

Table S1. Heliocentric Redshifts for Observed Galaxies

RA (J2000)	Dec (J2000)	Field	m_R (mag)	v_{hel} (km s ⁻¹)	Δv_{hel} (km s ⁻¹)	RA (J2000)	Dec (J2000)	Field	m_R (mag)	v_{hel} (km s ⁻¹)	Δv_{hel} (km s ⁻¹)
12:52:07.1	-32:50:44	443	15.68	15056	81	13:04:58.8	-36:50:18	382	16.28	17698	13
12:52:35.2	-31:14:36	443	16.14	15580	40	13:05:07.9	-28:23:46	443	14.92	9471	93
12:52:55.8	-32:06:30	443	14.69	8739	126	13:05:26.1	-36:31:53	382	15.40	37525	71
12:53:23.8	-28:20:46	443	15.81	16403	60	13:05:36.9	-34:17:58	382	16.30	25647	42
12:53:24.3	-28:28:47	443	14.82	8140	31	13:05:43.7	-31:31:39	443	15.61	16416	82
12:53:33.0	-32:19:44	443	15.13	9277	74	13:05:49.4	-36:45:01	382	15.07	10092	72
12:53:40.6	-28:48:58	443	16.21	16633	132	13:06:02.3	-37:36:03	382	15.80	14899	97
12:53:55.1	-28:20:30	443	15.91	15938	166	13:06:03.2	-36:00:33	382	16.03	24066	96
12:54:11.2	-29:36:38	443	16.22	25584	100	13:06:15.9	-37:00:20	382	16.10	14943	69
12:54:23.0	-29:04:17	443	16.08	16380	96	13:06:20.1	-29:33:48	443	15.96	20080	71
12:54:31.4	-28:31:05	443	16.72	20873	34	13:06:31.9	-35:56:25	382	16.26	14737	72
12:54:39.9	-29:27:33	443	15.48	15132	127	13:06:34.4	-34:11:38	382	16.01	25475	184
12:54:55.5	-29:30:12	443	15.97	16340	86	13:06:46.7	-28:12:14	443	15.54	23485	88
12:55:09.0	-31:56:55	443	16.77	3439	71	13:06:51.1	-36:58:57	382	16.21	15011	215
12:55:11.6	-30:26:20	443	15.83	30321	79	13:06:56.1	-37:22:09	382	16.11	14058	47
12:55:40.1	-30:02:16	443	15.96	15571	96	13:07:10.0	-32:11:31	443	16.01	9342	17
12:55:40.3	-28:34:34	443	15.87	17033	71	13:07:20.1	-36:07:36	382	16.15	15099	75
12:55:43.6	-29:24:41	443	16.10	18479	94	13:07:32.9	-32:50:18	382	14.50	15419	132
12:55:54.2	-31:19:26	443	15.62	16232	94	13:07:36.7	-34:25:58	382	16.31	18872	37
12:56:25.0	-29:13:00	443	15.48	16993	68	13:07:44.6	-37:35:12	382	16.00	15024	60
12:56:27.8	-29:08:55	443	15.98	17719	19	13:08:00.5	-37:22:25	382	15.90	13228	117
12:56:43.5	-27:59:04	443	15.92	30909	96	13:08:05.0	-32:07:03	443	16.27	15372	33
12:56:50.5	-32:24:35	443	16.27	9039	25	13:08:06.2	-33:16:31	382	16.07	10171	150
12:56:57.9	-29:14:31	443	16.27	24623	39	13:08:07.5	-34:19:32	382	16.05	15174	163
12:57:01.3	-30:14:34	443	15.88	16698	174	13:08:11.0	-36:12:30	382	16.73	15763	139
12:57:16.2	-29:56:23	443	16.21	17550	107	13:08:11.1	-28:34:25	443	16.49	32243	105
12:57:18.3	-32:37:42	443	16.08	4737	135	13:08:12.9	-30:10:04	443	15.55	15262	31
12:57:19.0	-31:48:34	443	15.55	8289	97	13:08:18.7	-31:04:04	443	16.08	4478	62
12:57:24.8	-29:03:44	443	15.73	17863	129	13:08:27.7	-34:25:29	382	15.75	15067	78
12:57:28.0	-30:42:15	443	16.36	12097	109	13:08:58.9	-37:31:18	382	16.34	14312	81
