463	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
464	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
465	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
466	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
467	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
468	10445224-5941552	0.26	12.59 ± ****	12.52 ± 0.05	11.97 ± ****	UAU	0c0	NaN	NaN	
469	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
470	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
471	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
472	10445267-5951232	1.62	17.74 ± ****	15.18 ± 0.09	14.31 ± 0.09	UAA	0cc	NaN	NaN	
473	10445275-5943190	0.49	14.17 ± 0.04	13.42 ± 0.04	13.19 ± 0.04	AAA	00c	1.94	2.24	
474	10445284-5946342	0.17	15.35 ± 0.07	14.28 ± 0.05	13.93 ± 0.07	AAA	000	3.73	1.43	
475	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
476	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
477	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
478	10445326-5940003	0.17	15.74 ± ****	14.99 ± 0.09	15.35 ± ****	UAU	0c0	NaN	NaN	
479	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
480	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
481	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
482	10445371-5943244	0.28	13.01 ± 0.03	12.46 ± 0.03	12.19 ± 0.03	AAA	000	2.99	3.55	Mass-deg.
483	10445372-5944260	0.41	15.52 ± ****	15.00 ± 0.10	14.56 ± 0.11	UAB	0cc	NaN	NaN	
484	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
485	10445386-5943140	0.57	13.23 ± 0.04	12.73 ± 0.05	12.55 ± 0.05	AAA	ccc	1.41	3.55	Mass-deg.
486	10445393-5945240	0.33	12.42 ± 0.02	12.18 ± 0.03	12.10 ± 0.03	AAA	000	3.20	5.55	
487	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
488	10445406-5944436	0.26	15.88 ± 0.13	15.25 ± 0.14	14.86 ± 0.17	BBC	ccc	NaN	1.10	
489	10445407-5941293	0.15	10.21 ± 0.05	10.15 ± 0.07	10.16 ± 0.04	AAA	000	0.54	13.58	B1V
490	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
491	10445417-5945364	0.25	14.67 ± 0.05	13.42 ± 0.04	12.65 ± 0.04	AAA	000	10.88	1.99	K-excess
492	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
493	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
494	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
495	10445439-5939251	0.15	14.52 ± 0.04	13.28 ± 0.04	12.78 ± 0.04	AAA	c0c	6.55	2.08	
496	10445438-5944239	0.09	14.41 ± ****	13.80 ± 0.05	13.51 ± 0.06	UAA	0cc	NaN	NaN	
497	10445449-5942432	0.57	13.85 ± ****	13.30 ± 0.06	13.08 ± 0.06	UAA	0cc	NaN	NaN	
498	10445467-5944438	0.15	15.82 ± 0.11	14.81 ± 0.09	14.56 ± 0.12	BAB	ccc	NaN	1.14	
499	10445475-5949232	0.27	15.22 ± 0.08	13.62 ± 0.05	12.80 ± ****	AAU	cc0	NaN	1.53	
500	10445472-5943392	0.23	16.12 ± 0.17	15.22 ± 0.14	14.84 ± ****	CBU	cc0	NaN	0.95	
501	10445476-5936005	0.37	15.02 ± 0.05	14.38 ± 0.04	14.23 ± 0.07	AAA	000	NaN	1.73	
502	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
503	10445482-5943516	0.41	13.84 ± 0.03	13.10 ± 0.03	12.84 ± 0.03	AAA	ccc	2.72	2.33	
504	10445485-5945451	0.23	15.44 ± 0.09	13.93 ± ****	14.31 ± 0.13	AUB	c0c	NaN	1.38	
505	10445490-5942580	0.47	15.72 ± 0.10	15.02 ± 0.09	14.59 ± 0.12	AAB	ccc	NaN	1.19	
506	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
507	10445506-5948243	0.27	14.06 ± 0.03	13.20 ± 0.03	12.88 ± 0.04	AAA	ccc	3.61	2.27	
508	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
509	10445527-5946486	0.86	15.28 ± 0.07	14.52 ± 0.07	14.38 ± 0.10	AAA	ccc	NaN	1.48	
510	10445539-5946297	0.94	15.18 ± 0.06	14.35 ± 0.05	13.90 ± 0.07	AAA	000	5.49	1.57	
511	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
512	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
513	10445543-5944535	0.42	13.37 ± 0.03	12.51 ± 0.03	12.18 ± 0.03	AAA	000	3.94	2.47	
514	10445591-5942295	0.37	14.70 ± ****	14.06 ± 0.07	13.42 ± ****	UAU	0p0	NaN	NaN	
515	10445595-5944480	0.09	14.26 ± 0.05	13.33 ± 0.05	12.85 ± 0.05	AAA	000	6.28	2.21	
516	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	

Table 2. continued.

N_x	2MASS J+	Off.″	J mag	H mag	K_s mag	Ph.Q	Cont.	A_v	Mass	ID.flags
517	10445604-5945547	0.18	16.06 ± ****	15.49 ± 0.17	14.92 ± ****	UCU	0c0	NaN	NaN	
518	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
519	10445616-5948398	0.23	15.94 ± ****	14.89 ± 0.09	14.22 ± 0.09	UAA	000	NaN	NaN	
520	10445610-5946002	0.31	15.96 ± 0.13	15.09 ± 0.11	14.74 ± 0.14	BBB	cc0	NaN	1.05	
521	10445613-5945381	0.32	14.36 ± 0.04	13.62 ± 0.04	13.28 ± 0.05	AAA	ccc	3.75	2.17	
522	10445615-5948137	0.36	14.84 ± 0.05	13.75 ± 0.05	13.33 ± 0.04	AAA	000	5.15	1.87	
523	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
524	10445629-5938309	0.46	14.52 ± 0.09	13.70 ± 0.07	13.20 ± 0.08	AAE	ccc	NaN	2.08	
525	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
526	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
527	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
528	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
529	10445679-5944182	0.36	15.47 ± 0.08	14.49 ± 0.05	14.26 ± ****	AAU	0c0	NaN	1.35	
530	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
531	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
532	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
533	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
534	10445706-5938268	0.44	11.64 ± 0.02	11.09 ± 0.02	10.97 ± 0.03	AAA	000	0.83	8.30	
535	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
536	10445721-5942561	0.20	16.06 ± ****	15.37 ± 0.13	15.03 ± 0.17	UBC	0cc	NaN	NaN	
537	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
538	10445729-5943120	0.43	14.86 ± 0.05	13.93 ± 0.04	13.71 ± 0.05	AAA	c0c	1.51	1.86	
539	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
540	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
541	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
542	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
543	10445747-5948326	0.18	15.79 ± 0.10	14.20 ± 0.06	13.50 ± 0.05	AAA	ccc	9.81	1.15	
544	10445754-5944506	0.21	14.96 ± 0.05	14.23 ± 0.05	14.00 ± ****	AAU	c00	NaN	1.78	
545	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
546	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
547	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
548	10445773-5947234	0.30	15.58 ± 0.13	14.53 ± 0.11	13.72 ± ****	BAU	cc0	NaN	1.29	
549	10445770-5937545	0.63	16.80 ± 0.29	15.07 ± 0.11	14.38 ± 0.10	DAA	ccc	NaN	0.42	Mass-deg.
550	10445777-5947154	0.46	14.93 ± ****	15.08 ± 0.14	13.66 ± ****	UBU	0p0	NaN	NaN	
551	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
552	10445799-5947095	0.09	13.35 ± 0.03	12.58 ± 0.03	12.27 ± 0.03	AAA	0c0	3.58	2.47	
553	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
554	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
555	10445818-5942497	0.48	15.07 ± ****	14.62 ± 0.07	14.31 ± 0.10	UAA	0cc	NaN	NaN	
556	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
557	10445808-5948397	0.24	12.82 ± ****	11.44 ± 0.03	10.50 ± ****	UAU	0c0	NaN	NaN	
558	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
559	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
560	10445852-5944108	0.51	15.51 ± ****	15.22 ± 0.17	14.40 ± ****	UCU	0c0	NaN	NaN	
561	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
562	10445862-5942461	0.15	14.19 ± ****	13.58 ± 0.05	13.05 ± 0.05	UAA	0cc	NaN	NaN	
563	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
564	10445857-5950232	0.87	16.23 ± 0.14	14.63 ± 0.06	13.70 ± 0.05	BAA	000	NaN	0.89	
565	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
566	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
567	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
568	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
569	10445928-5944594	0.21	14.47 ± ****	13.72 ± 0.05	13.36 ± ****	UAU	0c0	NaN	NaN	
570	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
571	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
572	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
573	10445943-5946500	0.16	15.59 ± 0.09	14.69 ± 0.06	14.45 ± 0.11	AAB	0c0	NaN	1.28	
574	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
575	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
576	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
577	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
578	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
579	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
580	10445990-5943149	0.59	10.86 ± 0.02	10.66 ± 0.03	10.51 ± 0.02	AAA	000	3.03	11.16	
581	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	

Table 2. continued.

N_x	2MASS J+	Off.″	J mag	H mag	K_s mag	Ph.Q	Cont.	A_v	Mass	ID.flags
582	10450009-5947019	0.26	14.57 ± 0.06	13.16 ± 0.06	12.32 ± 0.06	AAA	000	12.24	2.05	K-excess
583	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
584	10450016-5944036	0.27	15.71 ± 0.10	14.87 ± 0.09	14.48 ± 0.12	AAB	ccc	NaN	1.20	
585	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
586	10450021-5943531	0.20	16.16 ± 0.15	15.30 ± 0.15	14.87 ± ****	BBU	cc0	NaN	0.93	
587	10450031-5943399	0.33	13.99 ± 0.04	13.20 ± 0.06	12.92 ± 0.12	AAE	ccc	NaN	2.29	
588	10450045-5943252	0.13	15.60 ± 0.13	14.69 ± 0.12	14.56 ± 0.17	BBC	ccc	NaN	1.27	
589	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
590	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
591	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
592	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
593	10450059-5946035	0.41	14.36 ± 0.04	13.75 ± 0.05	13.42 ± 0.07	AAA	000	3.53	2.17	
594	10450069-5949173	0.24	16.56 ± ****	14.71 ± 0.08	13.43 ± 0.04	UAA	000	NaN	NaN	
595	10450071-5944506	0.15	15.72 ± 0.10	14.81 ± 0.08	14.72 ± 0.14	AAB	00c	NaN	1.19	
596	10450071-5945324	0.35	16.66 ± 0.21	15.39 ± 0.14	15.92 ± ****	CBU	000	NaN	0.42	Mass-deg.
597	10450089-5942451	0.35	15.58 ± ****	14.99 ± 0.11	14.42 ± ****	UBU	0c0	NaN	NaN	
598	10450089-5947190	0.28	17.30 ± ****	14.40 ± 0.05	12.33 ± 0.02	UAA	000	NaN	NaN	
599	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
600	10450102-5945156	0.42	12.60 ± 0.02	12.12 ± 0.03	12.03 ± 0.03	AAA	sss	0.14	5.05	
601	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
602	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
603	10450111-5939176	0.11	13.90 ± ****	13.34 ± 0.14	13.18 ± 0.17	UBC	0cc	NaN	NaN	
604	10450109-5938531	0.60	14.70 ± 0.10	14.07 ± 0.09	13.75 ± 0.13	AAB	ccc	NaN	1.97	
605	10450115-5944153	0.20	15.06 ± 0.06	14.21 ± 0.07	13.80 ± 0.07	AAA	00c	4.75	1.69	
606	10450118-5938222	0.16	15.14 ± 0.09	14.07 ± 0.09	13.72 ± 0.07	AAA	c0c	3.77	1.62	
607	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
608	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
609	10450145-5946338	0.82	14.44 ± 0.05	13.35 ± ****	12.85 ± ****	AUU	c00	NaN	2.12	
610	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
611	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
612	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
613	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
614	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
615	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
616	10450168-5947102	0.32	17.26 ± ****	15.86 ± ****	14.68 ± 0.15	UUB	000	NaN	NaN	
617	10450193-5942371	0.47	14.79 ± ****	14.70 ± 0.08	13.35 ± ****	UAU	0c0	NaN	NaN	
618	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
619	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
620	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
621	10450201-5945317	0.32	14.29 ± 0.06	13.27 ± 0.07	12.54 ± 0.05	AAA	ccc	10.31	2.20	K-excess
622	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
623	10450208-5937439	1.00	15.30 ± 0.06	14.35 ± 0.04	14.09 ± 0.07	AAA	00c	1.84	1.47	
624	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
625	10450211-5943212	0.83	16.26 ± 0.17	15.22 ± 0.13	14.72 ± ****	CBU	cc0	NaN	0.87	
626	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
627	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
628	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
629	10450220-5942492	0.16	15.35 ± ****	14.02 ± 0.05	13.72 ± 0.05	UAA	0cc	NaN	NaN	
630	10450220-5943468	0.14	16.15 ± ****	14.81 ± ****	14.21 ± 0.09	UUA	00c	NaN	NaN	
631	10450225-5945363	0.37	14.57 ± 0.04	13.61 ± 0.05	13.31 ± 0.05	AAA	ccc	3.07	2.05	
632	10450243-5945410	0.28	13.25 ± 0.03	12.83 ± 0.04	12.60 ± 0.04	AAA	ccc	2.13	3.55	Mass-deg.
633	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
634	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
635	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
636	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
637	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
638	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
639	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
640	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
641	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
642	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
643	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
644	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
645	10450343-5946382	0.37	14.04 ± 0.04	13.09 ± 0.03	12.66 ± 0.05	AAA	ccc	5.46	2.28	
646	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
647	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
648	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	

Table 2. continued.

N_x	2MASS J+	Off.″	J mag	H mag	K_s mag	Ph.Q	Cont.	A_v	Mass	ID.flags
649	10450360-5941040	0.17	1.66 ± 0.53	1.07 ± 0.40	0.17 ± 0.38	DDD	000	NaN	45.25	LBV (η-Car)
650	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
651	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
652	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
653	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
654	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
655	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
656	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
657	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
658	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
659	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
660	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
661	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
662	10450474-5946142	0.23	14.57 ± 0.04	13.56 ± 0.03	13.32 ± 0.04	AAA	ccc	2.15	2.05	
663	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
664	10450477-5946091	0.32	15.79 ± 0.11	14.76 ± 0.08	14.80 ± 0.15	AAB	ccc	NaN	1.15	
665	10450477-5950041	0.39	13.32 ± 0.03	12.03 ± 0.05	11.36 ± 0.04	AAA	ccc	NaN	2.48	
666	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
667	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
668	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
669	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
670	10450506-5937335	0.24	13.15 ± 0.04	12.63 ± 0.03	12.48 ± 0.04	AAA	c0c	0.97	3.55	Mass-deg.
671	10450506-5945311	0.50	14.49 ± ****	15.01 ± 0.12	14.55 ± 0.12	UBB	0cc	NaN	NaN	
672	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
673	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
674	10450526-5945400	0.77	15.42 ± 0.09	14.24 ± 0.06	13.96 ± 0.08	AAA	ccc	2.47	1.39	
675	10450534-5945452	0.24	14.50 ± 0.04	13.12 ± 0.03	12.56 ± 0.03	AAA	ccc	7.55	2.09	
676	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
677	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
678	10450541-5944391	0.49	16.66 ± 0.23	15.14 ± 0.11	14.92 ± 0.17	DBC	c0c	NaN	0.42	Mass-deg.
679	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
680	10450559-5945307	0.18	13.64 ± ****	13.25 ± 0.06	12.94 ± 0.07	UAA	0cc	NaN	NaN	
681	10450563-5944478	0.72	15.07 ± 0.06	13.96 ± 0.05	13.32 ± 0.07	AAA	ccc	8.76	1.68	K-excess
682	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
683	10450572-5946067	0.11	14.84 ± 0.05	13.89 ± 0.04	13.46 ± 0.05	AAA	cd0	5.25	1.88	
684	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
685	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
686	10450575-5944053	0.11	15.45 ± 0.09	14.57 ± 0.06	14.31 ± 0.09	AAA	c0c	0.42	1.37	
687	10450579-5945195	0.15	8.65 ± 0.02	8.42 ± 0.02	8.34 ± 0.02	AAA	sss	2.08	19.36	O7V
688	10450584-5943077	0.24	8.92 ± 0.01	8.80 ± 0.02	8.76 ± 0.02	AAA	000	1.40	18.37	O9.5V
689	10450592-5940061	0.67	7.71 ± 0.01	7.71 ± 0.03	7.62 ± 0.05	AAA	0dd	2.21	22.85	O4V((f))
690	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
691	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
692	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
693	10450597-5946303	0.34	15.31 ± 0.10	14.33 ± 0.07	13.89 ± 0.07	AAA	000	5.31	1.46	
694	10450605-5944347	0.27	15.67 ± 0.09	14.49 ± 0.06	14.22 ± 0.09	AAA	c0c	0.01	1.23	
695	10450609-5946208	0.14	14.78 ± ****	14.46 ± 0.07	14.42 ± 0.12	UAB	0cc	NaN	NaN	
696	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
697	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
698	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
699	10450628-5949455	0.34	17.99 ± ****	15.10 ± 0.09	13.89 ± 0.06	UAA	000	NaN	NaN	
700	10450641-5935094	0.28	15.17 ± 0.07	14.41 ± 0.06	14.20 ± 0.10	AAA	000	0.39	1.59	
701	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
702	10450630-5944399	0.15	16.39 ± 0.20	15.30 ± ****	14.99 ± ****	CUU	c00	NaN	0.77	
703	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
704	10450654-5943443	0.51	13.88 ± ****	14.42 ± 0.13	14.15 ± 0.11	UBB	0cc	NaN	NaN	
705	10450661-5943549	1.49	14.98 ± 0.07	14.34 ± 0.09	14.04 ± 0.10	AAA	00c	2.52	1.76	
706	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
707	10450672-5941565	0.69	9.45 ± 0.01	9.41 ± 0.03	9.36 ± 0.03	AAA	000	1.62	16.39	O8.5V
708	10450673-5943287	0.73	13.82 ± 0.02	12.93 ± 0.02	12.34 ± 0.02	AAA	000	8.13	2.34	K-excess
709	10450680-5944460	0.72	12.76 ± 0.03	12.14 ± 0.04	11.87 ± 0.04	AAA	000	2.99	4.72	
710	10450678-5945373	0.10	16.23 ± ****	15.08 ± 0.10	14.72 ± 0.16	UAC	0cc	NaN	NaN	
711	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
712	10450704-5946162	0.21	14.98 ± 0.07	14.33 ± 0.06	13.98 ± 0.08	AAA	ccc	3.63	1.76	
713	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
714	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
715	10450709-5943132	0.15	15.71 ± 0.10	14.79 ± 0.09	14.48 ± 0.11	AAA	ccc	0.18	1.20	

Table 2. continued.

