

**X-ray Observations of Eight Young Open Star Clusters:  
I. Membership and X-ray Luminosity**

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**Supplementary Material**

**Supplementary Table 3 follows...**

**Supplementary Table 3.** X-ray information of all detected sources in detection procedure (for details see section 2.1) within the field-of-view of XMM-NEWTON along with their cross-identification with the 2MASS infrared catalogue (Cutri et al. 2003).

ID	RA (deg)	DEC (deg)	Err ('')	X-ray data			Count rates $10^{-3}$ cts s $^{-1}$			Dis (')	N	Off (')	2MASS NIR data			Mem	Mass ( $M_{\odot}$ )	Remark
				PN	MOS1	MOS2	MOS1	MOS2	J (mag)				H (mag)	$K_s$ (mag)				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
<b>NGC 663</b>																		
1	26.177084	61.141083	1.3	0.0±0.0	1.8±0.5	1.5±0.5	13.7	2	0.8	13.597±0.023	13.071±0.035	12.889±0.037	Y	<2.0				
2	26.251165	61.158890	1.7	1.7±0.6	0.8±0.3	1.5±0.4	11.3	1	2.1	15.082±0.043	14.579±0.058	14.338±0.079						
3	26.279083	61.361000	0.7	10.7±1.3	2.8±0.6	2.5±0.6	13.1	2	0.6	15.340±0.061	14.651±0.060	14.397±0.073						
4	26.284582	61.317722	1.4	2.8±0.7	0.7±0.3	1.0±0.4	11.4	2	0.8	14.067±0.032	13.464±0.037	13.286±0.039	Y	<2.0				
5	26.294292	61.283806	1.5	1.9±0.5	0.6±0.3	0.6±0.4	10.3	1	1.3	9.721±0.026	9.636±0.032	9.549±0.021	N			A0(Sk07)		
6	26.297541	61.142334	0.8	5.3±1.0	2.5±0.6	3.3±0.5	10.4	1	5.5	16.088±0.103	15.216±0.097	15.038±0.146						
7	26.319500	61.133999	1.7	1.8±0.5	0.6±0.3	0.2±0.2	10.1	1	1.8	13.990±0.028	13.428±0.032	13.151±0.033	Y	<2.0				
8	26.320749	61.281723	1.3	6.3±1.2	1.6±0.4	0.9±0.3	9.5	1	0.8	13.495±0.027	12.981±0.036	12.803±0.032	Y	<2.0				
9	26.341291	61.202194	1.2	2.2±0.5	0.9±0.3	0.7±0.4	8.2	0										
10	26.352417	61.118805	1.3	1.8±0.5	1.2±0.4	0.6±0.3	9.8	0										
11	26.355917	61.194168	1.6	4.7±1.2	0.2±0.2	0.1±0.2	7.8	2	3.1	15.884±0.079	15.393±0.116	14.941±0.133						
12	26.358292	61.181416	1.4	2.8±0.8	0.7±0.3	0.9±0.3	7.9	2	3.0	13.403±0.031	13.126±0.038	12.967±0.039	Y	<2.0				
13	26.370667	61.124779	0.2	65.8±2.2	17.1±1.1	19.1±1.0	9.2	1	0.2	14.413±0.041	13.832±0.044	13.592±0.045	N			5%prob(F110)		
14	26.373249	61.302277	1.2	4.1±0.6	2.4±0.9	0.9±0.3	8.8	1	0.0	10.168±0.026	9.899±0.032	9.842±0.019	N					
15	26.378542	61.141777	1.1	6.7±1.4	0.9±0.3	1.0±0.3	8.4	2	2.7	14.157±0.032	13.608±0.038	13.392±0.044	Y	<2.0				
16	26.381582	61.127834	1.3	10.1±2.1	0.2±0.3	0.6±0.3	8.8	0										
17	26.385792	61.345470	1.3	2.7±0.7	1.1±0.4	0.8±0.4	10.2	1	9.2	14.449±0.036	14.013±0.044	13.904±0.054	Y	<2.0				
18	26.390625	61.064499	1.2	2.6±0.7	0.6±0.3	0.6±0.3	11.4	4	0.5	14.539±0.054	13.919±0.054	13.625±0.065	Y	<2.0				
19	26.404999	61.091194	1.0	5.2±0.8	0.7±0.3	0.8±0.3	9.9	1	7.1	15.826±0.087	15.474±0.144	15.124±0.159						
20	26.416584	61.214279	1.3	4.4±0.6	0.6±0.2	0.1±0.1	5.9	2	4.8	15.845±0.090	15.346±0.102	15.371±0.193						
21	26.434332	61.238998	1.8	1.0±0.4	0.7±0.3	0.3±0.2	5.6	2	0.5	15.928±0.090	15.295±0.104	14.816±0.118						
22	26.446335	61.123638	1.2	3.2±0.6	0.4±0.2	0.8±0.3	7.6	2	1.8	10.098±0.023	9.907±0.030	9.797±0.019	N			F2(Sk07)		
23	26.458752	61.135529	1.8	1.4±0.4	0.1±0.1	0.4±0.2	6.8	1	3.7	16.494±0.145	16.101±0.197	15.517±0.206						
24	26.459999	61.292583	1.2	2.4±0.5	0.9±0.3	0.5±0.2	6.5	0										
25	26.464540	61.067917	0.7	12.7±1.2	5.5±0.9	4.7±0.6	10.1	1	2.2	15.890±0.086	15.389±0.117	15.149±0.176						

*XMM-Newton View of Eight Young Open Star Clusters*

**Supplementary Table 3.** (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data					Mem	Mass ( $M_{\odot}$ )	Remark	
			Err (")	PN	Count rates $10^{-3}$ cts $s^{-1}$			Dis (')	N	Off (")	J (mag)	H (mag)				$K_s$ (mag)
					MOS1	MOS2	7									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
26	26.473583	61.321194	1.0	4.2±0.7	1.3±0.3	1.6±0.4	7.5	2	2.3	9.143±0.023	9.091±0.031	9.059±0.021	Y	>10	B1V	
27	26.478374	61.345528	2.1	0.2±0.3	1.6±0.4	0.2±0.2	8.7	0								
28	26.481707	61.166363	1.2	1.5±0.4	0.6±0.2	0.2±0.1	5.1	0								
29	26.488998	61.281113	0.7	4.4±0.6	1.2±0.3	1.3±0.3	5.4	1	0.9	9.220±0.023	9.027±0.031	8.975±0.021	N		F2(Sk07)	
30	26.493834	61.138279	1.0	4.0±0.6	0.8±0.2	0.4±0.2	6.1	1	0.6	16.352±0.121	15.624±0.135	15.204±0.147	N			
31	26.509874	61.422306	1.3	4.3±1.0	1.9±0.6	3.0±0.7	12.7	1	1.4	14.530±0.045	13.621±0.035	13.256±0.028	N			
32	26.524082	61.164860	0.6	9.9±1.2	2.9±0.4	3.3±0.4	4.3	2	7.0	15.330±0.056	14.984±0.083	14.897±0.127				
33	26.530041	61.112110	1.4	2.2±0.5	0.0±0.1	0.2±0.2	6.9	3	2.3	15.931±0.082	15.434±0.116	15.235±0.162				
34	26.538460	61.124279	1.5	2.1±0.6	0.3±0.2	0.5±0.2	6.1	0								
35	26.538750	61.292778	1.4	1.6±0.4	0.9±0.3	0.2±0.2	5.1	1	5.7	13.230±0.023	12.573±0.029	12.396±0.024	N			
36	26.550625	61.194416	2.2	1.5±0.4	0.4±0.2	0.3±0.2	2.5	1	9.7	15.967±0.090	15.149±0.102	15.260±0.176				
37	26.551998	61.207474	1.5	1.5±0.4	1.2±0.3	0.6±0.2	2.1	0								
38	26.564999	61.054195	1.7	3.8±0.9	1.0±0.4	1.2±0.4	10.0	1	4.9	15.925±0.085	15.396±0.117	15.485±0.212				
39	26.578918	61.074417	1.1	3.8±0.7	1.2±0.4	2.3±0.4	8.7	0								
40	26.582293	61.092194	3.2	1.2±0.4	0.5±0.3	1.0±0.3	7.6	0								
41	26.582500	61.229389	1.4	2.5±0.5	0.3±0.2	0.2±0.2	1.3	2	1.1	13.714±0.029	13.474±0.044	13.300±0.043	Y	<2.0		
42	26.583460	61.263973	1.1	2.2±0.5	0.7±0.2	0.7±0.3	3.0	3	3.4	10.400±0.023	10.281±0.032	10.229±0.023	Y	10-2	B8(Sk07)	
43	26.584499	61.437222	2.0	3.2±1.4	2.7±0.7	0.8±0.5	13.2	1	3.6	14.986±0.053	14.592±0.065	14.309±0.077				
44	26.585083	61.164639	1.1	2.9±0.5	1.0±0.3	0.4±0.2	3.4	2	2.8	16.112±0.094	15.578±0.132	15.168±0.164				
45	26.587416	61.372723	1.4	2.7±0.7	0.2±0.3	2.1±0.5	9.3	1	2.8	15.956±0.109	15.547±0.133	14.930±0.133				
46	26.593834	61.450054	2.5	4.6±1.6	0.7±0.5	2.5±0.8	13.9	0								
47	26.604210	61.294888	1.4	2.1±0.5	1.2±0.3	0.5±0.2	4.6	0								
48	26.604250	61.208221	1.3	2.1±0.4	0.4±0.2	0.8±0.2	0.8	2	5.0	11.334±0.023	11.187±0.032	11.139±0.018	Y	10-2	B6(Sk07)	
49	26.609667	61.334084	1.6	0.4±0.4	1.5±0.4	0.2±0.2	7.0	2	3.7	16.464±0.135	15.611±0.118	15.225±0.162				
50	26.616999	61.216362	1.5	0.8±0.3	0.6±0.2	0.4±0.2	0.2	2	2.5	12.839±0.051	11.927±0.046	11.586±0.036	N			
51	26.626833	61.027222	1.9	2.4±0.7	1.8±0.5	1.0±0.4	11.5	0								
52	26.639708	61.056168	1.2	2.1±0.6	0.9±0.4	0.9±0.3	9.7	2	1.0	14.840±0.047	14.152±0.046	13.959±0.047	Y	<2.0		

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	Err ( $''$ )	X-ray data			2MASS NIR data						Mem	Mass ( $M_{\odot}$ )	Remark
				PN	Count rates $10^{-3}$ cts $s^{-1}$	Dis ( $''$ )	N	Off ( $''$ )	J (mag)	H (mag)	$K_s$ (mag)				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
53	26.645250	61.205193	0.8	3.7 $\pm$ 0.5	0.9 $\pm$ 0.2	1.5 $\pm$ 0.3	1.0	3	1.4	9.220 $\pm$ 0.027	9.062 $\pm$ 0.031	8.990 $\pm$ 0.018	N		F0(Sk07)
54	26.655832	61.315723	1.4	4.1 $\pm$ 0.7	0.4 $\pm$ 0.3	1.4 $\pm$ 0.7	5.9	0							
55	26.657709	61.145279	0.7	7.4 $\pm$ 0.8	2.9 $\pm$ 0.4	2.0 $\pm$ 0.4	4.5	4	0.9	12.596 $\pm$ 0.026	12.084 $\pm$ 0.033	11.956 $\pm$ 0.022	N		
56	26.663834	61.150028	0.3	22.5 $\pm$ 1.2	5.2 $\pm$ 0.6	5.9 $\pm$ 0.5	4.3	2	2.3	14.949 $\pm$ 0.049	14.260 $\pm$ 0.062	14.074 $\pm$ 0.057	Y	<2.0	
57	26.671082	61.312027	1.5	1.5 $\pm$ 0.5	0.6 $\pm$ 0.2	0.3 $\pm$ 0.2	5.8	0							
58	26.674959	61.301613	1.4	1.1 $\pm$ 0.5	0.7 $\pm$ 0.3	1.0 $\pm$ 0.3	5.2	0							
59	26.677250	61.386749	1.8	2.1 $\pm$ 0.7	1.3 $\pm$ 0.5	0.0 $\pm$ 0.2	10.2	0							
60	26.684875	61.111752	1.3	2.1 $\pm$ 0.6	0.3 $\pm$ 0.2	0.5 $\pm$ 0.3	6.6	1	5.1	15.602 $\pm$ 0.085	15.183 $\pm$ 0.105	14.743 $\pm$ 0.124			
61	26.689041	61.107445	0.8	5.9 $\pm$ 0.8	2.1 $\pm$ 0.4	1.7 $\pm$ 0.4	6.9	2	9.6	14.797 $\pm$ 0.045	13.990 $\pm$ 0.050	13.714 $\pm$ 0.051	Y	<2.0	
62	26.690458	61.323277	3.7	1.7 $\pm$ 0.6	0.8 $\pm$ 0.3	0.1 $\pm$ 0.2	6.6	3	6.7	16.566 $\pm$ 0.132	15.583 $\pm$ 0.120	15.456 $\pm$ 0.179			
63	26.698376	61.102306	1.5	1.8 $\pm$ 0.5	0.7 $\pm$ 0.3	0.6 $\pm$ 0.3	7.3	0							
64	26.700291	61.152111	1.0	1.8 $\pm$ 0.4	1.3 $\pm$ 0.3	0.8 $\pm$ 0.3	4.6	0							
65	26.713917	61.201752	1.6	2.3 $\pm$ 0.6	0.3 $\pm$ 0.2	0.9 $\pm$ 0.2	2.8	1	1.1	12.479 $\pm$ 0.032	12.112 $\pm$ 0.036	12.036 $\pm$ 0.027	N		
66	26.729250	61.048973	1.5	4.1 $\pm$ 1.0	1.3 $\pm$ 0.4	0.9 $\pm$ 0.4	10.6	1	1.6	14.520 $\pm$ 0.035	14.070 $\pm$ 0.041	13.748 $\pm$ 0.043	Y	<2.0	
67	26.745207	61.106194	1.5	0.6 $\pm$ 0.3	1.1 $\pm$ 0.4	1.0 $\pm$ 0.3	7.6	0							
68	26.747168	61.159084	1.2	2.5 $\pm$ 0.6	0.7 $\pm$ 0.2	0.8 $\pm$ 0.2	5.1	1	5.0	16.127 $\pm$ 0.102	15.302 $\pm$ 0.099	15.058 $\pm$ 0.155			
69	26.750294	61.356750	0.0	2736.9 $\pm$ 15.9	1008.2 $\pm$ 9.0	1006.5 $\pm$ 8.6	9.1	2	1.1	9.899 $\pm$ 0.027	9.700 $\pm$ 0.036	9.486 $\pm$ 0.020	Y	>10	BIV(Sk07)
70	26.758917	61.450195	1.8	5.4 $\pm$ 1.2	0.0 $\pm$ 0.0	0.0 $\pm$ 0.0	14.5	2	2.7	11.046 $\pm$ 0.024	10.793 $\pm$ 0.032	10.731 $\pm$ 0.018	N		
71	26.774458	61.144749	0.2	46.6 $\pm$ 1.8	20.2 $\pm$ 1.1	21.6 $\pm$ 1.1	6.2	0							
72	26.810291	61.460945	0.8	44.5 $\pm$ 2.9	0.0 $\pm$ 0.0	0.0 $\pm$ 0.0	15.5	1	2.1	10.581 $\pm$ 0.026	9.700 $\pm$ 0.032	9.519 $\pm$ 0.020			
73	26.834625	61.134777	2.2	0.8 $\pm$ 0.4	1.0 $\pm$ 0.4	0.8 $\pm$ 0.3	7.9	1	9.9	15.950 $\pm$ 0.135	14.991 $\pm$ 0.087	14.705 $\pm$ 0.100			
74	26.839167	61.279305	1.2	2.5 $\pm$ 0.6	1.2 $\pm$ 0.4	1.0 $\pm$ 0.3	7.3	1	9.8	15.507 $\pm$ 0.072	14.856 $\pm$ 0.082	14.442 $\pm$ 0.084			
75	26.860918	61.183250	1.5	2.2 $\pm$ 0.6	0.3 $\pm$ 0.2	0.6 $\pm$ 0.3	7.2	1	0.5	11.739 $\pm$ 0.027	11.338 $\pm$ 0.030	11.290 $\pm$ 0.020	N		
76	26.874582	61.421501	1.3	9.8 $\pm$ 1.5	0.0 $\pm$ 0.0	0.0 $\pm$ 0.0	14.2	2	1.2	10.867 $\pm$ 0.026	10.620 $\pm$ 0.030	10.567 $\pm$ 0.020	N		
77	26.875835	61.188332	1.5	1.5 $\pm$ 0.5	0.4 $\pm$ 0.2	0.7 $\pm$ 0.3	7.6	0							
78	26.893208	61.238918	1.2	4.7 $\pm$ 0.8	1.8 $\pm$ 0.5	1.6 $\pm$ 0.4	7.9	0							
79	26.898251	61.156696	1.4	1.2 $\pm$ 0.5	1.1 $\pm$ 0.4	0.8 $\pm$ 0.3	8.8	0							
80	26.941376	61.183498	0.7	10.9 $\pm$ 1.2	4.9 $\pm$ 0.7	4.4 $\pm$ 0.7	9.5	1	9.9	13.506 $\pm$ 0.029	13.103 $\pm$ 0.035	12.940 $\pm$ 0.029	Y	<2.0	

XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data			Count rates $10^{-3}$ cts $s^{-1}$			Dis ( $'$ )	N	Off ( $''$ )	2MASS NIR data			Mem	Mass ( $M_{\odot}$ )	Remark
			Err ( $''$ )	PN	MOS1	MOS2	MOS1	MOS2				J (mag)	H (mag)	$K_s$ (mag)			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
81	26.983583	61.209415	1.5	10.8±2.0	0.6±0.4	0.9±0.4	10.5	1	3.9	14.294±0.026	13.643±0.037	13.345±0.030	Y	<2.0			
82	27.015417	61.212749	1.5	4.4±1.0	1.4±0.6	1.0±0.4	11.4	2	2.2	13.673±0.031	13.253±0.032	13.006±0.030	Y	<2.0			
83	27.019709	61.118973	0.8	14.6±1.9	2.4±0.7	0.0±1.8	13.0	1	4.3	13.742±0.027	13.151±0.031	12.801±0.026	Y	<2.0			
84	27.043333	61.254555	1.8	2.1±0.9	0.8±0.6	2.2±0.7	12.4	1	7.1	15.137±0.040	14.175±0.041	13.866±0.047	N				
85	27.048292	61.273972	1.2	9.4±1.6	0.0±0.0	3.1±0.8	12.8	0									
<b>NGC 869</b>																	
1	34.341042	57.174751	1.9	0.0±0.0	1.9±0.5	1.8±0.5	13.4	1	5.0	14.680±0.038	14.225±0.045	14.066±0.061	Y	<2.0	F3(Cu10)		
2	34.350876	57.132084	1.7	0.0±0.0	1.3±0.4	1.1±0.4	13.0	0									
3	34.394585	57.264999	0.6	9.0±1.1	3.9±0.6	3.9±0.7	13.4	1	2.5	16.237±0.104	15.607±0.116	15.251±0.157	N				
4	34.395626	57.086113	1.2	0.0±0.0	1.8±0.4	3.2±0.5	12.1	1	2.0	9.503±0.024	9.551±0.030	9.529±0.022	N				
5	34.397915	57.205307	0.7	12.2±1.1	3.6±0.6	3.4±0.6	11.9	1	1.9	13.539±0.031	12.863±0.032	12.676±0.030	N				
6	34.421417	57.251221	0.2	65.6±2.4	18.1±1.2	20.8±1.3	12.3	2	1.8	9.792±0.024	9.396±0.030	9.318±0.022	N				
7	34.429043	57.249554	2.4	1.8±0.8	0.6±0.4	1.6±0.5	12.0	2	4.2	14.984±0.038	14.482±0.046	14.381±0.076	N				
8	34.432083	57.154915	1.6	1.1±0.4	0.9±0.3	0.5±0.3	10.3	1	2.3	10.909±0.028	10.621±0.031	10.529±0.026	N				
9	34.439415	57.027557	1.2	2.8±0.7	0.8±0.3	0.7±0.6	12.4	0									
10	34.441750	57.088139	1.7	2.0±0.6	0.6±0.3	0.5±0.3	10.6	2	3.3	11.692±0.032	11.595±0.035	11.547±0.028	Y	10-2	B4(Cu10)		
11	34.456585	57.249748	1.9	1.8±0.6	0.6±0.3	0.9±0.4	11.2	0									
12	34.456875	57.090694	1.5	2.0±0.5	0.4±0.2	0.3±0.2	10.1	1	1.8	8.276±0.054	8.243±0.040	8.177±0.024	Y	>10	B0.5I(Sk07)		
13	34.457584	57.318527	1.0	7.3±1.1	0.0±0.0	3.4±0.7	13.9	1	1.6	12.994±0.031	12.711±0.032	12.584±0.023					
14	34.462624	57.197361	1.2	1.7±0.5	1.2±0.3	2.0±0.4	9.7	0									
15	34.472874	57.068279	1.5	2.1±0.6	0.7±0.3	0.9±0.3	10.2	0									
16	34.476334	57.081890	1.3	1.7±0.7	1.0±0.3	0.8±0.3	9.7	2	1.2	15.257±0.042	14.627±0.062	14.565±0.081					
17	34.481415	57.218498	1.8	1.3±0.5	1.2±0.3	0.3±0.4	9.6	1	1.3	11.642±0.026	11.522±0.032	11.514±0.023	Y	10-2	B3(Cu10)		
18	34.484207	57.177223	1.1	2.3±0.5	1.2±0.3	1.1±0.3	8.8	2	2.7	15.769±0.096	15.390±0.085	14.983±0.153					
19	34.498043	56.965668	1.6	0.0±0.0	1.6±0.5	1.0±0.3	13.7	1	1.8	13.893±0.027	13.416±0.036	13.319±0.027	Y	<2.0			
20	34.511124	57.110722	2.2	1.4±0.4	0.6±0.2	0.3±0.2	8.1	2	3.2	14.778±0.063	14.010±0.060	13.765±0.071	Y	<2.0	K3(Cu10)		

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data					Mem	Mass ( $M_{\odot}$ )	Remark	
			Err ('')	PN	Count rates $10^{-3}$ cts $s^{-1}$			Dis (')	N	Off ('')	J (mag)	H (mag)				$K_s$ (mag)
					MOS1	MOS2	MOS3									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
21	34.512001	57.076889	1.4	1.3±0.4	0.5±0.2	0.3±0.2	8.8	1	7.3	13.580±0.026	13.457±0.035	13.435±0.036	Y	10-2	A1(Cu10)	
22	34.518623	57.345470	1.9	3.3±0.9	0.0±0.0	1.9±0.6	13.9	1	7.0	13.930±0.029	13.644±0.037	13.565±0.044	Y	<2.0		
23	34.522251	57.024361	1.4	1.8±0.5	0.9±0.3	0.6±0.3	10.5	2	0.6	14.779±0.057	14.172±0.051	13.972±0.059	Y	<2.0	G2(Cu10)	
24	34.529751	57.033333	0.7	5.5±0.8	2.4±0.5	2.2±0.4	10.0	0								
25	34.530666	57.207554	1.4	1.5±0.4	0.4±0.2	0.5±0.2	7.9	1	2.3	14.211±0.031	13.619±0.037	13.515±0.026	Y	<2.0		
26	34.532082	57.047054	0.7	6.1±0.7	1.8±0.4	1.9±0.4	9.3	0								
27	34.533207	57.084110	0.3	27.4±1.3	10.7±0.8	10.8±0.8	8.0	0								
28	34.533375	57.187138	1.2	1.7±0.4	0.8±0.3	0.8±0.3	7.4	1	9.6	15.413±0.056	15.053±0.069	14.769±0.107				
29	34.548374	56.959915	1.4	0.8±1.1	1.3±0.5	1.7±0.4	13.1	0								
30	34.549416	57.184723	0.7	5.3±0.6	2.2±0.3	2.3±0.4	6.8	1	7.4	15.278±0.042	14.930±0.073	14.717±0.093				
31	34.551125	57.222832	0.6	9.5±0.8	2.0±0.4	1.1±0.4	7.8	1	2.5	13.226±0.024	12.677±0.032	12.515±0.026	N			
32	34.556957	57.339249	2.1	17.2±1.9	3.9±0.8	5.1±1.1	13.0	0								
33	34.557877	57.297722	1.3	1.8±0.6	0.8±0.3	0.7±0.3	10.9	1	6.8	14.065±0.031	13.458±0.036	13.275±0.026	Y	<2.0		
34	34.559208	57.030613	1.6	2.4±0.8	0.8±0.3	0.3±0.2	9.4	1	1.1	13.777±0.029	13.451±0.033	13.378±0.033	Y	<2.0	A4(Cu10)	
35	34.560501	57.158749	0.8	3.8±0.6	1.1±0.3	0.5±0.2	6.1	1	0.4	15.276±0.039	14.630±0.049	14.412±0.072				
36	34.571877	57.125416	0.9	3.7±0.5	1.4±0.3	1.5±0.3	5.9	3	1.2	14.681±0.076	14.217±0.080	14.009±0.084	Y	<2.0	F7(Cu10)	
37	34.572918	57.180889	0.5	9.2±0.8	1.6±0.4	2.2±0.4	6.0	0								
38	34.580250	57.221748	1.0	2.1±0.5	0.6±0.2	0.9±0.3	7.0	0								
39	34.581833	56.977390	1.3	5.7±1.0	0.7±0.4	1.6±0.4	11.6	0								
40	34.584126	57.273140	1.5	1.6±0.5	0.3±0.2	0.5±0.3	9.2	3	2.2	14.910±0.064	14.333±0.055	14.059±0.067	Y	<2.0	G6(Cu10)	
41	34.585751	57.109943	0.9	4.3±0.6	1.2±0.7	2.0±0.4	5.8	2	9.6	14.246±0.027	14.054±0.043	13.868±0.045	Y	<2.0	A5(Cu10)	
42	34.586708	57.174110	0.4	13.9±0.9	4.9±0.5	5.1±0.5	5.5	2	2.1	14.180±0.034	13.850±0.042	13.692±0.053	Y	<2.0	A7(Cu10)	
43	34.593960	57.113499	1.0	2.1±0.4	0.9±0.2	0.9±0.2	5.5	3	3.3	16.223±0.096	15.457±0.106	15.336±0.172				
44	34.595165	57.182278	1.4	1.9±0.4	0.7±0.2	0.9±0.3	5.4	2	1.5	14.468±0.039	14.068±0.049	13.915±0.049	Y	<2.0	F5(Cu10)	
45	34.595291	57.216721	2.5	1.8±0.5	0.6±0.2	0.9±0.3	6.4	1	6.4	15.942±0.069	15.417±0.107	15.437±0.189				
46	34.595375	57.008862	1.0	3.1±0.6	0.8±0.3	0.6±0.2	9.8	3	1.8	10.655±0.025	10.379±0.038	10.359±0.031	N			
47	34.603626	57.112083	1.5	1.2±0.4	0.1±0.1	0.4±0.2	5.2	4	2.3	14.409±0.032	13.867±0.049	13.624±0.037	Y	<2.0	G0(Cu10)	
48	34.607876	57.303585	1.8	2.9±0.7	1.1±0.4	0.7±0.4	10.3	1	9.2	16.031±0.085	15.509±0.104	15.453±0.180				

XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data										Mem ( $M_{\odot}$ )	Remark
			Err ( $''$ )	PN	Count rates $10^{-3}$ cts $s^{-1}$	MOS1	MOS2	Dis ( $'$ )	N	Off ( $''$ )	J (mag)	H (mag)	K <sub>s</sub> (mag)	14	15				
																4	5		
49	34.611210	56.969082	1.8	3.5±0.8	1.3±0.4	0.7±0.3	11.7	1	1.7	7.366±0.023	6.403±0.023	6.170±0.023	N						
50	34.615082	57.208473	1.0	3.0±0.5	0.7±0.2	0.3±0.2	5.6	1	4.3	7.510±0.026	7.497±0.033	7.416±0.020	Y	>10	B1.5!(Sk07)				
51	34.615166	56.994057	1.2	2.2±0.8	1.5±0.7	1.2±0.4	10.3	0											
52	34.617916	56.991501	1.4	11.0±1.2	1.8±0.8	4.0±0.6	10.4	0											
53	34.621750	56.988056	1.1	4.2±0.8	0.0±0.7	0.4±0.3	10.5	2	0.9	13.240±0.033	12.602±0.033	12.375±0.028	N						
54	34.621834	57.171890	1.6	0.6±0.3	0.7±0.2	0.4±0.2	4.3	2	2.0	15.275±0.058	14.655±0.055	14.519±0.075							
55	34.624458	57.225861	1.4	1.0±0.4	1.0±0.3	0.1±0.1	6.1	1	1.7	15.988±0.073	15.423±0.109	14.886±0.100							
56	34.626667	57.081306	1.4	1.2±0.3	0.5±0.2	0.3±0.2	5.7	1	1.8	15.315±0.049	14.647±0.059	14.459±0.083							
57	34.628666	57.032028	1.3	1.9±0.5	0.4±0.2	0.4±0.2	8.0	2	1.2	16.411±0.128	15.518±0.111	15.444±0.180							
58	34.628918	57.064999	1.4	2.0±0.4	0.8±0.2	0.3±0.2	6.4	2	1.9	14.985±0.035	14.368±0.046	14.129±0.066	Y	<2.0	F7(Cu10)				
59	34.629208	56.983444	0.4	21.5±1.4	6.4±0.7	8.5±0.7	10.7	3	2.5	16.245±0.083	15.594±0.110	15.490±0.184							
60	34.632126	57.129917	0.4	9.6±0.9	3.9±0.4	3.8±0.4	4.0	0											
61	34.633835	57.248390	1.5	1.8±0.5	0.4±0.2	0.8±0.3	7.0	2	3.4	13.554±0.029	13.354±0.032	13.241±0.026	Y	<2.0	A0(Cu10)				
62	34.641251	57.321472	0.8	5.8±0.9	2.3±0.5	2.2±0.5	10.9	1	2.8	10.046±0.027	9.959±0.032	9.928±0.021	N		Non-mem(S02)				
63	34.644043	57.179943	0.4	10.8±0.8	3.7±0.4	3.6±0.4	3.9	2	1.3	12.385±0.035	11.654±0.037	11.432±0.028	N						
64	34.647793	57.214417	1.8	2.6±0.6	0.4±0.2	0.4±0.2	5.1	1	2.6	12.700±0.031	12.545±0.038	12.429±0.030	Y	10-2	B9(Cu10)				
65	34.650291	57.021194	1.7	1.1±0.3	0.3±0.2	0.5±0.2	8.3	1	3.6	15.394±0.053	14.657±0.061	14.427±0.076							
66	34.661625	57.349277	2.1	2.2±0.7	0.4±0.3	2.4±0.6	12.3	1	7.5	13.444±0.032	12.797±0.036	12.540±0.029	N						
67	34.662083	57.220444	0.6	5.7±0.6	0.9±0.2	1.7±0.3	5.1	1	2.6	13.072±0.029	12.843±0.036	12.761±0.029	Y	10-2	B7(Cu10)				
68	34.668709	57.127224	2.0	1.9±0.6	0.9±0.2	0.5±0.2	2.9	2	6.2	14.506±0.054	14.046±0.058	13.841±0.056	Y	<2.0	G2(Cu10)				
69	34.671417	57.102196	1.2	4.0±0.8	0.9±0.2	0.9±0.2	3.8	2	6.1	13.747±0.053	13.643±0.067	13.429±0.056	Y	10-2	A2(Cu10)				
70	34.672543	57.071056	0.7	5.0±0.6	1.8±0.3	1.6±0.3	5.3	0											
71	34.676540	57.094028	1.0	3.4±0.8	1.1±0.2	0.6±0.2	4.1	2	1.2	15.042±0.043	14.425±0.052	14.330±0.075							
72	34.683376	57.129501	1.2	2.1±0.4	1.0±0.2	1.0±0.2	2.4	2	1.5	15.394±0.074	14.693±0.070	14.530±0.097							
73	34.696793	56.956944	1.5	0.7±0.4	1.8±0.4	1.3±0.4	11.7	1	9.3	14.616±0.042	14.261±0.047	14.132±0.062	Y	<2.0	F3(cu10)				
74	34.701958	57.074444	1.6	1.7±0.4	0.4±0.2	0.5±0.2	4.7	2	3.5	13.345±0.029	13.117±0.030	13.038±0.030	Y	<2.0	A2(Cu10)				
75	34.703083	57.121082	1.9	4.8±0.7	1.5±0.3	1.4±0.3	2.2	2	9.1	13.686±0.102	13.049±0.070	12.816±0.045	Y	10-2					
76	34.703415	57.024055	1.1	6.0±1.0	1.4±0.3	0.9±0.3	7.6	1	2.7	10.073±0.025	9.898±0.030	9.843±0.023	N						

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data							Mem Mass ( $M_{\odot}$ )	Remark
			Err ('')	PN	Count rates $10^{-3}$ cts $s^{-1}$			Dis (')	N	Off (')	J (mag)	H (mag)	$K_s$ (mag)			
					MOS1	MOS2	MOS3									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
77	34.704292	57.215752	1.1	2.0±0.4	0.4±0.2	0.4±0.2	4.2	1	2.9	9.683±0.029	9.331±0.032	9.259±0.023	N			
78	34.717876	57.192001	1.6	1.5±0.4	0.3±0.2	0.3±0.2	2.8	1	3.8	14.637±0.035	14.170±0.040	13.849±0.056	Y	<2.0	G0(Cu10)	
79	34.719166	57.074360	1.3	1.1±0.3	0.4±0.2	0.4±0.2	4.6	2	2.6	14.454±0.042	13.868±0.041	13.653±0.039	Y	<2.0	G1(Cu10)	
80	34.730999	56.985695	1.4	2.0±0.5	0.5±0.3	0.5±0.2	9.8	0								
81	34.730999	57.149055	1.5	4.0±0.6	1.3±0.3	1.7±0.4	0.6	1	5.0	15.077±0.115	14.632±0.112	14.720±0.119				
82	34.732834	57.371307	1.1	6.4±1.1	2.8±0.6	2.4±0.6	13.3	0								
83	34.733959	57.012306	0.7	4.2±0.6	1.3±0.3	1.6±0.3	8.2	1	9.9	15.370±0.046	14.740±0.055	14.401±0.070				
84	34.735043	57.117973	2.8	6.2±0.9	2.0±0.4	2.0±0.5	1.9	1	5.8	14.987±0.063	14.360±0.074	14.370±0.091				
85	34.740002	57.103416	1.4	1.8±0.4	0.5±0.2	0.6±0.2	2.8	1	6.5	15.403±0.080	14.934±0.088	14.850±0.122				
86	34.743042	57.108807	1.4	1.3±0.4	0.5±0.2	0.5±0.2	2.4	2	1.6	16.104±0.084	15.385±0.100	15.129±0.142				
87	34.746498	57.306278	2.4	1.0±0.5	0.5±0.3	1.0±0.3	9.4	0								
88	34.750916	57.154499	2.5	1.3±0.4	0.5±0.2	0.2±0.2	0.3	3	4.1	11.829±0.029	11.772±0.036	11.705±0.030	Y	10-2	B2V(Sk07)	
89	34.751251	57.172001	1.1	1.5±0.4	0.9±0.3	0.6±0.2	1.4	2	2.7	15.318±0.036	14.675±0.070	14.607±0.097				
90	34.751625	57.217556	1.2	1.4±0.4	0.6±0.2	0.7±0.2	4.1	2	1.8	13.051±0.039	12.625±0.042	12.506±0.035	N			
91	34.753708	57.123501	1.8	1.7±0.4	1.0±0.2	0.6±0.2	1.5	2	1.0	15.903±0.085	15.199±0.103	14.921±0.114				
92	34.754833	57.003334	0.9	2.9±0.6	1.3±0.3	1.3±0.3	8.7	2	3.0	13.660±0.030	13.131±0.036	12.908±0.032	Y	<2.0	F3(Cu10)	
93	34.754959	57.097694	1.2	0.9±0.4	0.8±0.2	1.0±0.2	3.1	1	7.8	14.071±0.043	13.485±0.050	13.229±0.039	Y	<2.0		
94	34.756207	57.208195	0.6	7.2±0.7	2.4±0.3	2.1±0.3	3.6	0								
95	34.756458	57.142056	1.7	3.3±0.6	1.4±0.3	1.6±0.4	0.5	0								
96	34.759666	57.160721	1.3	2.6±0.6	0.5±0.2	0.3±0.2	0.8	3	3.6	13.742±0.036	13.484±0.038	13.346±0.045	Y	<2.0	A0(Cu10)	
97	34.761875	57.323250	1.9	4.9±1.2	0.1±0.2	0.3±0.3	10.5	1	7.0	15.763±0.073	15.295±0.076	14.952±0.115				
98	34.763126	57.049641	0.8	3.5±0.6	2.1±0.3	1.4±0.3	6.0	0								
99	34.768124	57.160999	1.3	1.4±0.5	0.7±0.3	0.5±0.5	1.0	1	4.0	14.340±0.043	13.829±0.042	13.616±0.045	Y	<2.0	F5(Cu10)	
100	34.770126	57.139194	2.0	1.6±0.4	0.6±0.2	0.5±0.2	0.9	0								
101	34.773041	57.047806	1.9	1.8±0.5	0.4±0.2	0.2±0.4	6.1	1	6.4	14.741±0.040	14.443±0.051	14.302±0.064				
102	34.773834	56.983223	1.5	1.7±0.5	0.9±0.3	1.4±0.2	10.0	0								
103	34.782249	57.151138	1.2	2.1±0.4	1.0±0.3	1.0±0.2	1.1	2	6.3	9.714±0.029	9.691±0.032	9.677±0.026	Y	>10	B1.5V(Sk07)	
104	34.782333	57.102638	1.0	3.0±0.5	0.5±0.2	1.4±0.3	3.0	2	1.7	14.564±0.056	14.038±0.072	13.974±0.072	Y	<2.0	F7(Cu10)	



XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data					Mem	Mass ( $M_{\odot}$ )	Remark	
			Err ( $''$ )	PN	Count rates $10^{-3}$ cts $s^{-1}$		Dis ( $'$ )	N	Off ( $''$ )	J (mag)	H (mag)	$K_s$ (mag)				
					MOS1	MOS2										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
105	34.783291	57.127804	3.0	1.8±0.5	0.8±0.3	0.2±0.2	1.7	2	6.1	12.932±0.050	12.822±0.064	12.733±0.033	Y	10-2	B2V(S05) F3(Cu10)	
106	34.787251	57.371887	1.4	4.6±1.0	1.9±0.5	1.9±0.6	13.4	1	6.4	15.438±0.048	14.893±0.058	14.799±0.103				
107	34.790291	57.139168	1.5	1.5±0.4	0.6±0.2	0.2±0.2	1.5	0								
108	34.790833	57.153000	1.4	0.9±0.3	0.6±0.2	0.6±0.2	1.4	1	7.4	14.207±0.040	14.033±0.044	13.832±0.051	Y	<2.0	B2I(Sk07)	
109	34.792458	57.130527	1.5	2.3±0.5	1.0±0.3	0.1±0.2	1.8	2	2.0	7.602±0.030	7.536±0.018	7.462±0.024	Y	>10		
110	34.792793	57.266193	1.9	1.2±0.5	0.9±0.3	0.4±0.2	7.2	0								
111	34.794624	57.125721	0.3	18.5±1.0	6.7±0.5	6.8±0.5	2.1	2	6.0	8.109±0.026	8.067±0.057	8.006±0.016	Y	>10	B1III(Sk07)	
112	34.796875	57.159363	1.8	1.3±0.4	0.8±0.2	0.4±0.2	1.7	1	2.4	15.526±0.068	15.002±0.083	14.659±0.104				
113	34.801960	57.064667	0.9	3.2±0.5	0.5±0.2	0.5±0.2	5.4	3	1.6	13.826±0.059	13.228±0.059	12.987±0.052	Y	<2.0	F5(Cu10)	
114	34.807625	57.030193	1.4	2.2±0.5	1.0±0.3	0.4±0.2	7.4	1	2.3	14.794±0.043	14.050±0.049	13.876±0.054	Y	<2.0	G2(Cu10)	
115	34.812290	57.218582	1.6	1.1±0.4	0.3±0.2	0.8±0.2	4.7	2	2.2	14.814±0.058	14.338±0.071	14.227±0.081	Y	<2.0	G0(Cu10)	
116	34.815376	57.115112	0.4	16.9±1.4	6.0±0.5	5.8±0.5	3.0	2	1.9	15.385±0.044	14.780±0.067	14.442±0.081				
117	34.817001	57.351807	0.6	16.5±1.4	4.0±0.6	3.4±0.6	12.4	2	3.6	13.558±0.034	12.958±0.035	12.706±0.034	N			
118	34.818874	57.033417	1.0	2.5±0.5	1.7±0.4	1.3±0.3	7.3	0								
119	34.820457	57.249722	1.0	3.1±0.6	1.4±0.3	1.1±0.3	6.5	1	5.6	10.011±0.027	9.953±0.032	9.912±0.022	Y	>10	Btype (S05)	
120	34.821877	57.045418	1.5	1.0±0.3	0.4±0.2	0.7±0.2	6.7	0								
121	34.824207	57.134972	1.7	0.9±0.3	0.8±0.3	0.4±0.2	2.6	4	2.9	14.371±0.054	13.892±0.052	13.714±0.051	Y	<2.0	G0(Cu10)	
122	34.830334	57.242249	1.4	2.2±0.5	0.0±0.1	0.7±0.2	6.2	0								
123	34.830917	57.202499	1.3	0.7±0.3	0.5±0.2	0.6±0.2	4.2	1	1.9	14.136±0.027	13.764±0.038	13.590±0.043	Y	<2.0		
124	34.838501	56.999279	1.5	1.3±0.5	1.8±0.4	0.2±0.2	9.5	0								
125	34.838791	57.220612	1.4	1.6±0.4	0.7±0.2	0.5±0.2	5.2	2	3.2	15.431±0.060	14.815±0.065	14.736±0.103				
126	34.838791	56.967529	0.8	7.0±1.0	3.7±0.6	3.9±0.6	11.3	2	0.7	15.904±0.073	15.415±0.103	15.078±0.129				
127	34.839043	57.087582	1.3	1.4±0.4	0.6±0.2	0.4±0.2	4.7	2	0.9	15.334±0.044	14.846±0.061	14.586±0.090				
128	34.839500	57.034805	1.5	3.2±0.9	0.5±0.2	0.5±0.2	7.5	1	3.3	14.522±0.042	14.072±0.042	13.917±0.056	Y	<2.0	F7(Cu10)	
129	34.841667	57.252334	1.8	1.5±0.5	0.6±0.2	0.3±0.2	5.8	1	2.0	15.054±0.059	14.386±0.061	14.278±0.069	Y	<2.0	G0(Cu10)	
130	34.843460	57.152721	1.5	1.3±0.4	0.6±0.2	0.2±0.2	3.1	1	1.8	15.266±0.038	14.591±0.055	14.396±0.070				
131	34.845123	56.980999	0.8	5.8±0.9	1.6±0.4	1.9±0.4	10.6	1	0.2	11.914±0.027	11.536±0.032	11.415±0.023	N			
132	34.848293	57.025417	1.5	2.1±0.6	0.9±0.3	0.3±0.2	8.1	1	6.5	14.232±0.036	13.681±0.035	13.593±0.046	Y	<2.0		

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data				2MASS NIR data							Mem	Mass ( $M_{\odot}$ )	Remark
			Err ('')	PN	Count rates $10^{-3}$ cts $s^{-1}$	Dis (')	N	Off ('')	J (mag)	H (mag)	$K_s$ (mag)					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
133	34.849125	57.004696	0.8	7.4±1.0	2.4±0.4	2.4±0.4	9.3	2	1.6	9.372±0.027	9.110±0.031	9.074±0.019	N			
134	34.853500	57.163971	1.4	1.0±0.3	0.0±0.1	0.6±0.2	3.5	1	3.3	15.465±0.060	14.739±0.064	14.706±0.099				
135	34.854874	56.991890	0.9	4.5±0.8	1.2±0.4	1.9±0.4	10.1	1	0.9	13.992±0.043	13.399±0.042	13.209±0.039	Y	<2.0		
136	34.856293	57.156887	1.6	1.9±0.4	0.0±0.1	0.2±0.1	3.5	1	2.2	15.859±0.083	15.108±0.084	14.820±0.117				
137	34.862541	57.014584	1.8	1.5±0.5	0.8±0.3	0.5±0.2	8.9	1	9.9	16.392±0.128	15.664±0.131	15.443±0.197				
138	34.867748	57.019585	1.4	1.8±0.6	0.4±0.3	1.2±0.3	8.7	0								
139	34.869793	57.154026	1.1	2.2±0.5	0.8±0.2	1.1±0.3	4.0	2	2.9	11.044±0.021	10.975±0.027	10.970±0.023	Y	10-2	B2(Cu10)	
140	34.870708	57.163887	0.6	5.9±0.6	2.3±0.3	2.9±0.4	4.1	1	2.7	10.981±0.019	10.879±0.027	10.833±0.021	Y	10-2	B9(Cu10)	
141	34.879917	57.153137	2.3	1.5±0.4	0.4±0.2	0.4±0.2	4.3	1	1.9	15.842±0.079	15.009±0.082	14.825±0.112				
142	34.880543	57.084805	1.6	0.6±0.4	0.4±0.2	0.8±0.2	5.8	3	1.0	15.154±0.051	14.865±0.082	14.912±0.133				
143	34.883999	57.113998	1.4	1.4±0.4	0.7±0.2	0.4±0.2	4.9	1	1.3	13.897±0.029	13.521±0.040	13.473±0.044	Y	<2.0	F0(Cu10)	
144	34.886623	57.095833	1.6	1.1±0.4	0.6±0.2	0.4±0.2	5.5	1	1.4	15.363±0.057	14.733±0.060	14.537±0.084				
145	34.890583	57.059082	1.4	2.0±0.5	0.1±0.2	0.6±0.2	7.1	1	1.9	14.908±0.037	14.448±0.044	14.242±0.080	Y	<2.0	F7(Cu10)	
146	34.890751	57.258167	1.5	1.3±0.4	0.6±0.3	0.8±0.3	8.0	1	3.3	14.137±0.028	13.727±0.039	13.569±0.044	Y	<2.0		
147	34.895206	56.955166	1.5	13.1±3.1	0.9±0.4	0.3±0.3	12.6	0								
148	34.904583	56.994221	1.1	3.5±0.8	1.1±0.4	2.0±0.4	10.6	1	4.6	15.915±0.086	15.246±0.086	14.913±0.117				
149	34.913460	57.060806	1.4	1.3±0.4	0.1±0.2	0.5±0.2	7.6	2	5.0	14.026±0.026	13.536±0.037	13.340±0.037	Y	10-2	B2(Cu10)	
150	34.920582	57.089249	1.5	1.0±0.4	0.6±0.2	0.7±0.2	6.7	1	1.8	15.278±0.075	14.746±0.089	14.599±0.103				
151	34.928791	57.182194	0.9	6.2±0.8	1.5±0.4	0.8±0.3	6.2	0								
152	34.929249	57.312527	1.3	2.7±0.8	1.0±0.4	0.7±0.3	11.4	1	2.6	14.855±0.045	14.276±0.047	14.197±0.074	Y	<2.0	F8(Cu10)	
153	34.929459	57.100834	1.1	3.9±0.6	0.9±1.0	1.7±0.5	6.6	1	5.5	16.598±0.157	15.433±0.117	15.280±0.172				
154	34.938293	57.004833	2.7	2.5±0.7	0.0±0.2	0.9±0.3	10.6	2	4.0	10.361±0.023	10.131±0.028	10.058±0.020	N			
155	34.947918	57.151196	0.9	6.4±1.3	0.8±0.2	1.0±0.3	6.5	1	1.4	14.161±0.033	13.899±0.040	13.806±0.048	Y	<2.0	A2(Cu10)	
156	34.952667	57.039165	0.7	5.2±0.8	1.8±0.5	3.1±0.5	9.4	2	5.9	14.254±0.032	13.770±0.036	13.520±0.043	Y	<2.0	G2(Cu10)	
157	34.959915	57.088638	0.6	10.1±1.1	2.7±0.4	3.5±0.5	7.8	1	2.9	15.550±0.071	15.271±0.097	14.939±0.127				
158	34.960876	57.251278	1.1	2.6±0.6	0.2±0.2	1.5±0.4	9.2	1	1.7	14.292±0.032	13.853±0.045	13.756±0.051	Y	<2.0	F8(Cu10)	
159	34.961082	57.199333	0.7	5.3±0.7	1.7±0.4	1.7±0.4	7.6	2	2.0	14.315±0.033	13.526±0.034	13.316±0.038	Y	<2.0	G5(Cu10)	
160	34.965042	57.000278	0.2	100.4±2.9	28.3±1.5	25.3±1.3	11.4	1	1.8	10.668±0.023	10.147±0.026	10.001±0.021	N			

XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data					Mem	Mass ( $M_{\odot}$ )	Remark
			Err ( $''$ )	PN	Count rates $10^{-3}$ cts $s^{-1}$	Dis ( $'$ )	N	Off ( $''$ )	J (mag)	H (mag)	$K_s$ (mag)				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
161	34.969166	57.120419	1.0	2.8±0.6	1.1±0.3	1.4±0.3	7.4	1	7.0	13.374±0.024	12.720±0.030	12.521±0.026	N		
162	34.980000	57.220444	1.0	4.0±0.7	1.6±0.4	0.8±0.3	8.7	1	2.5	13.954±0.026	13.269±0.036	13.147±0.034	Y	<2.0	
163	34.982166	57.047890	1.3	2.6±0.7	1.4±0.4	1.3±0.3	9.7	1	6.1	15.520±0.071	15.056±0.090	14.983±0.146			
164	34.991333	57.013222	1.4	5.0±0.9	0.4±0.3	1.4±0.4	11.4	1	3.3	15.291±0.065	14.816±0.086	14.523±0.094			
165	34.999458	57.253887	1.1	2.2±0.7	1.3±0.4	1.5±0.4	10.3	1	9.7	14.005±0.025	13.681±0.038	13.531±0.042	Y	<2.0	
166	35.011665	57.318638	1.9	1.4±0.7	1.8±0.6	0.7±0.4	13.3	1	4.6	15.406±0.062	14.754±0.074	14.230±0.074	Y	< 1.4	M0(Cu10)
167	35.012543	57.028778	1.6	2.6±0.7	0.7±0.3	0.9±0.4	11.2	0							
168	35.024124	57.221584	0.6	6.3±0.9	3.3±0.6	2.8±0.5	10.0	1	9.8	15.346±0.057	15.076±0.082	14.876±0.125			F0(Cu10)
169	35.026749	57.125500	1.5	2.0±0.6	1.3±0.4	0.6±0.3	9.2	2	4.2	10.576±0.019	10.518±0.026	10.502±0.021	Y	10-2	B1(Cu10)
170	35.026833	57.131611	1.0	5.4±0.8	2.6±0.6	2.7±0.5	9.1	0							
171	35.032124	56.976723	1.3	3.5±0.9	0.0±0.0	1.8±0.5	13.9	0							
172	35.034000	57.120445	0.6	10.5±1.0	2.7±0.5	3.0±0.5	9.5	1	2.1	10.910±0.019	10.226±0.026	10.061±0.021	N		
173	35.037834	57.020638	0.9	9.7±1.1	2.8±0.6	2.2±0.5	12.2	2	2.8	12.814±0.025	12.697±0.029	12.582±0.028	Y	10-2	B6(Cu10)
174	35.071041	57.147530	2.3	3.4±0.8	0.4±0.3	0.2±0.3	10.5	1	1.2	15.027±0.052	14.350±0.050	14.119±0.059	Y	<2.0	G4(Cu10)
175	35.083668	57.010471	2.2	1.0±0.6	1.4±0.5	1.2±0.5	13.7	1	5.0	14.481±0.035	14.087±0.043	13.961±0.060	Y	<2.0	G3(Cu10)
176	35.098415	57.152611	1.7	2.2±0.6	0.7±0.3	0.7±0.3	11.4	0							
177	35.105125	57.262444	0.7	11.3±1.4	4.7±1.0	3.1±0.7	13.4	3	3.0	16.143±0.142	15.435±0.128	15.153±0.160			
178	35.114960	57.110722	3.8	1.5±0.6	0.8±0.4	2.3±0.6	12.2	0							
179	35.121624	57.199722	1.5	4.2±0.9	0.8±0.5	2.1±0.6	12.5	0							
180	35.145668	57.215416	1.4	6.1±1.0	5.4±1.7	1.8±0.6	13.5	1	3.1	10.709±0.024	10.399±0.032	10.297±0.023	N		
181	35.160458	57.146278	0.7	9.8±1.2	3.9±0.7	5.7±0.9	13.4	1	1.8	13.007±0.028	12.391±0.035	12.258±0.028	N		
182	35.163250	57.077332	2.7	3.6±0.9	0.0±0.0	0.0±0.0	14.2	0							
183	35.188957	57.047554	1.3	15.7±1.6	0.0±0.0	0.0±0.0	15.6	0							

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data			2MASS NIR data							Mem	Mass ( $M_{\odot}$ )	Remark
			Err ('')	PN	Count rates $10^{-3}$ cts s $^{-1}$	Dis (')	N	Off ('')	J (mag)	H (mag)	$K_s$ (mag)				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>NGC 884</b>															
1	35.145416	57.214417	0.8	9.2±1.2	3.2±0.6	2.2±0.6	12.8	1	3.3	10.709±0.024	10.399±0.032	10.297±0.023			
2	35.158043	57.190140	1.8	1.6±0.6	0.7±0.3	1.3±0.5	12.0	0							
3	35.160290	57.145557	0.8	9.4±1.1	2.6±0.5	3.1±0.6	11.7	1	3.1	13.007±0.028	12.391±0.035	12.258±0.028			
4	35.181210	56.998444	0.4	0.0±0.0	18.1±1.4	14.1±1.2	14.2	0							
5	35.182999	57.070446	1.3	13.6±2.7	0.2±0.3	1.0±0.4	11.9	1	8.0	14.547±0.035	14.348±0.051	14.106±0.063			
6	35.189003	57.047195	0.9	0.0±0.0	4.5±0.7	2.8±0.6	12.3	1	9.9	14.951±0.061	14.724±0.085	14.555±0.098			A8(Cu10)
7	35.195583	57.065918	1.7	2.1±0.7	1.4±0.4	0.7±0.3	11.6	0							
8	35.209457	57.291637	1.5	5.3±1.1	0.0±0.0	0.4±0.6	13.3	1	3.2	14.263±0.031	13.550±0.036	13.328±0.038			
9	35.211834	57.174835	1.5	2.2±0.6	0.6±0.3	1.1±0.4	10.1	0							
10	35.222916	57.088223	0.9	6.4±1.0	0.9±0.3	1.5±0.4	10.3	1	4.4	15.034±0.051	14.544±0.058	14.343±0.081			
11	35.226254	56.954918	1.5	0.0±0.0	2.8±0.6	0.0±0.0	15.0	1	4.5	15.788±0.076	14.850±0.077	14.919±0.133			
12	35.245251	57.011806	1.0	4.2±0.8	1.6±0.4	1.1±0.3	12.1	1	1.4	9.235±0.022	8.945±0.046	8.897±0.022			
13	35.250542	57.031582	1.3	0.8±0.5	1.5±0.4	0.5±0.3	11.1	0							
14	35.250706	57.121666	1.7	1.5±0.6	0.6±0.3	0.7±0.4	8.9	2	1.4	15.633±0.086	14.958±0.102	14.811±0.118			
15	35.251205	57.224918	1.1	4.6±0.9	1.6±0.4	1.5±0.4	9.9	1	3.6	12.949±0.024	12.335±0.031	12.138±0.022	N		
16	35.268585	57.129139	1.6	1.6±0.5	0.7±0.3	0.8±0.3	8.2	2	1.5	13.937±0.041	13.537±0.046	13.397±0.052	Y	<2.0	F7(Cu10)
17	35.282455	57.229473	1.7	2.8±0.7	1.4±0.6	1.3±0.4	9.1	0							
18	35.283501	56.956806	1.1	5.8±1.5	2.8±0.6	2.3±0.5	13.7	2	3.4	13.987±0.041	13.336±0.039	13.161±0.037			
19	35.284500	57.141029	1.5	6.5±1.3	0.2±0.2	0.0±0.1	7.6	0							
20	35.298084	57.123165	1.6	1.5±0.6	0.5±0.2	0.7±0.3	7.3	0							
21	35.300247	57.015362	0.4	16.6±1.3	6.9±0.7	7.3±0.7	10.6	1	8.2	16.355±0.120	15.326±0.091	15.187±0.159			
22	35.302002	57.214001	1.7	1.9±0.6	0.3±0.3	0.9±0.4	8.1	1	4.5	11.526±0.024	11.275±0.028	11.185±0.023	N		
23	35.328167	57.146667	0.9	4.6±0.7	1.4±0.6	0.8±0.3	6.2	1	4.3	12.250±0.024	12.114±0.031	12.036±0.028	Y	10-2	B7(Cu10)
24	35.332958	57.001526	0.6	9.0±1.0	3.6±0.6	2.8±0.5	10.6	0							
25	35.340668	57.160110	1.3	2.0±0.5	0.9±0.3	0.6±0.3	5.8	1	3.4	16.146±0.107	15.779±0.165	15.319±0.178			

XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data			2MASS NIR data				Mem Mass ( $M_{\odot}$ )	Remark				
			Err ( $''$ )	PN	Count rates $10^{-3}$ cts $s^{-1}$	Dis ( $''$ )	N	Off ( $''$ )	J (mag)			H (mag)	$K_s$ (mag)		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
26	35.342541	57.119694	1.3	1.9±0.4	1.0±0.3	0.2±0.2	6.0	1	3.5	15.306±0.051	14.665±0.065	14.435±0.081			
27	35.353210	57.196083	1.2	2.4±0.6	1.3±0.3	0.5±0.3	6.1	1	6.7	11.227±0.024	11.031±0.029	10.816±0.022	N		
28	35.357166	57.050220	1.4	1.7±0.5	0.9±0.3	0.5±0.2	7.8	1	8.1	14.009±0.032	13.538±0.033	13.517±0.039	Y	<2.0	G7(Cu10)
29	35.359581	57.006695	1.2	2.5±0.6	0.9±0.3	1.0±0.3	9.9	1	4.4	13.179±0.033	12.782±0.036	12.719±0.039	N		Non-mem(S02)
30	35.369831	57.103806	1.3	2.2±0.5	0.8±0.3	0.9±0.3	5.5	1	2.3	14.280±0.028	13.715±0.029	13.492±0.042	Y	<2.0	G2(Cu10)
31	35.376083	56.992332	1.5	4.9±1.2	0.6±0.3	0.0±0.2	10.4	0							
32	35.379623	57.213833	1.2	4.9±0.9	1.1±0.3	0.9±0.4	6.0	1	2.2	11.131±0.024	10.915±0.029	10.820±0.022	N		
33	35.379955	57.109222	0.5	13.2±1.0	4.5±0.5	3.8±0.4	5.1	0							
34	35.380875	57.058777	0.9	2.9±0.6	1.7±0.5	0.7±0.3	6.9	0							
35	35.381542	57.100418	1.6	1.1±0.4	0.4±0.2	0.6±0.2	5.3	3	1.3	15.717±0.124	15.172±0.131	15.055±0.147			
36	35.382999	57.146221	0.9	2.2±0.5	1.3±0.3	0.8±0.2	4.4	1	3.3	15.665±0.072	15.183±0.080	14.809±0.122			
37	35.397293	57.296082	0.6	11.7±1.3	3.9±0.6	3.0±0.6	9.8	1	3.3	9.334±0.022	9.317±0.029	9.296±0.023	N		F0(Ptc10)
38	35.408707	57.042332	0.5	6.9±0.8	2.9±0.4	2.3±0.4	7.2	1	7.8	16.901±0.193	16.149±0.193	15.587±0.226			
39	35.409168	57.068306	1.8	1.3±0.4	0.3±0.2	0.6±0.2	5.9	1	2.7	14.534±0.035	14.048±0.046	13.985±0.060	Y	<2.0	F5(Cu)
40	35.409584	57.126835	0.9	3.1±0.6	0.7±0.2	1.1±0.3	3.7	0							
41	35.411419	57.137974	0.5	7.8±0.8	2.7±0.4	1.9±0.4	3.5	0							
42	35.416248	57.123028	1.4	3.8±0.7	0.4±0.2	0.4±0.2	3.6	1	4.7	15.980±0.087	15.325±0.113	15.298±0.176			
43	35.418709	57.155529	1.8	3.9±1.0	0.4±0.2	0.1±0.1	3.3	1	4.9	11.769±0.024	11.517±0.028	11.406±0.025	N		
44	35.419125	57.097916	0.4	17.9±1.1	4.2±0.4	4.6±0.5	4.4	2	2.5	15.313±0.060	14.655±0.066	14.626±0.102			
45	35.419750	57.086193	1.4	1.2±0.4	0.2±0.2	0.6±0.2	4.9	0							
46	35.423164	56.919666	1.8	7.5±1.5	0.0±0.2	0.0±0.2	14.0	1	8.5	16.630±0.164	15.952±0.179	15.405±0.183			
47	35.425083	56.959084	1.4	3.4±0.8	0.9±0.3	0.8±0.3	11.7	1	2.2	12.319±0.024	11.932±0.028	11.863±0.023			
48	35.427876	57.307972	1.4	2.0±0.7	0.9±0.3	0.4±0.3	10.1	1	3.0	7.702±0.020	7.222±0.038	7.121±0.024	N		
49	35.434875	57.264473	2.2	2.4±0.7	0.9±0.3	1.0±0.5	7.6	1	3.1	14.495±0.044	14.116±0.062	14.010±0.069	Y	<2.0	F7(Cu)
50	35.436207	57.343807	1.6	3.3±1.0	0.9±0.5	1.4±0.6	12.1	2	5.1	13.956±0.031	13.499±0.043	13.435±0.042			
51	35.437580	57.193668	1.3	1.5±0.5	0.4±0.2	0.6±0.2	3.8	0							
52	35.441959	56.913502	1.0	14.4±1.6	0.0±0.0	4.7±0.7	14.2	1	1.2	13.962±0.031	13.275±0.029	13.055±0.028			
53	35.442039	57.044498	1.3	3.5±0.9	0.9±0.3	1.1±0.3	6.6	1	5.0	14.446±0.046	13.827±0.055	13.697±0.062	Y	<2.0	G4e(SK07);G4(Cu10)

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data				2MASS NIR data							Mem	Mass ( $M_{\odot}$ )	Remark
			Err (")	PN	Count rates $10^{-3}$ cts s $^{-1}$		Dis (')	N	Off (")	J (mag)	H (mag)	$K_s$ (mag)				
					MOS1	MOS2							10			
54	35.447960	57.115471	2.4	5.2±0.9	0.4±0.2	0.6±0.3	3.0	2	5.6	14.775±0.047	14.506±0.056	14.324±0.070				
55	35.448082	57.188389	0.7	6.4±0.8	2.2±0.4	1.4±0.3	3.4	0								
56	35.453209	57.065945	1.4	1.5±0.5	0.6±0.2	0.8±0.3	5.3	1	2.6	15.053±0.041	14.446±0.058	14.483±0.089				
57	35.454876	57.201778	2.2	1.9±0.5	0.6±0.3	1.2±0.4	3.9	2	2.1	15.999±0.091	15.180±0.079	15.177±0.153				
58	35.458000	57.068916	1.0	4.2±0.6	1.3±0.3	2.6±0.4	5.1	1	4.6	15.287±0.046	14.722±0.058	14.633±0.091				
59	35.458542	57.092583	1.4	3.5±1.0	0.6±0.2	1.6±0.3	3.8	2	1.9	15.464±0.063	14.934±0.073	14.744±0.111		N		
60	35.459831	57.248028	1.0	4.9±0.8	1.7±0.4	1.9±0.4	6.4	0								
61	35.460167	57.336971	1.3	12.5±2.3	2.8±0.7	2.6±0.7	11.6	1	3.5	14.574±0.031	14.106±0.041	14.104±0.060				
62	35.461918	57.026669	0.9	3.3±0.6	1.2±0.3	1.1±0.3	7.4	1	9.8	12.246±0.024	12.184±0.028	12.137±0.025		Y	10-2 B7(Cu10)	
63	35.466293	57.206112	0.9	3.9±0.6	1.1±0.3	1.6±0.3	3.9	0								
64	35.466541	57.276859	1.9	4.2±0.8	1.8±0.5	2.1±0.5	8.0	2	8.1	14.983±0.053	14.406±0.057	14.262±0.080		Y	<2.0 A5(Cu10)	
65	35.469833	57.116138	0.9	2.0±0.4	0.9±0.2	1.0±0.2	2.4	1	1.9	15.263±0.047	14.581±0.059	14.659±0.100				
66	35.476540	57.067974	1.0	3.4±0.9	1.1±0.3	1.1±0.3	4.9	2	1.7	15.538±0.068	14.825±0.057	14.938±0.122				
67	35.488251	56.979305	0.8	5.9±0.9	3.1±0.6	2.3±0.4	10.1	0								
68	35.489666	57.211613	2.0	1.4±0.5	0.8±0.3	0.5±0.3	4.0	1	9.8	11.412±0.022	11.371±0.031	11.280±0.021		Y	10-2 B3(Cu10)	
69	35.492874	57.160805	0.8	3.8±0.6	1.2±0.3	0.8±0.2	1.2	1	2.1	15.777±0.083	15.138±0.108	14.816±0.137				
60	35.498249	57.142944	1.8	3.6±0.9	0.5±0.2	0.9±0.3	0.7	1	7.6	11.529±0.027	10.843±0.032	10.688±0.025		N		
71	35.503956	57.079613	1.0	4.0±0.6	0.6±0.2	1.2±0.3	4.1	1	1.5	13.803±0.024	13.573±0.032	13.456±0.046		Y	<2.0 A0(Cu10)	
72	35.506042	57.098526	1.2	2.2±0.5	1.1±0.3	0.9±0.2	2.9	2	5.3	13.150±0.044	12.999±0.055	12.842±0.050		N	F5(Sk07)	
73	35.507458	57.133251	1.5	1.5±0.4	1.3±0.3	0.4±0.2	0.9	0								
74	35.511623	57.105640	0.5	7.0±0.7	2.4±0.4	2.5±0.4	2.5	1	4.2	15.198±0.047	14.985±0.067	14.677±0.096				
75	35.512707	57.308529	1.0	5.4±1.0	1.8±0.5	1.5±0.6	9.7	1	3.9	14.552±0.035	14.275±0.054	14.004±0.059		Y	<2.0 A8(Cu10)	
76	35.513668	57.200695	0.6	7.5±0.8	1.5±0.3	2.1±0.4	3.2	1	3.2	12.935±0.042	12.372±0.046	12.195±0.034		N		
77	35.516708	57.002499	1.6	4.1±1.0	0.0±0.1	0.4±0.2	8.7	0								
78	35.517044	57.142250	1.5	2.9±0.8	1.0±0.3	0.3±0.2	0.3	1	3.9	12.581±0.028	12.528±0.036	12.457±0.028		Y	10-2 B8V(Sk07)	
79	35.517708	57.176445	1.2	2.5±0.5	0.2±0.2	1.4±0.3	1.8	1	4.4	9.865±0.022	9.835±0.029	9.770±0.021		Y	>10 B1.5III(Sk07)	
80	35.524750	57.118694	1.4	1.4±0.4	0.8±0.2	0.6±0.2	1.7	2	4.4	13.860±0.038	13.764±0.048	13.660±0.050		Y	<2.0 F5(Cu10)	

XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data				2MASS NIR data						Mem Mass ( $M_{\odot}$ )	Remark	
			Err ( $''$ )	PN	Count rates $10^{-3}$ cts $s^{-1}$		Dis ( $'$ )	N	Off ( $''$ )	J (mag)	H (mag)	K <sub>s</sub> (mag)			
					MOS1	MOS2									7
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
81	35.524834	57.066776	1.0	2.3±0.5	0.6±0.2	1.1±0.3	4.8	2	6.9	15.868±0.112	15.379±0.131	15.234±0.182			
82	35.528751	56.960083	1.2	3.0±0.9	2.4±0.5	0.7±0.3	11.2	1	7.5	15.443±0.053	14.694±0.062	14.459±0.085			
83	35.530544	57.126915	2.4	4.1±0.8	1.4±0.4	2.9±0.5	1.3	2	3.4	15.931±0.192	15.079±0.170	14.730±0.126			
84	35.532417	57.021137	1.3	3.2±0.6	2.6±0.4	1.7±0.3	7.6	0							
85	35.538124	57.157639	1.9	2.8±0.6	0.7±0.3	0.7±0.2	0.9	0							
86	35.543419	57.103333	0.8	4.7±0.6	1.5±0.3	1.2±0.3	2.7	2	5.6	14.569±0.030	14.376±0.047	14.349±0.084			
87	35.544792	57.195362	1.3	2.1±0.8	0.8±0.2	1.0±0.3	3.0	0							
88	35.552002	57.100750	1.2	2.3±0.5	0.7±0.3	0.9±0.3	3.0	2	1.5	14.873±0.071	14.168±0.065	14.096±0.071	Y	<2.0	F7(Cu10)
89	35.553165	57.176613	1.6	4.2±1.3	0.5±0.2	0.8±0.2	2.1	2	5.9	14.485±0.046	14.322±0.078	14.173±0.078	Y	<2.0	F7(Cu)
90	35.563168	57.140194	1.7	1.1±0.4	0.8±0.2	0.3±0.2	1.5	2	2.2	14.852±0.040	14.377±0.059	14.104±0.064	Y	<2.0	F7(Cu10)
91	35.567169	57.094028	1.1	2.9±0.5	0.9±0.3	0.8±0.2	3.5	1	1.6	14.737±0.031	14.182±0.039	14.036±0.056	Y	<2.0	G3(Cu)
92	35.568207	56.966583	0.8	6.4±0.9	2.3±0.5	1.9±0.4	10.9	0							
93	35.572624	57.123333	1.1	2.2±0.5	1.0±0.3	0.9±0.2	2.3	3	2.2	8.483±0.023	8.441±0.065	8.327±0.021	Y	>10	B2III(Sk07)
94	35.573753	57.113472	0.7	5.4±0.7	1.6±0.3	2.1±0.3	2.7	0							
95	35.579586	57.201862	2.0	1.2±0.4	0.6±0.2	0.3±0.2	3.9	1	0.7	15.422±0.058	15.053±0.074	14.617±0.092			
96	35.583294	57.089474	1.2	2.5±0.5	1.1±0.3	1.1±0.3	4.0	2	1.8	15.908±0.087	15.391±0.128	15.141±0.178			
97	35.588043	57.178276	0.7	9.8±0.9	2.3±0.4	2.9±0.4	2.9	2	3.0	16.129±0.131	15.398±0.129	14.763±0.115			
98	35.596500	57.067276	1.5	1.0±0.4	0.8±0.3	0.7±0.3	5.4	1	4.0	15.721±0.082	15.151±0.096	15.080±0.144			
99	35.596837	57.175804	1.0	2.2±0.6	0.8±0.3	1.6±0.3	3.1	0							
100	35.598872	57.147835	1.4	1.9±0.5	0.7±0.2	1.0±0.3	2.6	1	8.6	14.940±0.035	14.589±0.053	14.494±0.089			
101	35.605461	57.012085	1.8	0.5±0.4	0.2±0.2	1.1±0.3	8.6	1	2.1	14.678±0.034	14.287±0.045	14.110±0.065	Y	<2.0	F5(Cu)
102	35.611462	57.089748	2.3	1.9±0.6	0.5±0.2	0.3±0.2	4.6	3	6.3	14.227±0.027	14.093±0.049	14.030±0.071	Y	<2.0	A2(Cu10)
103	35.613209	57.054779	0.9	3.6±0.6	1.3±0.3	1.4±0.3	6.3	1	2.2	10.382±0.022	10.348±0.028	10.319±0.023	Y	10-2	B3(Cu10)
104	35.614544	57.025196	2.0	2.0±0.5	1.0±0.3	0.3±0.2	7.9	1	2.7	13.748±0.028	13.379±0.039	13.310±0.040	Y	<2.0	F0(Cu10)
105	35.616917	57.037388	1.5	1.8±0.5	0.6±0.3	0.8±0.3	7.3	0							
106	35.626041	57.242638	1.4	1.7±0.5	1.2±0.6	2.7±1.4	6.7	2	2.9	14.852±0.067	14.247±0.045	14.049±0.070	Y	<2.0	G7e(Sk07);G7(Cu10)
107	35.627209	57.330807	0.7	14.6±1.6	6.1±0.9	5.8±1.0	11.6	1	2.0	12.440±0.024	11.775±0.029	11.567±0.023			
108	35.630249	57.059666	0.6	9.3±1.0	3.3±0.5	3.0±0.4	6.4	0							

