Table 2. All ISOCAM sources in L1551, with additional optical & near-IR photometry.

ISO-L1551	RA(2000)	DEC(2000)	$F_{6.7}$	$F_{14.3}$	B	V	R	I	J	H	K_S	6.7 μm	14.3 μm	Remarks
1	04:30:43.1	17:58:30	1.56			22.27		19.07	16.89	16.02	15.94	11.81		Sep 8″.2 S
								20.56						Sep 9″.2 E
2	04:30:43.7	17:54:25	0.79:	0.97:	15.9[d]	out	14.5	out	12.87	12.43	12.23	12.56:	10.72:	
3	04:30:48.4	18:18:36	4.95	3.18	17.58	16.10	14.7	13.84	11.82	10.97	10.56	10.56	09.44	
4	04:30:50.0	18:05:20	1.87		20.96	18.94		15.99	13.38	12.32	11.75	11.62		
5	04:30:50.9	18:13:00	1.44	1.88	22.56	20.33		17.24	14.54	13.24	12.75	11.90	10.01	
6	04:30:51.7	18:10:23	0.91			21.06		17.83	15.05	13.73	13.25	12.40		
7	04:30:52.1	17:59:00	2.55		21.19	19.83		18.21			15.92[e]	11.28		
8	04:30:52.8	18:18:19	1.12			20.01		16.88	14.12	12.81	12.24	12.17		
9	04:30:53.3	17:53:37	3.99		16.61	15.22	14.0	13.36	11.97	11.28	11.06	10.80		
10	04:30:53.8	17:59:09	2.00		22.62	20.74		17.50	15.43	14.52	14.18	11.55		near HH 256
11	04:30:54.2	17:58:24	17.96	2.55	16.72	sat	13.1	12.40	10.55	09.60	09.34	09.16	09.68	GSC1269:485
12	04:30:54.6	17:55:16	19.16	2.21	12.3[d]	sat	11.0	10.47	09.59	09.31	09.17	09.09	09.83	GSC1269:261
13	04:30:58.2	18:03:29	1.76	2.47		21.76		18.97	16.97	15.85	15.17	11.69	09.71	Galaxy ?
14	04:30:59.4	18:01:24		2.78									09.58	
15	04:30:59.8	18:04:25	8.01	1.84	17.96	16.16	14.7	13.71	11.61	10.66	10.28	10.04	10.03	
16	04:30:59.8	17:59:56	3.74		17.25	15.66	14.2	13.59	12.04	11.28	10.97	10.87		
17	04:31:00.2	18:03:45		0.99	22.59	21.41		18.78	16.69	15.82	15.48		10.70	Sep. 8″.9 ESE
						23.17		20.26						Sep. 3″.6 ESE
18	04:31:01.2	18:18:23	2.00		21.07	18.93		16.03	13.67	12.50	11.99	11.55		
19	04:31:01.8	18:03:00	0.97	2.07		21.39		18.69	16.42	15.80	15.25	12.33	09.90	
20	04:31:05.7	18:14:12	1.62						18.71	16.04	13.92	11.77		
21	04:31:05.8	18:03:19	4.79		17.43	15.94	15.0	13.26	11.69	11.10	10.84	10.60		L1551 X13[a]
22	04:31:05.9	18:01:48	0.95	1.52				19.72			14.93[e]	12.35	10.24	Galaxy ?
23	04:31:07.2	18:14:33	0.82						17.68	15.19	13.66	12.52		
24	04:31:08.2	18:08:12	1.18					19.22	15.53	14.04	13.29	12.12		
25	04:31:08.7	18:18:37		4.94									08.96	
26	04:31:08.9	18:19:02	1.59		19.63	17.84	16.6	15.18	13.48	12.56	12.31	11.80		Double (1″.8)
27	04:31:08.9	18:01:43	0.87	2.38				19.93			15.37[e]	12.45	09.75	Galaxy ?
28	04:31:09.0	18:03:44		1.51							17.7[e]		10.24	
29	04:31:11.2	18:11:05	0.80						16.90	14.65	13.38	12.54		
30	04:31:11.9	18:08:18	0.73									12.64		
31	04:31:12.5	18:17:49		4.21									09.13	
(32)	04:31:14.1	18:10:22		0.63									11.20	
33	04:31:15.9	18:09:15	5.72	0.75		22.61		18.07	13.88	12.15	11.29	10.41	11.01	
34	04:31:16.3	18:18:34	6.10		14.3[d]	sat	12.5	12.37	11.24	10.65	10.45	10.34		GSC1269:1201
35	04:31:17.6	18:06:24		1.82									10.04	HH 264 ?
36	04:31:17.6	18:01:53	1.06		22.36	20.06		16.78	14.08	12.94	12.42	12.23		