N_x	2MASS J+	Off.″	J mag	H mag	K_s mag	Ph.Q	Cont.	A_v	Mass	ID.flags
716	10450707-5942381	0.40	13.36 ± ****	14.65 ± 0.10	12.99 ± ****	UAU	0c0	NaN	NaN	
717	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
718	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
719	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
720	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
721	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
722	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
723	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
724	10450782-5950434	1.19	14.66 ± 0.05	13.55 ± 0.03	12.98 ± 0.03	AAA	000	7.67	2.00	
725	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
726	10450795-5937253	0.21	14.66 ± ****	13.66 ± 0.04	13.34 ± ****	UAU	0c0	NaN	NaN	
727	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
728	10450807-5945560	0.31	15.92 ± 0.22	14.64 ± ****	14.32 ± ****	DUU	c00	NaN	1.07	
729	10450822-5940494	0.57	9.25 ± 0.02	9.14 ± 0.02	9.25 ± 0.06	AAA	00c	NaN	17.14	B0.3V
730	10450822-5946069	0.61	9.27 ± 0.02	8.96 ± 0.02	8.81 ± 0.02	AAA	000	3.13	17.06	O8.5V
731	10450836-5938475	0.84	11.43 ± 0.02	11.12 ± 0.03	11.02 ± 0.03	AAA	000	0.46	9.07	
732	10450852-5947043	0.34	17.59 ± ****	14.90 ± 0.09	14.11 ± 0.08	UAA	000	NaN	NaN	
733	10450858-5946140	0.28	15.20 ± 0.14	14.42 ± 0.12	13.89 ± 0.11	BBA	ccc	NaN	1.55	
734	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
735	10450858-5943542	0.47	15.50 ± 0.07	14.61 ± 0.05	14.19 ± 0.08	AAA	c0c	4.71	1.34	
736	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
737	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
738	10450878-5944236	0.35	14.39 ± ****	13.60 ± 0.05	13.24 ± 0.06	UAA	0cc	NaN	NaN	
739	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
740	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
741	10450893-5946302	0.41	15.92 ± ****	15.23 ± 0.13	14.94 ± ****	UBU	000	NaN	NaN	
742	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
743	10450891-5942350	0.40	15.66 ± ****	14.70 ± 0.08	14.32 ± ****	UAU	0c0	NaN	NaN	
744	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
745	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
746	10450902-5942558	0.20	13.04 ± ****	14.76 ± 0.12	14.39 ± 0.11	UBB	0cc	NaN	NaN	
747	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
748	10450923-5938519	0.18	14.50 ± 0.06	13.82 ± 0.05	13.53 ± 0.05	AAA	ccc	2.82	2.09	
749	10450923-5947117	0.26	16.27 ± 0.12	14.39 ± 0.05	13.54 ± 0.05	BAA	000	NaN	0.86	
750	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
751	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
752	10450949-5945101	0.03	15.81 ± 0.12	14.83 ± 0.09	14.29 ± 0.10	BAA	ccc	NaN	1.14	
753	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
754	10450972-5945448	0.59	13.01 ± 0.04	12.60 ± 0.03	12.33 ± 0.03	AAA	000	2.86	3.55	Mass-deg.
755	10450971-5939052	0.26	14.94 ± 0.06	14.10 ± 0.03	13.91 ± 0.07	AAA	ccc	0.69	1.80	
756	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
757	10450977-5945376	0.21	17.03 ± ****	15.28 ± 0.11	14.98 ± 0.17	UBC	0cc	NaN	NaN	
758	10450990-5942335	0.16	14.43 ± ****	14.49 ± 0.10	13.12 ± ****	UAU	0c0	NaN	NaN	
759	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	B1V
760	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
761	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
762	10451002-5944378	0.50	14.66 ± 0.05	13.68 ± 0.04	13.42 ± 0.05	AAE	c0c	NaN	2.00	
763	10451008-5943533	0.53	14.64 ± 0.04	13.61 ± 0.04	13.32 ± 0.07	AAA	ccc	2.98	2.01	
764	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
765	10451026-5943072	0.36	15.51 ± ****	13.98 ± ****	14.72 ± 0.17	UUC	00c	NaN	NaN	
766	10451022-5947290	0.35	16.29 ± ****	14.79 ± 0.08	14.19 ± 0.10	UAA	000	NaN	NaN	
767	10451030-5942298	0.51	14.05 ± ****	13.54 ± 0.06	12.72 ± ****	UAU	0c0	NaN	NaN	
768	10451033-5947060	0.52	14.89 ± 0.05	13.61 ± 0.05	12.81 ± 0.04	AAA	000	11.34	1.84	K-excess
769	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
770	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
771	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
772	10451043-5944094	0.34	15.40 ± 0.08	14.37 ± 0.06	14.12 ± 0.08	AAA	ccc	1.53	1.40	
773	10451062-5945126	0.57	11.56 ± 0.02	11.09 ± 0.02	10.67 ± 0.02	AAA	000	NaN	8.57	K-excess
774	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
775	10451065-5942543	0.03	14.22 ± 0.04	13.51 ± 0.05	13.27 ± 0.06	AAA	ccc	2.14	2.22	
776	10451068-5944233	0.15	16.46 ± 0.23	15.10 ± 0.09	14.83 ± 0.19	DAC	ccc	NaN	0.72	
777	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
778	10451073-5937484	0.56	14.80 ± 0.08	14.01 ± 0.09	12.85 ± ****	AAU	cc0	NaN	1.91	
779	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
780	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
781	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	

Table 2. continued.

N_x	2MASS J+	Off.″	J mag	H mag	K_s mag	Ph.Q	Cont.	A_v	Mass	ID.flags
782	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
783	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
784	10451101-5942392	0.14	13.32 ± ****	13.06 ± 0.04	12.60 ± 0.04	UAA	0cc	NaN	NaN	
785	10451103-5945207	0.16	15.63 ± 0.09	14.31 ± ****	13.97 ± ****	AUU	c00	NaN	1.25	
786	10451108-5944571	0.52	13.68 ± 0.10	13.22 ± 0.11	13.00 ± 0.08	ABA	ccc	NaN	2.38	
787	10451108-5945335	0.13	13.89 ± 0.02	12.83 ± 0.03	12.19 ± 0.02	AAA	000	8.90	2.32	K-excess
788	10451120-5942338	0.58	11.93 ± ****	11.42 ± 0.04	11.02 ± 0.04	UAA	0cc	NaN	NaN	
789	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
790	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
791	10451134-5939033	0.14	15.93 ± 0.12	14.98 ± 0.10	14.58 ± 0.12	BAB	ccc	NaN	1.07	
792	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
793	10451155-5946130	0.38	15.31 ± 0.08	14.37 ± 0.10	13.85 ± ****	AAU	cc0	NaN	1.46	
794	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
795	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
796	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
797	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
798	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
799	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
800	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
801	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
802	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
803	10451221-5945003	0.11	8.68 ± 0.01	8.54 ± 0.02	8.43 ± 0.02	AAA	c00	2.52	19.24	O7V(n)
804	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
805	10451248-5948452	0.08	16.91 ± ****	15.37 ± 0.12	14.21 ± 0.09	UBA	000	NaN	NaN	
806	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
807	10451265-5942487	0.37	9.83 ± 0.02	9.65 ± 0.03	9.53 ± 0.02	AAA	0cc	2.62	14.99	B2V
808	10451271-5944460	0.39	8.33 ± 0.01	8.18 ± 0.03	8.09 ± 0.02	AAA	000	2.21	20.54	O9.5V
809	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
810	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
811	10451287-5949421	0.25	15.67 ± 0.07	13.97 ± 0.05	13.23 ± 0.05	AAA	000	10.34	1.22	
812	10451287-5944192	0.55	8.08 ± 0.02	7.89 ± 0.03	7.76 ± 0.02	AAA	000	2.98	21.48	O9V
813	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
814	10451283-5945040	0.39	13.01 ± 0.06	12.03 ± 0.21	11.91 ± 0.07	AEE	ccc	NaN	3.55	Mass-deg.
815	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
816	10451296-5935208	0.32	13.73 ± 0.06	12.20 ± ****	11.85 ± ****	AUU	c00	NaN	2.36	
817	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
818	10451326-5942581	0.30	11.64 ± ****	11.50 ± 0.07	10.82 ± ****	UAU	0p0	NaN	NaN	
819	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
820	10451330-5943014	0.88	11.90 ± ****	11.83 ± 0.04	10.81 ± ****	UAU	0p0	NaN	NaN	
821	10451355-5943318	1.09	12.53 ± 0.03	12.21 ± 0.05	11.99 ± 0.06	AAA	ccc	2.26	5.24	
822	10451355-5944043	1.36	13.84 ± 0.06	13.06 ± 0.05	12.70 ± 0.06	AAA	ccc	4.38	2.33	
823	10451353-5951088	0.78	14.32 ± 0.04	13.69 ± 0.03	13.43 ± 0.04	AAA	0ss	2.41	2.19	
824	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
825	10451364-5944116	1.39	14.53 ± 0.22	13.08 ± ****	12.86 ± ****	DUU	c00	NaN	2.07	
826	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
827	10451380-5944463	0.21	12.39 ± ****	12.66 ± 0.04	12.09 ± 0.06	UAA	0cc	NaN	NaN	
828	10451395-5943394	0.14	14.98 ± ****	14.70 ± 0.13	14.18 ± 0.11	UBB	0cc	NaN	NaN	
829	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
830	10451405-5943155	0.57	14.58 ± 0.04	13.70 ± 0.04	13.49 ± 0.05	AAE	ccc	NaN	2.04	
831	10451412-5942118	0.44	14.90 ± ****	14.66 ± 0.08	13.60 ± ****	UAU	0c0	NaN	NaN	
832	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
833	10451414-5938582	0.58	15.23 ± 0.12	14.22 ± 0.09	13.85 ± 0.10	BAA	ccc	NaN	1.53	
834	10451452-5942470	0.51	14.14 ± 0.03	13.15 ± 0.04	12.82 ± 0.04	AAA	ccc	3.71	2.25	
835	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
836	10451478-5944235	0.25	15.26 ± 0.09	14.30 ± 0.07	13.88 ± 0.07	AAA	ccc	4.74	1.50	
837	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
838	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
839	10451489-5944416	0.03	14.91 ± 0.06	14.11 ± 0.05	13.81 ± 0.06	AAA	ccc	2.82	1.82	
840	10451478-5944235	0.48	15.26 ± 0.09	14.30 ± 0.07	13.88 ± 0.07	AAA	ccc	4.74	1.50	
841	10451504-5940216	0.31	15.08 ± ****	14.36 ± 0.06	13.79 ± ****	UAU	0c0	NaN	NaN	
842	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
843	10451526-5944166	0.83	14.82 ± 0.06	14.05 ± 0.06	13.71 ± 0.07	AAA	ccc	3.72	1.89	
844	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
845	10451551-5940128	0.23	13.92 ± ****	13.48 ± 0.04	13.06 ± ****	UAU	0c0	NaN	NaN	
846	10451563-5943591	1.34	15.82 ± ****	14.62 ± ****	15.01 ± 0.21	UUC	00c	NaN	NaN	

Table 2. continued.

N_x	2MASS J+	Off.″	J mag	H mag	K_s mag	Ph.Q	Cont.	A_v	Mass	ID.flags
847	10451578-5941271	0.30	15.49 ± ****	14.30 ± 0.05	14.19 ± ****	UAU	0c0	NaN	NaN	
848	10451622-5941411	0.17	12.00 ± ****	11.56 ± 0.02	11.48 ± ****	UAU	000	NaN	NaN	
849	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
850	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
851	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
852	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
853	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
854	10451651-5943370	0.12	8.15 ± 0.00	7.99 ± 0.02	7.88 ± 0.03	AAA	000	2.52	21.22	O5V
855	10451645-5950167	0.62	15.93 ± ****	14.98 ± 0.11	14.31 ± 0.10	UBA	000	NaN	NaN	
856	10451665-5944203	0.21	16.01 ± ****	15.21 ± 0.11	14.61 ± 0.12	UBB	0cc	NaN	NaN	
857	10451675-5940079	0.21	14.20 ± ****	13.46 ± 0.04	12.82 ± 0.05	UAA	0cc	NaN	NaN	
858	10451684-5938087	0.39	15.18 ± 0.06	14.44 ± 0.05	13.99 ± 0.07	AAA	c0c	5.33	1.58	
859	10451675-5946287	2.09	12.96 ± 0.02	12.65 ± 0.03	12.63 ± 0.03	AAA	000	NaN	3.55	Mass-deg.
860	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
861	10451705-5945421	0.66	15.16 ± 0.06	13.99 ± 0.04	13.59 ± 0.05	AAA	cc0	4.55	1.59	
862	10451717-5947013	0.25	12.05 ± 0.02	11.10 ± 0.02	10.61 ± 0.02	AAA	000	NaN	6.76	
863	10451722-5949132	0.37	15.62 ± ****	15.19 ± 0.11	14.20 ± 0.09	UBA	0cc	NaN	NaN	
864	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
865	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
866	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
867	10451762-5940543	0.61	14.88 ± ****	14.28 ± 0.07	14.04 ± 0.09	UAA	0cc	NaN	NaN	
868	10451767-5938333	0.35	14.83 ± 0.05	13.91 ± 0.05	13.64 ± 0.05	AAA	00c	2.58	1.88	
869	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
870	10451776-5942284	0.21	14.43 ± ****	13.40 ± ****	13.56 ± 0.05	UUA	00c	NaN	NaN	
871	10451788-5937095	0.12	14.50 ± 0.05	13.63 ± 0.05	13.37 ± 0.06	AAA	000	2.37	2.09	
872	10451799-5935591	0.39	14.54 ± 0.05	13.59 ± 0.05	13.22 ± 0.05	AAA	000	4.31	2.07	
873	10451810-5943059	0.43	15.11 ± 0.05	14.11 ± 0.04	14.01 ± 0.07	AAA	c0c	NaN	1.64	
874	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
875	10451837-5946133	1.73	15.31 ± 0.13	14.01 ± 0.06	13.30 ± 0.05	BAA	ccc	NaN	1.46	
876	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
877	10451872-5939122	0.62	15.74 ± 0.09	15.03 ± 0.10	14.72 ± 0.12	AAB	ccc	NaN	1.18	
878	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
879	10451894-5942184	0.25	11.42 ± 0.02	11.24 ± 0.03	11.16 ± 0.03	AAA	000	1.45	9.09	
880	10451899-5941427	0.10	12.69 ± 0.02	12.35 ± 0.03	12.20 ± 0.03	AAA	ccc	0.89	4.86	
881	10451912-5943594	0.22	16.22 ± 0.16	15.20 ± 0.16	13.44 ± ****	CCU	cc0	NaN	0.89	
882	10451978-5947312	0.28	16.16 ± 0.12	14.38 ± 0.05	13.31 ± 0.04	BAA	000	NaN	0.93	
883	10451977-5949379	0.54	16.17 ± 0.13	14.58 ± 0.07	13.82 ± 0.06	BAA	000	NaN	0.92	
884	10451984-5943263	0.53	15.36 ± 0.07	14.29 ± 0.05	13.92 ± 0.09	AAA	c0c	4.00	1.42	
885	10452009-5948467	0.70	16.92 ± ****	14.81 ± 0.07	13.83 ± 0.07	UAA	0c0	NaN	NaN	
886	10452014-5939196	1.42	14.82 ± 0.04	13.99 ± 0.03	13.83 ± 0.06	AAA	00c	0.48	1.89	
887	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
888	10452057-5942512	0.27	9.39 ± 0.02	9.31 ± 0.02	9.26 ± 0.02	AAA	000	1.62	16.63	O8.5V
889	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
890	10452067-5944014	0.22	14.66 ± 0.05	13.76 ± 0.04	13.44 ± 0.04	AAA	ccc	3.33	2.00	
891	10452078-5948078	0.89	15.14 ± 0.05	13.16 ± 0.03	12.14 ± 0.03	AAA	000	NaN	1.62	
892	10452088-5940130	0.32	12.31 ± 0.02	11.86 ± 0.03	11.73 ± 0.02	AAA	000	0.70	5.84	
893	10452092-5945301	0.25	15.83 ± 0.11	14.80 ± 0.08	14.48 ± 0.10	AAA	ccc	0.13	1.13	
894	10452096-5945488	0.38	13.10 ± 0.02	12.14 ± 0.03	11.79 ± 0.02	AAA	000	4.23	3.55	Mass-deg.
895	10452108-5944469	0.44	16.30 ± ****	15.59 ± 0.17	14.65 ± 0.14	UCB	0c0	NaN	NaN	
896	10452136-5941345	0.27	14.35 ± 0.04	13.52 ± 0.04	13.32 ± 0.05	AAA	c0c	1.50	2.17	
897	10452142-5940471	0.19	16.35 ± 0.16	15.23 ± 0.11	14.98 ± 0.17	BBC	ccc	NaN	0.81	
898	10452140-5944203	0.14	16.94 ± ****	16.41 ± ****	14.89 ± 0.17	UUC	00c	NaN	NaN	
899	10452137-5944312	0.52	13.62 ± ****	12.52 ± 0.05	12.09 ± 0.04	UAA	0cc	NaN	NaN	
900	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
901	10452178-5942054	0.16	16.06 ± 0.14	15.00 ± 0.10	14.61 ± 0.13	BAB	ccc	NaN	0.99	
902	10452195-5940214	0.39	15.67 ± 0.09	14.80 ± 0.08	14.21 ± 0.09	AAA	ccc	7.53	1.22	K-excess
903	10452200-5940527	0.61	13.48 ± 0.01	12.62 ± 0.02	12.24 ± 0.02	AAA	000	4.73	2.44	
904	10452199-5943563	1.18	15.79 ± ****	15.04 ± ****	14.62 ± 0.14	UUB	00c	NaN	NaN	
905	10452206-5941458	0.80	12.76 ± 0.02	12.14 ± 0.03	11.93 ± 0.03	AAA	000	2.01	4.71	
906	10452214-5937554	0.21	14.38 ± 0.02	13.62 ± 0.03	13.44 ± 0.05	AAA	000	1.04	2.16	
907	10452211-5943361	0.08	14.79 ± 0.04	13.97 ± 0.04	13.71 ± 0.06	AAA	000	2.20	1.91	
908	10452209-5951147	0.28	14.44 ± ****	13.83 ± 0.07	13.16 ± ****	UAU	0c0	NaN	NaN	
909	10452227-5950470	0.20	8.62 ± 0.01	8.19 ± 0.01	7.88 ± 0.03	AAA	000	5.62	19.47	
910	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
911	10452308-5945023	0.17	16.46 ± 0.18	15.33 ± 0.16	15.16 ± ****	CCU	cc0	NaN	0.72	
912	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
913	10452355-5939141	0.21	13.24 ± 0.02	12.96 ± 0.03	12.81 ± 0.03	AAA	000	0.80	3.55	Mass-deg.