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data							2MASS NIR data							Mem Mass ( $M_{\odot}$ )	Remark
			Err ( $''$ )	PN	Count rates $10^{-3}$ cts $s^{-1}$		Dis ( $'$ )	N	Off ( $''$ )	J (mag)	H (mag)	$K_s$ (mag)	14	15	16			
					MOS1	MOS2										9		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
109	35.638706	57.058445	1.5	1.8±0.5	1.1±0.3	0.3±0.2	6.6	2	7.0	10.741±0.022	10.173±0.028	10.090±0.025	N					
110	35.643375	57.191418	1.3	1.3±0.4	0.4±0.2	0.8±0.3	4.9	1	9.5	13.597±0.027	13.181±0.035	13.043±0.031	Y	<2.0		F7(Cu10)		
111	35.645916	57.039665	1.6	2.0±0.6	0.4±0.2	0.3±0.2	7.7	1	2.0	15.571±0.059	14.848±0.062	14.686±0.099						
112	35.652206	57.107861	1.2	3.0±0.5	1.0±0.3	0.9±0.3	4.9	1	0.5	15.311±0.076	14.960±0.103	14.907±0.134						
113	35.655708	57.217945	1.4	1.8±0.5	0.6±0.3	0.7±0.3	6.2	2	3.4	14.900±0.050	14.358±0.061	14.167±0.065	Y	<2.0		G0e(Sk07);G0(Cu10)		
114	35.666248	57.206944	0.9	5.9±0.9	1.8±0.4	2.5±0.5	6.0	3	5.4	16.111±0.110	15.403±0.111	15.088±0.141						
115	35.669373	56.992306	0.6	16.6±1.7	6.0±0.7	5.2±0.6	10.5	0										
116	35.679623	57.206974	2.0	10.0±2.4	0.3±0.2	0.6±0.3	6.4	2	1.3	16.453±0.713	15.617±0.377	15.745±0.514						
117	35.693417	57.322945	0.6	26.7±2.6	9.2±1.1	8.9±1.1	12.0	0										
118	35.699539	57.324139	1.6	2.4±1.2	2.3±0.8	1.9±0.8	12.2	1	8.5	16.009±0.075	15.506±0.118	15.463±0.203						
119	35.707542	57.161026	1.9	5.6±1.4	0.3±0.3	0.8±0.3	6.2	1	7.1	14.212±0.024	13.864±0.036	13.687±0.040	Y	<2.0		F0(Cu10)		
120	35.707790	57.142834	1.6	4.2±0.7	1.1±0.3	0.7±0.3	6.2	1	5.2	13.331±0.023	13.212±0.035	13.178±0.035	Y	10-2		B9(Cu10)		
121	35.722958	57.098804	1.5	1.1±0.5	0.8±0.3	1.1±0.4	7.3	1	6.6	13.800±0.026	13.218±0.031	13.121±0.030	Y	<2.0		G5(Cu10)		
122	35.724209	57.126083	0.9	6.1±0.9	1.4±0.3	1.2±0.3	6.8	1	1.8	14.021±0.026	13.400±0.035	13.256±0.037	Y	<2.0				
123	35.724251	57.053391	1.8	1.0±0.5	0.3±0.2	1.2±0.3	8.7	1	6.4	15.921±0.089	15.334±0.105	15.298±0.164						
124	35.724625	57.032196	1.3	3.0±0.7	2.0±0.5	0.8±0.3	9.6	0										
125	35.728127	57.089668	0.7	6.6±0.8	2.3±0.5	2.2±0.5	7.6	0										
126	35.729458	56.981945	1.8	9.7±1.8	1.8±0.7	5.1±1.0	12.1	0										
127	35.737625	57.319248	1.8	4.2±1.1	2.1±0.7	1.7±0.6	12.6	1	8.6	14.149±0.026	13.751±0.044	13.477±0.042						
128	35.737709	57.346306	2.6	7.5±1.8	0.0±0.0	0.0±0.0	13.9	0										
129	35.740376	57.174168	0.9	5.3±0.8	2.3±0.5	1.5±0.4	7.4	0										
130	35.747002	57.137417	1.5	1.2±0.4	0.7±0.3	0.6±0.3	7.5	2	1.1	14.220±1.104	13.786±0.156	13.357±1.385	Y	<2.0		G3(Cu10)		
131	35.752666	57.122082	1.8	1.1±0.5	0.6±0.3	0.8±0.3	7.8	2	3.9	10.789±0.023	10.609±0.028	10.572±0.022	N					
132	35.755249	57.211723	0.8	5.7±0.9	2.4±0.5	2.8±0.5	8.6	0										
133	35.766541	57.064140	1.7	5.2±1.3	0.5±0.3	0.1±0.2	9.5	1	8.5	16.611±0.131	15.754±0.131	15.042±0.138						
134	35.774376	57.298111	0.7	21.3±2.1	8.0±1.1	0.0±0.0	12.3	1	9.4	15.763±0.065	15.001±0.076	14.815±0.109						
135	35.788376	57.086418	0.8	8.2±1.0	2.4±0.5	3.7±0.6	9.5	0										
136	35.790375	57.170471	1.0	4.7±0.8	0.7±0.3	1.0±0.3	9.0	1	1.7	11.117±0.024	10.837±0.028	10.798±0.025	N					



XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data			Count rates $10^{-3}$ cts s $^{-1}$			Dis ( $'$ )	N	Off ( $'$ )	2MASS NIR data				Mem	Mass ( $M_{\odot}$ )	Remark
			Err ( $'$ )	PN	MOS1	MOS2	MOS1	MOS2				J (mag)	H (mag)	$K_s$ (mag)				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
137	35.803707	57.122444	1.6	2.4±0.6	0.6±0.3	0.6±0.3	0.6±0.3	9.4	3	2.0	14.626±0.065	14.118±0.057	13.995±0.070	Y	<2.0	F9(Cu10)		
138	35.820457	57.222500	1.2	8.1±1.3	1.3±0.5	1.3±0.4	1.3±0.4	10.8	1	4.1	14.179±0.026	13.569±0.032	13.470±0.040	Y	<2.0			
139	35.823917	57.065140	0.8	5.2±0.9	1.7±0.4	1.9±0.5	1.1	1	2.6	10.466±0.023	10.064±0.028	9.953±0.022						
140	35.824501	57.207138	1.3	10.5±2.0	0.3±0.4	0.2±0.2	10.6	0										
141	35.824623	57.303501	1.5	5.8±1.3	0.0±0.0	0.0±0.0	13.7	1	8.0	13.948±0.045	13.860±0.067	13.521±0.060						
142	35.860207	57.074001	1.1	3.2±0.9	1.4±0.5	2.2±0.6	12.0	0										
143	35.862625	57.043999	2.2	2.6±0.7	0.3±0.3	0.4±0.3	12.8	1	3.4	10.573±0.023	10.303±0.030	10.209±0.022						
144	35.864456	57.145668	1.3	8.4±1.7	2.1±0.6	1.9±0.5	11.3	0										
145	35.905540	57.080750	1.6	17.0±2.2	2.8±0.8	0.0±0.0	13.2	0										
146	35.907539	57.120499	1.6	3.7±1.0	1.6±0.6	0.0±0.3	12.8	0										
147	35.930664	57.068333	2.2	3.2±0.9	1.1±0.6	0.0±0.0	14.2	2	3.0	14.783±0.039	14.064±0.043	13.813±0.049						
<b>NGC 7380</b>																		
1	341.389679	58.058556	1.1	6.0±1.1	1.6±0.5	2.1±0.6	18.1	2	1.0	16.521±0.113	15.727±0.157	15.468±0.216						
2	341.433533	58.044334	1.4	1.7±0.6	0.4±0.3	1.1±0.4	17.0	0										
3	341.439209	58.103695	1.1	5.3±1.0	1.8±0.5	2.4±0.6	16.2	0										
4	341.444122	58.122555	1.0	7.4±1.3	2.4±0.6	1.8±0.5	16.0	2	6.2	15.516±0.056	14.737±0.070	14.271±0.072						
5	341.463562	57.967972	1.8	1.6±0.7	0.9±0.3	0.7±0.3	17.9	2	2.1	14.931±0.057	14.296±0.052	14.189±0.080						
6	341.473450	58.251972	1.6	3.8±1.2	0.4±0.4	2.1±0.7	17.0	1	4.2	13.691±0.032	13.125±0.033	12.801±0.029						
7	341.477051	58.152889	2.0	3.2±0.8	0.9±0.9	1.1±0.4	15.1	1	5.7	15.415±0.044	14.806±0.062	15.011±0.139						
8	341.505341	58.084332	1.3	1.9±0.6	1.5±0.4	1.1±0.4	14.2	1	9.2	15.870±0.083	15.285±0.097	15.269±0.174						
9	341.521973	58.071693	0.2	76.4±2.8	19.8±1.2	21.9±1.3	13.8	1	1.6	6.663±0.018	6.529±0.049	6.467±0.020						
10	341.533966	58.068584	0.3	144.8±3.5	34.7±1.5	38.5±1.6	13.5	1	4.7	7.484±0.019	7.226±0.057	7.156±0.020						
11	341.545898	58.183277	1.4	2.7±0.8	0.9±0.4	1.1±0.4	13.3	3	5.6	16.332±0.127	15.645±0.156	15.208±0.188						
12	341.554321	58.113361	1.5	2.5±0.6	0.9±0.3	1.0±0.3	12.5	0										
13	341.567413	57.891251	1.3	3.1±1.1	2.5±0.6	2.5±0.6	18.3	2	4.8	14.480±0.035	13.798±0.047	13.624±0.062						
14	341.579803	58.173248	1.2	3.5±0.8	0.9±0.3	0.8±0.4	12.1	1	1.8	9.663±0.024	9.395±0.029	9.356±0.020						

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data					Mem	Mass ( $M_{\odot}$ )	Remark
			Err (")	PN	Count rates $10^{-3}$ cts s $^{-1}$		Dis (')	N	Off (")	J (mag)	H (mag)	$K_s$ (mag)			
					MOS1	MOS2									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
15	341.594696	57.953194	0.6	17.3±2.1	6.0±0.7	6.8±0.8	15.1	1	8.1	15.400±0.049	14.809±0.064	14.444±0.081			
16	341.603271	57.992805	1.5	1.9±0.5	0.8±0.3	0.8±0.3	13.4	3	0.4	15.264±0.062	14.670±0.073	14.542±0.108			
17	341.606293	58.124306	1.6	3.8±1.2	0.4±0.2	0.3±0.3	10.8	0							
18	341.608490	58.012196	0.5	13.6±1.2	5.6±0.6	5.1±0.6	12.6	1	1.4	15.512±0.062	15.083±0.071	15.034±0.145			
19	341.616882	58.007137	1.2	3.1±0.7	0.6±0.3	0.8±0.3	12.5	1	1.5	13.157±0.032	12.689±0.039	12.633±0.035			
20	341.620911	57.994278	0.8	3.6±0.7	1.7±0.4	1.8±0.4	12.9	1	9.0	16.137±0.081	15.375±0.100	15.191±0.156			
21	341.623169	58.160946	0.9	5.9±0.9	2.4±0.5	1.9±0.6	10.6	0							
22	341.630951	58.117832	0.9	2.8±0.6	1.6±0.4	1.9±0.4	10.1	1	7.8	14.912±0.043	14.602±0.057	14.459±0.106			
23	341.643768	57.996445	1.4	3.6±0.8	1.0±0.3	0.3±0.3	12.2	2	7.3	16.367±0.158	15.427±0.141	14.614±0.168			
24	341.647614	58.000252	1.5	2.3±0.6	0.6±0.3	0.6±0.3	12.0	2	2.6	14.835±0.052	13.881±0.043	13.510±0.050			
25	341.649048	57.853168	3.1	0.0±0.0	0.0±0.0	3.1±0.7	18.7	1	6.0	16.011±0.074	15.449±0.115	15.540±0.253			
26	341.652740	57.948776	1.3	2.6±0.8	2.1±0.7	1.0±0.4	14.0	0							
27	341.653412	58.065109	1.5	4.2±1.2	0.5±0.2	0.6±0.2	9.9	0							
28	341.656677	57.993195	1.4	1.3±0.4	0.5±0.3	1.1±0.3	12.0	2	1.4	13.617±0.021	13.035±0.027	12.942±0.024			
29	341.658478	58.188137	2.1	1.4±0.5	0.4±0.3	0.9±0.3	10.0	1	1.3	14.164±0.044	13.701±0.053	13.609±0.054			
30	341.658600	58.006748	1.1	2.7±0.6	0.8±0.3	1.4±0.3	11.5	0							
31	341.662323	58.281250	0.6	24.1±2.3	8.6±1.1	7.8±1.1	13.2	1	9.6	15.958±0.084	15.449±0.101	15.074±0.145			
32	341.667358	58.295502	1.4	4.7±1.2	1.8±0.6	2.5±0.7	13.7	1	0.6	8.251±0.037	8.159±0.034	8.075±0.021			
33	341.685883	58.197277	1.5	2.4±0.7	0.6±0.4	1.1±0.4	9.5	1	8.9	15.201±0.058	14.764±0.063	14.775±0.120			
34	341.702698	58.133194	1.4	1.8±0.6	0.9±0.4	0.3±0.2	7.8	4	3.6	13.526±0.026	12.825±0.033	12.604±0.026	Y	<2.0	
35	341.723480	58.168083	1.6	4.3±1.6	0.8±0.3	0.2±0.2	7.7	1	1.9	14.671±0.035	13.933±0.040	13.747±0.046	Y	<2.0	
36	341.725433	58.084110	0.1	174.8±3.5	54.1±1.6	58.7±1.7	7.4	1	0.6	7.741±0.027	7.718±0.055	7.682±0.016	Y	>10	O5;DHcep(Sk07)
37	341.726532	58.134724	1.3	1.9±0.6	0.7±0.3	1.1±0.3	7.1	1	2.0	14.405±0.033	13.582±0.039	13.300±0.045	Y	<2.0	
38	341.742920	57.962502	1.7	2.4±0.7	1.3±0.4	0.1±0.2	11.5	2	2.5	15.549±0.073	14.940±0.082	14.645±0.119			
39	341.742920	58.022530	0.6	8.3±0.9	3.2±0.5	3.5±0.5	8.8	2	3.3	16.126±0.110	15.349±0.111	15.241±0.175			
40	341.743073	58.007500	1.2	2.0±0.6	1.6±0.4	1.1±0.3	9.4	1	7.3	15.172±0.048	14.707±0.058	14.302±0.070			
41	341.744690	58.076694	1.9	2.1±0.6	0.7±0.3	0.4±0.2	7.0	2	2.4	14.805±0.033	14.079±0.039	13.786±0.051	Y	<2.0	

XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data							Mem	Mass ( $M_{\odot}$ )	Remark
			Err ('')	PN	Count rates $10^{-3}$ cts $s^{-1}$		Dis (')	N	Off ('')	J (mag)	H (mag)	K <sub>s</sub> (mag)					
					MOS1	MOS2											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
42	341.744781	58.102749	0.4	10.4±1.2	4.7±0.5	5.1±0.6	6.5	1	3.2	12.845±0.041	12.038±0.039	11.859±0.036	N				
43	341.752136	58.002693	1.7	1.4±0.5	0.9±0.3	0.2±0.2	9.4	1	0.6	14.196±0.023	13.764±0.038	13.541±0.043					
44	341.759583	57.948723	1.9	0.8±0.6	1.6±0.4	0.3±0.2	11.9	2	6.3	14.182±0.033	13.689±0.039	13.649±0.050					
45	341.776550	58.181168	0.8	6.5±1.0	2.3±0.5	2.5±0.5	6.5	0									
46	341.776581	58.113888	1.6	1.5±1.2	0.5±0.3	1.1±0.3	5.5	2	8.4	15.153±0.040	14.348±0.052	14.133±0.065	Y	<2.0			
47	341.787018	57.909416	1.9	3.9±1.2	0.2±0.3	1.3±0.4	13.7	1	9.7	14.192±0.026	13.775±0.031	13.695±0.047					
48	341.801208	58.109417	1.1	3.3±0.7	1.2±0.3	0.7±0.3	4.7	1	1.1	14.196±0.034	13.604±0.038	13.471±0.042	Y	<2.0			
49	341.802856	58.191334	1.4	2.9±0.9	0.9±0.4	1.4±0.5	6.2	1	6.0	14.285±0.036	13.882±0.042	13.679±0.051	Y	<2.0			
50	341.816589	58.067890	1.4	3.0±0.7	0.6±0.2	1.1±0.3	5.2	2	2.4	14.164±0.029	13.631±0.033	13.464±0.038	Y	<2.0			
51	341.837982	58.088665	1.1	2.5±0.7	0.9±0.3	1.4±0.3	4.0	1	0.9	12.289±0.023	12.052±0.028	12.007±0.025	Y	10-2			
52	341.843384	58.022530	0.9	7.3±1.7	3.4±0.6	1.8±0.4	6.8	2	0.4	10.797±0.031	9.763±0.030	8.847±0.021	N				
53	341.844849	57.881474	0.7	0.0±0.0	7.4±1.0	7.1±1.0	14.7	1	5.3	13.724±0.024	13.331±0.033	13.191±0.038					
54	341.845276	58.058418	1.4	2.1±0.6	0.5±0.3	0.8±0.3	5.0	0									
55	341.860992	57.921555	1.3	5.2±1.1	1.9±0.6	2.0±0.7	12.3	0									
56	341.861816	58.029026	1.1	2.2±0.6	0.7±0.3	1.6±0.4	6.1	2	0.4	14.245±0.036	13.802±0.045	13.611±0.042	N		18%prob(F110)		
57	341.893982	58.138054	1.8	4.5±1.0	0.5±0.4	0.6±0.3	2.0	1	1.4	13.901±0.035	13.251±0.043	13.130±0.040	Y	<2.0	PMS(Ogu02)		
58	341.895844	57.971527	1.3	3.4±0.9	0.9±0.4	0.1±0.2	9.1	1	9.4	14.409±0.034	14.069±0.046	13.984±0.064					
59	341.896881	58.125500	0.8	8.3±1.2	2.5±0.5	4.2±0.6	1.6	3	0.7	12.720±0.092	12.741±0.037	12.457±0.031	Y	10-2	B1.5V(Sk07)		
60	341.899811	58.049862	1.0	3.0±0.7	1.5±0.4	1.6±0.4	4.5	1	2.6	15.340±0.061	14.494±0.063	14.299±0.085	Y	<2.0			
61	341.899902	58.298695	2.4	5.3±1.5	0.0±0.0	0.0±0.0	10.8	1	2.9	9.184±0.024	8.666±0.026	8.592±0.018					
62	341.900055	58.075222	0.8	5.3±0.9	0.9±0.3	1.3±0.4	3.1	3	2.4	13.794±0.051	13.115±0.056	12.893±0.046	Y	<2.0			
63	341.904358	58.063278	1.9	2.1±0.6	0.3±0.2	0.6±0.3	3.7	1	1.9	11.944±0.023	11.530±0.028	11.481±0.024	N				
64	341.915436	58.159195	0.8	7.9±1.2	3.9±0.7	4.1±0.7	2.5	0									
65	341.915924	58.099998	1.2	2.3±0.7	0.8±0.3	1.0±0.4	1.6	2	0.6	15.024±0.065	14.349±0.077	14.056±0.081	Y	<2.0			
66	341.915955	58.023472	0.7	9.5±1.2	3.0±0.7	2.7±0.8	5.9	2	5.4	14.099±0.031	13.223±0.036	12.859±0.034	Y	<2.0			
67	341.922455	58.148861	1.1	6.6±1.5	4.7±0.8	4.2±1.0	1.9	1	9.6	15.306±0.081	14.231±0.072	13.630±0.059	Y	<2.0			
68	341.923248	57.957695	0.8	7.7±1.2	3.0±0.6	3.0±0.6	9.8	1	2.6	14.242±0.035	12.987±0.032	12.273±0.028					

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data					Mem	Mass ( $M_{\odot}$ )	Remark	
			Err ( $''$ )	PN	Count rates $10^{-3}$ cts $s^{-1}$	MOS1	MOS2	Dis ( $''$ )	N	Off ( $''$ )	J (mag)	H (mag)				$K_s$ (mag)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
69	341.931458	58.129944	0.3	58.3±2.7	23.7±1.9	22.1±1.4	0.8	3	0.7	13.172±0.027	12.200±0.032	11.872±0.026	N			
70	341.939697	58.058472	3.5	3.4±0.9	0.4±0.4	3.1±1.4	3.7	2	6.1	14.721±0.064	13.833±0.056	13.548±0.051	Y	<2.0		
71	341.942963	58.184776	1.5	3.3±1.0	0.7±0.4	1.2±0.5	3.8	2	2.7	15.790±0.079	14.835±0.081	14.214±0.084	Y	<2.0		
72	341.943970	58.124500	0.8	10.5±1.4	3.2±0.7	3.5±0.7	3.3	1.5	12.257±0.026	11.183±0.031	10.604±0.024	N				
73	341.951050	58.065388	0.5	19.5±1.6	6.6±0.8	7.5±0.8	3.3	2	1.2	12.253±0.030	11.879±0.036	11.730±0.031	N			
74	341.953247	58.047668	1.7	2.0±0.8	0.6±0.3	1.7±0.5	4.4	1	4.9	11.868±0.032	10.879±0.045	9.829±0.034	N			
75	341.954926	58.076973	1.2	6.3±1.6	2.7±0.6	3.0±0.6	2.6	2	0.4	11.335±0.023	10.962±0.027	10.792±0.021	N			
76	341.955017	58.269085	1.6	9.0±1.9	3.0±0.9	0.0±0.0	8.9	1	4.0	15.966±0.081	15.421±0.105	15.026±0.143	Y	>10	O8V((f)/(Sk07)	
77	341.960358	58.087166	1.1	6.3±1.1	1.3±0.5	1.8±0.5	2.1	5	1.7	9.559±0.023	9.439±0.030	9.375±0.021	Y			
78	341.963165	58.201473	0.8	10.5±1.6	5.4±0.9	4.6±0.8	4.9	2	4.2	16.333±0.113	15.601±0.121	15.306±0.185	N			
79	341.976776	58.169472	1.3	3.9±1.1	2.1±0.7	2.0±0.6	3.1	1	2.1	14.398±0.034	13.692±0.041	13.367±0.044	Y	<2.0	19%prob(F110)	
80	341.979767	58.056499	1.2	3.5±0.9	1.7±0.5	1.8±0.5	4.0	3	1.0	15.296±0.071	14.143±0.064	13.626±0.064	N			
81	341.993317	57.967667	1.4	4.2±1.1	1.5±0.6	1.2±0.4	9.3	1	2.7	14.094±0.031	13.277±0.033	13.010±0.035	Y			
82	342.001831	58.044971	1.9	2.7±0.9	1.2±0.5	1.2±0.6	4.9	1	1.8	14.510±0.052	13.410±0.050	12.987±0.051	Y	<2.0	PMS(Ogu02)	
83	342.017853	58.068554	2.4	2.3±0.8	1.5±0.5	0.1±0.2	3.8	1	1.2	14.814±0.041	13.784±0.043	13.403±0.037	Y	<2.0		
84	342.027985	58.078030	0.8	47.8±2.7	18.9±1.5	20.9±1.5	3.6	3	3.4	13.978±0.062	12.636±0.062	11.651±0.039	N			
85	342.028168	58.075195	1.0	6.5±1.9	3.6±1.1	2.9±1.0	3.7	2	2.1	14.413±0.035	13.420±0.031	13.128±0.040	Y	<2.0	PMS(Ike08)	
86	342.129547	58.147583	1.5	3.7±1.4	2.4±0.8	2.3±0.8	6.0	1	7.4	13.542±0.025	12.856±0.030	12.691±0.029	Y	<2.0		
87	342.174500	57.998360	1.8	8.6±2.3	0.0±0.0	0.0±0.0	10.3	1	9.5	14.607±0.035	13.848±0.037	13.646±0.047	Y			
88	342.222961	58.102390	1.9	8.2±1.9	0.0±0.0	0.0±0.0	8.8	2	4.1	14.057±0.026	13.120±0.029	12.836±0.022	Y			

  

Berkeley 86															
1	304.604065	38.697166	1.8	0.0±0.0	2.6±0.8	1.6±0.7	22.9	2	2.3	10.259±0.037	9.845±0.033	9.728±0.014			
2	304.629761	38.855610	1.6	0.0±0.0	3.6±0.9	2.0±1.2	23.5	1	1.5	16.650±0.166	14.761±0.081	13.593±0.054			
3	304.652832	38.681915	0.5	36.3±2.7	11.6±1.3	11.9±1.3	20.6	1	1.7	11.157±0.020	10.474±0.018	10.295±0.016			
4	304.658936	38.828335	1.4	4.5±1.2	0.6±0.4	2.0±0.7	21.6	2	1.4	13.900±0.027	13.287±0.034	13.092±0.035			
5	304.672791	38.678333	2.3	4.5±1.3	4.3±0.9	4.1±0.9	19.7	2	6.5	10.613±0.024	10.524±0.036	10.417±0.020			

XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data										Mem ( $M_{\odot}$ )	Mass	Remark
			Err ( $''$ )	PN	Count rates $10^{-3}$ cts $s^{-1}$		Dis ( $'$ )	N	Off ( $''$ )	J (mag)	H (mag)	K <sub>s</sub> (mag)	13	14	15	16				
					MOS1	MOS2											6			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16					
6	304.675293	38.692780	1.2	3.4±0.9	2.2±0.6	1.4±0.5	19.5	0												
7	304.694153	38.718304	1.0	8.0±1.4	2.6±0.6	1.6±0.5	18.7	2	5.8	14.161±0.050	12.849±0.040	12.378±0.031								
8	304.702301	38.701389	1.0	4.3±0.9	1.1±0.4	1.3±0.5	18.3	1	3.0	13.378±0.028	12.954±0.041	12.887±0.040								
9	304.703125	38.591141	1.8	4.4±1.2	0.8±0.5	0.8±0.5	19.4	2	2.8	14.141±0.040	13.248±0.044	12.952±0.031								
10	304.703735	38.832500	1.4	5.7±1.3	0.8±0.5	0.3±0.4	19.8	2	6.9	15.630±0.062	15.022±0.071	14.790±0.096								
11	304.712372	38.653778	1.5	1.5±0.7	0.8±0.4	2.1±0.6	18.0	1	3.0	15.568±0.069	14.359±0.050	14.024±0.051								
12	304.718384	38.670277	1.3	2.4±0.8	0.7±0.4	1.1±0.4	17.6	1	5.1	16.207±0.107	15.583±0.124	15.019±0.123								
13	304.719910	38.598610	1.7	2.2±1.0	2.5±0.7	2.3±0.6	18.5	1	6.4	16.035±0.091	15.426±0.127	14.833±0.111								
14	304.736786	38.829971	1.6	2.7±0.9	0.6±0.4	1.2±0.5	18.3	3	4.1	14.019±0.043	12.955±0.041	12.497±0.056								
15	304.747223	38.715443	0.7	9.6±1.2	5.6±0.9	5.4±0.8	16.2	3	2.6	13.178±0.044	12.457±0.057	12.212±0.048								
16	304.756500	38.887028	0.9	11.4±1.7	3.2±0.8	2.7±0.8	19.2	4	1.1	12.717±0.046	12.232±0.036	12.062±0.027								
17	304.773315	38.942554	1.7	6.2±1.6	3.0±1.0	2.5±1.0	20.7	1	8.5	16.672±0.168	15.682±0.145	15.325±0.165								
18	304.774231	38.884277	2.2	3.1±1.1	1.4±0.5	0.7±0.5	18.5	2	2.7	11.546±0.023	11.243±0.030	11.174±0.020								
19	304.784363	38.578888	1.0	5.9±1.3	3.0±0.7	2.1±0.5	16.2	2	1.9	10.933±0.024	10.741±0.032	10.678±0.024								
20	304.789001	38.690029	1.4	2.7±0.7	0.8±0.3	0.2±0.2	14.2	4	0.8	14.607±0.046	14.043±0.046	13.945±0.049								
21	304.795074	38.834694	1.5	4.1±1.0	1.9±0.5	2.4±0.6	16.0	2	2.9	12.950±0.033	12.268±0.036	11.834±0.030								
22	304.799500	38.707695	1.6	2.2±0.7	0.3±0.2	0.7±0.3	13.7	3	0.9	14.497±0.035	13.683±0.032	13.334±0.031								
23	304.801178	38.668362	0.6	11.4±1.2	3.5±0.6	5.2±0.7	13.8	2	1.4	10.887±0.028	10.590±0.035	10.590±0.028								
24	304.801636	38.680195	0.6	12.2±1.2	4.0±0.6	5.7±0.7	13.7	3	1.7	13.763±0.049	13.265±0.060	13.006±0.059								
25	304.812927	38.630474	1.7	1.2±0.6	1.5±0.5	0.8±0.4	13.8	2	4.9	13.940±0.026	12.549±0.030	12.116±0.026								
26	304.819153	38.836529	1.6	3.4±0.9	1.2±0.4	0.7±0.4	15.1	3	3.7	15.740±0.101	15.317±0.103	14.733±0.106								
27	304.819458	38.727859	0.9	6.4±1.0	0.7±0.3	1.4±0.4	12.9	2	1.4	12.900±0.023	12.278±0.030	12.060±0.020								
28	304.828094	38.765057	1.7	1.8±0.6	0.6±0.3	0.8±0.3	12.9	0												
29	304.828918	38.696194	1.6	3.3±1.0	0.5±0.3	0.4±0.2	12.3	1	9.9	14.815±0.046	13.584±0.042	13.110±0.035								
30	304.835083	38.730221	1.9	2.3±0.7	0.7±0.3	0.7±0.3	12.1	1	7.6	15.117±0.053	14.101±0.053	13.922±0.067								
31	304.836060	38.764889	1.7	1.1±0.5	1.4±0.4	0.5±0.3	12.6	1	9.1	15.487±0.061	15.028±0.092	14.510±0.112								
32	304.837402	38.860249	1.8	2.1±0.8	1.2±0.5	1.1±0.5	15.2	1	4.1	14.906±0.036	14.214±0.040	14.048±0.075								
33	304.844910	38.639721	1.6	2.4±0.9	1.2±0.4	0.7±0.3	12.2	2	2.6	13.396±0.031	12.435±0.028	11.820±0.021								

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data				2MASS NIR data										Mem	Mass ( $M_{\odot}$ )	Remark
			Err (")	PN	Count rates $10^{-3}$ cts $s^{-1}$		Dis (')	N	Off (")	J (mag)	H (mag)	K <sub>s</sub> (mag)	13	14	15	16			
					MOS1	MOS2													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
34	304.845245	38.715000	0.8	5.9±0.9	2.9±0.5	2.0±0.4	11.6	1	4.8	13.888±0.030	13.198±0.034	12.973±0.036							
35	304.847717	38.707722	1.6	2.5±0.6	0.5±0.3	0.7±0.3	11.4	2	5.8	15.670±0.070	14.761±0.074	14.715±0.134							
36	304.853607	38.811863	1.4	2.0±0.6	1.0±0.4	1.0±0.4	13.0	2	1.1	14.389±0.032	13.600±0.032	13.443±0.046							
37	304.854065	38.819637	1.6	4.1±1.0	1.0±0.4	3.0±1.3	13.2	3	2.5	15.183±0.055	14.073±0.052	13.715±0.057							
38	304.857147	38.739582	1.5	5.2±1.0	0.9±0.3	0.8±0.3	11.2	2	1.3	14.221±0.038	13.514±0.043	13.258±0.044							
39	304.864807	38.606083	0.9	7.5±1.1	1.2±0.4	2.7±0.6	12.1	2	2.2	11.355±0.025	11.093±0.020	11.014±0.017							
40	304.870636	38.767887	0.8	7.5±1.1	1.5±0.4	2.5±0.5	11.1	1	1.5	13.951±0.029	13.477±0.031	13.268±0.042							
41	304.872223	38.666752	1.1	3.0±0.7	1.4±0.4	0.8±0.3	10.5	2	1.4	11.170±0.024	10.796±0.017	10.707±0.014							
42	304.872742	38.659248	1.0	3.8±0.8	1.5±0.4	1.3±0.4	10.6	1	3.4	11.497±0.024	11.226±0.018	11.178±0.014							
43	304.878998	38.903137	1.1	10.4±1.6	2.3±0.7	3.0±0.8	15.6	2	2.1	12.600±0.022	11.990±0.020	11.749±0.017							
44	304.881317	38.827026	2.1	1.5±0.6	1.0±0.4	0.6±0.3	12.4	0											
45	304.885040	38.732166	0.1	324.1±5.4	113.4±2.7	116.6±2.8	9.9	1	1.7	6.697±0.026	6.520±0.038	6.327±0.020							
46	304.896545	38.647278	1.7	2.0±0.7	0.8±0.3	0.4±0.2	9.7	1	3.9	13.245±0.026	12.785±0.024	12.610±0.028							
47	304.897400	38.923168	1.8	2.8±1.2	1.9±0.8	3.7±0.9	16.1	2	1.9	11.281±0.021	10.442±0.018	10.184±0.014							
48	304.897614	38.720860	0.9	5.3±0.9	1.7±0.5	1.7±0.4	9.2	3	3.5	13.552±0.034	12.748±0.037	12.427±0.024							
49	304.899292	38.745972	2.2	5.1±1.1	0.4±0.3	0.7±0.3	9.4	1	0.9	16.276±0.116	15.304±0.119	15.104±0.196							
50	304.904877	38.938084	1.6	6.5±1.6	2.7±0.8	2.7±0.9	16.6	2	1.5	12.127±0.024	11.619±0.024	11.438±0.018							
51	304.916687	38.773556	1.3	7.3±1.8	0.9±0.3	0.7±0.3	9.3	0											
52	304.931580	38.609859	1.2	3.1±0.9	1.6±0.5	1.2±0.4	9.3	1	2.2	14.278±0.030	13.429±0.030	13.035±0.035							
53	304.932251	38.588722	1.5	2.9±0.9	1.4±0.5	0.8±0.4	10.1	2	0.9	15.679±0.069	14.881±0.087	14.558±0.114							
54	304.935333	38.699501	3.5	5.9±1.6	4.0±0.7	3.2±0.6	7.3	1	7.0	14.570±0.039	13.933±0.227	13.963±0.075							
55	304.938202	38.957638	2.9	5.6±1.7	3.9±1.1	2.2±0.9	16.9	1	3.3	15.633±0.070	14.647±0.066	14.512±0.108							
56	304.941833	38.859554	0.5	22.6±2.0	6.6±0.9	8.9±1.1	11.8	2	2.0	11.388±0.022	10.928±0.017	10.863±0.016							
57	304.947601	38.597000	1.2	5.8±1.1	2.0±0.5	2.1±0.6	9.2	1	4.4	7.447±0.023	7.251±0.021	7.152±0.020							
58	304.955841	38.792610	1.1	3.8±0.9	1.4±0.5	1.0±0.4	8.4	1	0.9	13.371±0.024	12.640±0.024	12.427±0.023							
59	304.959869	38.657112	1.6	2.0±0.7	1.0±0.4	1.3±0.4	6.8	1	1.9	13.478±0.028	12.493±0.023	12.124±0.021							
60	304.960205	38.559696	1.4	4.2±1.3	1.6±0.6	2.0±0.6	10.5	1	0.7	16.036±0.090	15.011±0.080	14.902±0.156							

XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data				2MASS NIR data				Mem	Mass ( $M_{\odot}$ )	Remark		
			Err ( $''$ )	PN	Count rates $10^{-3}$ cts $s^{-1}$	Dis ( $'$ )	N	Off ( $''$ )	J (mag)	H (mag)				$K_s$ (mag)	
															MOS1
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
61	304.965363	38.760139	0.8	8.5 $\pm$ 1.2	3.2 $\pm$ 0.6	3.5 $\pm$ 0.6	6.9	1	8.6	14.907 $\pm$ 0.040	14.262 $\pm$ 0.045	14.032 $\pm$ 0.070			
62	304.968140	38.671780	0.6	14.2 $\pm$ 2.2	4.0 $\pm$ 0.7	4.1 $\pm$ 0.6	6.1	2	1.4	14.285 $\pm$ 0.033	13.600 $\pm$ 0.036	13.281 $\pm$ 0.044			
63	304.970642	38.682335	1.0	2.1 $\pm$ 0.7	1.9 $\pm$ 0.5	2.0 $\pm$ 0.5	5.8	3	2.3	13.150 $\pm$ 0.023	12.390 $\pm$ 0.023	12.126 $\pm$ 0.025			
64	304.972839	38.769890	1.9	1.8 $\pm$ 0.7	0.3 $\pm$ 0.2	1.1 $\pm$ 0.4	6.9	3	4.0	9.342 $\pm$ 0.022	8.729 $\pm$ 0.016	8.558 $\pm$ 0.021			
65	304.975311	38.711445	0.9	4.4 $\pm$ 0.9	0.8 $\pm$ 0.4	1.1 $\pm$ 0.3	5.5	3	5.6	16.048 $\pm$ 0.242	15.133 $\pm$ 0.150	14.884 $\pm$ 0.303			
66	304.978851	38.573807	1.1	7.3 $\pm$ 1.4	1.9 $\pm$ 0.6	1.5 $\pm$ 0.6	9.3	1	2.5	11.583 $\pm$ 0.022	10.605 $\pm$ 0.018	9.775 $\pm$ 0.021			
67	304.989197	38.874805	1.0	9.5 $\pm$ 1.6	3.0 $\pm$ 0.7	1.5 $\pm$ 0.6	11.4	1	1.6	8.162 $\pm$ 0.020	7.701 $\pm$ 0.021	7.584 $\pm$ 0.017			
68	304.998779	38.583527	0.6	22.8 $\pm$ 2.2	5.8 $\pm$ 1.0	6.3 $\pm$ 1.0	8.3	2	2.0	11.754 $\pm$ 0.021	11.472 $\pm$ 0.020	11.417 $\pm$ 0.024			
69	305.000916	38.529861	1.9	0.0 $\pm$ 0.0	2.4 $\pm$ 0.9	2.0 $\pm$ 0.7	11.2	1	6.1	15.364 $\pm$ 0.057	14.385 $\pm$ 0.053	14.141 $\pm$ 0.081			
70	305.011719	38.665890	1.7	2.5 $\pm$ 0.8	0.0 $\pm$ 0.3	1.1 $\pm$ 0.4	4.3	2	0.8	11.373 $\pm$ 0.022	11.129 $\pm$ 0.020	11.034 $\pm$ 0.022			
71	305.013824	38.810139	1.5	4.6 $\pm$ 1.3	1.4 $\pm$ 0.5	0.9 $\pm$ 0.4	7.4	1	1.4	8.701 $\pm$ 0.021	8.189 $\pm$ 0.024	8.044 $\pm$ 0.021			
72	305.030884	38.651138	1.7	3.1 $\pm$ 1.0	1.3 $\pm$ 0.5	2.0 $\pm$ 0.7	4.2	1	2.9	10.992 $\pm$ 0.022	10.785 $\pm$ 0.020	10.662 $\pm$ 0.021			
73	305.039734	38.658695	1.2	12.8 $\pm$ 2.7	3.4 $\pm$ 0.8	2.2 $\pm$ 0.7	3.6	2	1.1	7.976 $\pm$ 0.021	7.802 $\pm$ 0.026	7.648 $\pm$ 9.995			
74	305.040558	38.625557	1.0	6.7 $\pm$ 1.5	1.8 $\pm$ 0.6	4.7 $\pm$ 0.9	5.2	2	6.2	14.106 $\pm$ 0.046	13.317 $\pm$ 0.051	12.954 $\pm$ 0.046			
75	305.041687	38.721001	1.0	7.8 $\pm$ 1.3	2.0 $\pm$ 0.6	1.5 $\pm$ 0.5	2.6	2	3.9	12.776 $\pm$ 0.024	12.244 $\pm$ 0.026	12.026 $\pm$ 0.026	Y	<2.0	
76	305.044159	38.695137	2.6	2.3 $\pm$ 0.9	1.4 $\pm$ 0.6	1.4 $\pm$ 0.5	2.3	1	9.2	11.718 $\pm$ 0.022	11.483 $\pm$ 0.039	11.427 $\pm$ 0.023	Y	10-2	
77	305.052704	38.852360	1.1	6.7 $\pm$ 1.6	4.9 $\pm$ 1.0	2.7 $\pm$ 0.8	9.2	0							
78	305.063843	38.895473	1.6	5.7 $\pm$ 1.5	1.2 $\pm$ 0.7	1.4 $\pm$ 0.7	11.7	1	9.8	11.558 $\pm$ 0.024	11.342 $\pm$ 0.019	11.310 $\pm$ 0.018			
79	305.075000	38.680832	0.6	14.4 $\pm$ 1.8	6.2 $\pm$ 1.0	5.9 $\pm$ 1.0	1.5	1	2.7	12.371 $\pm$ 0.023	12.019 $\pm$ 0.021	11.929 $\pm$ 0.025	Y	10-2	
80	305.080078	38.666168	0.9	12.2 $\pm$ 1.7	3.0 $\pm$ 0.8	3.8 $\pm$ 0.8	2.2	1	1.8	9.295 $\pm$ 0.022	9.000 $\pm$ 0.017	8.954 $\pm$ 0.019	N		
81	305.080719	38.700722	1.6	4.6 $\pm$ 1.3	1.6 $\pm$ 0.7	1.1 $\pm$ 0.5	0.5	1	9.8	16.076 $\pm$ 0.102	14.907 $\pm$ 0.085	14.288 $\pm$ 0.107	Y	<2.0	
82	305.081665	38.601196	0.6	30.8 $\pm$ 2.8	9.4 $\pm$ 1.4	9.2 $\pm$ 1.3	6.1	2	8.1	13.619 $\pm$ 0.034	13.214 $\pm$ 0.036	12.991 $\pm$ 0.036	N		13%prob(F110)
83	305.083099	38.706554	1.4	9.9 $\pm$ 1.8	3.4 $\pm$ 0.9	3.3 $\pm$ 0.8	0.5	4	4.1	14.130 $\pm$ 0.024	13.368 $\pm$ 0.030	13.074 $\pm$ 0.042	N		
84	305.088989	38.687695	1.5	2.8 $\pm$ 1.1	1.8 $\pm$ 0.7	1.3 $\pm$ 0.6	0.9	1	1.0	12.925 $\pm$ 0.023	12.230 $\pm$ 0.023	12.025 $\pm$ 0.024	Y	<2.0	
85	305.089050	38.700668	0.9	14.8 $\pm$ 2.0	3.7 $\pm$ 0.9	4.2 $\pm$ 0.9	0.2	1	2.7	8.152 $\pm$ 0.018	7.972 $\pm$ 0.016	7.896 $\pm$ 0.019	Y	>10	O9:HD228989(Sk07)
86	305.090210	38.723862	1.4	5.3 $\pm$ 1.3	0.4 $\pm$ 0.5	2.6 $\pm$ 0.7	1.3	2	1.3	11.684 $\pm$ 0.023	10.942 $\pm$ 0.018	10.702 $\pm$ 0.022	N		
87	305.093140	38.573559	1.3	6.6 $\pm$ 1.7	2.8 $\pm$ 1.0	2.7 $\pm$ 0.9	7.6	0							
88	305.094666	38.637585	0.9	14.3 $\pm$ 2.0	3.0 $\pm$ 1.0	4.7 $\pm$ 1.0	3.9	2	2.2	10.121 $\pm$ 0.022	9.720 $\pm$ 0.020	9.444 $\pm$ 0.022			

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data			2MASS NIR data					Mem	Mass ( $M_{\odot}$ )	Remark		
			Err ( $''$ )	PN	Count rates $10^{-3}$ cts $s^{-1}$	Dis ( $''$ )	N	Off ( $''$ )	J (mag)	H (mag)				$K_s$ (mag)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
89	305.101929	38.700638	1.3	8.9±1.7	2.8±0.9	3.7±0.9	0.5	2	4.5	12.430±0.023	11.961±0.024	11.739±0.025	Y	<2.0	
90	305.111084	38.611221	0.7	22.4±2.6	12.3±1.7	0.0±1.4	5.5	2	2.3	13.438±0.027	12.843±0.027	12.590±0.033			
91	305.111237	38.788834	3.5	17.7±3.0	2.2±0.8	1.0±0.8	5.3	1	5.5	14.622±0.032	14.055±0.031	13.816±0.060			
92	305.117706	38.833668	1.3	4.7±1.4	1.4±0.8	2.7±0.9	8.0	3	1.3	15.079±0.062	14.437±0.075	14.237±0.085			
93	305.124420	38.665749	2.1	5.2±1.4	1.4±0.8	0.5±0.7	2.7	2	6.9	14.786±0.041	14.236±0.058	14.077±0.090	Y	<2.0	
94	305.152802	38.634972	2.7	6.2±1.7	2.0±0.9	0.0±0.0	4.9	3	4.1	14.897±0.045	14.425±0.060	14.051±0.071			
95	305.162903	38.771057	1.6	5.7±1.6	2.0±0.9	2.6±1.0	5.3	2	3.2	15.288±0.046	13.945±0.037	13.425±0.044			
95	305.162903	38.771057	1.6	5.7±1.6	2.0±0.9	2.6±1.0	5.3	2	3.2	15.288±0.046	13.945±0.037	13.425±0.044			
<b>IC 2602</b>															
1	160.138168	-64.316559	1.5	0.0±0.0	2.0±0.6	1.9±0.5	17.8	1	2.5	14.718±0.038	14.374±0.050	14.295±0.080	N		
2	160.175171	-64.353142	1.7	0.0±0.0	0.7±0.4	1.5±0.4	16.1	1	2.2	16.348±0.129	15.677±0.173	15.001±0.173			
3	160.229965	-64.381691	1.3	3.3±0.8	0.7±0.3	0.9±0.3	14.4	0							
4	160.234924	-64.481194	1.8	4.7±0.9	2.2±1.1	1.3±0.5	14.4	1	1.8	11.316±0.024	11.011±0.021	10.903±0.021	N		
5	160.241745	-64.315086	0.6	9.6±1.1	3.9±0.6	4.8±0.6	15.3	1	9.4	15.208±0.040	14.506±0.093	14.244±0.100	N		
6	160.249878	-64.334000	0.3	60.9±2.3	20.9±1.2	16.6±1.0	14.7	2	1.9	11.439±0.022	10.765±0.021	10.524±0.019	Y	<2.0	
7	160.294998	-64.363525	1.8	1.2±0.5	0.8±0.3	0.6±0.2	13.0	0							
8	160.297256	-64.528114	1.9	8.0±1.6	0.0±0.0	0.0±0.0	13.8	0							
9	160.303040	-64.385139	1.6	2.3±0.6	0.6±0.3	0.6±0.3	12.5	1	1.8	12.694±0.029	12.356±0.032	12.329±0.035	N		
10	160.304626	-64.340721	4.3	4.6±1.2	0.7±0.6	3.2±0.7	13.2	1	6.9	14.807±0.053	14.324±0.074	14.318±0.110			
11	160.321671	-64.528336	2.4	9.4±1.9	0.2±0.4	0.3±0.6	13.2	1	4.6	16.663±0.163	15.847±0.173	15.231±0.211			
12	160.322586	-64.517639	0.3	42.0±2.4	19.5±1.6	16.3±1.3	12.9	2	6.0	16.008±0.109	15.604±0.171	15.363±0.241			
13	160.326202	-64.229309	1.1	6.1±1.2	0.3±0.2	1.0±0.3	16.5	1	3.1	13.899±0.028	13.216±0.034	13.080±0.040	N		
14	160.329086	-64.290138	1.2	2.2±0.6	1.1±0.3	1.1±0.3	14.1	1	5.1	15.004±0.041	14.238±0.047	14.099±0.068	N		
15	160.332962	-64.433586	1.4	1.1±0.4	0.8±0.4	0.9±0.3	11.4	1	3.5	15.372±0.054	15.095±0.084	15.268±0.188			
16	160.361877	-64.339302	0.9	3.5±0.6	1.9±0.4	0.9±0.3	11.9	1	9.9	13.041±0.023	12.339±0.024	12.171±0.029	Y	<2.0	
17	160.376038	-64.374107	1.4	1.9±0.5	0.7±0.3	0.7±0.2	10.8	1	4.8	15.283±0.051	14.673±0.065	14.245±0.076	N		



XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data										Mem	Mass ( $M_{\odot}$ )	Remark	
			Err ('')	PN	Count rates $10^{-3}$ cts $s^{-1}$		Dis (')	N	Off ('')	J (mag)	H (mag)	K <sub>s</sub> (mag)	13	14	15	16					
					MOS1	MOS2											7				8
18	160.401337	-64.529274	2.3	6.7±1.6	0.1±0.3	0.5±0.5	11.5	2	3.6	11.173±0.020	10.983±0.023	10.939±0.023	N								
19	160.413162	-64.303780	1.2	4.2±0.9	1.2±0.3	0.8±0.2	11.9	0													
20	160.438507	-64.467941	0.2	81.8±2.5	25.6±1.3	21.2±1.3	9.1	2	1.0	10.968±0.022	10.336±0.026	10.163±0.020	Y							<2.0	
21	160.470581	-64.378830	2.0	2.2±0.6	0.3±0.2	0.3±0.2	8.4	0													
22	160.472046	-64.237053	1.1	3.0±0.6	1.6±0.4	1.3±0.3	13.7	0													
23	160.507172	-64.456360	1.6	3.3±0.9	0.6±0.3	0.2±0.2	7.2	1	7.3	11.890±0.023	11.814±0.027	11.838±0.030	N								
24	160.512878	-64.396774	0.4	13.1±0.9	5.2±0.5	3.8±0.4	7.0	1	3.5	15.190±0.059	14.855±0.081	14.599±0.119	N								
25	160.519714	-64.481140	1.2	2.1±0.6	1.6±0.4	0.8±0.3	7.4	2	2.0	15.493±0.065	15.096±0.090	14.784±0.128	N								
26	160.521667	-64.576920	1.8	7.3±1.2	0.0±0.0	1.9±0.9	11.2	1	3.6	13.441±0.025	12.847±0.025	12.627±0.028	N								
27	160.522629	-64.226448	1.0	3.7±0.6	1.5±0.3	1.4±0.3	13.6	2	2.3	14.388±0.028	13.600±0.031	13.406±0.040	N								
28	160.526199	-64.275192	1.3	1.7±0.4	0.9±0.2	0.2±0.2	11.1	1	7.6	14.852±0.035	14.337±0.044	14.241±0.079	N								
29	160.546371	-64.272469	1.2	2.3±0.4	0.4±0.2	0.7±0.2	10.9	1	1.8	14.315±0.048	13.940±0.056	13.774±0.069	N								
30	160.549576	-64.152252	2.0	0.0±0.0	1.0±0.4	0.9±0.3	17.4	2	9.0	9.157±0.024	8.495±0.033	8.285±0.026	N								
31	160.552246	-64.230782	2.1	5.2±1.1	0.2±0.2	0.6±0.2	13.0	2	8.2	13.616±0.033	13.226±0.035	13.176±0.048	N								
32	160.557251	-64.509781	1.7	2.0±0.6	0.7±0.3	0.8±0.4	7.6	1	9.7	15.023±0.060	14.525±0.065	14.727±0.146	N								
33	160.573547	-64.347778	1.1	1.2±0.3	0.3±0.2	0.8±0.2	7.0	0													
34	160.576874	-64.279282	1.0	2.2±0.5	1.0±0.2	1.2±0.3	10.1	1	6.4	15.416±0.074	14.632±0.081	14.801±0.152	N								
35	160.586166	-64.361305	2.6	0.8±0.4	0.6±0.2	0.4±0.2	6.2	2	5.3	13.180±0.024	12.819±0.027	12.722±0.029	N								
36	160.612991	-64.320251	1.1	3.1±0.5	0.4±0.2	0.6±0.2	7.6	0													
37	160.613037	-64.361526	0.6	6.2±0.6	2.3±0.3	2.5±0.3	5.7	2	1.3	13.304±0.036	12.707±0.034	12.445±0.034	N								
38	160.621704	-64.424614	0.7	2.6±0.5	1.4±0.3	0.9±0.3	4.0	1	8.0	15.712±0.078	15.280±0.109	15.109±0.177	N								
39	160.628174	-64.150665	0.7	12.4±1.3	3.0±0.5	3.7±0.6	16.9	1	8.5	16.264±0.102	15.424±0.119	15.441±0.237	N								
40	160.630753	-64.552780	1.7	2.9±0.8	1.7±0.5	0.5±0.4	8.5	1	9.1	13.683±0.028	13.297±0.034	13.182±0.040	N								
41	160.630783	-64.336113	1.5	1.4±0.4	0.3±0.2	0.9±0.2	6.5	2	6.6	15.621±0.074	15.068±0.108	14.721±0.128	N								
42	160.632965	-64.250946	1.7	1.4±0.4	0.6±0.2	0.2±0.2	11.1	1	5.4	13.391±0.024	12.988±0.027	12.915±0.033	N								
43	160.640656	-64.469643	1.8	0.7±0.3	0.9±0.3	0.8±0.3	4.4	0													
44	160.643341	-64.306580	1.5	1.6±0.7	0.7±0.2	0.2±0.2	7.9	1	3.1	14.705±0.041	14.005±0.042	13.792±0.068	N								

