

Table 4: H $\alpha$  fluxes for 178 true and possible PNe measured from VTSS

PNG	Name	RAJ2000	DEJ2000	logF(H $\alpha$ )	$r_{\text{aper}}$	$N_f$	$c_\beta$	Note
118.0-08.6	Vy 1-1	00:18:42.2	53:52:20	-10.95±0.09	4.8	1	0.38	6,10?
119.3+00.3	BV 5-1	00:20:00.5	62:59:03	-11.62±0.18	5.0	1	...	4,5
119.6-06.1	Hu 1-1	00:28:15.6	55:57:55	-11.00±0.08	3.2	1	0.44	
121.6+00.0	BV 5-2	00:40:21.6	62:51:34	-11.60±0.14	3.2	1	...	1,4
122.1-04.9	Abell 2	00:45:34.7	57:57:35	-11.61±0.10	3.2	2	...	6
124.3-07.7	WeSb 1	01:00:53.3	55:03:48	-12.1±0.2	9.3	1	...	
126.3+02.9	K 3-90	01:24:58.6	65:38:36	-11.90±0.12	3.2	1	...	5,6
130.3-11.7	M 1-1	01:37:19.4	50:28:12	-11.33±0.10	3.2	1	...	
130.9-10.5	NGC 650/1	01:42:20.0	51:34:31	-10.19±0.05	3.2	1	0.10	
138.8+02.8	IC 289	03:10:19.3	61:19:01	-10.82±0.07	3.2	1	1.29	
...	Fr 2-23	03:14:46.0	48:12:06	-10.15±0.12	31.5	1	...	1,N
149.4-09.2	HaWe 4	03:27:15.4	45:24:20	-11.45±0.11	3.2	1	...	5
147.4-02.3	M 1-4	03:41:43.4	52:17:00	-11.28±0.09	3.2	1	...	
149.7-03.3	IsWe 1	03:49:05.9	50:00:15	-10.88±0.10	12.5	1	...	
171.3-25.8	Ba 1	03:53:36.6	19:29:39	-11.69±0.12	3.2	2	...	6
147.8+04.1	M 2-2	04:13:15.0	56:56:58	-11.14±0.09	3.2	1	...	
151.4+00.5	K 3-64	04:13:27.3	51:51:01	-12.3±0.2	3.2	2	...	4,6
167.4-09.1	K 3-66	04:36:37.2	33:39:30	-11.42±0.10	3.2	1	...	
174.2-14.6	H 3-29	04:37:23.5	25:02:41	-11.63±0.11	3.2	1	...	
165.5-06.5	K 3-67	04:39:47.9	36:45:43	-11.14±0.09	3.2	2	...	
166.4-06.5	CRL 618	04:42:53.7	36:06:53	-11.98±0.14	3.2	2	...	2,4
205.8-26.7	MaC 2-1	05:03:41.9	-06:10:03	-12.1±0.2	3.2	2	...	4
190.3-17.7	J 320	05:05:34.3	10:42:23	-10.79±0.07	4.0	1	0.45	5
167.0-00.9	Abell 8	05:06:38.4	39:08:11	-12.00±0.14	3.2	1	...	4
173.7-05.8	K 2-1	05:07:09.1	30:49:28	-11.03±0.05	3.2	1	1.01	5,6
...	IPHASX J0511+3028	05:11:51.3	30:28:14	-11.78±0.13	5.8	1	...	1,N
215.2-24.2	IC 418	05:27:28.2	-12:41:50	-9.02±0.04	8.0	1	0.32	
178.3-02.5	K 3-68	05:31:35.9	28:58:42	-11.80±0.13	3.2	1	...	4
197.2-14.2	Abell 10	05:31:45.5	06:56:02	-11.40±0.14	3.2	1	...	