Table 2. continued.

N_x	2MASS J+	Off.″	J mag	H mag	K_s mag	Ph.Q	Cont.	A_v	Mass	ID.flags
914	10452355-5945204	0.92	15.88 ± 0.10	14.90 ± 0.07	14.48 ± 0.10	AAA	css	2.21	1.10	
915	10452374-5945468	0.37	14.64 ± 0.05	13.29 ± 0.05	12.66 ± 0.04	AAA	000	8.78	2.01	
916	10452370-5941446	0.19	14.56 ± 0.03	13.72 ± 0.04	13.45 ± 0.04	AAE	00c	NaN	2.06	
917	10452382-5945018	0.13	15.73 ± 0.09	13.99 ± ****	14.02 ± ****	AUU	c00	NaN	1.19	
918	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
919	10452408-5944123	0.15	16.28 ± 0.22	15.24 ± 0.11	14.80 ± ****	CAU	cc0	NaN	0.85	
920	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
921	10452405-5947514	1.52	14.73 ± 0.06	13.94 ± 0.06	13.47 ± 0.06	AAA	c0c	6.00	1.95	K-excess
922	10452448-5942207	0.27	15.01 ± 0.06	14.08 ± 0.05	13.42 ± ****	AAU	cc0	NaN	1.73	
923	10452462-5945066	0.56	14.09 ± 0.02	13.16 ± 0.02	12.57 ± 0.02	AAA	000	8.05	2.26	K-excess
924	10452483-5941260	0.79	13.98 ± 0.04	13.26 ± 0.04	13.03 ± 0.05	AAA	000	2.08	2.29	
925	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
926	10452531-5941258	1.11	14.34 ± ****	15.04 ± 0.11	13.40 ± ****	UBU	0p0	NaN	NaN	
927	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
928	10452557-5943508	0.28	13.37 ± 0.04	12.63 ± 0.04	12.32 ± 0.04	AAA	ccc	3.54	2.47	
929	10452560-5949347	0.25	17.88 ± ****	15.46 ± 0.12	14.07 ± 0.09	UBA	000	NaN	NaN	
930	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
931	10452561-5942319	1.76	13.38 ± 0.06	13.08 ± 0.05	12.88 ± 0.10	AAA	ccc	1.57	2.46	
932	10452569-5947538	0.20	16.94 ± ****	15.59 ± 0.14	14.50 ± 0.10	UBA	000	NaN	NaN	
933	10452592-5946560	0.27	16.71 ± ****	15.46 ± 0.13	14.55 ± 0.16	UBC	0cc	NaN	NaN	
934	10452592-5944042	0.27	15.37 ± 0.09	14.37 ± 0.06	14.05 ± 0.09	AAA	ccc	3.08	1.42	
935	10452648-5940305	0.81	14.49 ± ****	13.82 ± 0.07	13.20 ± 0.06	UAA	0cc	NaN	NaN	
936	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
937	10452680-5948450	0.57	15.19 ± ****	15.12 ± 0.11	14.01 ± 0.08	UAA	0cc	NaN	NaN	
938	10452689-5948285	0.21	17.83 ± ****	16.69 ± ****	14.15 ± 0.09	UUA	000	NaN	NaN	
939	10452694-5941495	0.28	15.28 ± 0.06	14.35 ± 0.05	13.97 ± 0.08	AAA	00c	4.28	1.48	
940	10452702-5942317	1.51	14.86 ± 0.05	13.96 ± 0.06	13.43 ± 0.06	AAA	0c0	6.96	1.86	K-excess
941	10452683-5938576	0.93	15.73 ± 0.09	14.17 ± ****	13.91 ± ****	AUU	c00	NaN	1.19	
942	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
943	10452732-5945187	0.35	13.16 ± 0.03	12.39 ± 0.03	11.94 ± 0.03	AAA	sss	5.93	3.55	Mass-deg.
944	10452722-5942194	0.34	15.36 ± 0.07	14.40 ± 0.05	14.10 ± 0.07	AAA	0cc	2.63	1.42	
945	10452782-5942339	0.62	14.39 ± ****	15.44 ± 0.15	13.69 ± ****	UBU	0c0	NaN	NaN	
946	10452795-5941389	1.64	13.05 ± 0.02	12.36 ± 0.02	12.18 ± 0.03	AAA	000	1.62	3.55	Mass-deg.
947	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
948	10452825-5942304	1.69	13.43 ± 0.02	13.00 ± 0.03	12.81 ± 0.04	AAA	000	1.55	2.45	
949	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
950	10452818-5941036	0.20	15.12 ± ****	15.03 ± 0.12	13.75 ± ****	UBU	0c0	NaN	NaN	
951	10452822-5947080	1.60	15.32 ± 0.06	13.77 ± 0.05	13.03 ± 0.04	AAA	000	10.47	1.45	
952	10452825-5945564	0.02	13.24 ± 0.02	12.42 ± 0.03	11.98 ± 0.03	AAA	000	5.77	3.55	Mass-deg.
953	10452829-5940230	0.16	14.52 ± ****	13.64 ± ****	13.75 ± 0.08	UUA	00c	NaN	NaN	
954	10452846-5941555	0.71	12.83 ± 0.02	12.49 ± 0.02	12.40 ± 0.03	AAA	000	0.07	4.59	
955	10452849-5942469	0.66	13.81 ± 0.04	13.01 ± 0.04	12.51 ± 0.04	AAA	000	6.54	2.34	K-excess
956	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
957	10452862-5947553	0.53	11.91 ± 0.02	10.27 ± 0.02	9.46 ± 0.02	AAA	000	13.70	7.27	
958	10452887-5943478	0.66	13.79 ± 0.04	12.75 ± 0.04	12.34 ± 0.04	AEA	000	NaN	2.35	
959	10452945-5946498	0.42	17.60 ± ****	15.27 ± 0.17	14.26 ± 0.12	UCB	0cc	NaN	NaN	
960	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
961	10453024-5948206	0.64	10.43 ± 0.02	9.24 ± 0.03	8.60 ± 0.02	AAA	00d	10.97	12.75	
962	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
963	10453037-5947527	0.37	17.28 ± ****	15.32 ± 0.12	14.34 ± 0.10	UBA	0cc	NaN	NaN	
964	10453070-5940349	0.23	15.40 ± 0.07	14.52 ± 0.06	14.31 ± 0.12	AAB	00c	NaN	1.40	
965	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
966	10453095-5950451	0.13	12.59 ± 0.07	11.32 ± 0.05	10.39 ± 0.04	AAA	ccc	15.63	5.07	K-excess
967	10453134-5941133	0.22	11.53 ± 0.02	11.34 ± 0.02	11.25 ± 0.02	AAA	000	0.13	8.68	
968	10453202-5942384	0.57	12.86 ± ****	14.63 ± 0.18	14.29 ± 0.09	UCA	0cc	NaN	NaN	
969	10453208-5947507	0.37	14.83 ± 0.05	14.26 ± 0.07	13.72 ± ****	AAU	cc0	NaN	1.88	
970	10453244-5948197	0.65	14.80 ± 0.07	13.55 ± ****	12.96 ± ****	AUU	000	NaN	1.91	
971	10453227-5943196	0.25	14.20 ± 0.03	13.25 ± 0.04	12.89 ± 0.04	AAA	000	4.32	2.23	
972	10453260-5946345	0.53	15.78 ± 0.09	14.23 ± 0.04	13.51 ± 0.04	AAA	000	10.07	1.16	
973	10453263-5948572	0.49	15.22 ± 0.06	13.86 ± 0.05	13.25 ± 0.05	AAA	000	8.38	1.54	
974	10453270-5949167	1.67	15.76 ± 0.10	14.24 ± 0.04	13.34 ± 0.03	AAA	000	13.00	1.17	K-excess
975	10453277-5947469	0.25	16.83 ± ****	14.54 ± 0.06	13.39 ± 0.06	UAA	000	NaN	NaN	
976	10453302-5941335	0.48	15.63 ± 0.08	14.76 ± 0.04	14.39 ± 0.10	AAA	0cc	1.35	1.25	
977	– – – – – – – –	––	– – – – –	– – – – –	– – – – –	––	––	––	––	
978	10453339-5949071	0.36	14.64 ± ****	13.58 ± 0.07	12.27 ± ****	UAU	0c0	NaN	NaN	
979	10453367-5947147	0.14	11.66 ± 0.02	11.58 ± 0.03	11.54 ± 0.03	AAA	000	1.64	8.22	
980	10453370-5948083	0.30	15.88 ± ****	14.68 ± ****	14.64 ± 0.12	UUB	00c	NaN	NaN	

Table 2. continued.

N_x	2MASS J+	Off.″	J mag	H mag	K_s mag	Ph.Q	Cont.	A_v	Mass	ID.flags
981	10453391-5950091	0.88	15.08 ± 0.05	13.81 ± 0.04	13.12 ± 0.04	AAA	c00	9.62	1.67	
982	10453417-5950411	0.86	14.66 ± 0.06	13.64 ± 0.04	13.25 ± 0.05	AAA	ccc	4.73	2.00	
983	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
984	10453445-5949157	0.59	15.45 ± 0.06	14.34 ± 0.05	13.82 ± 0.06	AAA	cpp	6.56	1.36	
985	10453484-5946281	0.19	16.62 ± 0.16	14.57 ± 0.05	13.65 ± 0.06	CAA	000	NaN	0.66	
986	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
987	10453541-5945447	1.04	13.26 ± 0.03	12.47 ± 0.03	11.95 ± 0.03	AAA	000	6.94	2.50	K-excess
988	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
989	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
990	10453592-5941136	0.27	15.09 ± 0.06	14.30 ± 0.07	14.12 ± 0.07	AAA	0cc	0.10	1.66	
991	10453643-5947563	0.51	15.72 ± ****	14.92 ± 0.10	14.01 ± 0.11	UAA	0cc	NaN	NaN	
992	10453635-5948379	0.42	15.39 ± 0.08	14.11 ± 0.04	13.53 ± 0.05	AAA	ccc	7.68	1.41	
993	10453660-5944110	0.71	9.83 ± 0.02	9.19 ± 0.03	8.77 ± 0.02	AAA	0d0	7.40	14.98	K-excess
994	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
995	10453669-5948085	0.20	14.46 ± ****	14.85 ± 0.07	12.82 ± ****	UAU	0c0	NaN	NaN	
996	10453674-5947020	0.61	9.76 ± 0.02	8.88 ± 0.03	8.33 ± 0.02	AAA	000	9.46	15.26	K-excess
997	10453699-5948203	0.79	13.60 ± 0.14	12.71 ± 0.11	12.13 ± 0.09	BBA	cpc	NaN	2.40	
998	10453685-5946202	1.02	15.45 ± 0.05	13.78 ± 0.03	13.02 ± 0.03	AAA	000	10.66	1.37	
999	10453723-5946463	0.63	16.35 ± ****	15.61 ± 0.13	14.25 ± 0.10	UBA	0cc	NaN	NaN	
1000	10453774-5947552	0.41	13.13 ± 0.04	12.17 ± 0.03	11.63 ± 0.04	AAA	000	7.81	3.55	Mass-deg.
1001	10453825-5950293	1.87	14.31 ± 0.13	13.27 ± 0.28	12.86 ± 0.16	BDC	ccc	NaN	2.20	
1002	10453834-5942078	0.15	11.36 ± 0.03	10.80 ± 0.03	10.24 ± 0.02	AAA	000	9.62	9.30	K-excess
1003	10453860-5945133	0.38	12.70 ± 0.02	11.76 ± 0.03	11.12 ± 0.02	AAA	000	NaN	4.84	K-excess
1004	10453926-5947395	1.02	15.44 ± 0.08	13.45 ± 0.06	12.47 ± 0.06	AAA	000	14.59	1.38	
1005	10453914-5945271	0.37	15.06 ± 0.06	13.85 ± 0.07	13.30 ± 0.05	AAA	000	7.35	1.69	
1006	10454000-5948594	0.87	14.52 ± 0.04	13.13 ± 0.05	12.36 ± 0.04	AAA	000	10.95	2.07	K-excess
1007	10454012-5949587	0.36	16.21 ± 0.15	14.87 ± 0.10	14.50 ± 0.11	BAB	000	NaN	0.90	
1008	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
1009	10454029-5948297	1.09	11.81 ± 0.02	11.04 ± 0.03	10.52 ± 0.02	AAA	000	9.10	7.66	K-excess
1010	10454009-5949255	0.55	16.03 ± 0.12	14.83 ± 0.10	14.30 ± 0.09	BAA	c00	NaN	1.00	
1011	10454039-5938374	1.02	13.46 ± 0.02	13.11 ± 0.03	12.88 ± 0.03	AAA	000	2.24	2.44	
1012	10454054-5947424	0.59	16.50 ± 0.16	14.44 ± 0.06	13.30 ± 0.04	BAA	000	NaN	0.69	
1013	10454048-5947521	0.10	15.93 ± 0.10	14.15 ± 0.05	13.18 ± 0.05	AAA	000	14.19	1.07	K-excess
1014	10454160-5938201	1.84	12.69 ± 0.02	12.26 ± 0.04	12.13 ± 0.03	AAA	000	0.61	4.85	
1015	10454158-5948240	0.14	14.15 ± 0.04	12.89 ± ****	12.41 ± ****	AUU	c00	NaN	2.25	
1016	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
1017	10454236-5942539	0.18	14.38 ± 0.03	13.30 ± 0.04	12.79 ± 0.03	AAA	000	6.84	2.16	
1018	10454256-5940222	0.99	15.22 ± 0.06	14.41 ± 0.07	14.04 ± 0.07	AAA	000	3.86	1.53	
1019	10454365-5939540	0.36	11.93 ± 0.02	11.76 ± 0.02	11.65 ± 0.02	AAA	000	0.49	7.20	
1020	10454366-5941481	0.80	13.39 ± 0.03	12.39 ± 0.04	11.96 ± 0.03	AAA	000	5.51	2.46	
1021	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
1022	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
1023	10454449-5939258	1.12	12.74 ± 0.02	12.42 ± 0.02	12.23 ± 0.03	AAA	000	1.74	4.76	
1024	10454505-5941552	0.39	14.73 ± 0.06	13.66 ± 0.05	13.22 ± 0.05	AAA	000	5.52	1.95	
1025	10454557-5949481	0.22	15.02 ± 0.07	13.97 ± 0.06	13.50 ± 0.06	AAA	ccc	5.75	1.73	
1026	10454572-5945176	0.40	17.81 ± ****	16.28 ± ****	14.88 ± 0.14	UUB	000	NaN	NaN	
1027	10454607-5946384	1.28	12.95 ± 0.02	12.77 ± 0.02	12.69 ± 0.03	AAA	000	NaN	3.55	Mass-deg.
1028	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
1029	10454661-5948404	0.21	11.59 ± 0.02	10.94 ± 0.03	10.56 ± 0.02	AAA	000	NaN	8.45	
1030	10454707-5950415	0.14	15.59 ± 0.09	14.52 ± 0.05	14.10 ± 0.07	AAA	ccc	4.65	1.28	
1031	10454785-5947488	0.37	17.81 ± ****	15.87 ± 0.15	14.65 ± 0.11	UCB	000	NaN	NaN	
1032	– – – – – – – –	– –	– – – – –	– – – – –	– – – – –	– –	– –	– –	– –	
1033	10455025-5947039	0.96	15.17 ± ****	14.62 ± 0.09	13.76 ± 0.06	UAA	000	NaN	NaN	
1034	10455163-5945348	0.07	15.75 ± ****	14.82 ± ****	14.33 ± 0.10	UUA	000	NaN	NaN	
1035	10455226-5948102	1.56	15.28 ± 0.08	14.11 ± 0.06	13.68 ± 0.08	AAA	ccc	5.00	1.48	

Table 3. X-ray source spectroscopy.