12:57:29.9	-27:52:23	443	16.09	17497	139	13:09:02.8	-29:13:33	443	16.12	4416	37
12:57:34.9	-30:27:02	443	15.95	17241	64	13:09:20.1	-31:53:32	443	15.30	3965	72
12:57:58.5	-30:08:04	443	15.45	15159	130	13:09:21.9	-34:45:37	382	15.80	13201	76
12:58:05.7	-30:16:28	443	15.70	16662	52	13:09:34.5	-34:40:59	382	16.36	18578	77
12:58:08.4	-29:25:12	443	15.36	25974	88	13:09:43.7	-35:36:33	382	15.78	28284	52
12:58:26.8	-28:29:44	443	15.60	20571	92	13:09:47.6	-32:44:09	443	15.60	21832	130
12:58:42.5	-32:24:26	443	14.72	9237	64	13:09:55.8	-37:08:18	382	16.35	14350	61
12:59:03.3	-31:44:49	443	15.94	15520	86	13:10:05.3	-31:54:09	443	15.56	15013	75
12:59:05.2	-32:07:21	443	14.87	8442	60	13:10:16.0	-32:52:40	443	15.06	9510	109
12:59:19.5	-29:36:53	443	15.39	3025	29	13:10:22.2	-34:36:46	382	16.66	27522	60
12:59:43.7	-32:37:17	443	15.46	22833	81	13:10:28.5	-30:48:56	443	15.15	9646	45
13:00:21.0	-31:57:10	443	15.93	16317	61	13:10:37.1	-37:18:03	382	15.07	14555	42
13:00:24.1	-32:00:51	443	15.03	12359	81	13:10:48.9	-33:57:59	382	16.65	15113	95
13:00:30.6	-30:51:54	443	14.98	17057	93	13:10:49.6	-31:18:43	443	15.70	9349	80
13:00:33.0	-31:35:32	443	15.91	16787	95	13:11:06.5	-32:59:32	382	16.33	43801	44
13:00:56.2	-28:21:11	443	15.84	2485	53	13:11:07.2	-33:04:58	382	16.07	15899	84
13:01:18.2	-32:16:02	443	15.18	4614	39	13:11:14.0	-36:40:33	382	15.79	3363	89
13:01:31.8	-31:55:45	443	16.06	25297	64	13:11:14.5	-34:05:35	382	16.30	14837	25
13:02:01.7	-32:36:47	443	15.64	10635	47	13:11:24.7	-32:19:21	443	15.39	14942	34
13:02:26.3	-32:01:38	443	16.38	14294	91	13:11:31.6	-30:26:32	443	14.38	9563	63
13:03:01.2	-36:37:40	382	16.30	3443	36	13:11:38.5	-31:55:47	443	16.19	15192	54
13:03:21.2	-33:58:43	382	15.80	23713	68	13:11:49.4	-34:18:19	382	16.21	27235	66
13:03:24.9	-31:19:21	443	15.37	4912	25	13:11:55.5	-36:03:48	382	16.25	10491	54
13:03:43.4	-28:14:28	443	15.23	14523	82	13:12:04.6	-37:27:35	382	16.08	13069	119
13:03:44.2	-28:04:09	443	15.64	14633	127	13:12:07.0	-34:35:45	382	15.76	3196	80
13:03:54.2	-36:32:13	382	14.98	10298	56	13:12:22.4	-35:20:36	382	16.20	23360	77
13:04:15.6	-36:28:02	382	16.12	27469	33	13:12:24.3	-37:20:52	382	16.48	10414	81
13:04:15.9	-33:52:32	382	16.26	21437	126	13:12:26.5	-34:01:35	382	16.03	13063	141
13:04:22.1	-37:30:56	382	15.91	15818	101	13:12:41.1	-33:22:17	382	16.06	23141	79
13:04:22.6	-31:11:43	443	14.62	15752	109	13:12:43.8	-36:14:55	382	15.56	14386	63
13:04:27.9	-29:33:54	443	16.02	15441	43	13:13:01.6	-34:46:48	382	16.19	15159	154
13:04:30.3	-28:23:22	443	14.61	5280	124	13:13:18.5	-28:29:09	443	15.85	4306	23