193.6-09.5	H 3-75	05:40:45.0	12:21:23	-11.47±0.11	3.2	1	1.0:	
170.7+04.6	K 3-69	05:41:22.2	39:15:08	-12.3±0.2	3.2	1	...	4
196.6-10.9	NGC 2022	05:42:06.2	09:05:11	-10.54±0.05	4.0	2	0.41	
184.0-02.1	M 1-5	05:46:50.0	24:22:02	-11.19±0.09	3.2	1	...	
181.5+00.9	Pu 1	05:52:48.4	28:05:59	-12.4±0.2	3.2	1	...	4
193.0-04.5	KLSS 1-5	05:57:08.0	15:25:31	-12.1±0.2	3.2	1	...	4
197.4-06.4	WDHS 1	05:59:24.8	10:41:41	-10.40±0.14	19.2	1	...	
204.0-08.5	Abell 13	06:04:47.9	03:56:36	-11.45±0.11	4	1	...	
201.9-04.6	We 1-4	06:14:33.7	07:34:30	-12.2±0.2	3.2	1	...	4
221.3-12.3	IC 2165	06:21:42.8	-12:59:14	-10.25±0.08	4.8	1	0.60	
218.9-10.7	HDW 5	06:23:37.1	-10:13:24	-11.10±0.15	5.6	1	...	1,6,V
204.8-03.5	K 3-72	06:23:54.9	05:30:13	-11.67±0.13	3.2	1	...	
194.2+02.5	J 900	06:25:57.3	17:47:27	-10.50±0.05	4	1	1.13	
170.3+15.8	NGC 2242	06:34:07.4	44:46:38	-11.58±0.11	3.2	1	...	
189.8+07.7	M 1-7	06:37:21.0	24:00:35	-11.09±0.08	3.2	1	1.57	
153.7+22.8	Abell 16	06:43:55.5	61:47:25	-11.68±0.11	4.8	1	...	
224.3-05.5	PHR J0652-1240	06:52:20.3	-12:40:34	-11.62±0.12	3.2	1	...	1
204.1+04.7	K 2-2	06:52:23.2	09:57:56	-10.07±0.08	10.4	1	...	1,C
210.3+01.9	M 1-8	06:53:33.8	03:08:27	-11.73±0.13	3.2	1	...	
221.0-01.4	PHR J0701-0749	07:01:09.3	-07:49:21	-11.79±0.13	3.2	1	...	4
226.4-03.7	PB 1	07:02:46.8	-13:42:35	-11.9±0.3	3.2	1	...	4
212.0+04.3	M 1-9	07:05:19.2	02:46:59	-10.92±0.09	4.8	1	...	
217.4+02.0	St 3-1	07:06:50.9	-03:05:10	-11.61±0.13	3.2	1	...	
215.6+03.6	NGC 2346	07:09:22.6	00:48:23	-10.55±0.10	4	1	0.57	9
224.9+01.0	We 1-6	07:17:26.0	-10:10:38	-11.38±0.15	3.2	1	...	
227.1+00.5	PHR J0719-1222	07:19:46.7	-12:22:47	-11.54±0.13	3.2	1	...	5
222.1+03.9	PF1 1	07:22:17.7	-06:21:46	-10.74±0.14	11.0	1	...	
214.9+07.8	Abell 20	07:22:57.7	01:45:33	-11.65±0.12	3.2	1	...	
221.7+05.3	M 3-3	07:26:34.2	-05:21:52	-11.81±0.12	3.2	1	...	
226.7+05.6	M 1-16	07:37:19.0	-09:38:50	-11.24±0.09	3.2	1	...	
228.8+05.3	M 1-17	07:40:22.2	-11:32:30	-11.28±0.10	3.2	1	...	