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	Err ( $''$ )	X-ray data				2MASS NIR data							Mem Mass ( $M_{\odot}$ )	Remark
				PN	Count rates $10^{-3}$ cts $s^{-1}$	MOS1	MOS2	Dis ( $'$ )	N Off ( $''$ )	J (mag)	H (mag)	$K_s$ (mag)				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
45	160.660080	-64.134583	1.0	0.0±0.0	4.4±0.6	4.4±0.6	17.7	0								
46	160.661423	-64.207970	0.8	3.8±0.6	1.4±0.3	0.9±0.3	13.4	0								
47	160.667084	-64.490753	0.6	15.0±1.2	4.7±0.7	5.6±0.7	4.8	2	8.4	15.200±0.045	14.780±0.066	14.683±0.125				
48	160.672791	-64.351387	0.1	500.4±4.5	139.3±2.1	141.5±2.2	5.1	3	0.7	9.295±0.024	8.920±0.025	8.840±0.023	Y	<2.0	G0(Glebocki05)	
49	160.680252	-64.251442	1.2	2.6±0.4	0.6±0.2	0.6±0.3	10.7	1	1.0	13.376±0.024	12.945±0.030	12.839±0.035	N			
50	160.681671	-64.151665	2.1	0.0±0.0	1.2±0.4	1.5±0.4	16.6	1	4.0	15.492±0.097	14.704±0.101	13.979±0.085	N		1%prob(F110)	
51	160.698074	-64.297806	13.1	2.5±0.6	0.0±0.1	0.0±0.1	7.9	0	7.3	15.068±0.056	14.487±0.058	14.222±0.088	N			
52	160.698502	-64.335747	1.3	3.0±0.7	0.0±0.1	0.3±0.2	5.7	1	0.5	12.845±0.024	12.179±0.025	11.969±0.026	Y	<2.0		
53	160.709412	-64.314026	0.6	4.2±0.6	1.7±0.3	1.7±0.3	6.9	0	4.6	14.036±0.054	13.396±0.050	13.179±0.051	N			
54	160.710419	-64.364891	0.6	6.2±0.7	1.7±0.3	1.5±0.3	4.0	2	0.5	12.845±0.024	12.179±0.025	11.969±0.026	Y	<2.0		
55	160.715698	-64.283775	1.0	2.3±0.4	1.0±0.2	0.6±0.2	8.6	3	6.4	14.749±0.048	14.167±0.051	13.877±0.065	N			
56	160.716873	-64.320892	0.6	5.6±0.6	2.1±0.4	3.0±0.4	6.4	1	6.4	14.749±0.048	14.167±0.051	13.877±0.065	N			
57	160.738876	-64.394608	0.0	1197.0±8.4	287.4±3.2	288.5±3.2	2.0	0	5.3	13.503±0.024	12.732±0.024	12.580±0.027	N			
58	160.748627	-64.266724	0.7	3.8±0.5	1.1±0.3	1.7±0.3	9.5	2	0.5	13.503±0.024	12.732±0.024	12.580±0.027	N			
59	160.749207	-64.469139	0.9	3.9±0.6	1.0±0.3	1.2±0.3	2.7	1	0.5	13.114±0.031	12.654±0.032	12.546±0.035	N			
60	160.757751	-64.198753	0.7	8.1±0.9	3.6±0.5	3.3±0.5	13.6	1	3.1	10.760±0.023	10.568±0.025	10.492±0.025	N			
61	160.760834	-64.489754	3.4	1.2±0.5	1.1±0.4	0.4±0.3	3.9	1	4.4	14.857±0.037	14.237±0.059	13.768±0.063	N			
62	160.780121	-64.231499	1.4	2.8±0.8	1.0±0.3	1.0±0.3	11.6	0								
63	160.799881	-64.455750	1.7	1.6±0.6	0.9±0.3	0.3±0.2	2.0	0								
64	160.800705	-64.546890	1.1	6.4±1.1	3.0±0.7	3.0±0.6	7.3	0								
65	160.807999	-64.375664	0.2	74.2±2.0	27.1±1.0	25.4±1.0	3.1	1	1.3	16.425±0.146	15.787±0.170	14.661±0.137	Y	<2.0		
66	160.815125	-64.398415	0.3	25.5±1.3	7.3±0.6	7.1±0.6	1.9	2	0.5	9.510±0.023	9.211±0.025	9.140±0.023	Y	<2.0		
67	160.844925	-64.486832	0.5	19.2±1.4	4.8±0.6	5.8±0.7	4.1	2	1.5	12.301±0.023	11.662±0.022	11.390±0.023	Y	<2.0		
68	160.848495	-64.497307	1.6	1.8±0.6	1.1±0.4	0.6±0.3	4.7	1	0.3	14.488±0.026	13.917±0.031	13.778±0.053	N			
69	160.855377	-64.248558	1.3	1.1±0.4	0.6±0.2	0.8±0.3	10.8	1	5.1	15.729±0.097	15.679±0.174	15.001±0.167	N			
70	160.860123	-64.369637	1.0	2.8±0.5	0.5±0.2	0.8±0.2	4.0	1	1.8	13.352±0.028	12.748±0.028	12.583±0.027	N			
71	160.864670	-64.269196	1.2	2.8±0.5	0.7±0.2	0.4±0.2	9.6	1	5.7	16.228±0.112	15.700±0.164	15.205±0.187	N			
72	160.900085	-64.329559	0.7	5.1±0.6	2.5±0.4	2.0±0.4	6.6	0								

XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data			Count rates $10^{-3}$ cts s $^{-1}$				2MASS NIR data				Mem	Mass ( $M_{\odot}$ )	Remark
			Err ( $''$ )	PN	MOS1	MOS2	Dis ( $'$ )	$N$	Off ( $''$ )	$J$ (mag)	$H$ (mag)	$K_s$ (mag)	14			
73	160.901413	-64.2226608	1.8	2.0±0.5	0.4±0.2	0.3±0.2	12.4	3	7.3	15.627±0.085	15.271±0.111	14.960±0.165				
74	160.908417	-64.271751	0.6	9.8±0.9	3.2±0.5	3.9±0.5	9.8	4	4.6	14.854±0.036	14.319±0.046	14.227±0.083	N			
75	160.908844	-64.462387	1.5	2.4±0.7	1.2±0.4	0.7±0.3	4.1	2	0.6	14.111±0.021	13.405±0.024	13.241±0.030	N			
76	160.910034	-64.169670	1.2	2.4±0.7	1.1±0.4	1.1±0.4	15.7	2	2.8	14.447±0.053	13.874±0.057	13.763±0.067	N			
77	160.913284	-64.232697	1.5	5.5±1.2	0.4±0.2	0.3±0.3	12.1	1	2.8	14.787±0.042	14.313±0.051	14.111±0.070	N			
78	160.915543	-64.242058	1.9	1.7±0.5	0.4±0.2	0.6±0.3	11.6	1	1.7	15.020±0.046	14.216±0.050	14.130±0.081	N			
79	160.929794	-64.422386	1.2	1.3±0.5	1.2±0.3	1.5±0.4	4.0	1	10.0	14.170±0.029	13.698±0.039	13.766±0.063	N			
80	160.958618	-64.272499	1.9	1.6±0.5	0.2±0.2	0.8±0.3	10.3	2	6.7	14.918±0.124	14.573±0.083	14.507±0.131				
81	160.965088	-64.319054	1.1	1.8±0.5	1.2±0.3	1.1±0.4	8.1	1	9.4	15.238±0.050	14.541±0.049	14.364±0.100				
82	160.970505	-64.289001	1.7	1.8±0.5	0.6±0.3	0.6±0.3	9.6	0								
83	160.988586	-64.409332	1.4	3.3±0.7	1.2±0.4	1.0±0.4	5.6	0								
84	160.994995	-64.432610	0.3	42.0±2.0	13.4±1.0	11.2±0.9	5.7	1	1.4	12.543±0.023	11.924±0.025	11.697±0.025	N			3%prob(FI10)
85	161.029831	-64.532669	1.9	7.7±1.8	0.0±0.0	0.0±0.0	9.2	1	4.3	14.230±0.030	13.806±0.040	13.614±0.050	N			
86	161.040283	-64.282143	1.7	1.0±0.4	0.9±0.3	0.7±0.3	11.0	1	2.3	12.737±0.026	12.500±0.032	12.435±0.029	N			
87	161.040833	-64.247528	0.4	30.9±1.7	8.2±0.8	10.6±0.9	12.7	1	1.3	11.581±0.025	10.888±0.025	10.703±0.023	Y			<2.0
88	161.070496	-64.349808	1.0	4.1±0.8	2.0±0.5	1.2±0.4	8.9	1	4.8	15.161±0.082	14.335±0.069	14.272±0.091	N			
89	161.083252	-64.489304	1.5	2.5±0.9	4.4±2.1	1.4±0.5	8.9	1	1.5	13.458±0.043	13.069±0.047	12.893±0.050	N			
90	161.087296	-64.502136	0.9	14.7±2.0	0.0±0.0	0.0±0.0	9.3	1	2.4	12.673±0.023	12.023±0.025	11.734±0.023	Y			<2.0
91	161.093216	-64.258446	0.4	25.8±1.7	0.0±0.0	8.3±0.9	13.0	1	1.3	9.687±0.023	9.372±0.024	9.322±0.021	Y			<2.0
92	161.139755	-64.263336	1.7	2.7±0.8	0.5±0.4	0.9±0.4	13.6	1	2.5	13.872±0.026	13.211±0.028	12.928±0.034	N			
93	161.142044	-64.538025	1.8	4.6±1.1	0.0±0.0	0.0±0.0	11.7	2	3.4	14.585±0.024	13.966±0.036	13.712±0.054	N			
94	161.162170	-64.350723	0.3	41.6±2.3	15.2±1.2	15.9±1.4	11.0	2	2.5	15.740±0.072	15.111±0.089	15.060±0.162				
95	161.182343	-64.458969	3.3	10.2±2.6	0.0±0.0	0.0±0.0	10.8	0								
<b>Hogg15</b>																
1	190.682327	-63.206390	1.4	0.0±0.0	1.7±0.4	1.2±0.3	8.9	0								
2	190.709534	-63.091667	1.5	4.0±0.8	0.0±0.3	0.7±0.4	5.5	2	4.7	15.306±0.061	14.748±0.071	14.548±0.114				

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data				2MASS NIR data										Mem Mass ( $M_{\odot}$ )	Remark
			Err (")	PN	Count rates $10^{-3}$ cts $s^{-1}$		Dis (')	N	Off (")	J (mag)	H (mag)	K <sub>s</sub> (mag)	K <sub>s</sub> (mag)					
					MOS1	MOS2								7	8	9		
3	190.710800	-63.058834	0.0	5092.1±16.0	1509.8±8.5	1914.0±9.1	6.0	1	2.2	4.655±0.220	4.339±0.208	4.038±0.310	Y	>10	B0.5IV(Sk07)			
4	190.720993	-63.123695	1.8	2.0±0.5	0.6±0.3	0.3±0.2	5.4	2	1.9	14.149±0.028	12.977±0.030	12.597±0.037	N					
5	190.745453	-63.113804	0.6	8.1±0.8	2.5±0.5	2.0±0.4	4.6	1	2.2	8.175±0.030	7.745±0.061	7.495±0.024	N					
6	190.746170	-63.010834	1.3	2.3±0.6	0.8±0.3	0.2±0.2	7.0	1	8.5	15.961±0.139	14.329±0.102	13.841±0.076	N					
7	190.758209	-62.976055	0.8	3.4±0.6	1.5±0.3	2.2±0.4	8.5	1	6.5	15.393±0.071	14.913±0.079	14.780±0.134						
8	190.771210	-63.193333	2.0	1.9±0.5	0.1±0.2	0.4±0.2	6.8	0										
9	190.773804	-62.954693	1.7	2.0±0.6	0.7±0.3	0.2±0.2	9.5	2	3.5	14.315±0.050	13.837±0.054	13.535±0.057						
10	190.790466	-63.076221	1.1	1.3±0.4	0.6±0.2	0.4±0.2	3.6	2	2.9	14.853±0.068	14.531±0.098	14.132±0.081	Y	<2.0				
11	190.791245	-63.003056	1.6	2.1±0.5	0.6±0.2	0.4±0.2	6.6	4	3.0	12.226±0.040	12.042±0.049	12.010±0.040	Y	10-2	A0(Sk07)			
12	190.796921	-63.210861	2.3	1.1±0.4	0.8±0.3	0.3±0.2	7.4	0										
13	190.800156	-63.146889	1.4	1.7±0.5	1.1±0.3	1.5±0.3	4.1	4	3.8	14.782±0.062	14.041±0.076	13.869±0.083	Y	<2.0				
14	190.801788	-63.102390	0.8	2.4±0.4	1.2±0.3	0.9±0.3	3.0	1	2.8	13.635±0.057	12.858±0.062	12.426±0.044	Y	<2.0				
15	190.809540	-63.031612	0.6	2.8±0.5	1.2±0.3	1.6±0.3	4.9	3	4.0	13.019±0.026	11.873±0.021	11.449±0.019	N					
16	190.820419	-63.084251	1.4	2.0±0.4	0.6±0.2	0.4±0.2	2.6	1	2.3	14.365±0.038	13.718±0.042	13.524±0.045	Y	<2.0				
17	190.828171	-63.268082	0.4	14.8±1.8	11.2±0.9	8.2±0.7	10.4	0										
18	190.828506	-63.083611	1.6	1.4±0.4	0.6±0.2	0.3±0.2	2.4	2	4.8	13.588±0.044	12.662±0.046	12.284±0.035	Y	<2.0				
19	190.834885	-62.918667	1.5	1.7±0.5	0.7±0.3	1.1±0.3	11.0	2	5.2	12.332±0.051	11.129±0.062	10.641±0.044						
20	190.837372	-63.219833	0.6	8.2±0.8	3.1±0.4	2.6±0.4	7.5	0										
21	190.837708	-63.015751	0.8	3.0±0.5	0.9±0.2	1.3±0.3	5.4	3	1.8	13.971±0.038	13.289±0.028	13.061±0.026	Y	<2.0				
22	190.854584	-62.936638	1.6	2.2±0.5	0.5±0.3	0.5±0.2	9.9	3	1.5	14.372±0.061	13.553±0.076	13.304±0.051						
23	190.855011	-63.207611	1.4	1.9±0.4	0.6±0.2	0.5±0.2	6.7	2	2.8	15.071±0.057	14.459±0.073	14.216±0.080	N		17%prob(F110)			
24	190.858124	-63.105526	1.5	7.5±2.7	1.8±0.8	1.5±0.5	1.5	2	2.2	15.353±0.082	14.414±0.083	14.259±0.097	Y	<2.0				
25	190.866287	-63.011696	1.0	2.8±0.5	1.2±0.3	1.1±0.3	5.4	4	6.0	15.350±0.062	13.838±0.042	13.382±0.044	N					
26	190.876923	-63.103779	1.6	1.6±0.4	0.4±0.2	0.3±0.2	1.0	2	2.5	15.144±0.058	14.499±0.049	14.310±0.114						
27	190.881699	-62.920029	1.8	2.1±0.5	0.7±0.3	1.2±0.4	10.8	1	5.9	15.649±0.170	14.048±0.185	12.865±0.156						
28	190.881958	-63.167667	1.2	1.8±0.4	0.7±0.2	0.5±0.2	4.2	0										
29	190.882126	-63.093750	2.0	1.6±0.4	0.9±0.5	0.7±0.2	0.9	0										

XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data					Mem	Mass ( $M_{\odot}$ )	Remark	
			Err (")	PN	Count rates $10^{-3}$ cts $s^{-1}$		Dis (')	N	Off (")	J (mag)	H (mag)	$K_s$ (mag)				
					MOS1	MOS2										7
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
30	190.890457	-63.065945	1.4	1.3±0.3	0.4±0.2	0.2±0.1	2.1	2	4.0	13.975±0.040	13.015±0.049	12.590±0.048	Y	<2.0		
31	190.891449	-63.073444	1.5	1.0±0.3	0.5±0.3	0.4±0.2	1.6	3	6.1	13.213±0.036	12.245±0.035	11.956±0.034	Y	<2.0		
32	190.892502	-63.001778	1.7	1.0±0.3	0.5±0.2	1.0±0.1	5.9	2	4.0	14.155±0.057	13.559±0.067	13.381±0.066	Y	<2.0		
33	190.894379	-63.014778	1.0	2.2±0.4	0.9±0.2	1.0±0.2	5.1	4	2.3	12.845±0.032	12.606±0.037	12.489±0.042	Y	10-2		
34	190.902832	-63.101307	7.1	17.5±1.8	5.9±1.0	6.0±1.0	0.2	3	3.0	11.897±0.035	11.675±0.036	11.552±0.034	Y	<2.0	OB+(Sk07)	
35	190.907471	-63.157776	0.8	2.5±0.4	0.6±0.2	0.9±0.2	3.5	2	2.2	14.404±0.051	13.717±0.085	13.425±0.052	Y	<2.0		
36	190.931046	-63.089863	0.8	4.8±0.5	0.9±0.2	1.9±0.3	0.8	4	2.4	15.953±0.110	14.368±0.080	13.848±0.084	N			
37	190.935196	-63.099888	1.2	21.3±1.5	6.9±0.7	7.0±0.7	0.7	3	5.3	15.078±0.069	14.519±0.085	14.055±0.078	Y	<2.0		
38	190.937836	-63.027889	0.6	3.7±0.4	1.4±0.3	2.5±0.3	4.4	2	2.0	14.119±0.036	13.581±0.035	13.506±0.058	N		4%prob(F110)	
39	190.939926	-63.031055	1.5	1.6±0.4	0.4±0.2	0.1±0.2	4.2	1	6.9	15.097±0.050	13.433±0.032	12.734±0.026	N			
40	190.947327	-62.904140	0.6	6.8±0.8	3.2±0.5	2.9±0.5	11.8	2	0.9	15.442±0.062	14.246±0.062	13.598±0.048				
41	190.953995	-62.945946	1.3	2.2±0.4	0.5±0.2	0.5±0.2	9.3	3	2.1	14.141±0.046	13.687±0.057	13.606±0.068				
42	190.961792	-63.113388	1.4	1.1±0.3	0.8±0.2	0.4±0.2	1.6	3	1.2	13.347±0.039	12.855±0.063	12.631±0.052	Y	10-2		
43	190.963577	-63.087639	0.1	64.1±1.5	22.9±0.8	23.3±0.8	1.6	1	1.7	8.316±0.026	7.916±0.053	7.549±0.020	N			
44	190.965790	-63.037971	1.2	1.9±0.4	0.4±0.2	0.5±0.2	4.0	0								
45	190.965866	-62.952526	1.6	1.3±0.4	0.0±0.2	0.6±0.3	8.9	3	8.2	14.368±0.036	11.997±0.029	10.951±0.021				
46	190.967743	-63.317139	1.2	0.0±0.0	2.4±0.5	2.7±0.5	13.2	1	0.4	10.876±0.024	9.910±0.022	9.544±0.021				
47	190.984131	-63.212917	2.0	0.2±0.2	0.9±0.3	0.4±0.2	7.1	1	10.0	13.303±0.026	12.105±0.025	11.635±0.030				
48	190.986176	-63.071609	1.3	1.4±0.3	0.4±0.2	0.4±0.2	2.6	3	1.9	13.195±0.041	12.795±0.072	12.650±0.063	Y	10-2		
49	190.986328	-63.081444	1.0	1.9±0.4	0.9±0.2	0.8±0.2	2.3	1	1.9	9.840±0.022	9.505±0.022	9.394±0.026	Y	>10	OB+(SK07)	
50	190.989838	-63.164001	0.6	3.7±0.4	1.5±0.2	1.2±0.2	4.4	2	1.8	13.922±0.030	13.229±0.036	13.075±0.037	Y	<2.0		
51	190.995453	-62.966251	1.4	1.6±0.4	0.5±0.2	0.4±0.2	8.3	3	1.4	10.368±0.023	10.285±0.026	10.260±0.021				
52	190.998932	-63.008915	1.7	0.7±0.2	0.4±0.2	0.3±0.2	5.9	3	1.9	15.302±0.098	14.424±0.133	13.517±0.094	Y	<2.0		
53	191.002380	-62.997555	1.1	1.8±0.4	0.5±0.2	0.3±0.2	6.6	0								
54	191.009048	-63.281082	1.5	2.3±0.5	0.3±0.2	0.6±0.4	11.2	2	5.9	12.088±0.023	11.775±0.023	11.606±0.021				
55	191.009125	-63.067471	1.6	0.0±0.0	0.8±0.2	0.6±0.2	3.3	2	3.6	12.659±0.026	12.292±0.038	12.150±0.045	Y	10-2		
56	191.009918	-63.171501	1.5	1.0±0.3	0.1±0.1	0.5±0.2	5.1	2	4.9	15.134±0.067	14.534±0.151	14.200±0.126	Y	<2.0		