(continues)

Table S1. (continued)

RA (J2000)	Dec (J2000)	Field	m_R (mag)	v_{hel} (km s^{-1})	Δv_{hel} (km s^{-1})	RA (J2000)	Dec (J2000)	Field	m_R (mag)	v_{hel} (km s^{-1})	Δv_{hel} (km s^{-1})
13:13:19.0	-32:56:44	382	16.51	29991	72	13:20:27.5	-34:19:44	382	16.12	15106	145
13:13:35.2	-33:22:19	382	16.35	29645	117	13:20:36.5	-34:07:57	382	16.25	23532	69
13:13:37.2	-31:20:43	443	16.58	14813	64	13:20:42.5	-34:55:57	382	16.19	15393	86
13:13:39.8	-32:50:37	443	15.61	15443	22	13:20:52.8	-28:13:06	444	16.04	15326	122
13:13:43.1	-35:26:01	382	15.51	7527	96	13:20:56.5	-37:16:17	382	16.32	15980	78
13:13:51.2	-36:32:39	382	15.16	14367	76	13:21:04.1	-33:03:00	382	15.73	15768	64
13:13:54.7	-30:38:42	443	14.96	4634	75	13:21:06.1	-35:35:59	382	15.95	15654	85
13:13:57.5	-33:55:05	382	15.11	15299	49	13:21:16.5	-35:11:34	382	15.63	20402	58
13:14:10.2	-34:05:42	382	15.20	15355	81	13:21:21.5	-35:48:47	382	16.02	15373	163
13:14:13.0	-37:13:28	382	16.59	10229	83	13:21:24.7	-32:46:33	444	15.15	14469	110
13:14:20.2	-37:11:45	382	14.96	10688	59	13:21:29.2	-36:10:04	382	15.61	15345	94
13:14:29.8	-33:23:03	382	15.11	8889	69	13:21:40.4	-34:56:16	382	15.76	15222	196
13:14:41.8	-33:21:38	382	16.04	14649	115	13:21:48.1	-35:32:18	382	15.09	13903	170
13:14:52.8	-32:45:27	382	16.45	30594	115	13:21:50.7	-33:52:30	382	16.27	35049	132
13:14:56.7	-32:39:50	443	15.65	14603	70	13:21:57.8	-35:45:17	382	15.89	16535	91
13:14:58.5	-32:45:21	443	16.17	31197	68	13:22:01.2	-28:22:16	444	15.08	14030	85
13:15:02.2	-29:45:56	443	15.68	14638	53	13:22:10.8	-34:47:52	382	15.96	15664	126
13:15:05.2	-32:15:00	443	15.36	14433	72	13:22:16.4	-34:37:12	382	16.01	15667	127
13:15:06.6	-32:53:08	443	16.23	14315	76	13:22:28.0	-33:29:03	382	16.40	3497	96
13:15:11.7	-33:38:20	382	15.03	14531	79	13:22:38.4	-35:52:12	382	16.14	14747	142
13:15:27.2	-32:42:38	444	14.76	13869	96	13:22:43.1	-33:26:07	382	14.93	14379	44
13:15:27.3	-32:43:12	443	16.22	14202	81	13:22:54.8	-35:02:55	382	15.55	7237	96
13:15:29.1	-37:11:20	382	16.00	10048	85	13:22:58.7	-32:42:47	382	15.28	8503	67
13:15:30.6	-28:17:04	443	15.15	4310	96	13:23:03.1	-34:59:07	382	15.73	16498	84
13:15:36.7	-29:30:18	443	15.40	16187	46	13:23:14.2	-35:19:36	382	16.16	14710	59
13:15:42.4	-32:42:11	443	15.79	14561	90	13:23:43.1	-34:27:36	382	16.00	15426	126
13:15:56.4	-28:29:07	443	15.96	14025	82	13:23:43.4	-35:53:43	382	15.30	3792	78
13:16:03.1	-36:58:56	382	16.21	31971	88	13:23:44.7	-27:59:30	444	15.22	13674	69
13:16:09.9	-32:53:13	382	15.55	15284	88	13:23:45.2	-31:42:27	444	16.58	15170	63
13:16:11.2	-31:11:26	443	15.21	11997	78	13:23:54.1	-34:39:38	382	15.06	14472	103