N_x #	Cnts. (ph)	Stat. (χ^2_ν)	log (N_H) (cm^{-2})	kT (keV)	log (L_x) (erg/s)	flag
1	30	−−	− − − − −	− − − − −	30.51	no-fit
2	36	−−	− − − − −	− − − − −	30.58	no-fit
3	208	0.66	22.01 ± 0.16	2.07 ± 0.56	31.58	fitted
4	55	0.94	21.90 ± 0.31	2.96 ± 2.61	30.50	fitted
5	28	−−	− − − − −	− − − − −	30.48	no-fit
6	41	−−	− − − − −	− − − − −	30.64	no-fit
7	47	−−	− − − − −	− − − − −	31.29	Tr16-19
8	54	−−	− − − − −	− − − − −	30.76	no-fit
9	45	−−	− − − − −	− − − − −	30.68	no-fit
10	25	−−	− − − − −	− − − − −	30.42	no-fit
11	41	−−	− − − − −	− − − − −	30.72	no-fit
12	132	1.50	21.23 ± 0.62	2.65 ± 0.94	31.08	fitted
13	89	0.40	21.64 ± 0.14	0.67 ± 0.93	30.83	fitted
14	15	−−	− − − − −	− − − − −	30.23	no-fit
15	41	−−	− − − − −	− − − − −	30.65	no-fit
16	23	−−	− − − − −	− − − − −	30.40	no-fit
17	28	−−	− − − − −	− − − − −	30.48	no-fit
18	31	0.80	22.32 ± 0.32	1.36 ± 0.88	31.04	fitted
19	7	−−	− − − − −	− − − − −	29.93	no-fit
20	30	−−	− − − − −	− − − − −	30.51	no-fit
21	25	1.21	21.97 ± 0.65	0.29 ± 0.18	30.02	fitted
22	176	0.94	21.81 ± 0.22	3.32 ± 1.45	31.46	fitted
23	25	−−	− − − − −	− − − − −	30.43	no-fit
24	22	−−	− − − − −	− − − − −	30.38	no-fit
25	177	1.87	22.00 ± 0.18	2.17 ± 0.74	31.52	fitted
26	44	0.90	21.70 ± 0.27	1.49 ± 0.54	30.38	fitted
27	51	0.50	22.06 ± 0.32	2.11 ± 1.27	31.03	fitted
28	77	0.47	21.28 ± 0.72	1.49 ± 0.44	30.83	fitted
29	36	−−	− − − − −	− − − − −	30.59	no-fit
30	12	−−	− − − − −	− − − − −	30.12	no-fit
31	37	−−	− − − − −	− − − − −	30.60	no-fit
32	16	−−	− − − − −	− − − − −	30.25	no-fit
33	40	0.52	22.30 ± 0.19	0.74 ± 0.28	31.65	fitted
34	42	−−	− − − − −	− − − − −	30.64	no-fit
35	63	−−	− − − − −	− − − − −	30.83	no-fit
36	416	0.55	22.13 ± 0.08	7.85 ± 3.72	31.93	fitted
37	58	−−	− − − − −	− − − − −	30.79	no-fit
38	38	1.06	21.53 ± 1.00	64.00 ± ****	30.55	hard tail
39	34	0.68	21.74 ± 0.37	3.65 ± 4.96	30.36	fitted
40	11	−−	− − − − −	− − − − −	30.07	no-fit
41	218	1.61	21.22 ± 2.37	2.84 ± 1.01	31.18	fitted
42	37	0.76	21.63 ± 0.49	47.11 ± ****	30.63	hard tail
43	688	1.52	21.09 ± 1.59	1.88 ± 0.16	31.71	fitted
44	9	−−	− − − − −	− − − − −	29.98	no-fit
45	28	0.98	22.41 ± 0.93	64.00 ± ****	31.62	hard tail
46	89	0.72	21.36 ± 0.65	3.35 ± 1.90	31.02	fitted
47	18	−−	− − − − −	− − − − −	30.39	no-fit
48	19	−−	− − − − −	− − − − −	30.31	no-fit
49	34	−−	− − − − −	− − − − −	30.56	no-fit
50	27	0.58	21.73 ± 0.61	0.73 ± 0.23	29.97	fitted
51	13	−−	− − − − −	− − − − −	30.15	no-fit
52	156	0.90	21.41 ± 0.35	1.59 ± 0.28	31.18	Tr16-124
53	16	−−	− − − − −	− − − − −	30.23	no-fit
54	11	−−	− − − − −	− − − − −	30.10	no-fit
55	12	−−	− − − − −	− − − − −	30.10	no-fit
56	129	0.64	21.30 ± 0.46	2.44 ± 0.86	31.05	fitted
57	27	0.53	22.27 ± 0.36	1.20 ± 0.78	30.89	fitted
58	69	1.39	21.59 ± 0.32	0.75 ± 0.21	30.86	fitted
59	3	−−	− − − − −	− − − − −	29.00	no-fit
60	66	0.57	22.35 ± 0.26	7.65 ± ****	31.35	fitted
61	40	0.90	22.22 ± 0.32	1.68 ± 1.09	30.94	fitted
62	47	0.88	22.01 ± 0.28	1.09 ± 0.53	30.96	fitted
63	31	−−	− − − − −	− − − − −	30.61	no-fit
64	33	−−	− − − − −	− − − − −	30.55	no-fit
65	52	0.78	22.17 ± 0.15	0.86 ± 0.32	33.72	fitted

Table 3. continued.

N_x #	Cnts. (ph)	Stat. (χ^2_ν)	log (N_H) (cm^{-2})	kT (keV)	log (L_x) (erg/s)	flag
66	83	1.13	21.18 ± 0.57	2.63 ± 1.20	30.73	fitted
67	15	−−	− − − − −	− − − − −	30.23	no-fit
68	21	0.84	21.51 ± 0.52	1.65 ± 0.86	30.11	fitted
69	37	0.94	22.03 ± 0.27	1.08 ± 0.50	30.93	fitted
70	191	1.64	21.55 ± 0.25	1.80 ± 0.45	31.31	fitted
71	377	0.98	21.47 ± 0.68	2.23 ± 0.38	31.52	fitted
72	15	−−	− − − − −	− − − − −	30.20	no-fit
73	22	0.80	21.50 ± 0.84	3.70 ± 5.51	30.28	fitted
74	22476	12.73	21.69 ± 0.14	1.96 ± 0.34	33.52	HD93162AB
75	59	−−	− − − − −	− − − − −	30.80	no-fit
76	22	0.81	21.90 ± 0.82	1.62 ± 1.65	30.59	fitted
77	4	−−	− − − − −	− − − − −	33.00	fitted
78	9	−−	− − − − −	− − − − −	30.02	no-fit
79	56	1.42	21.85 ± 0.57	1.66 ± 1.01	30.88	fitted
80	9	−−	− − − − −	− − − − −	30.01	no-fit
81	17	−−	− − − − −	− − − − −	30.25	no-fit
82	44	0.88	22.02 ± 0.16	0.64 ± 0.28	31.20	fitted
83	17	−−	− − − − −	− − − − −	30.27	no-fit
84	22	0.80	21.83 ± 0.80	24.32 ± ****	30.39	hard tail
85	25	0.39	21.82 ± 0.18	3.69 ± 5.15	30.23	fitted
86	51	0.81	22.02 ± 0.29	1.25 ± 0.49	30.89	fitted
87	184	0.75	21.43 ± 0.25	34.46 ± ****	31.34	hard tail
88	17	−−	− − − − −	− − − − −	30.26	no-fit
89	689	0.82	22.13 ± 0.25	0.59 ± 0.36	32.82	Tr16-244
90	12	−−	− − − − −	− − − − −	30.13	no-fit
91	9	−−	− − − − −	− − − − −	30.01	no-fit
92	49	0.71	21.51 ± 0.39	1.84 ± 0.91	30.57	fitted
93	40	1.07	21.47 ± 0.69	0.35 ± 0.22	30.66	fitted
94	3	−−	− − − − −	− − − − −	29.40	no-fit
95	15	−−	− − − − −	− − − − −	30.23	no-fit
96	12	−−	− − − − −	− − − − −	30.12	no-fit
97	34	1.07	22.41 ± 0.29	1.38 ± 0.67	31.04	fitted
98	26	0.47	21.41 ± 0.64	1.78 ± 1.34	30.34	fitted
99	11	−−	− − − − −	− − − − −	30.09	no-fit
100	26	−−	− − − − −	− − − − −	30.45	no-fit
101	125	0.86	21.75 ± 0.28	1.60 ± 0.43	31.12	fitted
102	25	0.34	21.11 ± 2.13	27.96 ± ****	30.38	hard tail
103	52	0.45	22.45 ± 0.22	19.64 ± ****	31.15	hard tail
104	51	−−	− − − − −	− − − − −	30.74	no-fit
105	164	0.66	21.55 ± 0.17	2.49 ± 0.56	31.18	fitted
106	15	−−	− − − − −	− − − − −	30.22	no-fit
107	14	−−	− − − − −	− − − − −	30.19	no-fit
108	7	−−	− − − − −	− − − − −	29.99	no-fit
109	10	−−	− − − − −	− − − − −	30.04	no-fit
110	195	3.20	21.90 ± 0.16	1.25 ± 0.23	31.46	fitted
111	19	−−	− − − − −	− − − − −	30.32	no-fit
112	74	0.89	21.28 ± 0.48	6.50 ± 5.46	30.85	fitted
113	13	−−	− − − − −	− − − − −	30.17	no-fit
114	23	0.39	23.02 ± 0.53	34.42 ± ****	31.11	hard tail
115	34	0.65	21.77 ± 0.58	1.24 ± 0.61	31.61	fitted
116	35	1.24	22.43 ± 0.28	1.20 ± 0.77	31.42	fitted
117	18	−−	− − − − −	− − − − −	30.48	no-fit
118	11	−−	− − − − −	− − − − −	30.10	no-fit
119	65	0.43	21.62 ± 0.34	1.31 ± 0.27	30.79	fitted
120	15	−−	− − − − −	− − − − −	30.23	no-fit
121	37	0.49	21.53 ± 0.48	1.73 ± 1.15	30.58	fitted
122	26	0.88	21.82 ± 0.83	1.37 ± 1.08	30.32	fitted
123	13	−−	− − − − −	− − − − −	30.15	no-fit
124	32	−−	− − − − −	− − − − −	30.53	no-fit
125	25	0.79	21.63 ± 0.72	3.93 ± 6.84	30.35	fitted
126	65	0.83	21.49 ± 0.37	1.37 ± 0.37	30.68	fitted
127	7	−−	− − − − −	− − − − −	29.90	no-fit
128	41	0.88	22.50 ± 0.38	64.00 ± ****	31.00	hard tail
129	24	0.72	21.93 ± 0.39	1.04 ± 0.57	30.47	fitted
130	19	−−	− − − − −	− − − − −	30.32	no-fit

Table 3. continued.

N_x #	Cnts. (ph)	Stat. (χ^2_ν)	log (N_H) (cm^{-2})	kT (keV)	log (L_x) (erg/s)	flag
131	7	−−	− − − − −	− − − − −	29.89	no-fit
132	15	−−	− − − − −	− − − − −	30.21	no-fit
133	118	0.70	21.25 ± 0.38	3.58 ± 1.72	30.98	fitted
134	24	1.07	22.65 ± 0.26	0.76 ± 0.46	31.70	fitted
135	9	−−	− − − − −	− − − − −	30.02	no-fit
136	119	1.71	21.28 ± 2.14	3.05 ± 1.48	30.87	Tr16-11
137	4	−−	− − − − −	− − − − −	29.85	no-fit
138	23	0.84	22.79 ± 0.43	0.27 ± 0.17	33.21	fitted
139	5	−−	− − − − −	− − − − −	29.75	no-fit
140	6	−−	− − − − −	− − − − −	30.01	no-fit
141	51	1.06	21.70 ± 0.41	1.08 ± 0.42	30.70	fitted
142	33	0.39	21.59 ± 0.78	2.73 ± 2.64	30.50	fitted
143	18	−−	− − − − −	− − − − −	30.30	no-fit
144	13	−−	− − − − −	− − − − −	30.15	no-fit
145	31	0.66	21.99 ± 0.21	0.69 ± 0.33	30.86	fitted
146	42	0.55	21.92 ± 0.30	1.09 ± 0.45	30.82	fitted
147	88	0.54	21.83 ± 0.64	1.92 ± 0.45	30.72	fitted
148	9	−−	− − − − −	− − − − −	30.01	no-fit
149	17	−−	− − − − −	− − − − −	30.26	no-fit
150	38	0.62	20.22 ± 4.58	3.31 ± 2.21	30.38	fitted
151	159	1.05	21.50 ± 0.25	1.72 ± 0.34	31.09	fitted
152	47	0.65	21.59 ± 0.58	6.12 ± 8.28	30.82	fitted
153	58	0.67	21.76 ± 0.19	0.47 ± 0.20	31.10	fitted
154	31	−−	− − − − −	− − − − −	30.53	no-fit
155	23	0.67	22.10 ± 0.33	0.93 ± 0.51	30.73	fitted
156	318	1.12	21.45 ± 1.76	2.60 ± 0.54	31.49	fitted
157	34	0.34	21.67 ± 0.51	1.29 ± 0.30	30.27	fitted
158	67	0.40	21.04 ± 0.86	2.05 ± 0.70	30.73	fitted
159	22	0.81	21.26 ± 1.23	1.33 ± 0.31	29.92	fitted
160	32	1.14	22.16 ± 0.63	1.68 ± 1.88	30.67	fitted
161	7	−−	− − − − −	− − − − −	30.27	no-fit
162	8	−−	− − − − −	− − − − −	29.98	no-fit
163	19	−−	− − − − −	− − − − −	30.32	no-fit
164	70	0.60	21.39 ± 0.36	2.23 ± 1.30	30.73	fitted
165	21	0.74	22.05 ± 0.35	0.71 ± 0.51	30.73	fitted
166	16	−−	− − − − −	− − − − −	30.25	no-fit
167	6	−−	− − − − −	− − − − −	29.80	no-fit
168	7	−−	− − − − −	− − − − −	29.87	no-fit
169	30	0.66	21.72 ± 0.83	1.37 ± 0.98	30.53	fitted
170	70	0.82	21.52 ± 0.30	2.32 ± 1.23	30.91	fitted
171	8	−−	− − − − −	− − − − −	29.96	no-fit
172	54	0.55	21.61 ± 0.26	33.15 ± ****	30.81	hard tail
173	10	−−	− − − − −	− − − − −	30.05	no-fit
174	129	1.25	21.46 ± 0.22	1.88 ± 0.42	31.09	fitted
175	31	0.49	21.13 ± 0.83	1.58 ± 0.46	31.27	fitted
176	33	−−	− − − − −	− − − − −	30.55	no-fit
177	9	−−	− − − − −	− − − − −	30.00	no-fit
178	12	−−	− − − − −	− − − − −	30.14	no-fit
179	111	0.46	21.19 ± 0.36	0.57 ± 0.76	30.96	fitted
180	55	0.60	21.76 ± 0.17	2.56 ± 1.50	30.62	fitted
181	73	1.07	21.32 ± 0.39	2.76 ± 1.84	30.72	fitted
182	37	0.49	21.34 ± 0.54	1.44 ± 0.50	30.40	fitted
183	31	1.06	22.17 ± 0.41	1.57 ± 1.40	30.84	fitted
184	64	1.60	22.06 ± 0.12	0.76 ± 0.31	31.24	fitted
185	14	−−	− − − − −	− − − − −	30.20	no-fit
186	6	−−	− − − − −	− − − − −	29.81	no-fit
187	12	−−	− − − − −	− − − − −	30.12	no-fit
188	30	0.61	21.80 ± 0.13	2.20 ± 1.52	30.11	fitted
189	96	0.79	22.01 ± 0.23	1.46 ± 0.54	31.22	fitted
190	9	−−	− − − − −	− − − − −	30.02	no-fit
191	112	0.46	21.33 ± 0.27	2.30 ± 0.77	31.79	fitted
192	29	0.48	21.47 ± 0.50	1.70 ± 0.52	30.43	fitted
193	3	−−	− − − − −	− − − − −	29.51	no-fit
194	3	−−	− − − − −	− − − − −	29.55	no-fit
195	19	−−	− − − − −	− − − − −	30.32	no-fit

Table 3. continued.

