An X-ray view of gas and dust in the diffuse interstellar medium

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Appendix to Chapter 4

In the following Tables we present the XMM-*Newton* and *Chandra* observation log for the sample of sources. We report the identification number for each observation, the exposure time as well as their column density ($N_{\rm H}$), Galactic coordinates and distance. For *Chandra* observations we also present the instrument that has been used and their observational mode, continuum clocking (CC) or timed exposure (TE).

Table C.1: XMM-*Newton* RGS observation log

Source	obs. ID	exposure time (ks)	distance (kpc)	Galactic coordinates (l,b)	$N_{\rm H}$
Cygnus X–2	0303280101	32	8-11$^{(e)}$	(87.3,-11.3)	1.9
	0561180501	24			
4U 1820–30	0084110201	38	7.6$^{(b)}$	(2.8,-7.9)	1.3
	0551340201	42			
4U 1636–536	0606070301	42	5.95$^{(a)}$	(332.9,-4.8)	3
	0606070401	27			
	0764180201	40			
	0764180301	36			
4U 1735–44	0090340201	21	6.5$^{(a)}$	(341.1,-7.0)	2.7
	0693490201	84			
GX 9+9	0694860301	36	7.5$^{(d)}$	(8.5,9)	1.9
	0090340101	11			
	0090340601	22			
Ser X–1	0084020401	22	7.7$^{(a)}$	(36.1,4.8)	4.4
	0084020501	22			
	0084020601	22			
SWIFT J1910.2–0546	0691271401	28	6$^{(f)}$	(29.9,-6.8)	2.24
XTE J1817–330	0311590501	20	2.5$^{(c)}$	(359.8, -8)	1.5

The symbol $N_{\rm H}$ represents the hydrogen column density in 10^{21} cm^{-2} and it is found from HI4PI Collaboration et al. (2016). Distances taken from: $^{(a)}$Galloway et al. (2008),$^{(b)}$Kuulkers et al. (2003) ,$^{(c)}$ Sala & Greiner (2006) ,$^{(d)}$Christian & Swank (1997) & Zdziarski et al. (2004), $^{(e)}$Cowley et al. 1979 & Smale 1998, $^{(f)}$Reis et al. (2013).

Table C.2: *Chandra* observation log

Source	obs. ID	instrument/mode	exposure time (ks)
Cygnus X–2	8170	HETGS/CC	65
	8599	HETGS/CC	60
4U 1820–30	6634	HETGS/CC	26
	7032	HETGS/CC	47
4U 1636–536	105	HETGS/TE	30
	1939	HETGS/TE	27
4U 1735–44	704	HETGS/TE	25
GX 9+9	11072	HETGS/TE	95
	703	HETGS/TE	20
Ser X–1	700	HETGS/TE	77
SWIFT J1910.2–0546	14634	HETGS/CC	30
XTE J1817–330	6617	HETGS/CC	47