13:16:14.4	-31:23:14	443	16.64	40199	89	13:23:54.3	-32:10:56	444	14.83	15249	107
13:16:23.5	-35:16:13	382	16.32	11473	98	13:23:55.4	-29:18:22	444	15.99	14096	98
13:16:25.5	-32:51:45	382	16.42	14428	86	13:24:18.8	-31:38:41	444	15.29	14390	176
13:16:27.8	-32:12:57	443	16.16	10900	52	13:24:22.4	-32:53:42	382	15.67	14251	135
13:16:30.7	-37:28:30	382	15.99	14637	23	13:24:25.4	-30:15:03	444	15.20	3634	98
13:16:39.3	-32:15:11	443	16.78	14649	127	13:24:29.5	-33:58:35	382	15.81	14827	87
13:16:42.7	-33:15:46	382	15.66	14315	98	13:24:42.9	-36:17:50	382	15.68	10771	96
13:16:49.1	-35:47:36	382	16.16	32384	102	13:24:48.5	-34:22:33	382	15.71	8371	106
13:17:17.6	-31:48:55	444	16.14	14998	126	13:24:50.5	-31:33:38	444	16.35	14773	14
13:17:23.8	-33:26:57	382	15.83	15334	48	13:25:10.1	-33:54:41	382	16.64	27194	132
13:17:26.2	-33:55:36	382	15.43	15224	73	13:25:38.0	-36:35:20	382	15.69	15208	42
13:17:31.5	-31:36:27	444	16.16	15632	176	13:25:48.5	-37:17:02	382	15.96	10225	123
13:17:48.6	-33:13:32	382	16.45	25689	64	13:26:14.8	-37:02:44	382	16.40	19958	150
13:17:59.2	-37:25:52	382	15.25	7330	66	13:26:46.1	-31:31:43	444	16.33	14660	117
13:18:04.5	-30:09:18	444	15.69	9769	73	13:26:54.9	-34:10:39	382	16.14	14909	34
13:18:06.5	-35:48:30	382	15.74	3265	94	13:26:57.5	-32:11:52	444	16.05	13839	84
13:18:08.7	-32:01:06	444	14.74	4358	114	13:27:01.1	-30:04:34	444	15.69	1866	78
13:18:08.8	-36:59:01	382	15.87	14921	28	13:27:03.5	-31:13:31	444	15.56	16332	122
13:18:19.9	-37:18:41	382	15.81	15014	63	13:27:10.2	-37:05:00	382	15.77	14367	76
13:18:26.7	-33:18:03	382	15.09	4342	51	13:27:13.1	-36:25:34	382	15.82	14520	36
13:18:54.9	-33:25:31	382	16.12	13407	47	13:27:20.2	-36:29:38	383	15.47	14637	25
13:18:55.3	-31:49:03	444	15.05	15641	103	13:27:24.5	-32:18:00	444	15.90	14176	82
13:19:07.9	-37:14:05	382	15.34	14311	86	13:27:48.3	-32:37:16	383	15.94	11832	16
13:19:19.8	-33:18:31	382	16.36	15047	69	13:28:02.1	-31:46:10	444	16.34	15590	96
13:19:27.3	-33:21:16	382	16.37	14960	70	13:28:04.0	-32:45:43	383	15.51	11585	57
13:19:28.9	-35:06:08	382	15.29	1247	28	13:28:09.0	-31:40:52	444	15.56	12200	135
13:19:29.3	-33:31:03	382	14.84	14981	98	13:28:13.1	-30:14:32	444	15.57	12776	81
13:19:29.9	-33:54:56	382	15.65	8432	37	13:28:32.2	-33:59:50	383	16.05	24960	71
13:19:40.0	-36:58:19	382	16.16	11687	66	13:28:32.6	-34:12:23	383	15.96	14661	129
13:19:57.1	-34:17:47	382	15.99	23525	110	13:29:01.1	-33:30:23	383	16.27	14540	52
13:20:13.5	-35:06:17	382	16.12	13924	121	13:29:01.8	-28:50:22	444	15.15	12289	58
13:20:19.5	-37:05:36	382	15.76	2359	47	13:29:17.0	-32:02:34	444	15.29	14060	114

(continues)

Table S1. (continued)