N_x #	Cnts. (ph)	Stat. (χ^2_ν)	log (N_H) (cm^{-2})	kT (keV)	log (L_x) (erg/s)	flag
196	205	0.91	21.88 ± 0.15	2.37 ± 0.62	31.46	fitted
197	32	0.55	21.05 ± 0.95	1.45 ± 0.47	30.20	fitted
198	44	0.67	21.76 ± 0.39	1.22 ± 0.39	30.63	fitted
199	17	−−	− − − − −	− − − − −	30.27	no-fit
200	55	0.60	21.83 ± 0.31	1.39 ± 0.53	30.96	fitted
201	3	−−	− − − − −	− − − − −	29.55	no-fit
202	56	1.14	21.23 ± 1.57	64.00 ± ****	30.70	hard tail
203	12	−−	− − − − −	− − − − −	30.14	no-fit
204	23	0.62	21.77 ± 0.66	2.16 ± 1.94	30.34	fitted
205	71	0.86	21.61 ± 0.15	3.54 ± 2.65	33.28	fitted
206	22	0.52	21.86 ± 0.55	1.10 ± 0.72	30.39	fitted
207	149	1.35	21.92 ± 0.50	2.27 ± 0.59	31.00	Tr16-10
208	10	−−	− − − − −	− − − − −	30.05	no-fit
209	18	−−	− − − − −	− − − − −	30.28	no-fit
210	15	−−	− − − − −	− − − − −	30.20	no-fit
211	41	0.27	22.06 ± 0.35	1.21 ± 0.63	31.19	fitted
212	5	−−	− − − − −	− − − − −	29.75	no-fit
213	102	0.64	21.24 ± 0.35	4.31 ± 2.10	30.95	fitted
214	16	−−	− − − − −	− − − − −	30.24	no-fit
215	5	−−	− − − − −	− − − − −	29.96	no-fit
216	60	0.54	21.29 ± 0.52	7.25 ± ****	30.77	fitted
217	18	−−	− − − − −	− − − − −	30.29	no-fit
218	14	−−	− − − − −	− − − − −	30.18	no-fit
219	3	−−	− − − − −	− − − − −	29.22	no-fit
220	22	0.54	21.43 ± 0.73	3.03 ± 3.27	30.21	fitted
221	45	0.75	21.72 ± 0.43	1.63 ± 0.73	30.60	fitted
222	28	0.29	21.60 ± 0.51	1.66 ± 0.49	30.14	fitted
223	84	1.23	21.17 ± 0.51	3.17 ± 1.79	30.79	fitted
224	10	−−	− − − − −	− − − − −	30.05	no-fit
225	20	0.69	21.97 ± 0.43	1.09 ± 0.76	30.64	fitted
226	7	−−	− − − − −	− − − − −	29.88	no-fit
227	18	−−	− − − − −	− − − − −	30.29	no-fit
228	598	1.16	21.05 ± 2.05	0.60 ± 0.35	31.64	HD93204
229	48	1.00	21.28 ± 0.49	1.76 ± 0.74	30.42	fitted
230	9	−−	− − − − −	− − − − −	30.01	no-fit
231	39	1.07	21.93 ± 0.19	0.73 ± 0.29	30.83	fitted
232	8	−−	− − − − −	− − − − −	29.97	no-fit
233	17	−−	− − − − −	− − − − −	30.27	no-fit
234	113	1.76	22.09 ± 0.11	0.86 ± 0.26	31.58	fitted
235	33	0.61	21.26 ± 0.51	3.76 ± 3.72	30.30	fitted
236	25	0.74	22.03 ± 0.62	1.48 ± 2.14	30.56	fitted
237	80	1.15	21.42 ± 0.40	5.93 ± 6.03	30.86	fitted
238	30	0.72	21.54 ± 0.60	0.93 ± 0.33	30.30	fitted
239	25	0.43	21.97 ± 0.62	21.64 ± ****	31.47	hard tail
240	56	1.26	21.96 ± 0.43	1.37 ± 0.76	30.91	fitted
241	22	0.99	21.10 ± 1.49	63.99 ± ****	30.65	hard tail
242	3351	2.71	21.55 ± 0.32	0.57 ± 0.14	32.58	HD93205B
243	17	−−	− − − − −	− − − − −	30.27	no-fit
244	17	−−	− − − − −	− − − − −	30.26	no-fit
245	119	1.05	21.51 ± 0.32	2.61 ± 0.98	31.03	fitted
246	15	−−	− − − − −	− − − − −	30.21	no-fit
247	10	−−	− − − − −	− − − − −	30.04	no-fit
248	27	0.58	22.03 ± 0.37	1.79 ± 1.28	30.63	fitted
249	79	0.51	21.68 ± 0.25	4.63 ± 4.52	30.95	fitted
250	9	−−	− − − − −	− − − − −	29.98	no-fit
251	81	1.18	21.94 ± 0.24	1.26 ± 0.39	31.02	fitted
252	6	−−	− − − − −	− − − − −	29.84	no-fit
253	10	−−	− − − − −	− − − − −	30.04	no-fit
254	120	1.07	21.29 ± 0.30	4.49 ± 2.46	31.00	fitted
255	8	−−	− − − − −	− − − − −	29.96	no-fit
256	140	0.91	21.68 ± 0.25	2.16 ± 0.65	31.32	fitted
257	7	−−	− − − − −	− − − − −	29.91	no-fit
258	12	−−	− − − − −	− − − − −	30.13	no-fit
259	19	−−	− − − − −	− − − − −	30.32	no-fit
260	56	0.73	21.60 ± 0.30	1.75 ± 0.66	30.61	fitted

Table 3. continued.

N_x #	Cnts. (ph)	Stat. (χ^2_ν)	log ($N_{\rm H}$) (cm^{-2})	kT (keV)	log ($L_{\rm x}$) (erg/s)	flag
261	7	−−	− − − − −	− − − − −	30.10	no-fit
262	7	−−	− − − − −	− − − − −	30.10	no-fit
263	19	−−	− − − − −	− − − − −	30.31	no-fit
264	8	−−	− − − − −	− − − − −	29.97	no-fit
265	18	−−	− − − − −	− − − − −	30.28	no-fit
266	58	0.60	21.52 ± 0.38	1.20 ± 0.26	30.63	fitted
267	11	−−	− − − − −	− − − − −	30.29	no-fit
268	16	−−	− − − − −	− − − − −	30.24	no-fit
269	5	−−	− − − − −	− − − − −	29.97	no-fit
270	24	−−	− − − − −	− − − − −	30.41	no-fit
271	324	0.58	21.70 ± 0.11	2.03 ± 0.30	31.52	fitted
272	27	0.56	21.51 ± 0.30	2.87 ± 2.78	30.19	fitted
273	56	0.70	21.30 ± 0.62	30.23 ± ****	30.78	hard tail
274	13	−−	− − − − −	− − − − −	30.15	no-fit
275	63	2.14	21.22 ± 0.95	63.93 ± ****	30.76	hard tail
276	46	0.78	21.06 ± 0.66	1.55 ± 0.37	30.49	fitted
277	139	1.29	22.76 ± 0.19	47.03 ± ****	31.80	hard tail
278	85	1.01	21.72 ± 0.23	2.82 ± 1.48	30.94	fitted
279	25	0.67	21.91 ± 0.91	1.64 ± 2.26	30.46	fitted
280	3	−−	− − − − −	− − − − −	29.34	no-fit
281	70	1.48	21.67 ± 0.40	0.40 ± 0.27	31.17	Tr16-21
282	46	0.65	21.52 ± 0.73	3.32 ± 3.55	30.70	fitted
283	44	0.96	21.40 ± 0.32	2.43 ± 1.40	30.34	fitted
284	22	0.69	22.22 ± 0.21	0.76 ± 0.46	31.00	fitted
285	31	1.12	22.24 ± 0.59	64.00 ± ****	30.64	hard tail
286	6	−−	− − − − −	− − − − −	29.82	Tr16-14
287	31	0.95	22.47 ± 0.31	1.23 ± 0.84	31.08	fitted
288	9	−−	− − − − −	− − − − −	30.01	no-fit
289	46	0.70	21.28 ± 0.29	1.33 ± 0.18	30.29	fitted
290	37	0.49	21.99 ± 0.17	8.15 ± ****	30.42	hard tail
291	16	−−	− − − − −	− − − − −	30.24	no-fit
292	8	−−	− − − − −	− − − − −	29.96	no-fit
293	30	0.62	21.44 ± 0.71	6.89 ± ****	30.50	fitted
294	27	0.46	21.82 ± 0.17	3.39 ± 2.80	30.26	fitted
295	23	0.48	22.31 ± 0.44	64.00 ± ****	30.69	hard tail
296	34	0.77	21.95 ± 0.21	7.58 ± ****	30.29	fitted
297	40	1.48	21.09 ± 1.43	4.72 ± 5.84	30.41	fitted
298	14	−−	− − − − −	− − − − −	32.49	fitted
299	45	0.54	22.09 ± 0.17	0.17 ± 0.44	32.83	fitted
300	9	−−	− − − − −	− − − − −	30.09	no-fit
301	107	0.80	21.70 ± 0.28	1.72 ± 0.60	31.15	fitted
302	67	0.66	21.78 ± 0.18	0.76 ± 0.18	31.24	fitted
303	11	−−	− − − − −	− − − − −	30.07	no-fit
304	119	0.40	22.02 ± 0.13	1.10 ± 0.21	31.37	fitted
305	22	0.42	21.00 ± 2.33	62.87 ± ****	30.31	hard tail
306	10	−−	− − − − −	− − − − −	30.05	no-fit
307	27	1.16	21.96 ± 0.33	0.98 ± 0.49	30.95	fitted
308	29	0.41	21.68 ± 0.15	1.61 ± 0.41	30.15	fitted
309	16	−−	− − − − −	− − − − −	30.24	no-fit
310	3	−−	− − − − −	− − − − −	29.40	no-fit
311	108	2.11	21.44 ± 0.28	4.28 ± 2.14	30.96	fitted
312	5	−−	− − − − −	− − − − −	29.75	no-fit
313	14	−−	− − − − −	− − − − −	30.18	no-fit
314	31	0.52	21.21 ± 0.45	2.25 ± 1.34	30.19	fitted
315	18	−−	− − − − −	− − − − −	30.30	no-fit
316	24	0.68	21.60 ± 0.75	1.04 ± 0.49	30.29	fitted
317	27	0.55	21.81 ± 0.67	1.26 ± 0.83	30.46	fitted
318	19	−−	− − − − −	− − − − −	30.31	no-fit
319	9	−−	− − − − −	− − − − −	30.21	no-fit
320	9	−−	− − − − −	− − − − −	30.00	no-fit
321	6	−−	− − − − −	− − − − −	30.00	no-fit
322	128	0.90	22.16 ± 0.15	2.50 ± 0.93	31.44	fitted
323	18	−−	− − − − −	− − − − −	30.30	no-fit
324	14	−−	− − − − −	− − − − −	30.18	no-fit
325	70	1.35	21.93 ± 0.16	0.60 ± 0.21	31.20	fitted

Table 3. continued.

N_x #	Cnts. (ph)	Stat. (χ^2_ν)	log ($N_{\rm H}$) (cm^{-2})	kT (keV)	log ($L_{\rm x}$) (erg/s)	flag
326	20	0.83	21.00 ± 1.54	36.73 ± ****	30.22	hard tail
327	21	1.12	21.87 ± 0.48	0.87 ± 0.55	30.35	fitted
328	5	−−	− − − − −	− − − − −	29.77	no-fit
329	6	−−	− − − − −	− − − − −	29.81	no-fit
330	25	0.52	21.62 ± 0.59	0.87 ± 0.43	30.35	fitted
331	22	0.32	22.03 ± 0.36	1.12 ± 0.63	30.62	fitted
332	26	−−	− − − − −	− − − − −	30.45	no-fit
333	22	0.55	21.47 ± 0.29	1.66 ± 0.50	30.02	fitted
334	18	−−	− − − − −	− − − − −	30.28	no-fit
335	7	−−	− − − − −	− − − − −	29.87	no-fit
336	13	−−	− − − − −	− − − − −	30.15	no-fit
337	28	0.44	21.54 ± 0.58	1.90 ± 1.09	30.37	fitted
338	8	−−	− − − − −	− − − − −	29.98	no-fit
339	31	0.75	21.44 ± 0.53	1.54 ± 0.59	30.34	fitted
340	25	1.11	21.76 ± 0.33	34.91 ± ****	30.26	hard tail
341	29	0.86	21.95 ± 0.52	64.00 ± ****	30.53	hard tail
342	52	0.86	20.92 ± 0.86	1.99 ± 0.63	30.45	fitted
343	4	−−	− − − − −	− − − − −	29.69	no-fit
344	10	−−	− − − − −	− − − − −	30.05	no-fit
345	48	0.53	21.28 ± 0.44	1.63 ± 0.38	30.44	fitted
346	8	−−	− − − − −	− − − − −	29.96	no-fit
347	17	−−	− − − − −	− − − − −	30.26	no-fit
348	22	0.65	21.90 ± 0.15	3.63 ± 4.58	30.07	fitted
349	16	−−	− − − − −	− − − − −	30.24	no-fit
350	73	0.71	21.88 ± 0.17	1.05 ± 0.21	31.01	fitted
351	147	0.75	21.49 ± 0.19	2.35 ± 0.63	31.08	fitted
352	1073	1.11	21.55 ± 0.57	0.60 ± 0.30	32.14	CPD-592600
353	13	−−	− − − − −	− − − − −	30.16	no-fit
354	46	0.71	21.67 ± 0.44	1.37 ± 0.55	30.60	fitted
355	33	0.65	21.08 ± 0.81	64.00 ± ****	30.41	hard tail
356	13	−−	− − − − −	− − − − −	30.16	no-fit
357	73	0.43	21.53 ± 0.28	1.57 ± 0.33	30.81	fitted
358	9	−−	− − − − −	− − − − −	30.00	no-fit
359	8	−−	− − − − −	− − − − −	29.96	no-fit
360	7	−−	− − − − −	− − − − −	29.87	no-fit
361	9	−−	− − − − −	− − − − −	30.00	no-fit
362	23	0.92	22.13 ± 0.56	2.07 ± 2.58	30.51	fitted
363	4	−−	− − − − −	− − − − −	29.65	no-fit
364	18	−−	− − − − −	− − − − −	30.29	no-fit
365	10	−−	− − − − −	− − − − −	30.05	no-fit
366	14	−−	− − − − −	− − − − −	30.18	no-fit
367	12	−−	− − − − −	− − − − −	30.13	no-fit
368	14	−−	− − − − −	− − − − −	30.20	no-fit
369	9	−−	− − − − −	− − − − −	30.01	no-fit
370	57	0.45	21.82 ± 0.26	2.43 ± 1.36	30.82	fitted
371	7	−−	− − − − −	− − − − −	29.90	no-fit
372	22	0.41	22.46 ± 0.28	1.03 ± 0.67	31.44	fitted
373	6	−−	− − − − −	− − − − −	29.87	no-fit
374	7	−−	− − − − −	− − − − −	29.87	no-fit
375	26	0.24	21.64 ± 0.54	2.51 ± 2.44	30.42	fitted
376	32	0.42	21.07 ± 0.86	1.71 ± 0.49	30.27	fitted
377	10	−−	− − − − −	− − − − −	30.06	no-fit
378	36	0.32	21.83 ± 0.39	1.72 ± 0.75	30.71	fitted
379	66	0.58	21.59 ± 0.30	2.56 ± 1.17	31.08	fitted
380	7	−−	− − − − −	− − − − −	29.91	no-fit
381	21	0.66	21.64 ± 0.66	6.62 ± ****	30.68	fitted
382	32	0.67	22.09 ± 0.39	2.36 ± 1.81	30.92	fitted
383	49	0.76	21.57 ± 0.44	1.19 ± 0.36	30.81	fitted
384	17	−−	− − − − −	− − − − −	30.26	no-fit
385	32	0.85	22.29 ± 0.56	63.36 ± ****	30.82	hard tail
386	21	0.81	22.18 ± 0.48	64.00 ± ****	30.61	hard tail
387	16	−−	− − − − −	− − − − −	30.24	no-fit
388	53	1.07	20.84 ± 1.08	3.83 ± 3.51	30.49	fitted
389	8	−−	− − − − −	− − − − −	29.94	no-fit
390	9	−−	− − − − −	− − − − −	30.00	no-fit

Table 3. continued.