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data					Mem	Mass ( $M_{\odot}$ )	Remark
			Err ('')	PN	Count rates $10^{-3}$ cts $s^{-1}$		Dis (')	N	Off ('')	J (mag)	H (mag)	K <sub>s</sub> (mag)			
					MOS1	MOS2									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
57	191.011383	-63.251335	1.5	1.0±0.3	1.0±0.3	0.5±0.2	9.5	1	4.2	13.428±0.030	12.943±0.029	12.778±0.036			
58	191.013000	-62.904999	1.3	2.2±0.6	0.3±0.2	1.4±0.4	12.0	2	9.7	13.369±0.026	12.593±0.023	12.371±0.030			
59	191.014084	-62.886665	1.6	1.8±0.6	0.5±0.3	1.0±0.4	13.1	2	3.5	13.624±0.026	12.892±0.039	12.529±0.037			
60	191.014343	-62.964863	1.2	0.9±0.3	0.9±0.2	0.3±0.2	8.5	2	1.3	15.796±0.094	14.686±0.078	14.298±0.104			
61	191.020538	-63.198776	1.4	1.5±0.3	0.3±0.2	0.5±0.2	6.7	1	3.2	13.428±0.026	12.300±0.023	11.876±0.021	N		
62	191.021454	-63.129307	1.8	0.9±0.2	0.3±0.1	0.1±0.1	3.5	1	9.0	14.634±0.035	13.391±0.022	12.947±0.029	N		
63	191.030960	-63.282585	1.1	3.8±0.6	1.2±0.3	1.2±0.3	11.5	3	1.9	13.528±0.046	12.930±0.066	12.737±0.058			
64	191.033249	-63.312416	1.8	0.0±0.0	1.4±0.4	0.9±0.3	13.2	1	1.7	14.399±0.030	13.839±0.047	13.748±0.066			
65	191.061249	-63.137749	1.0	1.5±0.3	0.9±0.2	0.1±0.1	4.7	3	2.8	13.447±0.043	13.009±0.071	12.890±0.076	Y	10-2	
66	191.062958	-63.265667	0.6	6.9±0.7	3.0±0.4	3.9±0.5	10.8	2	2.0	13.001±0.030	11.776±0.038	11.335±0.033			
67	191.074371	-63.092304	1.4	1.0±0.3	0.4±0.2	0.5±0.1	4.5	1	0.2	12.783±0.022	11.452±0.023	10.638±0.023	N		
68	191.076630	-63.142834	1.3	0.7±0.2	0.4±0.2	0.3±0.1	5.2	0							
69	191.091370	-63.025471	1.6	0.9±0.3	0.4±0.1	0.0±0.1	6.6	3	2.1	11.158±0.043	10.874±0.045	10.766±0.042	Y	>10	
70	191.096298	-63.062611	1.5	1.3±0.5	1.1±0.2	0.4±0.3	5.5	2	2.1	14.138±0.041	13.633±0.068	13.540±0.081	Y	<2.0	
71	191.096375	-63.123444	0.9	2.1±0.3	0.3±0.1	0.5±0.1	5.2	1	1.8	14.327±0.037	13.634±0.044	13.501±0.044	Y	<2.0	
72	191.103333	-63.099804	1.9	0.9±0.3	0.2±0.1	0.3±0.1	5.2	3	5.4	14.194±0.029	13.662±0.226	13.756±0.066	Y	<2.0	
73	191.113281	-63.063721	1.4	1.1±0.3	0.3±0.1	0.4±0.2	5.9	3	0.4	10.554±0.024	10.281±0.022	10.220±0.026	Y	>10	
74	191.121246	-63.276390	2.0	1.9±0.5	0.8±0.3	0.6±0.3	12.1	2	5.5	15.947±0.110	14.481±0.057	13.780±0.069			
75	191.123077	-63.068501	0.4	11.2±0.6	3.0±0.3	3.5±0.3	6.1	2	3.7	12.768±0.022	11.398±0.022	10.873±0.023	N		
76	191.130585	-62.953388	0.6	8.1±0.7	2.2±0.4	2.3±0.4	10.6	1	1.0	13.046±0.028	12.459±0.022	12.333±0.030			
77	191.136093	-63.260887	1.6	2.9±0.6	0.1±0.2	0.2±0.2	11.4	1	6.5	15.570±0.075	14.852±0.079	14.727±0.113			
78	191.137283	-62.890972	1.8	2.4±0.7	0.1±0.2	0.7±0.3	13.9	0							
79	191.139297	-63.012249	1.1	1.4±0.3	0.2±0.1	0.5±0.2	8.1	1	1.9	16.075±0.132	14.354±0.044	13.578±0.043			
80	191.147049	-63.056389	1.8	0.8±0.3	0.2±0.1	0.2±0.1	6.9	1	1.4	15.765±0.111	14.215±0.058	13.517±0.059	N		
81	191.155502	-63.138973	0.5	8.0±1.2	2.9±0.3	3.0±0.3	7.1	1	8.5	13.244±0.023	12.889±0.029	12.604±0.035			
82	191.158707	-63.086193	0.8	3.7±0.4	1.2±0.2	1.3±0.2	6.8	4	2.1	13.070±0.049	12.677±0.035	12.493±0.032	Y	10-2	
83	191.167877	-63.077835	0.9	2.2±0.4	0.8±0.2	0.6±0.2	7.1	2	1.7	16.137±0.121	14.987±0.104	14.401±0.103			

XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data							Mem ( $M_{\odot}$ )	Mass	Remark
			Err ( $''$ )	PN	Count rates $10^{-3}$ cts $s^{-1}$		Dis ( $'$ )	N	Off ( $''$ )	J (mag)	H (mag)	K <sub>s</sub> (mag)					
					MOS1	MOS2							9	10			
4	5	6	7	8	9	10	11	12	13	14	15	16					
84	191.183502	-63.149445	1.7	0.9±0.3	0.5±0.2	0.1±0.1	8.0	3	3.9	14.572±0.062	13.954±0.054	13.680±0.061					
85	191.183914	-63.082279	0.8	0.0±0.0	1.0±0.2	1.5±0.2	7.5	2	0.4	13.115±0.029	12.605±0.027	12.534±0.029					
86	191.186218	-63.109444	1.1	1.3±0.3	0.2±0.1	0.6±0.2	7.5	1	2.8	15.911±0.104	15.087±0.105	14.840±0.138					
87	191.200241	-63.125637	2.5	4.3±0.8	1.4±0.4	2.3±0.4	8.0	2	6.2	15.506±0.106	14.552±0.098	13.855±0.072					
88	191.200623	-62.924835	2.3	1.9±0.5	0.5±0.2	0.2±0.2	13.1	2	7.5	15.353±0.059	14.792±0.067	14.776±0.132					
89	191.207962	-63.023361	1.4	0.0±0.0	0.6±0.2	0.5±0.2	9.3	0									
90	191.214340	-63.045277	0.6	0.0±0.0	2.4±0.3	3.0±0.3	8.9	0									
91	191.216492	-62.881084	0.8	37.6±7.7	9.3±3.4	6.7±2.7	15.5	2	8.2	15.344±0.067	14.612±0.080	14.265±0.079					
92	191.227631	-63.157722	1.6	1.2±0.3	0.3±0.2	0.3±0.1	9.3	3	1.2	14.879±0.068	14.211±0.087	13.989±0.075					
93	191.227997	-62.905945	1.1	3.3±0.7	0.8±0.3	1.1±0.4	14.5	3	4.4	14.806±0.057	14.024±0.058	13.627±0.065					
94	191.232834	-63.063610	1.1	1.5±0.3	0.5±0.2	0.4±0.2	9.0	1	0.8	15.790±0.104	15.233±0.119	14.814±0.139					
95	191.236038	-63.006279	1.7	0.9±0.4	0.0±0.1	0.7±0.2	10.5	2	1.1	15.115±0.051	14.214±0.060	14.067±0.056					
96	191.237366	-63.041111	1.5	1.1±0.3	0.3±0.2	0.2±0.1	9.5	3	1.5	15.082±0.080	14.298±0.128	13.921±0.117					
97	191.237534	-62.914139	1.9	1.7±0.5	0.6±0.3	0.9±0.3	14.2	1	9.8	13.982±0.045	12.905±0.048	12.528±0.038					
98	191.240997	-63.104584	1.0	2.1±0.4	0.9±0.2	0.9±0.2	9.0	3	2.1	13.853±0.053	13.413±0.066	13.286±0.061					
99	191.276917	-63.066723	1.3	1.3±0.3	0.2±0.2	0.5±0.2	10.1	2	2.6	14.689±0.059	12.953±0.049	12.289±0.030					
100	191.280502	-63.062752	1.0	1.9±0.4	1.0±0.2	1.3±0.3	10.3	3	4.3	15.523±0.068	14.693±0.065	14.341±0.092					
101	191.286118	-63.189999	0.7	5.6±0.6	2.1±0.3	1.6±0.3	11.5	1	9.8	14.608±0.056	13.648±0.036	13.187±0.037					
102	191.292496	-63.141582	1.1	2.6±0.4	0.6±0.2	0.6±0.3	10.7	0									
103	191.296875	-63.180668	1.5	2.3±0.7	0.3±0.2	0.8±0.2	11.6	1	7.5	12.910±0.022	11.600±0.023	11.139±0.021					
104	191.299255	-63.020084	1.7	0.9±0.3	0.3±0.2	0.4±0.2	11.6	5	1.7	15.735±0.088	14.821±0.130	14.341±0.117					
105	191.320496	-62.974499	1.2	1.9±0.4	1.1±0.3	0.8±0.3	13.4	1	1.0	13.555±0.032	12.841±0.047	12.573±0.037					
106	191.334503	-63.160278	1.7	1.7±0.4	0.4±0.2	0.3±0.2	12.1	2	3.7	14.995±0.044	14.079±0.046	13.713±0.060					
107	191.339203	-62.886139	1.4	3.2±0.7	0.3±0.3	0.0±0.2	17.3	2	5.9	13.950±0.029	13.361±0.044	13.145±0.034					
108	191.340424	-62.908306	1.9	0.9±0.5	1.0±0.4	1.4±0.4	16.4	3	2.2	15.783±0.084	13.644±0.048	12.967±0.048					
109	191.343674	-63.032722	2.0	1.5±0.4	0.2±0.3	0.1±0.2	12.4	4	6.6	14.120±0.032	12.119±0.022	11.322±0.021					
110	191.351456	-63.177502	1.2	2.7±0.5	0.5±0.2	0.6±0.2	12.8	2	4.9	15.387±0.066	13.940±0.044	13.377±0.038					
111	191.358582	-63.145889	1.3	1.0±0.3	0.6±0.2	0.5±0.2	12.5	3	3.7	9.782±0.021	9.214±0.023	9.094±0.023					

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data					Mem	Mass ( $M_{\odot}$ )	Remark
			Err ( $''$ )	PN	Count rates $10^{-3}$ cts s $^{-1}$		Dis ( $'$ )	N	Off ( $''$ )	J (mag)	H (mag)	$K_s$ (mag)			
					MOS1	MOS2									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
112	191.362747	-62.901138	0.9	5.5±0.9	2.2±0.5	1.5±0.5	17.1	1	4.5	14.094±0.042	13.333±0.044	13.014±0.045			
113	191.363861	-63.113083	1.2	1.9±0.4	0.6±0.2	0.6±0.2	12.3	1	7.3	13.079±0.043	12.087±0.039	11.693±0.035			
114	191.367920	-62.909332	1.9	1.9±0.6	1.2±0.4	0.6±0.3	16.9	0							
115	191.371750	-63.190723	1.1	2.2±0.4	0.8±0.2	0.6±0.2	13.6	3	3.1	14.709±0.039	14.090±0.050	13.899±0.080			
116	191.400787	-63.167137	2.0	1.2±0.4	0.7±0.2	0.8±0.3	13.9	2	4.4	12.636±0.033	11.439±0.030	10.965±0.025			
117	191.446533	-63.009693	0.4	20.9±1.2	7.8±0.7	8.3±0.7	15.5	1	1.2	8.577±0.023	6.932±0.040	6.044±0.023			
118	191.488541	-62.940498	1.2	2.1±0.7	0.0±0.0	1.5±0.5	18.4	3	2.0	11.941±0.030	11.670±0.031	11.618±0.035			
119	191.495209	-63.097195	1.5	1.6±0.5	1.1±0.3	0.8±0.3	15.9	0							
120	191.501373	-63.065777	2.3	2.0±0.6	0.3±0.2	0.4±0.3	16.2	2	8.6	14.989±0.039	11.566±0.023	10.006±0.022			
121	191.519836	-62.984974	1.6	2.7±0.6	0.8±0.4	1.1±0.4	17.9	2	0.3	12.492±0.045	12.060±0.054	11.875±0.052			
122	191.616837	-63.014084	1.6	3.0±0.8	0.0±0.0	0.0±0.0	19.9	3	5.0	15.911±0.110	14.743±0.075	14.487±0.089			
123	191.644714	-63.118362	2.7	3.0±0.8	0.0±0.0	0.0±0.0	20.0	0							
124	191.662918	-63.097416	1.4	3.1±0.8	0.0±0.0	0.0±0.0	20.4	0							
<b>Trumpler 18</b>															
1	167.524994	-60.668167	1.3	1.5±0.8		1.6±0.5	10.4	3	3.2	15.572±0.104	14.420±0.090	13.776±0.055			
2	167.533966	-60.530613	1.3	12.2±1.5		0.0±0.0	13.5	2	4.1	13.204±0.029	12.821±0.038	12.726±0.033			
3	167.537827	-60.695526	2.1	2.2±0.9		1.4±0.5	10.1	3	2.6	12.849±0.037	12.539±0.058	12.436±0.054			
4	167.540466	-60.721916	1.5	0.9±1.2		1.3±0.5	10.3	2	3.8	14.539±0.032	13.846±0.031	13.591±0.041			
5	167.575424	-60.661278	1.9	2.3±0.7		0.3±0.3	9.0	3	2.9	14.430±0.044	13.927±0.036	13.759±0.050			
6	167.585541	-60.548943	1.3	4.7±1.0		1.0±0.5	11.6	2	6.9	12.944±0.040	12.471±0.045	12.313±0.048			
7	167.588120	-60.501720	1.2	7.0±1.2		0.0±0.0	13.6	2	3.8	14.080±0.036	13.355±0.025	13.094±0.037			
8	167.595291	-60.596554	1.4	2.3±0.6		1.1±0.4	9.7	2	2.6	11.845±0.026	10.847±0.056	10.537±0.038			
9	167.602509	-60.713085	1.4	4.0±0.9		0.4±0.3	8.4	2	0.8	14.285±0.064	13.909±0.082	13.880±0.074			
10	167.616241	-60.713696	1.2	4.1±0.8		1.4±0.5	8.0	2	1.5	14.430±0.037	14.047±0.031	13.852±0.052			
11	167.629883	-60.574223	0.9	5.9±0.9		2.6±0.5	9.6	4	2.0	12.296±0.039	11.999±0.053	11.883±0.039			



XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data			2MASS NIR data							Mem ( $M_{\odot}$ )	Mass	Remark
			Err ( $''$ )	PN	Count rates $10^{-3}$ cts $s^{-1}$	Dis ( $''$ )	N	Off ( $''$ )	J (mag)	H (mag)	$K_s$ (mag)				
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
12	167.632370	-60.782417	0.2	146.7±4.0		44.1±2.2	9.6	3	1.1	10.935±0.028	10.301±0.029	10.047±0.024			
13	167.634293	-60.657665	1.7	2.7±0.7		0.1±0.2	7.3	1	0.4	12.665±0.023	12.531±0.022	12.476±0.026			
14	167.637085	-60.792667	1.7	3.7±1.1		0.8±0.5	9.9	1	0.8	14.055±0.037	13.615±0.051	13.422±0.059			
15	167.639465	-60.667389	1.8	2.7±0.7		0.6±0.3	7.1	3	0.8	14.604±0.072	14.073±0.099	13.714±0.074			
16	167.652542	-60.597668	1.8	0.0±0.0		2.2±0.5	8.2	1	9.2	15.802±0.091	15.202±0.088	15.077±0.150			
17	167.652618	-60.584526	1.0	7.3±1.0		2.6±0.5	8.7	0							
18	167.656876	-60.507832	0.8	6.7±1.1		2.7±0.6	12.1	3	1.1	14.077±0.029	13.380±0.022	13.224±0.037			
19	167.664169	-60.614723	1.4	2.6±0.6		1.2±0.4	7.4	3	2.4	15.419±0.077	14.741±0.074	14.500±0.096			
20	167.673080	-60.452000	1.1	8.6±1.3		0.0±0.0	14.9	2	2.3	13.731±0.053	12.836±0.058	12.486±0.043			
21	167.673996	-60.703556	1.0	4.2±0.7		1.4±0.4	6.2	2	0.8	13.690±0.022	13.308±0.023	13.195±0.030			
22	167.681030	-60.627861	1.0	2.2±0.6		1.2±0.3	6.6	4	1.6	13.539±0.050	12.913±0.049	12.782±0.047			
23	167.682907	-60.599251	0.9	4.2±0.7		0.8±0.3	7.5	1	9.3	15.397±0.069	13.803±0.023	13.277±0.036			
24	167.683502	-60.672222	1.8	0.0±0.0		0.5±0.3	5.8	1	3.9	11.300±0.023	11.220±0.023	11.135±0.021			
25	167.686951	-60.641972	1.2	4.7±0.8		0.6±0.3	6.1	1	1.7	14.002±0.024	13.457±0.022	13.295±0.027			
26	167.696411	-60.554501	1.4	4.3±0.8		1.2±0.4	9.2	1	0.8	12.706±0.028	12.567±0.033	12.531±0.034			
27	167.699829	-60.777332	1.0	6.3±1.0		2.7±0.6	7.9	3	2.7	10.816±0.024	10.781±0.027	10.769±0.026			
28	167.707916	-60.769554	0.6	15.6±1.3		5.2±0.7	7.4	2	1.1	12.608±0.033	12.049±0.039	11.700±0.027			
29	167.708710	-60.639668	1.3	2.3±0.6		0.9±0.3	5.5	1	1.6	11.523±0.024	11.453±0.025	11.414±0.024			
30	167.712296	-60.419083	1.5	10.2±2.2		0.0±0.0	16.3	1	4.0	15.372±0.047	14.554±0.031	14.330±0.070			
31	167.714905	-60.693306	1.4	2.5±0.6		0.9±0.3	4.9	2	7.1	14.759±0.056	14.391±0.090	14.327±0.095			
32	167.723114	-60.586082	1.2	2.3±0.6		0.8±0.3	7.2	2	1.3	13.932±0.035	13.477±0.022	13.349±0.041			
33	167.732330	-60.603168	1.1	6.8±1.9		1.9±0.8	6.2	3	1.7	11.285±0.023	10.633±0.022	10.441±0.023			
34	167.732788	-60.503666	1.7	2.1±0.7		1.0±0.4	11.3	3	3.5	15.186±0.043	14.379±0.055	14.220±0.078			
35	167.736298	-60.706139	0.7	6.0±1.7		4.5±0.6	4.5	2	1.0	10.896±0.022	10.447±0.022	10.012±0.021			
36	167.736862	-60.633556	1.6	1.3±0.5		0.0±0.2	5.0	2	4.5	10.775±0.033	10.212±0.033	10.085±0.029			
37	167.738495	-60.449081	1.7	4.6±1.1		1.4±0.7	14.3	4	3.0	15.359±0.077	14.652±0.078	14.395±0.090			
38	167.739410	-60.460556	1.6	3.9±1.0		0.9±0.5	13.7	2	3.1	11.947±0.030	11.260±0.031	11.109±0.032			
39	167.747040	-60.758415	1.7	3.4±0.8		1.3±0.4	6.2	2	1.0	15.456±0.083	14.805±0.083	14.419±0.090			

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data					Mem	Mass ( $M_{\odot}$ )	Remark
			Err ('')	PN	Count rates $10^{-3}$ cts $s^{-1}$		Dis (')	N	Off ('')	J (mag)	H (mag)	K <sub>s</sub> (mag)			
					MOS1	MOS2									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
40	167.748581	-60.670723	1.1	4.6±0.7		0.6±0.3	3.9	5	2.1	14.432±0.062	13.758±0.068	13.521±0.046			
41	167.753708	-60.538776	1.2	4.7±0.8		0.7±0.3	9.1	0							
42	167.755249	-60.444443	0.7	11.4±1.5		5.5±0.9	14.5	1	1.0	14.431±0.043	13.795±0.044	13.627±0.052			
43	167.758087	-60.696640	1.5	2.2±0.6		0.2±0.2	3.7	2	4.6	12.707±0.023	11.566±0.023	11.175±0.021			
44	167.760330	-60.479057	0.8	7.3±1.1		1.7±0.5	12.4	1	0.9	9.439±0.022	9.444±0.022	9.422±0.021			
45	167.761093	-60.611084	1.5	1.4±0.5		0.8±0.3	5.3	2	1.8	15.320±0.057	14.526±0.068	14.621±0.097			
46	167.766205	-60.511971	1.0	5.4±0.8		1.3±0.4	10.5	3	1.3	10.357±0.023	10.073±0.023	10.052±0.027			
47	167.773666	-60.777473	0.3	45.0±1.9		14.0±1.0	6.7	3	0.1	11.872±0.022	11.357±0.022	11.204±0.019			
48	167.777908	-60.440945	0.9	8.4±1.2		2.5±0.6	14.5	4	1.3	12.915±0.049	12.422±0.063	12.254±0.047			
49	167.781494	-60.789001	1.0	6.8±1.0		2.4±0.5	7.2	2	1.1	12.327±0.028	11.999±0.036	11.831±0.026			
50	167.789871	-60.417110	0.6	14.7±1.6		0.0±0.0	15.9	3	1.6	12.976±0.032	12.284±0.038	12.150±0.036			
51	167.791367	-60.694805	1.7	2.3±0.8		1.4±0.4	2.8	1	2.1	12.183±0.030	11.918±0.031	11.865±0.029			
52	167.793503	-60.467224	1.6	2.9±0.8		0.7±0.4	12.9	2	4.3	13.902±0.040	13.568±0.065	13.462±0.052			
53	167.798752	-60.580971	1.4	2.8±0.6		0.0±0.5	6.3	0							
54	167.800339	-60.633305	1.9	1.5±1.2		1.2±0.3	3.5	2	1.6	11.161±0.023	10.669±0.025	10.534±0.023			
55	167.805115	-60.654335	9.5	16.0±2.0		2.7±1.8	2.6	1	8.7	15.152±0.100	14.793±0.147	14.780±0.139			
56	167.809906	-60.510555	1.1	6.1±2.7		2.0±0.4	10.3	4	1.4	13.015±0.039	12.741±0.052	12.621±0.036			
57	167.818924	-60.592304	1.7	1.2±0.5		1.2±0.3	5.4	3	3.7	14.486±0.106	14.304±0.079	14.137±0.099			
58	167.820160	-60.797668	1.5	2.5±0.7		1.0±0.4	7.4	2	0.8	14.968±0.050	14.447±0.047	14.536±0.087			
59	167.826248	-60.511696	0.7	6.9±0.9		2.6±0.5	10.1	1	1.4	12.729±0.029	12.503±0.033	12.461±0.033			
60	167.826294	-60.579472	0.6	43.2±7.1		7.8±2.3	6.1	1	4.6	13.125±0.032	12.937±0.037	12.881±0.039			
61	167.826828	-60.819000	1.5	3.2±0.8		1.2±0.4	8.6	2	0.3	12.763±0.027	12.099±0.022	11.933±0.021			
62	167.831848	-60.441666	0.6	16.1±1.5		4.2±0.8	14.2	0							
63	167.834244	-60.734722	1.5	1.6±0.5		1.2±0.4	3.6	1	9.3	15.423±0.101	14.873±0.096	14.861±0.133			
64	167.839752	-60.620445	1.1	3.3±0.7		1.1±0.3	3.6	1	9.0	12.876±0.041	12.672±0.042	12.548±0.049			
65	167.840836	-60.567585	2.2	10.1±1.3		3.0±0.9	6.7	3	1.0	14.299±0.058	13.971±0.039	13.921±0.073			
66	167.843781	-60.814335	1.9	1.4±0.6		1.1±0.4	8.2	3	3.0	14.376±0.051	13.850±0.062	13.593±0.051			

XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data			2MASS NIR data					Mem Mass ( $M_{\odot}$ )	Remark					
			Err ('')	PN	Count rates $10^{-3}$ cts s $^{-1}$	Dis (')	N Off ('')	J (mag)	H (mag)	$K_s$ (mag)							
1	2	3	4	5	6	MOS1	MOS2	7	8	9	10	11	12	13	14	15	16
67	167.854675	-60.824276	2.0	2.0	±0.6			1.5±0.5	8.8	1	2.2	14.304±0.033	13.588±0.022	13.405±0.033			
68	167.858841	-60.560665	2.1	2.5	±0.7			1.6±0.5	7.1	2	3.3	14.699±0.046	14.434±0.046	14.314±0.078			
69	167.868118	-60.441944	1.3	2.5	±0.9			0.6±0.4	14.2	1	8.1	13.555±0.032	12.754±0.033	12.433±0.033			
70	167.868164	-60.449528	1.2	6.4	±1.1			2.6±0.6	13.7	1	1.4	15.289±0.060	14.470±0.052	14.146±0.072			
71	167.868790	-60.589085	4.5	15.7	±1.9			4.4±0.9	5.3	3	1.8	14.848±0.045	13.872±0.045	13.493±0.045			
72	167.869507	-60.495693	0.9	5.7	±0.8			1.9±0.4	10.9	2	3.1	14.005±0.035	13.705±0.024	13.579±0.045			
73	167.869614	-60.643612	1.8	9.3	±1.3			2.2±0.6	2.1	2	3.4	15.075±0.048	14.546±0.036	14.427±0.082			
74	167.870972	-60.736443	1.0	4.3	±0.6			0.7±0.6	3.5	0							
75	167.874954	-60.563362	1.6	1.5	±0.5			1.0±0.4	6.9	2	3.7	14.935±0.081	14.193±0.085	13.790±0.070			
76	167.881042	-60.664612	1.3	1.8	±0.6			1.0±0.3	0.8	2	2.3	11.602±0.032	11.508±0.029	11.547±0.030	Y	10-2	
77	167.886780	-60.635555	2.5	2.3	±0.5			0.0±0.1	2.6	0							
78	167.889923	-60.623165	0.7	0.0	±0.0			3.8±0.4	3.3	1	3.0	15.681±0.086	15.198±0.098	14.967±0.160			
79	167.893585	-60.655224	1.5	2.2	±0.5			0.0±0.2	1.4	3	3.7	13.366±0.043	13.088±0.052	13.006±0.055	Y	<2.0	
80	167.894043	-60.667278	2.2	13.4	±2.4			1.4±0.7	0.8	4	2.4	9.985±0.030	9.854±0.031	9.870±0.029	Y	10-2	A0(Kher09)
81	167.894333	-60.555000	1.1	4.6	±0.7			2.5±1.1	7.4	3	2.2	12.894±0.022	12.526±0.023	12.419±0.019			
82	167.898956	-60.699501	3.4	25.5	±2.7			3.8±1.0	1.4	0							
83	167.905823	-60.781834	0.9	6.3	±0.8			2.2±0.4	6.3	1	9.5	13.041±0.030	12.257±0.025	12.039±0.023			
84	167.908005	-60.666779	2.0	85.9	±6.9			26.6±3.4	1.1	1	7.8	14.630±0.045	14.345±0.067	14.163±0.082	Y	<2.0	
85	167.909454	-60.679501	3.3	9.0	±1.6			3.3±0.9	0.9	1	1.7	13.903±0.032	13.596±0.035	13.490±0.041	Y	<2.0	
86	167.911713	-60.726723	1.7	1.0	±0.4			0.5±0.2	3.1	3	5.2	13.889±0.038	12.958±0.029	12.706±0.037			
87	167.913467	-60.491112	1.5	2.1	±0.6			0.9±0.3	11.3	2	1.1	14.215±0.045	13.684±0.046	13.480±0.057			
88	167.917786	-60.694221	0.6	37.0	±15.6			0.0±3.0	1.5	2	5.6	15.409±0.073	14.817±0.086	14.648±0.102			
89	167.918549	-60.429111	1.2	11.5	±1.3			2.7±0.6	15.0	1	2.1	8.283±0.026	8.356±0.080	8.308±0.042			
90	167.920914	-60.706276	0.7	10.7	±0.9			2.3±0.4	2.1	1	0.5	9.318±0.026	9.299±0.022	9.289±0.019	Y	10-2	HD306181;B(Fab02)
91	167.923035	-60.772640	1.6	2.7	±0.6			0.2±0.2	5.8	2	8.5	13.441±0.024	12.469±0.022	12.121±0.019			
92	167.930038	-60.564972	1.5	11.9	±1.2			4.0±0.7	6.9	2	1.8	14.098±0.035	13.580±0.036	13.366±0.042			
93	167.931747	-60.846054	1.1	5.2	±0.9			1.7±0.5	10.2	2	2.1	13.712±0.039	13.097±0.035	12.889±0.042			
94	167.935303	-60.745140	1.5	2.6	±0.6			0.8±0.3	4.4	2	1.1	14.084±0.023	13.637±0.022	13.551±0.030			