RA (J2000)	Dec (J2000)	Field	m_R (mag)	v_{hel} (km s ⁻¹)	Δv_{hel} (km s ⁻¹)	RA (J2000)	Dec (J2000)	Field	m_R (mag)	v_{hel} (km s ⁻¹)	Δv_{hel} (km s ⁻¹)
13:29:28.3	-31:33:04	444	14.69	15430	87	13:36:29.0	-33:05:32	383	15.51	15688	105
13:29:40.1	-28:15:57	444	15.03	10015	119	13:36:33.1	-34:04:28	383	15.81	3787	43
13:29:45.1	-32:52:22	383	16.99	16678	54	13:36:34.6	-29:05:21	444	14.67	4516	89
13:29:56.8	-29:14:31	444	16.11	14201	114	13:36:53.9	-36:34:15	383	14.91	17625	73
13:30:01.3	-27:58:29	444	15.64	10237	114	13:36:57.8	-34:23:59	383	16.06	4133	76
13:30:12.1	-29:30:06	444	16.41	14488	30	13:37:01.0	-28:32:01	444	16.41	15262	98
13:30:12.7	-32:48:22	383	15.64	15666	78	13:37:02.9	-33:49:24	383	16.27	13931	87
13:30:30.2	-34:37:16	383	15.23	21467	84	13:37:21.0	-34:53:25	383	15.00	29247	103
13:30:40.8	-31:51:55	444	16.13	14470	75	13:37:34.3	-31:52:43	444	16.82	11598	98
13:31:01.4	-32:37:18	383	16.26	15986	64	13:37:37.5	-34:31:57	383	15.73	22108	68
13:31:09.6	-32:44:13	383	16.16	3468	95	13:37:41.6	-33:51:10	383	16.02	11289	85
13:31:23.4	-33:53:52	383	16.18	22089	90	13:37:43.3	-35:29:44	383	15.93	15162	89
13:31:51.4	-36:57:20	383	15.99	14996	97	13:37:47.7	-36:13:56	383	16.39	15316	57
13:32:00.2	-36:18:35	383	15.61	20282	59	13:37:52.5	-35:38:27	383	15.47	15695	71
13:32:05.4	-33:47:22	383	15.69	8770	66	13:38:08.1	-35:03:44	383	15.22	15162	92
13:32:07.0	-33:19:03	383	15.36	13640	98	13:38:12.1	-31:57:02	444	15.90	14694	127
13:32:15.2	-33:22:40	383	15.36	15243	81	13:38:14.2	-32:51:05	383	15.93	11489	23
13:32:24.0	-33:14:19	383	15.25	13916	47	13:38:21.4	-35:57:42	383	16.39	11327	74
13:32:27.2	-37:30:48	383	15.55	15295	29	13:38:45.4	-35:28:24	383	15.86	14685	37
13:32:31.3	-33:09:42	383	15.19	14770	96	13:38:54.6	-36:26:51	383	16.22	13789	55
13:32:34.3	-37:17:36	383	16.04	15687	101	13:38:57.5	-35:27:56	383	15.26	15803	139
13:32:41.2	-35:09:15	383	15.90	15122	39	13:38:57.8	-35:37:29	383	16.46	15223	89
13:32:48.8	-29:01:04	444	15.57	5526	93	13:38:58.9	-36:35:39	383	15.83	13755	74
13:32:52.2	-34:43:06	383	16.00	36879	77	13:38:59.9	-32:36:04	444	16.18	16298	77
13:32:55.1	-33:10:13	383	15.90	15698	50	13:39:01.2	-30:58:13	445	15.09	4107	95
13:33:01.5	-33:06:01	383	15.44	14951	53	13:39:10.0	-31:00:36	445	15.46	22962	106
13:33:05.7	-33:18:04	383	14.95	14838	115	13:39:10.3	-36:54:55	383	16.27	15741	44
13:33:07.0	-34:26:59	383	15.91	7491	16	13:39:10.7	-34:02:35	383	16.73	21245	28
13:33:07.0	-37:29:59	383	16.07	15164	67	13:39:26.0	-35:28:01	383	16.54	19147	68
13:33:09.6	-31:36:12	444	15.33	14559	123	13:39:26.5	-36:20:36	383	15.81	36756	104
13:33:12.6	-36:24:25	383	16.24	11095	87	13:39:31.1	-35:40:25	383	15.88	16009	51
13:33:25.4	-33:56:57	383	15.11	22010	143	13:39:36.6	-34:01:06	383	16.32	15268	76
13:33:25.8	-33:56:11	383	16.24	13810	67	13:39:36.9	-35:40:06	383	15.74	15791	78
13:33:35.4	-31:28:25	444	15.84	15201	74	13:39:42.5	-35:48:51	383	15.54	15047	43
13:33:44.9	-36:07:21	383	15.70	14951	63	13:39:43.6	-35:56:43	383	16.21	29346	77
13:33:45.6	-35:24:20	383	16.26	15377	147	13:39:48.3	-33:39:19	383	15.80	15381	43
13:33:53.5	-35:23:01	383	16.21	21640	89	13:39:48.4	-33:05:02	383	16.72	15345	135
13:34:04.4	-35:19:44	383	16.16	12454	79	13:39:52.1	-32:05:42	445	15.77	11627	67
13:34:05.6	-28:09:33	444	15.89	9187	74	13:39:58.8	-28:03:05	445	15.10	14314	70
13:34:07.4	-31:29:21	444	15.46	14842	89	13:40:03.9	-33:04:04	383	16.15	11841	59
13:34:11.6	-35:04:02	383	16.17	14917	69	13:40:06.5	-32:50:26	383	16.27	7254	14
13:34:12.6	-32:58:38	383	15.96	15177	70	13:40:06.0	-34:21:10	383	15.00	21441	89
13:34:13.7	-29:22:36	444	14.97	14008	96	13:40:16.8	-30:24:50	445	16.00	15199	76
13:34:19.2	-35:17:27	383	15.79	14976	60	13:40:30.3	-33:59:18	383	16.14	14867	61
13:34:22.7	-35:24:51	383	16.04	9416	65	13:40:33.7	-35:40:26	383	15.88	15641	57
13:34:23.2	-31:44:07	444	15.70	16271	85	13:40:40.8	-30:26:59	445	15.83	4496	114
13:34:33.1	-36:48:32	383	15.26	2398	17	13:40:41.7	-32:18:03	445	15.30	14394	59
13:34:36.1	-35:20:50	383	16.28	14027	51	13:40:42.5	-30:17:49	445	15.94	11840	45
13:34:41.1	-35:02:10	383	15.64	2367	21	13:40:43.9	-37:02:05	383	14.89	21697	77
13:34:41.6	-33:31:12	383	15.87	3148	84	13:40:45.0	-31:47:24	445	16.14	11583	57
13:34:45.7	-35:13:53	383	15.53	16579	20	13:40:52.5	-34:08:12	383	16.78	15579	30
13:34:49.9	-34:14:44	383	15.60	3945	67	13:40:54.3	-33:40:33	383	15.82	15167	66
13:34:54.7	-35:32:56	383	16.05	14931	83	13:40:54.9	-28:06:47	445	15.72	10964	61
13:35:07.4	-36:38:22	383	15.99	15278	15	13:41:05.3	-34:22:22	383	16.66	15485	98
13:35:09.0	-34:02:06	383	16.82	3878	52	13:41:16.2	-35:39:18	383	15.19	15068	85
13:35:18.2	-37:17:39	383	15.39	9426	67	13:41:16.4	-30:51:03	445	16.94	4519	55
13:35:18.4	-31:25:34	444	16.30	14845	86	13:41:32.8	-34:22:53	383	15.98	16973	66
13:35:23.1	-34:09:39	383	15.43	7208	66	13:41:33.5	-33:56:22	383	15.75	15161	48
13:35:39.1	-31:43:01	444	15.07	11794	98	13:41:34.8	-30:33:46	445	15.73	15595	73
13:35:46.8	-35:34:14	383	16.28	15438	54	13:41:36.3	-31:52:47	445	15.55	11467	39
13:35:49.8	-34:14:32	383	14.80	3372	77	13:41:42.0	-34:04:14	383	16.17	14610	47
13:36:15.3	-36:53:45	383	15.48	3897	79	13:41:46.6	-35:52:42	383	15.38	11378	62