231.8+04.1	NGC 2438	07:41:50.5	-14:44:08	-10.32±0.05	3.2	1	0.80	

Table 4 – Continued

PNG	Name	RAJ2000	DEJ2000	logF(H $\alpha$ )	$r_{\text{aper}}$	$N_f$	$c_\beta$	Note
231.4+04.3	M 1-18	07:42:04.2	-14:21:13	-11.45 $\pm$ 0.11	3.2	1	...	5
...	Fr 2-25	08:04:04.4	-06:30:57	-11.10 $\pm$ 0.10	8.4	1	...	1,4,N
219.1+31.2	Abell 31	08:54:13.2	08:53:53	-10.16 $\pm$ 0.08	12.0	1	...	7
016.1+07.7	PTB 20	17:52:15.0	-11:10:37	-12.2 $\pm$ 0.2	3.2	1	...	
053.3+24.0	Vy 1-2	17:54:23.0	27:59:58	-11.07 $\pm$ 0.08	3.2	1	0.01	
014.0+04.8	PTB 19	17:58:25.9	-14:25:25	-12.4 $\pm$ 0.3	3.2	1	...	4
096.4+29.9	NGC 6543	17:58:33.4	66:37:59	-9.10 $\pm$ 0.04	6.5	1	...	
014.2+03.8	PM 1-205	18:02:38.2	-14:42:05	-12.1 $\pm$ 0.2	3.2	1	...	4
019.8+05.6	CTS 1	18:06:59.8	-08:55:33	-11.84 $\pm$ 0.13	3.2	1	...	
015.5+02.8	BMP J1808-1406	18:08:35.1	-14:06:43	-11.70 $\pm$ 0.14	3.2	1	...	
022.5+04.8	MA 2	18:15:13.4	-06:57:12	-12.03 $\pm$ 0.15	3.2	1	...	4
023.0+04.3	MA 3	18:17:49.4	-06:48:22	-12.05 $\pm$ 0.14	3.2	1	...	4
021.9+02.7	MaC 1-12	18:21:21.1	-08:31:42	-11.65 $\pm$ 0.12	3.2	1	...	
020.6+01.9	PHR J1821-1001	18:21:40.6	-10:01:44	-11.38 $\pm$ 0.10	3.2	1	...	1
094.0+27.4	K 1-16	18:21:52.2	64:21:54	-11.68 $\pm$ 0.12	3.2	1	...	
044.3+10.4	We 3-1	18:34:02.3	14:49:10	-11.47 $\pm$ 0.10	3.2	1	...	
042.0+05.4	K 3-14	18:48:32.8	10:35:51	-11.42 $\pm$ 0.10	3.2	1	...	5
051.4+09.6	Hu 2-1	18:49:47.6	20:50:39	-10.15 $\pm$ 0.08	4.8	1	0.60	
041.8+04.4	K 3-15	18:51:41.5	09:54:53	-11.57 $\pm$ 0.12	3.2	1	...	V
044.0+05.2	K 3-16	18:53:01.6	12:15:59	-11.91 $\pm$ 0.14	3.2	1	...	4
063.1+13.9	NGC 6720	18:53:35.1	33:01:45	-9.56 $\pm$ 0.07	4.8	1	0.19	
038.7+01.9	YM 16	18:54:57.3	06:02:31	-11.30 $\pm$ 0.10	6.4	1	...	
039.8+02.1	K 3-17	18:56:18.2	07:07:26	-11.80 $\pm$ 0.14	3.2	1	...	4
043.1+03.8	M 1-65	18:56:33.6	10:52:10	-11.31 $\pm$ 0.10	3.2	1	...	
068.7+14.8	Sp 4-1	19:00:26.5	38:21:07	-11.37 $\pm$ 0.10	3.2	1	...	
035.9-01.1	Sh 2-71	19:01:59.3	02:09:18	-10.82 $\pm$ 0.05	7.2	1	1.01	
046.8+03.8	Sh 2-78	19:03:10.1	14:06:59	-10.61 $\pm$ 0.09	6.4	1	...	
051.5+06.1	K 1-17	19:03:37.4	19:21:23	-11.82 $\pm$ 0.13	3.2	1	...	
050.4+05.2	Abell 52	19:04:32.3	17:57:07	-11.93 $\pm$ 0.14	3.2	1	...	