37	04:31:19.0	18:03:02		0.93							16.86[e]		10.77	
38	04:31:19.3	18:09:21	1.30					20.25	15.75	13.75	12.75	12.02		Close double ?
39	04:31:20.2	18:01:45	2.06		19.79	18.05	16.9	15.41	13.19	12.24	11.83	11.52		
40	04:31:21.2	17:59:49	0.62	1.03								12.82	10.66	X-ray source[f]
41	04:31:21.6	18:02:50	1.25		22.00	19.92		16.63	14.07	12.83	12.31	12.05		
42	04:31:22.5	18:14:51	0.75		18.60	17.10	15.9	15.13	13.56	12.67	12.44	12.61		
43	04:31:23.5	17:58:52	65.63	12.87	14.1[d]	sat	11.4	10.96	09.09	08.18	07.88	07.76	07.92	GSC1269:1017
44	04:31:24.3	18:00:25	8.53	1.27	20.38	18.67		14.50	11.65	10.92	10.57	9.97	10.43	MHO 4[b], X15[a]
45	04:31:24.6	18:13:30	0.85		18.44	16.98	15.9	15.05	13.49	12.78	12.50	12.47		Sep. 2″.7 ENE
						21.95		20.15						Sep. 2″.3 WSW
46	04:31:25.3	18:10:43	0.76									12.60		
47	04:31:25.5	18:16:19	48.56	7.62	11.0[d]	sat	09.9	sat	08.67	08.24	08.10	08.08	08.49	HD 285845
48	04:31:25.6	18:17:02	0.44		19.92	18.21	17.2	15.55	13.99	13.36	13.11	13.20		
49	04:31:26.3	18:05:52	4.25			21.98		18.28	14.75	13.30	12.58	10.73		Sep. 3″.3 W
					22.39	20.60		17.03	13.79	12.46	11.74			Sep. 5″.3 SE
50	04:31:26.6	18:06:59	1.40									11.93		HH 260 ?
51	04:31:27.0	18:10:41		12.30									07.96	
52	04:31:27.7	18:06:19	3.86									10.83		HH 29 ?
53	04:31:29.0	18:17:45		4.23									09.12	
(54)	04:31:29.1	18:18:16		1.29									10.42	
55	04:31:29.3	18:08:51	3.11		17.52	16.06	15.0	13.69	12.36	11.73	11.49	11.07		
(56)	04:31:29.9	18:06:10	1.01									12.29		
(57)	04:31:32.1	18:02:49	0.74									12.63		
58	04:31:33.4	18:04:57		1.24							16.71[e]		10.46	
59	04:31:34.0	18:05:34	1.32			23.24:		19.39	15.24	13.40	12.52	12.00		
(60)	04:31:35.2	18:01:54		0.58									11.27	
61	04:31:37.5	18:12:26	0.89	1.77	19.78	18.88	16.4	17.06	15.18	14.24	13.37	12.43	10.07	HH 30
62	04:31:37.6	18:02:58	1.67		19.90	18.14	17.2	15.72	13.73	12.66	12.34	11.75		
63	04:31:39.0	18:02:36	2.26		17.33	15.99	15.1	14.03	12.32	11.65	11.34	11.42		
(64)	04:31:40.7	18:09:03	2.36									11.37		
65	04:31:44.1	18:10:37	0.62	0.66							17.8[e]	12.82	11.15	VLA 21cm-15[c g]
(66)	04:31:44.2	18:12:38		1.07									10.62	
67	04:31:45.0	18:06:12		2.82									09.57	
68	04:31:45.3	18:14:37	11.08		17.55	16.28	15.1	14.13	11.86	10.67	10.06	09.69		
69	04:31:46.5	18:06:40		0.84									10.88	
70	04:31:55.7	18:11:00	1.60		20.18	18.33	17.0	15.27	13.31	12.45	12.12	11.79		
71	04:31:56.1	18:08:55	21.28	3.39	17.08	15.13	13.9	12.70	10.63	09.54	09.18	08.98	09.37	
72	04:31:56.4	18:13:36	0.87		20.82	19.48	19.1	17.60	16.21	15.26	15.09	12.45		
73	04:31:56.6	18:02:52	10.02	1.68	16.42	15.11	13.6	12.96	11.23	10.34	10.07	09.80	10.13	GSC1269:559
74	04:31:57.2	18:17:21	1.63	1.78		20.50		18.69			15.73[e]	11.77	10.06	Galaxy ?
75	04:31:57.6	18:11:21	1.81									11.66		
76	04:31:58.9	18:12:01	4.29								14.97[e]	10.72		
77	04:31:59.1	18:02:52	0.85		17.43	16.46	15.7	14.70	13.31	12.69	12.47	12.48		