(continues)

Table S1. (continued)

RA (J2000)	Dec (J2000)	Field	m_R (mag)	v_{hel} (km s ⁻¹)	Δv_{hel} (km s ⁻¹)	RA (J2000)	Dec (J2000)	Field	m_R (mag)	v_{hel} (km s ⁻¹)	Δv_{hel} (km s ⁻¹)
13:41:49.4	-33:11:06	383	14.71	11945	65	13:46:19.0	-31:45:44	445	15.86	12502	54
13:41:52.3	-32:34:39	445	15.44	12074	98	13:46:22.2	-33:10:22	383	15.72	11760	52
13:41:53.0	-35:11:31	383	16.12	29928	49	13:46:25.0	-29:53:18	445	16.05	11359	64
13:41:54.9	-32:26:36	445	16.19	11748	43	13:46:25.0	-31:09:02	445	15.62	4121	44
13:42:19.0	-29:46:52	445	15.64	14476	65	13:46:25.6	-32:39:58	383	16.74	12884	52
13:42:22.3	-37:11:27	383	15.33	11288	31	13:46:28.3	-28:00:59	445	15.35	24039	109
13:42:29.1	-34:52:39	383	16.70	4454	51	13:46:30.8	-32:28:45	445	15.98	10352	52
13:42:36.6	-34:52:40	383	16.17	26968	47	13:46:33.1	-30:33:00	445	15.95	14399	69
13:42:39.4	-37:37:01	383	16.23	10122	76	13:46:34.0	-35:12:01	383	15.34	11423	15
13:42:41.6	-27:58:34	445	16.13	13858	57	13:46:35.4	-28:20:09	445	15.91	2612	94
13:42:44.6	-34:05:35	383	16.95	7543	13	13:46:37.0	-32:23:11	445	15.58	15259	55
13:42:49.9	-36:10:21	383	15.94	21887	155	13:46:39.6	-30:47:30	445	15.65	14781	71
13:42:50.7	-32:08:02	445	15.98	13325	54	13:46:40.9	-31:34:53	445	16.01	11035	64
13:42:53.6	-31:07:17	445	15.94	4557	29	13:46:42.9	-30:51:59	445	15.54	5092	78
13:42:55.7	-34:58:17	383	15.40	16170	50	13:46:47.7	-28:38:59	445	14.82	11091	39
13:42:58.8	-31:53:10	445	14.74	11689	64	13:46:48.9	-29:45:21	445	15.54	14350	48
13:42:59.3	-33:58:07	383	16.20	15096	30	13:46:52.5	-30:48:40	445	16.47	11758	105
13:43:14.0	-28:28:17	445	16.08	10975	68	13:46:55.2	-33:19:03	383	15.58	11113	157
13:43:21.6	-36:19:22	383	16.17	24883	122	13:47:01.4	-35:18:51	383	16.53	11453	47
13:43:25.9	-33:14:48	383	15.96	12267	97	13:47:02.7	-32:29:15	445	16.14	10681	66
13:43:29.8	-29:49:21	445	15.96	23270	72	13:47:02.9	-37:27:31	383	15.99	11357	50
13:43:29.9	-37:38:48	383	15.82	11113	52	13:47:08.5	-32:54:27	383	16.04	12304	159
13:43:33.9	-34:46:52	383	15.47	17030	72	13:47:09.4	-33:23:36	383	14.94	11518	77
13:43:36.9	-36:25:03	383	15.07	4311	59	13:47:10.5	-32:30:56	445	16.37	11840	52
13:43:39.2	-27:48:29	445	15.57	12231	58	13:47:13.1	-33:38:41	383	15.68	13010	70
13:43:46.5	-35:04:30	383	15.29	14681	71	13:47:18.4	-36:22:28	383	15.83	10963	66
13:43:49.0	-29:44:40	445	15.01	4123	68	13:47:19.1	-29:05:55	445	15.50	11548	32
13:43:54.1	-29:50:02	445	16.10	4687	37	13:47:22.6	-33:05:47	383	14.58	11694	49
13:43:54.3	-35:46:16	383	14.83	11637	28	13:47:22.7	-30:37:22	445	15.88	4127	80
13:43:54.6	-36:11:42	383	16.42	11298	103	13:47:22.8	-33:36:11	383	14.85	16117	48
13:44:08.7	-34:20:26	383	15.94	11202	76	13:47:29.8	-32:08:29	445	15.53	12689	54
13:44:17.2	-34:06:31	383	15.88	11818	71	13:47:34.2	-30:40:03	445	15.51	11952	52
13:44:17.6	-27:47:30	445	15.99	13811	110	13:47:40.2	-28:18:16	445	16.07	11107	155
13:44:18.4	-36:37:45	383	16.21	11498	46	13:47:46.3	-30:21:58	445	15.47	3827	88
13:44:39.6	-32:39:14	383	15.81	12438	76	13:47:47.4	-32:19:45	445	15.44	11678	60
13:44:42.0	-34:00:51	383	15.21	15271	23	13:47:50.0	-33:11:01	383	16.12	10328	29
13:44:43.7	-35:26:02	383	15.82	37694	72	13:47:53.8	-29:06:26	445	15.85	14756	46
13:44:43.9	-30:03:28	445	16.40	4521	29	13:47:58.5	-32:52:08	383	15.74	11789	80
13:44:45.3	-33:36:07	383	15.14	11063	31	13:48:01.6	-31:48:50	445	15.33	12277	115
13:48:44.7	-30:10:59	445	15.62	11833	69	13:48:02.9	-31:27:47	445	15.16	4862	33
13:44:49.3	-34:37:47	383	15.14	14660	48	13:48:03.6	-32:37:46	445	15.07	10447	60
13:44:51.2	-32:03:59	445	15.91	11131	49	13:48:04.4	-33:21:03	383	14.71	11901	34
13:44:54.0	-27:54:03	445	16.06	11011	49	13:48:06.1	-32:30:34	445	16.36	11666	55
13:45:02.7	-32:53:27	383	16.08	12085	83	13:48:09.1	-27:42:57	445	16.05	11348	62
13:45:02.9	-35:14:00	383	14.55	17045	66	13:48:11.8	-32:47:20	383	16.17	12585	138
13:45:04.2	-31:38:06	445	15.67	4671	47	13:48:14.3	-30:44:17	445	15.88	14738	79
13:45:05.7	-29:26:20	445	14.92	14738	56	13:48:18.0	-32:09:11	445	15.78	29272	73
13:45:17.5	-32:38:48	383	16.08	9469	41	13:48:21.4	-29:59:23	445	15.66	5117	82
13:45:25.7	-29:51:03	445	15.54	14846	74	13:48:24.4	-34:41:06	383	16.10	13896	88
13:45:29.1	-36:46:59	383	16.23	7633	80	13:48:25.1	-27:34:10	445	14.90	11118	102
13:45:33.3	-35:16:10	383	16.06	17237	50	13:48:27.3	-35:53:45	383	14.93	7538	52
13:45:35.5	-31:53:36	445	15.90	23564	46	13:48:29.7	-29:31:55	445	16.66	4235	160
13:45:37.0	-30:47:12	445	16.90	22436	72	13:48:33.0	-35:41:09	383	16.17	30107	78
13:45:40.6	-30:51:08	445	15.01	40196	74	13:48:37.5	-29:02:26	445	16.09	14697	42
13:45:40.9	-29:53:38	445	16.17	4351	64	13:48:42.8	-34:39:25	383	15.95	27740	73
13:45:41.5	-35:21:35	383	15.67	17363	38	13:48:42.8	-28:33:52	445	16.00	28728	72
13:45:49.6	-34:01:54	383	15.81	15058	33	13:48:45.9	-37:29:47	383	16.14	11128	83
13:45:56.0	-32:13:44	445	16.15	15174	74	13:48:48.9	-32:06:52	445	15.79	12523	55
13:45:57.2	-33:16:32	383	14.74	11407	65	13:48:55.3	-30:24:24	445	14.78	4681	52
13:46:01.4	-33:44:39	383	16.14	24838	61	13:48:58.0	-32:51:26	383	14.82	11396	42
13:46:02.8	-30:10:06	445	16.14	4542	80	13:48:58.4	-30:57:47	445	15.36	4597	66
13:46:11.5	-34:29:50	383	15.12	24806	35	13:48:59.0	-33:24:38	383	15.89	10868	31