N_x #	Cnts. (ph)	Stat. (χ^2_ν)	log (N_H) (cm^{-2})	kT (keV)	log (L_x) (erg/s)	flag
391	18	−−	− − − − −	− − − − −	30.30	no-fit
392	46	0.83	21.06 ± 0.67	1.70 ± 0.36	30.71	fitted
393	31	0.94	21.94 ± 0.71	1.62 ± 1.61	30.68	fitted
394	7	−−	− − − − −	− − − − −	29.92	no-fit
395	36	0.46	22.39 ± 0.29	6.18 ± 9.66	31.06	fitted
396	19	−−	− − − − −	− − − − −	30.32	no-fit
397	19	−−	− − − − −	− − − − −	30.31	no-fit
398	18	−−	− − − − −	− − − − −	30.29	no-fit
399	5	−−	− − − − −	− − − − −	29.77	no-fit
400	44	0.80	21.16 ± 0.58	1.39 ± 0.39	30.77	fitted
401	81	0.76	21.17 ± 0.57	2.65 ± 1.10	30.79	fitted
402	11	−−	− − − − −	− − − − −	30.10	no-fit
403	42	1.12	21.17 ± 0.79	47.19 ± ****	30.58	hard tail
404	16	−−	− − − − −	− − − − −	30.24	no-fit
405	27	0.61	22.26 ± 0.52	2.06 ± 2.48	30.62	fitted
406	66	0.89	21.84 ± 0.23	2.91 ± 1.68	30.91	fitted
407	204	0.54	21.33 ± 2.33	0.64 ± 0.82	31.49	CPD-592603C
408	51	1.05	21.47 ± 0.52	0.81 ± 0.21	30.69	fitted
409	33	0.76	23.01 ± 0.40	2.41 ± 3.02	31.38	fitted
410	12	−−	− − − − −	− − − − −	30.11	no-fit
411	19	−−	− − − − −	− − − − −	30.32	no-fit
412	26	0.85	21.94 ± 0.56	2.00 ± 2.02	30.77	fitted
413	23	0.49	21.72 ± 0.77	1.72 ± 1.58	30.70	fitted
414	24	0.79	21.27 ± 0.72	1.84 ± 1.20	30.60	fitted
415	14	−−	− − − − −	− − − − −	30.18	no-fit
416	19	−−	− − − − −	− − − − −	31.10	fitted
417	106	0.88	21.58 ± 0.22	1.86 ± 0.46	30.95	fitted
418	11	−−	− − − − −	− − − − −	30.09	no-fit
419	123	0.80	21.46 ± 0.22	2.04 ± 0.54	30.99	fitted
420	50	0.35	21.81 ± 0.30	2.96 ± 2.02	30.79	fitted
421	5	−−	− − − − −	− − − − −	29.78	no-fit
422	5	−−	− − − − −	− − − − −	29.76	no-fit
423	5	−−	− − − − −	− − − − −	29.75	no-fit
424	28	0.79	21.42 ± 0.88	44.83 ± ****	30.63	hard tail
425	30	0.79	22.35 ± 0.21	0.67 ± 0.47	31.41	fitted
426	16	−−	− − − − −	− − − − −	30.23	no-fit
427	25	0.52	21.72 ± 0.53	2.56 ± 2.81	30.75	fitted
428	10	−−	− − − − −	− − − − −	30.23	no-fit
429	27	0.65	21.89 ± 0.17	5.06 ± ****	30.26	fitted
430	27	0.67	21.83 ± 0.75	1.76 ± 1.29	30.37	fitted
431	67	1.36	21.27 ± 0.55	42.71 ± ****	30.81	hard tail
432	73	0.55	21.07 ± 0.67	13.03 ± ****	30.92	hard tail
433	9	−−	− − − − −	− − − − −	30.01	no-fit
434	32	0.84	21.53 ± 0.70	3.49 ± 4.02	30.31	fitted
435	12	−−	− − − − −	− − − − −	30.12	no-fit
436	10	−−	− − − − −	− − − − −	30.06	no-fit
437	63	1.30	22.00 ± 0.29	3.07 ± 3.00	30.97	fitted
438	208	1.11	21.47 ± 0.19	10.51 ± 7.20	31.33	hard tail
439	66	1.44	21.43 ± 0.35	3.65 ± 2.19	30.69	fitted
440	51	1.08	21.33 ± 0.53	3.40 ± 2.71	30.66	fitted
441	76	0.55	21.16 ± 0.40	2.26 ± 1.10	30.73	fitted
442	13	−−	− − − − −	− − − − −	30.17	no-fit
443	9	−−	− − − − −	− − − − −	29.99	no-fit
444	15	−−	− − − − −	− − − − −	30.21	no-fit
445	5	−−	− − − − −	− − − − −	30.13	no-fit
446	104	1.14	21.95 ± 0.18	2.40 ± 0.99	31.14	fitted
447	167	1.41	21.26 ± 2.73	4.87 ± 2.30	31.10	fitted
448	44	1.25	21.58 ± 0.46	2.17 ± 1.64	30.49	fitted
449	63	0.69	21.17 ± 0.52	4.50 ± 4.60	30.70	fitted
450	136	0.70	21.85 ± 0.23	2.09 ± 0.69	31.23	fitted
451	16	−−	− − − − −	− − − − −	30.25	no-fit
452	8	−−	− − − − −	− − − − −	29.94	no-fit
453	51	1.12	22.13 ± 0.37	1.93 ± 1.69	30.95	fitted
454	12	−−	− − − − −	− − − − −	30.12	no-fit
455	5	−−	− − − − −	− − − − −	29.77	no-fit

Table 3. continued.

N_x #	Cnts. (ph)	Stat. (χ^2_ν)	log (N_H) (cm^{-2})	kT (keV)	log (L_x) (erg/s)	flag
456	7	−−	− − − − −	− − − − −	29.90	no-fit
457	19	−−	− − − − −	− − − − −	30.32	no-fit
458	53	0.77	21.63 ± 0.32	1.72 ± 0.58	30.61	fitted
459	61	0.91	22.63 ± 0.22	64.00 ± ****	31.28	hard tail
460	10	−−	− − − − −	− − − − −	30.06	no-fit
461	18	−−	− − − − −	− − − − −	30.29	no-fit
462	15	−−	− − − − −	− − − − −	30.21	no-fit
463	7	−−	− − − − −	− − − − −	29.92	no-fit
464	9	−−	− − − − −	− − − − −	30.02	no-fit
465	9	−−	− − − − −	− − − − −	29.99	no-fit
466	6	−−	− − − − −	− − − − −	29.84	no-fit
467	33	0.91	21.74 ± 0.53	1.72 ± 1.07	30.39	fitted
468	435	0.47	21.63 ± 1.08	20.08 ± ****	31.73	hard tail
469	25	0.85	21.86 ± 0.19	0.89 ± 0.30	29.92	fitted
470	49	0.61	21.63 ± 0.43	1.12 ± 0.42	30.58	fitted
471	7	−−	− − − − −	− − − − −	29.89	no-fit
472	52	1.16	22.48 ± 0.41	13.66 ± ****	31.20	hard tail
473	53	0.34	21.16 ± 0.63	7.32 ± 9.24	30.97	fitted
474	12	−−	− − − − −	− − − − −	30.12	no-fit
475	5	−−	− − − − −	− − − − −	29.77	no-fit
476	26	0.42	22.10 ± 0.24	1.04 ± 0.50	30.79	fitted
477	24	0.79	21.47 ± 1.04	0.96 ± 0.40	29.92	fitted
478	17	−−	− − − − −	− − − − −	30.28	no-fit
479	16	−−	− − − − −	− − − − −	30.24	no-fit
480	27	−−	− − − − −	− − − − −	30.47	no-fit
481	25	0.56	22.15 ± 0.48	1.67 ± 1.44	30.63	fitted
482	64	0.69	21.52 ± 0.29	2.32 ± 0.84	30.86	fitted
483	6	−−	− − − − −	− − − − −	29.83	no-fit
484	12	−−	− − − − −	− − − − −	30.13	no-fit
485	15	−−	− − − − −	− − − − −	30.21	no-fit
486	32	0.56	22.01 ± 0.23	0.86 ± 0.40	30.82	fitted
487	12	−−	− − − − −	− − − − −	30.13	no-fit
488	6	−−	− − − − −	− − − − −	29.81	no-fit
489	159	1.14	21.36 ± 2.08	2.87 ± 0.88	31.10	Tr16-5
490	22	1.07	21.57 ± 1.44	1.36 ± 1.33	30.06	fitted
491	52	0.57	21.37 ± 0.52	9.89 ± ****	30.72	hard tail
492	7	−−	− − − − −	− − − − −	29.89	no-fit
493	3	−−	− − − − −	− − − − −	29.18	no-fit
494	9	−−	− − − − −	− − − − −	30.00	no-fit
495	54	0.79	22.34 ± 0.17	1.15 ± 0.42	31.37	fitted
496	75	0.97	21.34 ± 0.34	2.10 ± 0.61	30.69	fitted
497	63	1.17	21.95 ± 0.13	0.75 ± 0.21	31.15	fitted
498	10	−−	− − − − −	− − − − −	30.03	no-fit
499	52	0.38	22.57 ± 0.16	0.85 ± 0.42	31.95	fitted
500	20	0.25	21.77 ± 0.19	2.33 ± 1.52	30.09	fitted
501	29	1.34	21.85 ± 0.51	1.37 ± 0.53	29.99	fitted
502	16	−−	− − − − −	− − − − −	30.24	no-fit
503	474	1.55	21.57 ± 0.95	3.08 ± 0.56	31.63	fitted
504	19	−−	− − − − −	− − − − −	30.31	no-fit
505	5	−−	− − − − −	− − − − −	29.77	no-fit
506	8	−−	− − − − −	− − − − −	29.94	no-fit
507	122	0.76	22.08 ± 0.18	1.37 ± 0.43	31.40	fitted
508	15	−−	− − − − −	− − − − −	30.22	no-fit
509	28	0.92	21.79 ± 0.69	0.34 ± 0.58	30.85	fitted
510	14	−−	− − − − −	− − − − −	30.20	no-fit
511	9	−−	− − − − −	− − − − −	30.01	no-fit
512	15	−−	− − − − −	− − − − −	30.20	no-fit
513	107	0.49	21.64 ± 0.24	1.72 ± 0.43	30.99	fitted
514	13	−−	− − − − −	− − − − −	30.15	no-fit
515	15	−−	− − − − −	− − − − −	30.21	no-fit
516	16	−−	− − − − −	− − − − −	30.25	no-fit
517	13	−−	− − − − −	− − − − −	30.16	no-fit
518	43	0.50	22.02 ± 0.40	1.37 ± 0.86	30.95	fitted
519	42	0.87	22.33 ± 0.29	1.95 ± 1.18	31.03	fitted
520	16	−−	− − − − −	− − − − −	30.25	no-fit

Table 3. continued.

N_x #	Cnts. (ph)	Stat. (χ^2_ν)	log (N_H) (cm^{-2})	kT (keV)	log (L_x) (erg/s)	flag
521	50	0.30	21.78 ± 0.48	1.37 ± 0.71	30.78	fitted
522	21	0.94	22.20 ± 0.55	2.07 ± 2.51	30.44	fitted
523	91	0.80	22.05 ± 0.18	3.45 ± 1.72	31.15	fitted
524	1367	1.01	21.85 ± 0.50	7.20 ± 1.70	32.32	fitted
525	19	−−	− − − − −	− − − − −	30.33	no-fit
526	103	0.94	21.73 ± 0.23	2.17 ± 0.80	31.02	fitted
527	29	0.73	21.69 ± 0.55	1.72 ± 0.86	30.37	fitted
528	7	−−	− − − − −	− − − − −	29.88	no-fit
529	17	−−	− − − − −	− − − − −	30.26	no-fit
530	9	−−	− − − − −	− − − − −	30.00	no-fit
531	148	0.45	21.68 ± 0.20	1.44 ± 0.30	31.15	fitted
532	12	−−	− − − − −	− − − − −	30.12	no-fit
533	7	−−	− − − − −	− − − − −	29.88	no-fit
534	121	0.88	21.54 ± 0.17	0.60 ± 0.90	31.33	fitted
535	38	0.23	21.66 ± 0.40	1.60 ± 0.54	30.56	fitted
536	10	−−	− − − − −	− − − − −	30.06	no-fit
537	104	0.74	21.12 ± 0.39	2.37 ± 0.84	30.85	fitted
538	18	−−	− − − − −	− − − − −	30.28	no-fit
539	9	−−	− − − − −	− − − − −	30.02	no-fit
540	41	0.69	22.23 ± 0.35	2.45 ± 1.90	30.91	fitted
541	10	−−	− − − − −	− − − − −	30.06	no-fit
542	51	0.75	21.33 ± 0.51	10.02 ± ****	30.64	hard tail
543	28	0.67	22.17 ± 0.45	1.52 ± 1.27	30.71	fitted
544	8	−−	− − − − −	− − − − −	29.94	no-fit
545	10	−−	− − − − −	− − − − −	30.05	no-fit
546	29	0.51	21.94 ± 0.47	4.26 ± 5.08	30.59	fitted
547	66	0.36	21.64 ± 0.28	4.79 ± 3.65	30.89	fitted
548	19	−−	− − − − −	− − − − −	35.60	fitted
549	30	0.45	22.11 ± 0.41	1.59 ± 1.13	30.76	fitted
550	28	0.70	22.26 ± 0.46	1.10 ± 1.61	31.04	fitted
551	39	0.87	21.88 ± 0.12	1.37 ± 0.36	30.24	fitted
552	155	0.77	21.64 ± 0.18	2.40 ± 0.64	31.19	fitted
553	66	0.87	21.38 ± 0.35	2.72 ± 1.14	30.76	fitted
554	30	0.65	21.80 ± 0.32	0.86 ± 0.39	30.62	fitted
555	35	0.69	22.02 ± 0.21	0.86 ± 0.43	30.82	fitted
556	5	−−	− − − − −	− − − − −	29.80	no-fit
557	7	−−	− − − − −	− − − − −	29.93	no-fit
558	32	0.72	21.97 ± 0.18	0.67 ± 0.35	30.99	fitted
559	33	0.61	21.74 ± 0.21	5.89 ± ****	30.47	fitted
560	9	−−	− − − − −	− − − − −	29.98	no-fit
561	10	−−	− − − − −	− − − − −	30.04	no-fit
562	28	0.39	21.50 ± 0.26	3.61 ± 5.90	30.34	fitted
563	27	0.55	21.65 ± 0.61	1.37 ± 0.64	30.57	fitted
564	251	1.17	21.95 ± 0.15	17.19 ± ****	31.64	hard tail
565	24	0.57	21.60 ± 0.72	1.23 ± 0.64	30.28	fitted
566	10	−−	− − − − −	− − − − −	30.04	no-fit
567	41	0.82	21.15 ± 2.37	63.13 ± ****	30.50	hard tail
568	19	−−	− − − − −	− − − − −	30.30	no-fit
569	79	0.64	21.78 ± 0.25	1.39 ± 0.42	30.91	fitted
570	12	−−	− − − − −	− − − − −	30.13	no-fit
571	6	−−	− − − − −	− − − − −	29.84	no-fit
572	53	1.15	21.46 ± 0.44	3.27 ± 2.05	30.61	fitted
573	31	0.91	21.27 ± 0.84	2.16 ± 1.68	30.21	fitted
574	5	−−	− − − − −	− − − − −	29.82	no-fit
575	7	−−	− − − − −	− − − − −	29.93	no-fit
576	9	−−	− − − − −	− − − − −	30.01	no-fit
577	21	0.46	21.19 ± 1.27	0.91 ± 0.38	30.10	fitted
578	18	−−	− − − − −	− − − − −	30.30	no-fit
579	6	−−	− − − − −	− − − − −	29.85	no-fit
580	9	−−	− − − − −	− − − − −	29.99	no-fit
581	83	1.18	21.22 ± 0.41	3.92 ± 1.93	31.74	fitted
582	16	−−	− − − − −	− − − − −	31.58	fitted
583	25	0.45	22.56 ± 0.40	64.00 ± ****	32.79	hard tail
584	17	−−	− − − − −	− − − − −	30.28	no-fit
585	52	1.11	21.07 ± 0.81	2.73 ± 1.90	30.42	fitted

Table 3. continued.

N_x #	Cnts. (ph)	Stat. (χ^2_ν)	log (N_H) (cm^{-2})	kT (keV)	log (L_x) (erg/s)	flag
586	6	−−	− − − − −	− − − − −	29.84	no-fit
587	66	0.90	21.99 ± 0.23	1.09 ± 0.38	31.04	fitted
588	32	0.85	21.15 ± 0.93	6.50 ± 9.21	30.27	fitted
589	38	0.72	22.04 ± 0.15	0.58 ± 0.22	31.31	fitted
590	32	0.42	21.49 ± 0.62	1.15 ± 0.42	30.33	fitted
591	34	0.82	21.52 ± 0.53	1.38 ± 0.75	30.29	fitted
592	3	−−	− − − − −	− − − − −	28.92	no-fit
593	33	0.65	21.09 ± 0.97	3.43 ± 5.50	30.36	fitted
594	52	0.80	22.56 ± 0.21	2.25 ± 1.55	31.34	fitted
595	12	−−	− − − − −	− − − − −	30.11	no-fit
596	27	0.78	21.67 ± 0.63	3.26 ± 3.84	30.34	fitted
597	21	0.48	21.95 ± 0.13	2.26 ± 1.68	30.13	fitted
598	5	−−	− − − − −	− − − − −	29.79	no-fit
599	26	0.80	21.78 ± 0.42	9.36 ± ****	30.13	hard tail
600	525	1.55	21.65 ± 0.64	0.62 ± 0.43	31.87	fitted
601	7	−−	− − − − −	− − − − −	29.90	no-fit
602	39	0.56	21.29 ± 0.67	1.16 ± 0.31	30.37	fitted
603	82	0.40	21.82 ± 0.29	1.61 ± 0.49	30.99	fitted
604	12	−−	− − − − −	− − − − −	30.14	no-fit
605	99	0.72	21.63 ± 0.25	3.84 ± 2.13	31.01	fitted
606	47	0.93	21.40 ± 0.44	9.81 ± ****	30.57	hard tail
607	3	−−	− − − − −	− − − − −	28.92	no-fit
608	9	−−	− − − − −	− − − − −	30.18	no-fit
609	13	−−	− − − − −	− − − − −	30.16	no-fit
610	17	−−	− − − − −	− − − − −	30.26	no-fit
611	11	−−	− − − − −	− − − − −	30.09	no-fit
612	18	−−	− − − − −	− − − − −	30.30	no-fit
613	9	−−	− − − − −	− − − − −	30.22	no-fit
614	29	1.55	22.78 ± 0.23	2.21 ± 1.71	31.45	fitted
615	8	−−	− − − − −	− − − − −	29.95	no-fit
616	44	0.56	22.42 ± 0.24	34.30 ± ****	31.11	hard tail
617	23	0.36	21.03 ± 0.90	1.70 ± 0.46	32.49	fitted
618	19	−−	− − − − −	− − − − −	30.32	no-fit
619	422	0.99	21.23 ± 2.27	0.51 ± 0.80	31.52	fitted
620	224	1.31	21.96 ± 0.17	2.03 ± 0.55	31.56	fitted
621	27	0.50	21.73 ± 0.47	3.02 ± 3.67	30.44	fitted
622	17	−−	− − − − −	− − − − −	30.64	no-fit
623	77	0.59	21.72 ± 0.32	3.13 ± 1.73	30.93	fitted
624	425	1.93	21.70 ± 0.14	0.47 ± 0.65	31.30	fitted
625	5	−−	− − − − −	− − − − −	29.76	no-fit
626	10	−−	− − − − −	− − − − −	30.05	no-fit
627	69	0.59	21.36 ± 0.33	2.15 ± 0.57	30.75	fitted
628	34	0.64	21.25 ± 0.70	2.56 ± 1.47	30.39	fitted
629	33	0.55	21.20 ± 0.66	1.88 ± 0.85	30.26	fitted
630	11	−−	− − − − −	− − − − −	30.07	no-fit
631	34	0.45	21.24 ± 0.58	1.83 ± 0.80	30.30	fitted
632	58	0.36	21.74 ± 0.27	1.75 ± 0.63	30.79	fitted
633	23	0.44	22.06 ± 0.43	1.45 ± 0.99	30.57	fitted
634	11	−−	− − − − −	− − − − −	30.10	no-fit
635	7	−−	− − − − −	− − − − −	29.88	no-fit
636	16	−−	− − − − −	− − − − −	30.24	no-fit
637	18	−−	− − − − −	− − − − −	30.28	no-fit
638	114	0.96	21.39 ± 0.24	2.35 ± 0.91	30.96	fitted
639	10	−−	− − − − −	− − − − −	30.06	no-fit
640	12	−−	− − − − −	− − − − −	30.10	no-fit
641	9	−−	− − − − −	− − − − −	29.99	no-fit
642	24	0.62	21.78 ± 0.69	1.09 ± 0.76	30.42	fitted
643	16	−−	− − − − −	− − − − −	30.23	no-fit
644	9	−−	− − − − −	− − − − −	30.02	no-fit
645	70	1.12	22.02 ± 0.23	1.12 ± 0.37	31.07	fitted
646	6	−−	− − − − −	− − − − −	29.84	no-fit
647	3	−−	− − − − −	− − − − −	28.92	no-fit
648	3	−−	− − − − −	− − − − −	28.92	no-fit
649	17563	6.03	22.65 ± 0.01	64.00 ± ****	33.77	Eta Carina
650	92	0.92	21.93 ± 0.54	4.96 ± 2.97	30.90	fitted

Table 3. continued.