Continued on next page...

Table 2. – continued from previous page

ISO-L1551	RA(2000)	DEC(2000)	$F_{6.7}$	$F_{14.3}$	B	V	R	I	J	H	K_S	6.7 μm	14.3 μm	Remarks
78	04:31:59.4	18:10:37	0.60		17.00	15.91	15.4	14.51	13.36	12.90	12.73	12.85		
79	04:31:59.5	18:13:49		6.67	21.33	20.10	19.2	18.47					08.63	Sep. 11″ N
						22.87		19.90						Sep. 14″ NNW
80	04:31:59.9	18:08:50	2.00		15.51	sat	13.9	13.25	12.13	11.67	11.48	11.55		GSC1269:777
81	04:32:00.6	18:12:09	2.69									11.23		
82	04:32:01.0	18:03:55		1.48									10.26	
83	04:32:01.1	18:12:33	2.42									11.34		HH / Galaxy ?
84	04:32:01.1	18:06:01	1.25		20.25	18.42	17.4	15.86	13.63	12.50	12.11	12.06		
85	04:32:01.1	18:05:07	0.61	1.34	22.39	20.91		18.88	16.63	15.49	15.05	12.84	10.37	Sep. 6.″0 SSE[h]
						22.91		19.86						Sep. 5.″3 NNE
86	04:32:01.3	18:11:29	3.24	3.86								11.02	09.22	HH 262 ?
87	04:32:01.5	18:11:59		2.22									09.83	HH object ?
88	04:32:02.6	18:03:15	0.55		17.44	16.18	15.2	14.72	13.52	12.99	12.79	12.94		
89	04:32:03.6	18:06:06	25.93	6.57	17.15	15.14	13.5	12.51	10.26	09.11	08.68	08.77	08.65	GSC1270:357
90	04:32:07.2	18:14:28	0.41		17.70	16.39	15.4	14.74	13.45	12.75	12.57	13.28		
91	04:32:07.4	18:16:28	4.54		16.24	sat	13.7	13.05	11.64	10.84	10.62	10.66		GSC1270:1234
92	04:32:07.4	18:09:05	0.82		16.54	15.55	14.7	14.20	13.07	12.60	12.44	12.51		
93	04:32:09.5	18:12:02	1.67									11.74		HH / Galaxy ?
94	04:32:10.9	18:17:41	3.26		14.0[d]	sat	12.8	12.54	11.63	11.29	11.13	11.02		GSC1270:401
(95)	04:32:13.4	18:17:51		0.80									10.93	
96	04:32:15.8	18:12:43	38.34	37.55	19.20	17.58	15.8	13.70	11.07	10.39	10.06	08.34	06.75	MHO 5[b]

[a] Carkner et al. 1996
[b] Briceño et al. 1998
[c] Giovanardi et al. 2000 – Could be an extragalactic triple radio source (Rodríguez & Cantó 1983)
[d] USNO A-2 catalogue has been used
[e] K-band magnitude (ARNICA/NOT)
[f] XMM-Newton-15, Favata et al. 2003
[g] XMM-Newton-35
[h] XMM-Newton-49