(continues)

Table S1. (continued)

RA (J2000)	Dec (J2000)	Field	m_R (mag)	v_{hel} (km s^{-1})	Δv_{hel} (km s^{-1})	RA (J2000)	Dec (J2000)	Field	m_R (mag)	v_{hel} (km s^{-1})	Δv_{hel} (km s^{-1})
13:49:00.3	-33:58:12	383	16.07	11327	35	13:53:05.8	-28:47:58	445	15.89	5344	79
13:49:03.7	-28:04:44	445	15.59	4883	76	13:53:12.8	-30:25:31	445	15.43	21992	124
13:49:05.9	-30:28:47	445	14.97	4157	29	13:53:16.5	-28:59:59	445	15.98	4621	84
13:49:14.1	-30:20:13	445	16.10	3800	71	13:53:21.9	-29:23:34	445	15.89	14887	50
13:49:23.6	-28:55:08	445	16.17	14997	70	13:53:27.9	-27:58:28	445	15.53	15835	93
13:49:25.3	-32:09:21	445	15.70	11477	65	13:53:28.9	-27:52:43	445	16.50	13576	96
13:49:27.1	-30:03:03	445	16.10	11869	91	13:53:30.2	-35:37:48	384	15.41	11175	70
13:49:29.0	-31:25:42	445	15.75	14777	93	13:53:32.2	-34:07:09	384	16.64	11028	28
13:49:35.8	-30:09:23	445	15.56	4719	61	13:53:40.6	-33:56:57	384	15.54	11107	56
13:49:39.7	-29:20:55	445	15.44	15212	55	13:53:44.6	-30:31:41	445	16.05	7056	25
13:49:44.5	-30:08:20	445	14.96	22419	58	13:53:49.9	-27:51:24	445	16.61	14152	114
13:49:48.8	-29:36:41	445	14.69	4280	63	13:53:55.7	-29:26:06	445	15.71	4358	68
13:49:51.3	-27:30:49	445	14.98	11670	50	13:53:59.1	-27:57:08	445	15.49	13819	80
13:49:51.4	-35:28:59	383	16.24	28576	122	13:54:00.2	-31:04:59	445	16.30	15011	56
13:49:53.6	-33:17:23	383	16.42	16129	67	13:54:03.9	-27:51:41	445	15.65	15408	117
13:49:54.3	-28:08:57	445	15.78	14513	63	13:54:07.6	-32:54:04	384	15.21	4397	37
13:49:55.9	-30:40:52	445	16.02	12335	136	13:54:17.6	-30:18:08	445	15.91	21993	68
13:50:00.1	-36:45:49	383	16.10	30091	89	13:54:18.1	-36:55:25	384	15.29	15204	83
13:50:07.2	-31:15:07	445	14.43	14416	62	13:54:18.7	-30:29:54	445	16.55	12620	55
13:50:09.6	-30:45:23	445	15.48	14731	87	13:54:18.7	-34:44:43	384	16.14	14923	24
13:50:12.7	-31:16:50	445	15.14	4649	93	13:54:20.5	-32:12:25	445	15.25	12016	56
13:50:15.4	-30:20:09	445	15.99	22737	103	13:54:26.2	-27:52:22	445	16.07	15931	76
13:50:16.1	-33:04:29	383	14.86	10522	50	13:54:34.8	-31:28:12	445	16.22	5685	39
13:50:22.7	-32:08:23	445	15.86	12267	49	13:54:42.0	-32:31:29	445	16.12	23230	126
13:50:31.4	-32:40:45	383	15.83	11098	51	13:54:47.8	-29:54:34	445	15.95	21816	63
13:50:33.4	-31:09:05	445	14.68	11648	65	13:54:56.1	-31:49:33	445	15.48	14936	58
13:50:35.7	-32:13:34	445	16.08	4673	31	13:54:57.0	-32:17:25	445	16.69	11385	99
13:50:38.8	-30:51:04	445	15.00	4294	42	13:55:07.9	-29:05:45	445	16.19	13782	60
13:50:42.4	-32:53:42	383	15.74	11270	37	13:55:14.0	-29:20:38	445	16.19	12880	83
13:50:51.0	-31:51:41	445	15.80	11575	64	13:55:18.1	-32:12:41	445	16.23	21456	53
13:50:52.5	-36:48:19	384	16.13	4137	16	13:55:24.4	-31:18:21	445	16.01	22978	71
13:50:59.1	-27:53:13	445	16.37	15688	30	13:55:49.1	-27:41:18	445	15.44	11902	39
13:51:02.6	-30:56:59	445	15.31	14853	71	13:55:57.1	-29:08:02	445	15.56	11387	32
13:51:04.5	-36:05:01	383	16.24	22610	95	13:56:04.6	-29:19:00	445	16.13	4623	61
13:51:05.6	-31:03:08	445	15.07	14602	59	13:56:07.3	-28:19:37	445	15.67	30343	118
13:51:07.7	-31:25:42	445	15.26	14720	46	13:56:15.2	-27:35:54	445	16.94	11914	36
13:51:10.5	-33:44:53	383	16.58	12172	71	13:56:21.3	-35:10:48	384	16.11	18901	93
13:51:14.5	-31:45:55	445	15.77	15593	69	13:56:32.6	-32:29:20	445	16.29	4512	32
13:51:20.5	-31:50:14	445	15.24	15438	66	13:56:45.6	-31:35:08	445	16.26	24209	93
13:51:25.3	-28:16:23	445	14.49	4706	56	13:56:49.5	-35:33:58	384	15.52	26685	100
13:51:27.4	-29:15:21	445	16.35	11834	84	13:56:52.3	-30:53:46	445	15.62	12514	58
13:51:30.7	-29:51:10	445	15.38	14709	96	13:57:05.6	-36:05:46	384	15.18	10888	62
13:51:31.7	-32:01:09	445	15.92	29299	114	13:57:14.4	-31:36:01	445	16.70	11137	54
13:51:41.7	-30:16:17	445	16.03	22321	60	13:57:17.3	-33:23:47	384	16.27	27528	40
13:51:44.1	-28:14:53	445	15.04	5064	112	13:57:23.0	-31:14:33	445	16.95	22480	84
13:51:46.0	-29:19:09	445	15.86	14146	38	13:57:27.6	-33:04:42	384	16.40	27843	59
13:51:46.6	-28:54:34	445	16.09	13756	137	13:58:05.3	-33:30:58	384	15.45	4333	15
13:51:49.1	-30:18:36	445	16.42	7036	48	13:58:06.7	-32:36:53	445	15.30	4205	85
13:51:52.1	-28:27:34	445	15.39	11130	107	13:58:18.5	-30:28:01	445	15.42	11424	55
13:51:54.8	-34:04:36	384	15.71	11064	38	13:58:31.6	-28:42:43	445	15.77	4975	30
13:51:55.7	-30:03:32	445	15.11	22269	76	13:58:36.6	-30:51:09	445	16.97	4395	22
13:52:07.2	-31:49:52	445	16.89	4409	24	13:58:57.2	-34:24:29	384	15.23	53089	75
13:52:07.9	-30:27:06	445	15.80	4671	81	13:59:07.8	-28:47:08	445	15.08	11266	59
13:52:09.1	-31:04:34	445	14.98	14569	83	13:59:16.3	-28:31:20	445	16.18	6786	28
13:52:15.3	-29:00:14	445	16.31	13807	81	13:59:18.3	-30:48:36	445	15.86	11270	52
13:52:25.8	-35:49:34	384	15.28	21934	66	13:59:34.0	-32:04:06	445	14.88	15231	33
13:52:30.6	-27:56:23	445	15.63	14854	54	13:59:36.7	-30:55:04	445	15.48	15574	51
13:52:37.4	-28:02:08	445	15.44	15393	85	13:59:37.0	-31:01:51	445	16.29	22042	58
13:52:51.7	-28:48:12	445	15.37	5321	68	13:59:41.3	-29:17:14	445	15.71	15129	92
13:52:54.1	-30:51:18	445	14.83	6910	58	13:59:42.9	-28:41:32	445	16.41	13669	66
13:52:55.5	-28:34:00	445	16.23	14658	73	13:59:53.9	-31:08:55	445	16.07	27343	56
13:52:56.7	-27:54:35	445	14.48	14988	94	13:59:57.0	-28:06:50	445	15.42	34600	124

(continues)

Table S1. (continued)