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data										Mem	Mass ( $M_{\odot}$ )	Remark
			Err (")	PN	Count rates $10^{-3}$ cts $s^{-1}$		Dis (')	N	Off (")	J (mag)	H (mag)	K <sub>s</sub> (mag)	13	14	15	16				
					MOS1	MOS2											8			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16					
95	167.935333	-60.667362	1.0	130.1±4.1		46.9±2.3	1.8	1	0.4	9.503±0.026	9.012±0.022	8.920±0.021	N							
96	167.935379	-60.519333	1.5	2.5±0.6		0.5±0.2	9.7	4	2.1	14.996±0.072	14.274±0.066	14.068±0.080								
97	167.937042	-60.470943	1.2	13.9±1.5		5.1±0.8	12.5	3	2.0	13.885±0.032	13.335±0.039	13.125±0.043								
98	167.942200	-60.583027	1.4	2.6±0.7		0.9±0.3	6.0	4	2.0	13.796±0.030	13.563±0.043	13.405±0.050								
99	167.949921	-60.770443	1.0	5.9±0.8		1.7±0.4	5.9	1	0.6	15.293±0.076	14.523±0.093	14.284±0.081								
100	167.951660	-60.657471	0.4	189.2±4.2		73.6±2.2	2.5	2	7.4	16.345±0.125	14.390±0.029	13.705±0.049	N							
101	167.954575	-60.616280	2.4	5.4±0.9		1.6±0.6	4.3	1	9.4	14.625±0.041	14.269±0.061	14.264±0.081								
102	167.956757	-60.699390	0.2	52.1±1.6		12.9±0.8	2.6	1	0.6	7.659±0.030	7.652±0.036	7.618±0.027								
103	167.959091	-60.644417	1.1	66.9±22.9		31.7±3.5	3.1	1	6.0	11.465±0.026	11.392±0.025	11.388±0.024								
104	167.961700	-60.480221	2.3	3.0±0.7		0.5±0.3	12.1	2	3.4	14.533±0.040	13.985±0.039	13.831±0.057								
105	167.964661	-60.698418	1.1	3.4±0.8		1.2±0.4	2.8	0												
106	167.967117	-60.752888	1.6	2.3±0.6		0.3±0.2	5.2	4	2.0	15.065±0.094	14.323±0.094	14.053±0.095								
107	167.967545	-60.624943	1.7	2.2±0.6		0.4±0.3	4.1	1	9.6	15.336±0.055	14.509±0.047	14.169±0.068								
108	167.972549	-60.552418	1.4	1.5±0.4		0.6±0.3	8.0	2	2.1	13.788±0.024	13.498±0.033	13.350±0.042								
109	167.973663	-60.770306	0.7	9.9±2.5		2.8±0.5	6.2	1	7.9	15.062±0.050	13.724±0.031	13.278±0.038								
110	167.975876	-60.746639	1.5	2.0±0.5		0.2±0.2	5.0	2	6.3	12.967±0.030	12.343±0.033	12.245±0.030								
111	167.977661	-60.813751	0.5	16.3±1.2		4.7±0.6	8.6	2	0.6	13.552±0.054	13.011±0.055	12.906±0.039								
112	167.978790	-60.641666	1.8	2.9±0.6		0.7±0.3	3.7	2	1.7	14.141±0.034	13.066±0.033	12.685±0.030								
113	167.980499	-60.614471	1.5	2.4±0.5		0.5±0.3	4.8	2	0.7	12.740±0.026	12.587±0.033	12.582±0.033								
114	167.981125	-60.651279	0.3	122.6±11.1		50.5±8.6	3.4	1	8.1	14.295±0.069	13.395±0.098	13.161±0.064								
115	167.981415	-60.633972	1.2	28.9±5.2		9.1±2.4	4.0	1	8.2	15.239±0.063	14.678±0.061	14.319±0.083								
116	167.989914	-60.627361	1.8	10.7±2.3		4.0±1.2	4.5	1	4.4	15.311±0.054	14.897±0.065	14.874±0.129								
117	167.991867	-60.769306	1.2	1.7±0.6		1.0±0.3	6.4	2	8.0	16.217±0.116	15.265±0.091	14.934±0.132								
118	167.994339	-60.521610	1.8	1.2±0.5		0.6±0.2	10.0	1	2.3	14.928±0.039	14.540±0.055	14.402±0.092								
119	167.999252	-60.594555	1.4	7.9±1.6		0.6±0.3	6.1	2	8.9	14.711±0.035	14.142±0.040	13.959±0.051								
120	168.002090	-60.617748	1.5	17.6±6.1		7.2±2.7	5.1	3	1.2	13.773±0.027	13.613±0.022	13.563±0.037								
121	168.003006	-60.752110	1.6	1.1±0.3		0.4±0.3	5.7	2	5.1	14.908±0.056	13.592±0.045	13.161±0.042								

XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data				2MASS NIR data										Mem ( $M_{\odot}$ )	Mass	Remark
			Err ( $''$ )	PN	Count rates $10^{-3}$ cts $s^{-1}$		Dis ( $'$ )	N	Off ( $''$ )	J (mag)	H (mag)	K <sub>s</sub> (mag)	13	14	15	16			
					MOS1	MOS2													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
122	168.003540	-60.463085	0.8	11.2±1.2		2.3±0.6	13.4	3	5.0	14.156±0.043	13.506±0.043	13.210±0.036							
123	168.006790	-60.656193	10.4	12.1±3.4		7.8±2.9	4.0	1	4.3	13.381±0.023	13.121±0.022	12.967±0.026							
124	168.007629	-60.562000	1.6	1.6±0.4		0.5±0.2	7.9	3	2.1	14.501±0.061	13.987±0.063	13.634±0.069							
125	168.012131	-60.604137	1.5	1.9±0.5		0.5±0.2	5.9	1	4.7	15.961±0.096	15.115±0.085	14.761±0.131							
126	168.012497	-60.713917	9.6	57.5±5.5		17.2±3.0	4.5	1	3.2	15.998±0.085	15.350±0.094	15.090±0.166							
127	168.019455	-60.527943	0.6	9.8±0.9		3.7±0.5	9.9	2	1.6	14.059±0.047	13.499±0.049	13.324±0.043							
128	168.021408	-60.791862	1.2	1.9±0.6		0.9±0.3	8.0	3	1.6	15.436±0.057	14.636±0.055	14.356±0.083							
129	168.023239	-60.767445	1.6	1.5±0.5		0.3±0.2	6.8	2	7.2	15.804±0.086	15.174±0.122	14.763±0.135							
130	168.032761	-60.667805	7.4	99.3±8.9		27.0±4.1	4.6	2	5.6	15.431±0.100	14.725±0.079	14.396±0.097							
131	168.033081	-60.476860	2.1	1.5±0.5		1.2±0.4	12.9	1	2.8	11.883±0.023	11.677±0.023	11.639±0.021							
132	168.034134	-60.721085	3.3	17.3±3.2		4.0±1.3	5.2	1	5.4	9.703±0.024	9.672±0.022	9.643±0.019							
133	168.043961	-60.566387	1.6	1.5±0.4		0.5±0.2	8.3	0											
134	168.056198	-60.715832	1.7	2.5±0.6		0.2±0.2	5.7	1	3.7	14.991±0.052	14.457±0.080	14.300±0.090							
135	168.057968	-60.544918	1.4	1.4±0.4		0.5±0.2	9.6	2	0.1	15.139±0.045	14.412±0.039	14.450±0.087							
136	168.060120	-60.759724	1.6	7.9±1.1		3.3±0.6	7.2	2	2.7	15.948±0.109	15.248±0.108	15.026±0.153							
137	168.066742	-60.651028	24.5	25.3±6.8		7.1±2.5	5.8	1	8.8	15.796±0.073	15.321±0.099	15.026±0.137							
138	168.067154	-60.530499	0.9	6.0±0.8		1.1±0.3	10.4	3	1.1	13.932±0.051	13.301±0.049	13.242±0.048							
139	168.069794	-60.706696	1.1	22.3±2.0		6.2±1.0	5.9	2	6.5	16.025±0.116	15.168±0.112	14.917±0.149							
140	168.072754	-60.781582	1.2	3.0±0.6		1.4±0.4	8.4	3	0.5	11.215±0.036	11.049±0.036	11.060±0.033							
141	168.075211	-60.508888	1.2	2.9±0.7		1.7±0.4	11.7	3	1.4	13.219±0.042	12.693±0.045	12.629±0.034							
142	168.093124	-60.654530	1.5	13.1±2.2		6.0±0.8	6.5	2	5.7	10.957±0.026	10.066±0.022	9.771±0.019							
143	168.093704	-60.482887	1.2	19.5±3.5		10.7±1.7	13.3	4	6.3	13.422±0.042	13.151±0.049	13.094±0.057							
144	168.096832	-60.705193	2.0	1.9±0.5		0.8±0.3	6.6	2	4.3	13.310±0.027	12.602±0.023	12.429±0.027							
145	168.098587	-60.785221	1.0	5.6±1.6		3.0±0.5	9.1	3	1.6	13.945±0.055	13.353±0.051	13.109±0.039							
146	168.100296	-60.753166	0.3	30.5±1.4		9.4±0.7	7.9	2	0.8	12.250±0.024	11.908±0.022	11.777±0.024							
147	168.101959	-60.665668	0.7	10.2±0.9		3.2±0.4	6.6	2	0.9	14.484±0.047	13.987±0.045	13.890±0.061							
148	168.105759	-60.599499	0.9	5.3±0.7		1.2±0.4	8.2	2	1.7	14.801±0.067	14.264±0.067	14.132±0.079							
149	168.106674	-60.389721	1.0	14.5±1.6		0.0±0.0	18.6	1	1.9	12.939±0.024	12.359±0.022	12.274±0.027							

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data										Mem	Mass ( $M_{\odot}$ )	Remark
			Err ( $''$ )	Count rates $10^{-3}$ cts $s^{-1}$		Dis ( $'$ )	N	Off ( $''$ )	J (mag)	H (mag)	K <sub>s</sub> (mag)	13	14	15	16					
				PN	MOS1											MOS2	8			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16					
150	168.110794	-60.680248	1.8	4.1±1.7		1.0±0.3	6.8	2	0.4	15.989±0.098	15.069±0.071	14.932±0.131								
151	168.116089	-60.550026	1.1	2.4±0.6		0.4±0.2	10.4	5	3.5	14.412±0.056	13.625±0.060	13.154±0.071								
152	168.118866	-60.760471	0.9	4.0±0.7		1.0±0.3	8.6	1	0.6	13.819±0.027	13.281±0.027	13.168±0.036								
153	168.120132	-60.822277	2.1	0.0±0.0		1.4±0.4	11.2	3	7.8	15.278±0.068	14.779±0.113	14.477±0.115								
154	168.120956	-60.694916	1.5	1.6±0.5		0.5±0.2	7.2	1	4.6	16.008±0.096	15.126±0.094	15.158±0.147								
155	168.122620	-60.661835	10.3	20.4±4.1		6.8±1.7	7.2	2	8.0	13.543±0.057	12.975±0.060	12.881±0.045								
156	168.122787	-60.464474	1.7	4.1±0.8		0.3±0.3	14.7	2	0.9	15.292±0.068	14.573±0.057	14.346±0.073								
157	168.128708	-60.794193	1.2	2.8±0.6		1.2±0.4	10.1	4	1.9	10.106±0.026	10.059±0.025	10.038±0.023								
158	168.142456	-60.491943	1.7	1.9±0.6		1.3±0.4	13.6	1	9.3	12.271±0.026	12.078±0.022	12.100±0.021								
159	168.142456	-60.552696	0.9	4.8±0.7		1.1±0.3	10.8	2	1.3	14.691±0.045	13.908±0.042	13.768±0.052								
160	168.152878	-60.686165	1.3	1.9±0.5		1.0±0.3	8.1	1	2.6	16.248±0.130	15.614±0.147	15.224±0.189								
161	168.155121	-60.446835	2.1	1.6±0.7		1.7±0.5	16.1	1	3.2	15.778±0.082	15.110±0.089	15.127±0.173								
162	168.155838	-60.481415	1.6	2.8±0.8		0.9±0.4	14.3	1	6.7	16.340±0.131	15.202±0.093	14.776±0.108								
163	168.157455	-60.601002	1.1	2.5±0.5		1.3±0.4	9.4	2	3.2	13.112±0.034	12.691±0.029	12.636±0.032								
164	168.158081	-60.707279	1.6	1.6±0.5		0.9±0.3	8.4	2	6.9	14.606±0.030	13.773±0.022	13.494±0.030								
165	168.162125	-60.660252	2.2	10.1±1.5		4.2±0.8	8.4	1	9.5	15.697±0.081	15.184±0.082	15.072±0.140								
166	168.162918	-60.549694	1.1	2.0±0.5		0.8±0.3	11.4	1	2.0	12.170±0.026	11.885±0.023	11.824±0.024								
167	168.177032	-60.455666	1.8	2.5±0.8		1.6±0.5	16.0	1	4.8	11.348±0.033	10.661±0.034	10.507±0.032								
168	168.180206	-60.591278	1.8	2.3±0.5		0.1±0.2	10.3	3	2.8	15.786±0.076	15.043±0.065	14.931±0.135								
169	168.182877	-60.609528	2.3	6.3±1.2		3.2±0.6	9.8	1	1.5	15.174±0.058	14.693±0.061	14.611±0.101								
170	168.190720	-60.658165	0.6	30.0±13.4		14.2±4.9	9.2	2	7.0	14.501±0.036	13.843±0.023	13.606±0.044								
171	168.197754	-60.448387	1.2	5.0±1.0		1.0±0.4	16.7	1	0.7	12.039±0.023	11.905±0.022	11.899±0.024								
172	168.199036	-60.737610	1.0	3.3±0.6		0.9±0.3	10.1	1	1.3	8.250±0.026	8.282±0.049	8.239±0.038								
173	168.199585	-60.508778	0.7	7.4±0.9		2.9±0.5	13.9	3	1.4	15.300±0.094	14.543±0.122	14.387±0.105								
174	168.201920	-60.710388	0.9	5.9±0.9		2.3±0.4	9.7	4	3.0	15.041±0.058	14.540±0.071	14.274±0.086								
175	168.206833	-60.596027	1.9	25.3±2.5		8.0±1.2	10.8	1	9.5	11.789±0.026	10.581±0.022	10.078±0.019								
176	168.211624	-60.765583	1.1	3.6±0.7		1.5±0.4	11.1	4	2.2	14.403±0.048	13.863±0.068	13.709±0.112								

XMM-Newton View of Eight Young Open Star Clusters

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data					2MASS NIR data										Mem	Mass ( $M_{\odot}$ )	Remark
			Err ( $''$ )	PN	Count rates $10^{-3}$ cts $s^{-1}$		Dis ( $'$ )	N	Off ( $''$ )	J (mag)	H (mag)	K <sub>s</sub> (mag)	13	14	15	16				
					MOS1	MOS2											7			
177	168.217621	-60.678112	0.9	44.5±3.6			18.3±2.2	10.0	1	9.4	13.355±0.044	11.826±0.033	11.247±0.024							
178	168.221863	-60.784752	2.9	23.9±3.0			7.5±1.5	11.9	2	2.7	14.905±0.079	14.425±0.127	14.205±0.130							
179	168.222717	-60.658611	1.2	22.7±1.7			7.2±0.9	10.2	3	2.8	15.410±0.085	14.689±0.112	14.663±0.111							
180	168.224960	-60.584110	1.4	1.8±0.6			0.5±0.3	11.6	2	4.8	15.719±0.064	15.183±0.089	15.165±0.162							
181	168.230377	-60.673332	1.4	2.5±0.7			0.0±0.0	10.3	0											
182	168.234741	-60.645248	1.3	3.6±0.9			1.0±0.3	10.7	2	9.7	14.441±0.055	13.364±0.049	13.024±0.044							
183	168.242081	-60.791862	2.0	0.0±0.0			1.9±0.5	12.7	5	3.4	11.838±0.034	11.083±0.033	10.856±0.023							
184	168.246460	-60.826168	0.9	0.0±0.0			4.2±0.7	14.0	2	2.4	11.440±0.023	11.199±0.022	11.115±0.019							
185	168.257370	-60.799000	2.1	0.0±0.0			0.7±0.4	13.3	2	6.0	14.390±0.042	13.987±0.053	13.830±0.047							
186	168.259384	-60.782055	1.9	23.8±4.5			7.7±1.4	12.8	2	3.1	15.379±0.092	14.827±0.094	14.760±0.129							
187	168.260788	-60.616360	1.1	5.3±1.8			0.6±0.3	11.8	4	1.9	15.403±0.056	14.546±0.088	14.218±0.072							
188	168.264999	-60.725666	0.9	6.5±0.8			1.9±0.4	11.7	4	1.9	12.834±0.033	12.590±0.048	12.474±0.038							
189	168.275955	-60.760860	1.4	3.2±0.8			1.4±0.4	12.7	1	7.2	14.858±0.076	14.461±0.071	14.408±0.089							
190	168.286041	-60.599556	1.2	2.6±0.6			0.9±0.3	12.9	2	5.1	15.294±0.064	14.979±0.115	14.906±0.136							
191	168.287048	-60.782196	1.3	0.0±0.0			1.8±0.5	13.5	3	4.5	15.079±0.054	14.490±0.027	14.491±0.097							
192	168.292496	-60.639000	1.4	2.3±0.6			1.0±0.3	12.4	2	1.7	9.294±0.024	9.278±0.022	9.306±0.019							
193	168.303543	-60.692833	1.4	1.2±0.5			1.2±0.3	12.5	2	1.9	13.974±0.037	13.150±0.052	12.906±0.049							
194	168.306717	-60.612640	1.6	2.0±0.6			0.7±0.3	13.2	2	4.6	15.214±0.080	14.088±0.053	13.696±0.061							
195	168.318741	-60.614056	1.2	3.0±0.7			0.4±0.2	13.5	0											
196	168.326630	-60.778778	1.4	0.0±0.0			1.5±0.5	14.5	1	3.3	11.419±0.028	11.218±0.027	11.179±0.027							
197	168.328827	-60.633999	0.7	4.8±0.7			2.8±0.4	13.5	2	3.0	12.442±0.036	11.999±0.045	11.872±0.036							
198	168.334702	-60.739334	2.0	2.6±0.7			0.6±0.3	13.9	1	4.5	13.858±0.046	12.517±0.041	11.984±0.033							
199	168.345032	-60.615028	1.3	3.9±0.8			1.0±0.3	14.2	2	1.9	11.581±0.043	11.306±0.056	11.207±0.043							
200	168.347214	-60.704945	1.5	9.4±1.4			0.2±0.5	13.9	2	5.7	14.415±0.039	13.827±0.036	13.671±0.051							
201	168.367172	-60.774834	1.2	0.0±0.0			0.0±0.0	15.5	1	3.7	15.139±0.052	14.639±0.067	14.378±0.084							
202	168.367798	-60.739777	1.9	0.0±0.0			0.6±0.3	14.8	0											
203	168.396210	-60.679333	1.6	2.0±0.6			0.9±0.3	15.2	0											
204	168.397751	-60.571583	2.0	0.0±0.0			1.1±0.4	16.6	2	2.4	14.569±0.036	14.069±0.042	13.956±0.071							

Supplementary Table 3. (Continued).

ID	RA (deg)	DEC (deg)	X-ray data			2MASS NIR data					Mem ( $M_{\odot}$ )	Mass	Remark		
			Err ( $''$ )	PN	Count rates $10^{-3}$ cts $s^{-1}$	Dis ( $'$ )	N	Off ( $''$ )	J (mag)	H (mag)				$K_s$ (mag)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
205	168.411713	-60.642887	0.9	14.1 $\pm$ 1.7	2.9 $\pm$ 0.5	15.8	3	0.2	12.131 $\pm$ 0.024	11.582 $\pm$ 0.023	11.374 $\pm$ 0.023				
206	168.435913	-60.602833	1.7	0.0 $\pm$ 0.0	1.4 $\pm$ 0.4	17.0	2	2.6	13.165 $\pm$ 0.023	12.733 $\pm$ 0.022	12.616 $\pm$ 0.024				
207	168.439880	-60.692917	3.5	0.0 $\pm$ 0.0	2.0 $\pm$ 0.5	16.5	0								
208	168.447708	-60.563499	1.4	0.0 $\pm$ 0.0	3.6 $\pm$ 0.6	18.1	1	4.1	9.388 $\pm$ 0.023	9.010 $\pm$ 0.022	8.889 $\pm$ 0.021				

Notes – 1: Identification number of X-ray sources detected using SAS task EDETECT\_CHAIN.

2: Right ascension of source in units of degree at J2000 epoch.

3: Declination of source in units of degree at J2000 epoch.

4: Error in the estimation of position from X-ray source detection algorithm in units of arcsec.

5: Count rates are estimated in energy band 0.3–7.5 keV from SAS task EDETECT\_CHAIN in PN detector.

6: Count rates are estimated in energy band 0.3–7.5 keV from SAS task EDETECT\_CHAIN in MOS1 detector.

7: Count rates are estimated in energy band 0.3–7.5 keV from SAS task EDETECT\_CHAIN in MOS2 detector.

8: Distances of the source from the center of the cluster in units of arcmin.

9: Number of multiple identifications of a X-ray source in 2MASS NIR source catalogue within  $10''$  search radius.

10: Distance (in arcsec) between the positions of the X-ray source and of its closest NIR within  $10''$  search radius. Only the closest identification of the X-ray source has been reported in this table.

11: Magnitudes of the closest X-ray counterparts in  $J$  ( $1.25 \mu\text{m}$ ) band.

12: Magnitudes of the closest X-ray counterparts in  $H$  ( $1.65 \mu\text{m}$ ) band.

13: Magnitudes of the closest X-ray counterparts in  $K_s$  ( $2.17 \mu\text{m}$ ) band.

14: Membership of X-ray source in their corresponding cluster. 'Y' represents the cluster member while 'N' represents non-member.

15: Masses of the sources estimated from color-magnitude diagrams of the clusters for cluster members in units of  $M_{\odot}$ .

16: The information of the source from Vizier database. the references are: Sk07 represents Skiff (2007); Cu10 represents Currie et al. (2010); S02 represents Slesnick et al. (2002); S05 represents Strom et al. (2005); Pic10 represents Pickles & Depagne (2010); Ogu02 represents Ogura et al. (2002); Ike08 represents Ikeda et al. (2008); Glebocki05 represents Glebocki & Gnacinski (2005); D'orazi09 represents D'Orazi & Randich (2009); Delgado11 represents Delgado et al. (2011); Kher09 represents Kharchenko & Roeser (2009); Fab02 represents Fabricius et al. (2002). The probability of the X-ray source for being a star is given from Flesch (2010; F110).