N_x #	Cnts. (ph)	Stat. (χ^2_ν)	log ($N_{\rm H}$) ($\rm cm^{-2}$)	kT (keV)	log ($L_{\rm x}$) (erg/s)	flag
651	435	0.82	21.69 ± 0.96	5.24 ± 1.28	31.70	fitted
652	14	−−	− − − − −	− − − − −	30.18	no-fit
653	11	−−	− − − − −	− − − − −	30.10	no-fit
654	13	−−	− − − − −	− − − − −	30.16	no-fit
655	18	−−	− − − − −	− − − − −	30.30	no-fit
656	119	0.86	21.39 ± 0.28	2.10 ± 0.45	30.98	fitted
657	20	−−	− − − − −	− − − − −	30.33	no-fit
658	50	0.67	21.91 ± 0.09	3.01 ± 2.07	30.47	fitted
659	29	0.36	21.08 ± 1.13	21.66 ± ****	30.43	hard tail
660	10	−−	− − − − −	− − − − −	30.03	no-fit
661	26	0.68	21.46 ± 0.72	3.46 ± 3.80	30.20	fitted
662	29	1.19	21.23 ± 0.94	1.81 ± 1.55	30.19	fitted
663	369	1.19	21.25 ± 1.87	3.03 ± 0.63	31.46	fitted
664	17	−−	− − − − −	− − − − −	30.28	no-fit
665	31	0.50	22.07 ± 0.58	9.37 ± ****	30.75	hard tail
666	31	0.71	21.78 ± 0.52	33.31 ± ****	30.56	hard tail
667	46	0.51	21.76 ± 0.32	3.94 ± 3.57	30.72	fitted
668	42	0.62	21.60 ± 0.35	1.81 ± 0.78	30.55	fitted
669	8	−−	− − − − −	− − − − −	29.94	no-fit
670	82	1.21	21.92 ± 0.29	1.19 ± 0.44	31.02	fitted
671	9	−−	− − − − −	− − − − −	30.01	no-fit
672	11	−−	− − − − −	− − − − −	30.09	no-fit
673	98	0.74	21.84 ± 0.68	5.73 ± 4.48	30.83	fitted
674	78	0.45	21.66 ± 0.24	2.41 ± 1.06	30.89	fitted
675	29	0.69	22.25 ± 0.32	2.81 ± 2.75	30.67	fitted
676	12	−−	− − − − −	− − − − −	30.13	no-fit
677	49	0.66	21.65 ± 0.39	4.97 ± 4.75	30.70	fitted
678	8	−−	− − − − −	− − − − −	29.95	no-fit
679	11	−−	− − − − −	− − − − −	32.47	fitted
680	52	0.65	21.76 ± 0.34	1.42 ± 0.49	30.69	fitted
681	49	0.66	21.08 ± 0.68	3.52 ± 3.00	30.53	fitted
682	117	1.04	21.14 ± 0.40	3.86 ± 2.30	31.10	no-fit
683	23	0.54	22.01 ± 0.43	1.82 ± 1.31	32.15	fitted
684	11	−−	− − − − −	− − − − −	30.08	no-fit
685	15	−−	− − − − −	− − − − −	30.21	no-fit
686	16	−−	− − − − −	− − − − −	32.55	fitted
687	217	0.72	21.66 ± 0.95	0.62 ± 0.65	31.54	Tr16-23
688	82	0.81	21.58 ± 0.19	0.64 ± 0.11	31.38	Tr16-9
689	1718	1.95	21.45 ± 0.53	0.56 ± 0.17	32.25	HDE303308
690	9	−−	− − − − −	− − − − −	30.01	no-fit
691	75	1.13	21.11 ± 0.54	2.39 ± 0.88	30.67	fitted
692	29	0.62	20.83 ± 1.50	7.87 ± ****	30.29	fitted
693	60	0.74	21.25 ± 0.58	8.93 ± ****	30.82	hard tail
694	23	0.35	21.73 ± 0.64	1.37 ± 0.66	30.34	fitted
695	44	0.96	21.78 ± 0.10	1.42 ± 0.41	30.28	fitted
696	434	1.27	21.48 ± 1.19	7.47 ± 2.96	31.80	fitted
697	8	−−	− − − − −	− − − − −	29.93	no-fit
698	45	0.94	21.06 ± 0.87	2.59 ± 1.44	30.55	fitted
699	28	0.75	22.43 ± 0.57	64.00 ± ****	30.90	hard tail
700	29	−−	− − − − −	− − − − −	30.50	no-fit
701	7	−−	− − − − −	− − − − −	29.92	no-fit
702	5	−−	− − − − −	− − − − −	29.74	no-fit
703	20	0.59	22.53 ± 0.59	1.62 ± 2.12	30.83	fitted
704	10	−−	− − − − −	− − − − −	30.06	no-fit
705	14	−−	− − − − −	− − − − −	30.19	no-fit
706	9	−−	− − − − −	− − − − −	30.01	no-fit
707	91	0.85	21.34 ± 0.55	0.36 ± 0.14	30.97	Tr16-3
708	11	−−	− − − − −	− − − − −	30.10	no-fit
709	71	0.61	21.59 ± 0.28	2.98 ± 1.66	30.82	fitted
710	8	−−	− − − − −	− − − − −	29.98	no-fit
711	5	−−	− − − − −	− − − − −	29.76	no-fit
712	12	−−	− − − − −	− − − − −	30.31	no-fit
713	14	−−	− − − − −	− − − − −	30.18	no-fit
714	201	1.87	21.11 ± 2.94	5.35 ± 2.49	31.16	fitted
715	30	0.45	21.48 ± 0.55	1.29 ± 0.35	30.64	fitted

Table 3. continued.

N_x #	Cnts. (ph)	Stat. (χ^2_ν)	log ($N_{\rm H}$) ($\rm cm^{-2}$)	kT (keV)	log ($L_{\rm x}$) (erg/s)	flag
716	24	0.77	21.38 ± 0.69	1.72 ± 1.08	30.21	fitted
717	23	0.93	21.77 ± 1.17	1.64 ± 2.26	30.29	fitted
718	34	0.56	21.69 ± 0.47	1.17 ± 0.41	30.45	fitted
719	4	−−	− − − − −	− − − − −	29.70	no-fit
720	17	−−	− − − − −	− − − − −	30.27	no-fit
721	20	0.62	22.29 ± 0.46	1.09 ± 1.09	30.90	fitted
722	54	1.04	22.49 ± 0.30	12.65 ± ****	31.21	hard tail
723	24	0.42	21.68 ± 0.76	1.64 ± 1.14	30.33	fitted
724	59	1.00	22.21 ± 0.24	1.46 ± 0.58	31.15	fitted
725	187	2.04	21.38 ± 1.98	3.00 ± 0.96	31.14	fitted
726	26	1.08	22.13 ± 0.66	1.29 ± 1.24	30.66	fitted
727	59	0.63	21.58 ± 0.36	2.16 ± 0.85	30.71	fitted
728	7	−−	− − − − −	− − − − −	29.91	no-fit
729	56	0.90	21.62 ± 0.36	1.92 ± 0.74	30.40	CPD-592628B
730	2029	1.57	21.68 ± 0.43	1.86 ± 0.98	32.31	Tr16-22
731	109	0.45	21.23 ± 0.38	3.26 ± 1.21	30.99	fitted
732	15	−−	− − − − −	− − − − −	30.23	no-fit
733	21	0.65	21.95 ± 0.69	1.22 ± 1.03	30.46	fitted
734	177	1.26	21.73 ± 0.57	2.11 ± 0.31	31.02	fitted
735	48	0.45	21.54 ± 0.38	2.91 ± 1.91	30.62	fitted
736	34	0.56	21.62 ± 0.50	1.44 ± 0.62	30.43	fitted
737	6	−−	− − − − −	− − − − −	29.83	no-fit
738	33	0.82	21.63 ± 0.72	1.37 ± 0.79	30.33	fitted
739	3	−−	− − − − −	− − − − −	28.92	no-fit
740	7	−−	− − − − −	− − − − −	29.93	no-fit
741	33	0.49	22.24 ± 0.22	1.44 ± 0.66	30.89	fitted
742	3	−−	− − − − −	− − − − −	28.92	no-fit
743	22	0.26	21.99 ± 0.22	0.80 ± 0.41	30.77	fitted
744	3	−−	− − − − −	− − − − −	28.92	no-fit
745	5	−−	− − − − −	− − − − −	29.75	no-fit
746	61	1.86	21.36 ± 0.60	64.00 ± ****	30.91	hard tail
747	9	−−	− − − − −	− − − − −	30.02	no-fit
748	44	0.79	21.46 ± 0.61	1.44 ± 0.55	30.50	fitted
749	45	1.19	22.22 ± 0.29	2.33 ± 1.63	30.92	fitted
750	12	−−	− − − − −	− − − − −	30.12	no-fit
751	13	−−	− − − − −	− − − − −	30.16	no-fit
752	17	−−	− − − − −	− − − − −	30.28	no-fit
753	68	1.07	21.13 ± 0.54	1.53 ± 0.34	30.56	fitted
754	10	−−	− − − − −	− − − − −	30.04	no-fit
755	68	0.88	21.93 ± 0.18	0.91 ± 0.24	31.07	fitted
756	76	0.87	21.32 ± 0.35	1.93 ± 0.61	30.70	fitted
757	5	−−	− − − − −	− − − − −	29.79	no-fit
758	9	−−	− − − − −	− − − − −	30.21	no-fit
759	7	−−	− − − − −	− − − − −	29.90	Tr16-74
760	13	−−	− − − − −	− − − − −	30.17	no-fit
761	121	0.78	21.59 ± 0.25	8.99 ± 9.26	31.16	hard tail
762	67	1.51	21.77 ± 0.35	3.20 ± 2.47	30.82	fitted
763	43	1.30	21.87 ± 0.25	0.76 ± 0.33	30.75	fitted
764	31	0.53	22.09 ± 0.41	1.67 ± 1.15	30.91	fitted
765	10	−−	− − − − −	− − − − −	30.06	no-fit
766	35	0.88	22.56 ± 0.27	1.64 ± 1.03	31.29	fitted
767	24	0.72	21.87 ± 0.24	3.19 ± 4.64	30.19	fitted
768	22	0.93	22.37 ± 0.50	1.37 ± 1.30	30.73	fitted
769	60	1.12	21.40 ± 0.41	1.45 ± 0.39	30.68	fitted
770	22	0.59	21.94 ± 0.40	1.30 ± 0.71	30.56	fitted
771	19	−−	− − − − −	− − − − −	30.32	no-fit
772	5	−−	− − − − −	− − − − −	29.79	no-fit
773	22	0.37	21.75 ± 0.53	1.78 ± 1.38	30.38	fitted
774	4	−−	− − − − −	− − − − −	29.69	no-fit
775	34	0.75	21.81 ± 0.12	2.65 ± 1.26	30.34	fitted
776	10	−−	− − − − −	− − − − −	30.05	no-fit
777	8	−−	− − − − −	− − − − −	29.95	no-fit
778	25	0.65	21.53 ± 1.12	1.55 ± 1.10	30.25	fitted
779	89	0.67	21.51 ± 0.28	4.63 ± 3.54	30.97	fitted
780	48	0.74	21.78 ± 0.27	0.86 ± 0.29	30.80	fitted

Table 3. continued.

N_x #	Cnts. (ph)	Stat. (χ^2_ν)	log ($N_{\rm H}$) (cm^{-2})	kT (keV)	log ($L_{\rm x}$) (erg/s)	flag
781	55	0.85	22.54 ± 0.27	64.00 ± ****	31.13	hard tail
782	9	−−	− − − − −	− − − − −	30.00	no-fit
783	11	−−	− − − − −	− − − − −	30.08	no-fit
784	188	1.02	21.76 ± 0.14	2.86 ± 0.73	31.34	fitted
785	12	−−	− − − − −	− − − − −	30.12	no-fit
786	84	0.87	21.65 ± 0.31	1.49 ± 0.44	30.85	fitted
787	68	1.24	21.57 ± 0.35	1.48 ± 0.45	30.70	fitted
788	98	1.10	21.42 ± 0.26	1.98 ± 0.47	30.89	fitted
789	8	−−	− − − − −	− − − − −	30.03	no-fit
790	7	−−	− − − − −	− − − − −	29.92	no-fit
791	29	0.60	21.40 ± 0.97	4.18 ± 4.98	30.38	fitted
792	46	0.41	21.92 ± 0.21	1.06 ± 0.28	30.85	fitted
793	250	0.91	21.85 ± 0.11	3.73 ± 1.13	31.60	fitted
794	40	0.33	22.06 ± 0.33	1.55 ± 0.84	30.87	fitted
795	15	−−	− − − − −	− − − − −	30.21	no-fit
796	27	0.64	22.68 ± 0.35	1.54 ± 1.27	31.27	fitted
797	8	−−	− − − − −	− − − − −	29.93	no-fit
798	31	0.45	22.10 ± 0.19	0.86 ± 0.43	31.03	fitted
799	4	−−	− − − − −	− − − − −	29.69	no-fit
800	8	−−	− − − − −	− − − − −	30.13	no-fit
801	15	−−	− − − − −	− − − − −	30.20	no-fit
802	19	−−	− − − − −	− − − − −	30.31	no-fit
803	504	2.88	21.55 ± 0.51	1.38 ± 0.11	31.38	HD93343
804	11	−−	− − − − −	− − − − −	30.26	no-fit
805	12	−−	− − − − −	− − − − −	30.12	no-fit
806	60	1.02	21.26 ± 0.46	2.92 ± 2.75	30.82	fitted
807	14	−−	− − − − −	− − − − −	30.20	Tr16-76
808	393	0.67	21.40 ± 1.41	0.69 ± 0.52	31.53	CPD-592635B
809	20	1.01	21.73 ± 0.43	1.87 ± 1.22	29.87	fitted
810	16	−−	− − − − −	− − − − −	30.24	no-fit
811	631	1.43	22.07 ± 0.07	10.85 ± 6.83	32.07	hard tail
812	606	0.37	21.65 ± 0.57	0.62 ± 0.37	31.93	CPD-592636C
813	13	−−	− − − − −	− − − − −	30.16	no-fit
814	11	−−	− − − − −	− − − − −	30.10	no-fit
815	8	−−	− − − − −	− − − − −	29.94	no-fit
816	90	0.73	21.59 ± 0.43	2.28 ± 1.13	30.94	fitted
817	11	−−	− − − − −	− − − − −	30.07	no-fit
818	13	−−	− − − − −	− − − − −	30.15	no-fit
819	42	1.14	21.17 ± 0.90	5.85 ± ****	30.46	fitted
820	10	−−	− − − − −	− − − − −	30.03	no-fit
821	37	1.07	21.79 ± 0.62	1.18 ± 0.75	30.54	fitted
822	80	0.82	21.23 ± 0.43	3.94 ± 2.52	30.79	fitted
823	51	0.94	21.85 ± 0.31	1.53 ± 0.48	30.41	fitted
824	12	−−	− − − − −	− − − − −	30.13	no-fit
825	10	−−	− − − − −	− − − − −	30.04	no-fit
826	30	0.86	22.07 ± 0.62	2.58 ± 3.56	30.59	fitted
827	9	−−	− − − − −	− − − − −	30.01	no-fit
828	14	−−	− − − − −	− − − − −	30.20	no-fit
829	5	−−	− − − − −	− − − − −	29.80	no-fit
830	38	0.72	21.04 ± 0.77	3.26 ± 2.98	30.61	fitted
831	39	0.80	21.73 ± 0.14	2.68 ± 1.42	30.36	fitted
832	152	1.14	21.10 ± 0.41	10.03 ± 8.70	31.13	hard tail
833	29	1.58	22.03 ± 0.51	1.09 ± 0.91	30.64	fitted
834	67	0.72	21.50 ± 0.32	3.03 ± 1.50	30.75	fitted
835	22	0.68	21.41 ± 1.04	3.84 ± 6.22	30.14	fitted
836	21	0.37	21.13 ± 1.22	43.50 ± ****	30.51	hard tail
837	13	−−	− − − − −	− − − − −	30.15	no-fit
838	41	0.59	22.10 ± 0.33	1.23 ± 0.65	30.89	fitted
839	90	0.94	21.97 ± 0.23	1.91 ± 0.90	31.08	fitted
840	11	−−	− − − − −	− − − − −	30.29	no-fit
841	28	1.03	21.53 ± 1.20	1.37 ± 0.96	30.18	fitted
842	12	−−	− − − − −	− − − − −	30.14	no-fit
843	19	−−	− − − − −	− − − − −	30.31	no-fit
844	15	−−	− − − − −	− − − − −	30.21	no-fit
845	44	0.46	21.52 ± 0.19	1.72 ± 0.45	30.38	fitted
846	15	−−	− − − − −	− − − − −	30.21	no-fit

Table 3. continued.