RA (J2000)	Dec (J2000)	Field	m_R (mag)	v_{hel} (km s ⁻¹)	Δv_{hel} (km s ⁻¹)	RA (J2000)	Dec (J2000)	Field	m_R (mag)	v_{hel} (km s ⁻¹)	Δv_{hel} (km s ⁻¹)
13:59:58.4	-28:23:43	445	16.28	14855	99	14:07:24.0	-32:18:35	446	16.12	22511	69
14:00:00.5	-29:05:26	445	16.82	16506	29	14:07:34.8	-37:21:42	384	16.32	10654	44
14:00:19.9	-35:46:57	384	16.02	23394	80	14:07:40.4	-31:43:37	446	15.64	17605	72
14:00:20.7	-36:01:50	384	16.56	18696	77	14:07:50.6	-34:51:27	384	15.96	10296	79
14:00:31.9	-32:36:04	445	15.95	18065	73	14:07:56.8	-30:05:56	446	16.02	9050	62
14:00:47.6	-31:31:34	445	16.71	24726	64	14:07:59.8	-37:16:45	384	16.28	11456	99
14:00:48.5	-30:30:11	445	16.07	20626	94	14:08:37.1	-34:12:15	384	16.96	10219	54
14:00:53.1	-36:29:23	384	16.07	4117	34	14:08:56.0	-36:19:57	384	16.28	11100	53
14:00:55.3	-28:23:05	445	16.70	15124	78	14:09:03.1	-34:18:58	384	15.72	11337	26
14:01:07.0	-36:00:19	384	15.81	16903	145	14:09:16.2	-31:12:13	446	16.47	4172	13
14:01:12.3	-31:27:36	445	15.62	24495	76	14:09:53.6	-35:23:28	384	16.10	11369	62
14:01:36.9	-29:39:05	445	15.98	28459	89	14:10:06.5	-34:00:39	384	16.37	30000	68
14:01:39.8	-29:56:50	445	16.91	21966	48	14:10:08.8	-31:24:31	446	16.12	25700	87
14:01:43.9	-36:17:09	384	15.87	15400	73	14:10:11.5	-36:11:29	384	16.27	13154	39
14:01:50.3	-29:41:50	445	16.02	28139	153	14:10:18.4	-33:16:13	384	15.47	16151	88
14:01:53.6	-30:20:19	445	16.07	15854	67	14:10:48.2	-33:44:47	384	15.00	30212	112
14:01:56.3	-30:08:02	445	16.79	20020	78	14:10:48.7	-36:44:11	384	16.24	18759	97
14:02:01.1	-34:10:13	384	16.10	3605	78	14:11:01.9	-34:20:08	384	16.90	22947	100
14:02:02.9	-29:42:49	445	15.49	29164	126	14:11:17.7	-34:03:21	384	16.77	11146	22
14:02:05.4	-34:27:24	384	15.89	19629	61	14:11:26.7	-32:06:05	446	16.34	18513	80
14:02:09.3	-32:28:08	445	16.08	20993	118	14:11:34.2	-33:09:19	384	15.65	16048	48
14:02:11.3	-28:53:33	445	15.83	5761	61	14:12:32.6	-33:04:23	384	16.44	15729	31
14:02:18.1	-28:29:20	445	15.62	16976	113	14:12:38.9	-35:25:50	384	16.28	11579	73
14:02:22.9	-29:03:00	445	16.28	22158	90	14:12:53.9	-32:53:03	384	16.91	15003	85
14:02:34.5	-33:50:49	384	16.70	3839	58	14:13:00.4	-34:42:49	384	16.76	37950	60
14:02:35.6	-28:44:55	445	16.81	21358	79	14:13:00.9	-34:39:09	384	15.87	11196	52
14:02:35.8	-31:14:59	446	15.80	19205	98	14:13:10.2	-32:04:38	446	15.90	4334	62
14:02:43.1	-32:34:19	445	15.45	6991	111	14:13:14.6	-34:05:58	384	16.53	11410	55
14:02:44.7	-34:57:45	384	16.40	4125	73	14:13:23.3	-34:30:47	384	16.75	11199	54
14:02:46.4	-33:07:26	384	15.72	11273	57	14:13:31.2	-36:37:43	384	16.21	30392	60
14:02:50.6	-37:02:24	384	16.54	19169	66	14:14:05.5	-32:10:06	446	16.48	27822	85
14:03:04.7	-30:37:57	445	15.75	11684	112	14:15:11.2	-33:36:45	384	16.30	11427	98
14:03:14.8	-32:10:59	446	16.11	16985	41	14:15:48.7	-32:29:44	446	16.44	3823	9
14:03:24.8	-32:58:16	384	15.49	11610	57	14:15:55.6	-28:33:45	446	16.75	16898	67
14:03:28.8	-29:05:20	446	15.65	11260	71	14:16:38.6	-31:00:09	446	16.29	28461	70
14:03:40.5	-34:10:58	384	16.45	4474	47	14:17:51.5	-32:39:53	446	16.79	31473	131
14:04:02.3	-35:43:25	384	15.08	10420	51	14:18:06.4	-31:37:21	446	17.14	45265	58
14:04:16.7	-33:36:48	384	16.58	11458	43	14:18:35.4	-31:41:01	446	17.01	15894	66
14:04:29.1	-28:03:08	446	16.28	6948	55	14:19:13.8	-31:01:52	446	17.16	20616	91
14:04:32.6	-34:18:17	384	15.80	15930	106	14:21:15.9	-30:46:14	446	17.35	31472	61
14:05:09.9	-35:58:51	384	15.62	19012	65	14:21:20.1	-31:43:40	446	17.07	38635	83
14:05:31.5	-32:56:05	384	16.36	11762	42	14:21:34.9	-30:53:51	446	17.01	31718	80
14:06:25.2	-34:17:14	384	15.60	4840	69	14:22:16.8	-32:16:54	446	17.07	11846	65
14:06:43.0	-32:00:57	446	15.81	17046	91	14:23:47.6	-28:44:19	446	17.02	10749	33
14:07:02.7	-33:54:07	384	16.73	4125	55	14:24:07.2	-30:06:03	446	17.05	8879	67