N_x #	Cnts. (ph)	Stat. (χ^2_ν)	log ($N_{\rm H}$) (cm^{-2})	kT (keV)	log ($L_{\rm x}$) (erg/s)	flag
847	90	0.72	21.73 ± 0.27	1.55 ± 0.42	32.02	fitted
848	151	1.62	21.41 ± 0.22	2.01 ± 0.42	31.00	fitted
849	47	0.66	21.66 ± 0.18	3.77 ± 3.55	30.61	fitted
850	3	−−	− − − − −	− − − − −	29.61	no-fit
851	7	−−	− − − − −	− − − − −	29.87	no-fit
852	22	0.58	21.87 ± 0.59	7.76 ± ****	30.51	fitted
853	34	0.75	21.18 ± 0.59	1.84 ± 0.87	30.25	fitted
854	645	0.90	21.88 ± 0.47	0.37 ± 0.36	32.44	CPD-592641
855	29	−−	− − − − −	− − − − −	30.49	no-fit
856	14	−−	− − − − −	− − − − −	30.19	no-fit
857	45	0.95	21.88 ± 0.48	1.56 ± 0.89	30.63	fitted
858	26	0.65	21.20 ± 1.02	2.16 ± 1.63	30.20	fitted
859	82	0.88	21.20 ± 0.61	0.49 ± 0.19	30.80	fitted
860	11	−−	− − − − −	− − − − −	30.07	no-fit
861	44	0.99	22.10 ± 0.34	1.43 ± 1.01	30.84	fitted
862	50	0.93	21.86 ± 0.40	8.28 ± ****	30.79	hard tail
863	31	1.05	21.98 ± 0.59	6.28 ± ****	30.67	fitted
864	276	0.55	21.73 ± 0.12	3.78 ± 1.01	31.52	fitted
865	22	0.69	22.80 ± 0.40	1.23 ± 1.23	31.43	fitted
866	43	1.04	21.64 ± 0.47	63.24 ± ****	30.55	hard tail
867	34	0.75	21.86 ± 0.12	2.97 ± 2.39	30.30	fitted
868	39	0.77	20.98 ± 2.00	1.78 ± 0.90	30.25	fitted
869	12	−−	− − − − −	− − − − −	30.11	no-fit
870	17	−−	− − − − −	− − − − −	30.28	no-fit
871	62	0.58	21.59 ± 0.36	1.03 ± 0.20	30.91	fitted
872	57	0.98	21.99 ± 0.30	1.20 ± 0.45	31.02	fitted
873	10	−−	− − − − −	− − − − −	30.03	no-fit
874	41	0.95	21.24 ± 0.58	1.68 ± 0.41	30.35	fitted
875	3	−−	− − − − −	− − − − −	29.52	no-fit
876	24	1.13	21.62 ± 1.69	3.75 ± 9.68	29.79	fitted
877	57	1.08	21.91 ± 0.28	1.17 ± 0.39	30.92	fitted
878	3	−−	− − − − −	− − − − −	28.92	no-fit
879	40	0.74	21.59 ± 0.43	1.98 ± 0.85	30.61	fitted
880	21	0.40	21.76 ± 0.69	1.72 ± 1.29	30.33	fitted
881	15	−−	− − − − −	− − − − −	30.22	no-fit
882	21	0.82	23.02 ± 0.49	0.66 ± 1.18	32.43	fitted
883	31	0.24	21.91 ± 0.68	2.12 ± 2.10	30.61	fitted
884	63	0.91	21.81 ± 0.26	0.97 ± 0.27	30.89	fitted
885	18	−−	− − − − −	− − − − −	30.30	no-fit
886	60	0.34	21.09 ± 0.66	2.41 ± 0.98	30.67	fitted
887	4	−−	− − − − −	− − − − −	29.63	no-fit
888	71	0.74	21.48 ± 0.26	0.57 ± 0.10	31.05	Tr16-115
889	17	−−	− − − − −	− − − − −	30.27	no-fit
890	50	0.76	21.57 ± 0.47	12.50 ± ****	30.69	hard tail
891	14	−−	− − − − −	− − − − −	30.19	no-fit
892	28	0.68	21.48 ± 0.56	0.79 ± 0.25	30.35	fitted
893	15	−−	− − − − −	− − − − −	30.20	no-fit
894	56	1.02	21.67 ± 0.56	63.99 ± ****	30.91	hard tail
895	10	−−	− − − − −	− − − − −	30.04	no-fit
896	40	0.38	21.56 ± 0.46	1.72 ± 0.62	30.52	fitted
897	12	−−	− − − − −	− − − − −	30.12	no-fit
898	24	0.59	21.74 ± 0.68	31.71 ± ****	30.48	hard tail
899	3	−−	− − − − −	− − − − −	29.63	no-fit
900	8	−−	− − − − −	− − − − −	29.94	no-fit
901	10	−−	− − − − −	− − − − −	30.04	no-fit
902	119	1.52	21.79 ± 0.21	1.90 ± 0.52	31.19	fitted
903	147	0.77	21.64 ± 0.21	1.70 ± 0.26	31.16	fitted
904	75	0.70	21.46 ± 0.39	5.18 ± 3.37	30.84	fitted
905	75	0.80	21.14 ± 0.68	42.89 ± ****	30.90	hard tail
906	52	1.29	21.94 ± 0.28	1.09 ± 0.46	30.91	fitted
907	60	0.84	22.14 ± 0.17	0.90 ± 0.30	31.26	fitted
908	66	1.68	22.14 ± 0.24	1.15 ± 0.44	31.26	fitted
909	194	1.27	21.90 ± 0.11	0.87 ± 0.13	31.63	fitted
910	3	−−	− − − − −	− − − − −	28.92	no-fit
911	8	−−	− − − − −	− − − − −	29.95	no-fit
912	28	0.50	21.53 ± 0.66	2.49 ± 1.92	30.35	fitted

Table 3. continued.

N_x #	Cnts. (ph)	Stat. (χ^2_ν)	log (N_H) (cm^{-2})	kT (keV)	log (L_x) (erg/s)	flag
913	27	0.70	21.35 ± 0.83	0.54 ± 0.37	30.41	fitted
914	14	−−	− − − − −	− − − − −	30.20	no-fit
915	7	−−	− − − − −	− − − − −	29.90	no-fit
916	62	0.93	21.28 ± 0.44	1.80 ± 0.54	30.60	fitted
917	23	1.20	21.99 ± 0.31	2.25 ± 4.25	29.86	fitted
918	7	−−	− − − − −	− − − − −	29.88	no-fit
919	11	−−	− − − − −	− − − − −	30.08	no-fit
920	46	0.59	21.37 ± 0.56	4.59 ± 4.13	30.58	fitted
921	8	−−	− − − − −	− − − − −	29.97	no-fit
922	40	0.65	22.03 ± 0.34	1.52 ± 0.81	30.80	fitted
923	28	1.20	21.97 ± 0.55	6.02 ± ****	30.54	fitted
924	89	1.00	21.91 ± 0.26	1.32 ± 0.34	31.10	fitted
925	13	−−	− − − − −	− − − − −	30.15	no-fit
926	27	0.47	21.48 ± 0.61	3.15 ± 2.86	30.31	fitted
927	8	−−	− − − − −	− − − − −	29.94	no-fit
928	179	1.11	21.72 ± 0.15	2.58 ± 0.70	31.27	fitted
929	48	1.49	22.78 ± 0.44	1.63 ± 1.62	31.48	fitted
930	9	−−	− − − − −	− − − − −	30.00	no-fit
931	13	−−	− − − − −	− − − − −	30.17	no-fit
932	46	9.75	22.58 ± 0.23	4.00 ± 3.90	31.28	fitted
933	118	0.52	22.15 ± 0.18	13.70 ± ****	31.37	hard tail
934	71	0.49	21.78 ± 0.28	1.82 ± 0.65	30.91	fitted
935	44	1.14	21.49 ± 0.46	1.81 ± 0.85	30.27	fitted
936	5	−−	− − − − −	− − − − −	29.93	no-fit
937	30	−−	− − − − −	− − − − −	30.51	no-fit
938	59	0.69	22.68 ± 0.17	1.48 ± 0.56	31.67	fitted
939	17	−−	− − − − −	− − − − −	30.26	no-fit
940	16	−−	− − − − −	− − − − −	30.24	no-fit
941	26	0.87	21.72 ± 0.97	63.91 ± ****	30.22	hard tail
942	40	0.98	22.61 ± 0.32	5.44 ± 9.70	31.17	fitted
943	23	0.55	22.21 ± 0.33	0.98 ± 0.68	30.87	fitted
944	39	0.98	20.43 ± 5.49	64.00 ± ****	30.62	hard tail
945	6	−−	− − − − −	− − − − −	29.91	no-fit
946	112	0.61	21.37 ± 0.26	2.04 ± 0.40	31.13	fitted
947	7	−−	− − − − −	− − − − −	29.92	no-fit
948	27	0.40	21.95 ± 0.40	2.19 ± 1.97	30.61	fitted
949	20	0.42	21.99 ± 0.56	1.37 ± 1.02	30.53	fitted
950	12	−−	− − − − −	− − − − −	30.11	no-fit
951	15	−−	− − − − −	− − − − −	30.22	no-fit
952	18	−−	− − − − −	− − − − −	30.29	no-fit
953	20	0.68	22.23 ± 0.34	0.93 ± 0.62	30.79	fitted
954	55	0.65	21.63 ± 0.34	1.79 ± 0.74	30.69	fitted
955	69	1.02	21.17 ± 0.52	2.34 ± 1.25	30.75	fitted
956	7	−−	− − − − −	− − − − −	29.99	no-fit
957	47	0.61	22.32 ± 0.16	0.74 ± 0.28	31.58	fitted
958	180	1.23	21.65 ± 0.18	2.34 ± 0.64	31.21	fitted
959	27	0.61	22.69 ± 0.39	1.92 ± 2.14	31.15	fitted
960	12	−−	− − − − −	− − − − −	30.12	no-fit
961	176	0.46	21.94 ± 0.20	2.61 ± 1.12	31.47	fitted
962	28	0.70	22.03 ± 0.26	0.69 ± 0.45	30.90	fitted
963	26	0.78	22.35 ± 0.69	62.47 ± ****	30.65	hard tail
964	12	−−	− − − − −	− − − − −	30.12	no-fit
965	12	−−	− − − − −	− − − − −	30.10	no-fit
966	78	1.19	21.40 ± 0.92	63.95 ± ****	30.99	hard tail
967	37	0.51	21.54 ± 0.59	3.04 ± 2.67	30.55	fitted
968	52	0.63	22.10 ± 0.26	1.91 ± 0.95	30.95	fitted
969	35	0.81	21.74 ± 0.77	7.94 ± ****	30.63	fitted
970	29	−−	− − − − −	− − − − −	30.49	no-fit
971	215	1.75	21.91 ± 0.16	5.31 ± 2.41	31.48	fitted
972	15	−−	− − − − −	− − − − −	30.22	no-fit
973	53	0.38	22.16 ± 0.37	2.56 ± 2.73	31.05	fitted
974	30	0.81	22.40 ± 0.27	0.90 ± 0.44	31.42	fitted
975	133	0.80	22.28 ± 0.15	4.03 ± 2.20	31.49	fitted
976	20	0.67	21.99 ± 0.94	6.76 ± ****	30.29	fitted

Table 3. continued.

N_x #	Cnts. (ph)	Stat. (χ^2_ν)	log (N_H) (cm^{-2})	kT (keV)	log (L_x) (erg/s)	flag
977	23	−−	− − − − −	− − − − −	30.39	no-fit
978	58	0.85	21.33 ± 1.21	63.71 ± ****	30.81	hard tail
979	36	0.87	21.72 ± 0.84	21.64 ± ****	30.61	hard tail
980	102	0.82	22.16 ± 0.21	3.24 ± 1.76	31.30	fitted
981	29	−−	− − − − −	− − − − −	30.49	no-fit
982	70	0.63	22.09 ± 0.16	0.88 ± 0.22	31.40	fitted
983	18	−−	− − − − −	− − − − −	30.29	no-fit
984	17	−−	− − − − −	− − − − −	30.35	no-fit
985	23	0.52	22.41 ± 0.28	1.03 ± 0.72	31.22	fitted
986	34	1.07	22.20 ± 0.33	1.82 ± 1.32	31.07	fitted
987	58	0.65	22.11 ± 0.26	2.78 ± 2.01	30.98	fitted
988	13	−−	− − − − −	− − − − −	30.16	no-fit
989	23	0.63	22.27 ± 0.53	2.08 ± 2.59	30.66	fitted
990	36	0.99	21.75 ± 0.42	2.57 ± 1.72	30.24	fitted
991	25	0.60	22.59 ± 0.21	0.35 ± 0.89	32.64	fitted
992	30	−−	− − − − −	− − − − −	30.51	no-fit
993	234	0.57	21.74 ± 0.15	12.89 ± ****	31.52	hard tail
994	28	−−	− − − − −	− − − − −	30.57	no-fit
995	88	1.38	22.39 ± 0.14	1.42 ± 0.40	31.60	fitted
996	203	1.10	22.21 ± 0.06	0.56 ± 0.71	32.32	fitted
997	273	1.01	22.03 ± 0.07	0.94 ± 0.10	31.87	fitted
998	29	0.83	22.55 ± 0.19	0.88 ± 0.29	31.61	fitted
999	6	−−	− − − − −	− − − − −	29.92	no-fit
1000	38	−−	− − − − −	− − − − −	30.61	no-fit
1001	71	0.97	21.32 ± 0.72	2.93 ± 1.87	30.80	fitted
1002	58	0.73	21.81 ± 0.36	4.98 ± 5.27	30.96	fitted
1003	38	1.11	22.17 ± 0.41	6.42 ± ****	30.88	fitted
1004	25	−−	− − − − −	− − − − −	30.42	no-fit
1005	39	1.03	21.58 ± 0.90	64.00 ± ****	30.64	hard tail
1006	193	0.72	21.48 ± 0.33	14.00 ± ****	31.42	hard tail
1007	56	−−	− − − − −	− − − − −	30.77	no-fit
1008	25	1.12	22.28 ± 0.50	1.70 ± 1.69	30.87	fitted
1009	36	−−	− − − − −	− − − − −	30.58	no-fit
1010	42	−−	− − − − −	− − − − −	30.65	no-fit
1011	49	0.53	22.21 ± 0.29	2.02 ± 1.18	31.10	fitted
1012	60	0.74	22.55 ± 0.19	1.15 ± 0.44	31.65	fitted
1013	25	1.09	22.47 ± 0.33	1.78 ± 1.39	31.02	fitted
1014	229	2.13	21.69 ± 0.16	1.01 ± 0.69	31.08	fitted
1015	20	−−	− − − − −	− − − − −	30.43	no-fit
1016	62	0.83	21.79 ± 0.60	57.39 ± ****	30.98	hard tail
1017	30	0.71	21.77 ± 0.71	5.36 ± 8.63	30.80	fitted
1018	17	−−	− − − − −	− − − − −	30.28	no-fit
1019	33	0.89	22.04 ± 0.51	1.48 ± 1.17	30.80	fitted
1020	85	1.58	22.08 ± 0.30	1.69 ± 0.89	31.12	fitted
1021	28	0.90	22.65 ± 0.85	64.00 ± ****	30.73	hard tail
1022	15	−−	− − − − −	− − − − −	30.22	no-fit
1023	17	−−	− − − − −	− − − − −	30.28	no-fit
1024	17	−−	− − − − −	− − − − −	30.27	no-fit
1025	16	−−	− − − − −	− − − − −	30.25	no-fit
1026	12	−−	− − − − −	− − − − −	30.11	no-fit
1027	40	1.83	22.72 ± 0.30	0.70 ± 0.33	31.96	fitted
1028	34	−−	− − − − −	− − − − −	30.56	no-fit
1029	94	0.66	22.07 ± 0.21	2.19 ± 0.96	31.30	fitted
1030	78	1.12	22.02 ± 0.36	1.53 ± 0.76	31.12	fitted
1031	55	−−	− − − − −	− − − − −	30.77	no-fit
1032	26	−−	− − − − −	− − − − −	30.44	no-fit
1033	34	−−	− − − − −	− − − − −	30.56	no-fit
1034	29	−−	− − − − −	− − − − −	30.49	no-fit
1035	89	0.62	21.56 ± 0.63	63.96 ± ****	31.12	hard tail