048.5+04.2	K 4-16	19:04:51.5	15:47:38	-12.0 $\pm$ 0.2	3.2	1	...	4,5,6
...	IPHASX J1905+1613	19:05:12.4	16:13:47	-12.2 $\pm$ 0.2	3.2	1	...	1
044.1+01.5	PM 1-281	19:06:32.2	10:43:24	-11.96 $\pm$ 0.14	3.2	1	...	
040.3-00.4	Abell 53	19:06:45.9	06:23:52	-11.66 $\pm$ 0.12	3.2	1	...	
055.3+06.6	Abell 54	19:08:39.6	22:58:58	-12.1 $\pm$ 0.2	3.2	1	...	4
062.4+09.5	NGC 6765	19:11:06.5	30:32:43	-11.30 $\pm$ 0.07	8.0	1	0.40	
035.6-04.2	MPA J1911+0027	19:11:24.8	00:27:45	-11.79 $\pm$ 0.13	3.2	1	...	
049.4+02.4	Hen 2-428	19:13:05.2	15:46:40	-11.39 $\pm$ 0.10	3.2	1	...	
037.9-03.4	Abell 56	19:13:06.1	02:52:48	-11.56 $\pm$ 0.14	5.1	1	...	
039.5-02.7	M 2-47	19:13:34.6	04:38:04	-11.36 $\pm$ 0.11	3.2	1	...	
048.7+01.9	Hen 2-429	19:13:38.4	14:59:19	-11.25 $\pm$ 0.09	3.2	1	...	10
038.7-03.3	M 1-69	19:13:54.0	03:37:42	-11.24 $\pm$ 0.10	4.0	1	...	
051.0+03.0	Hen 2-430	19:14:04.2	17:31:33	-11.41 $\pm$ 0.10	3.2	1	...	
051.0+02.8	WhMe 1	19:14:59.8	17:22:46	-12.11 $\pm$ 0.13	3.2	1	...	1,4,5
040.4-03.1	K 3-30	19:16:27.7	05:13:19	-11.56 $\pm$ 0.12	3.2	1	...	
058.6+06.1	Abell 57	19:17:05.7	25:37:33	-11.86 $\pm$ 0.13	3.2	1	...	
041.8-02.9	NGC 6781	19:18:28.1	06:32:19	-10.01 $\pm$ 0.08	5.6	1	1.11	
052.9+02.7	K 3-31	19:19:02.7	19:02:21	-12.04 $\pm$ 0.14	4.0	1	...	6
077.6+14.7	Abell 61	19:19:10.2	46:14:52	-11.38 $\pm$ 0.05	7.7	1	...	
051.3+01.8	PM 1-295	19:19:18.8	17:11:48	-12.01 $\pm$ 0.14	3.2	1	...	4
076.3+14.1	Pa 5	19:19:30.5	44:45:43	-11.56 $\pm$ 0.12	3.7	1	...	
043.0-03.0	M 4-14	19:21:00.7	07:36:52	-11.73 $\pm$ 0.13	3.2	1	...	
055.3+02.7	He 1-1	19:23:46.9	21:06:39	-12.1 $\pm$ 0.2	3.2	3	...	6
056.0+02.0	K 3-35	19:27:44.0	21:30:04	-12.4 $\pm$ 0.2	3.2	1	...	3,4
061.3+03.6	M 1-91	19:32:57.7	26:52:43	-11.74 $\pm$ 0.12	3.2	1	...	1
059.4+02.3	K 3-37	19:33:46.8	24:32:27	-12.1 $\pm$ 0.2	3.2	1	...	4
064.7+05.0	BD +30 3639	19:34:45.2	30:30:59	-9.41 $\pm$ 0.06	4.8	1	0.51	10,V
059.9+02.0	K 3-39	19:35:54.5	24:54:48	-12.3 $\pm$ 0.2	3.2	1	...	4
055.5-00.5	M 1-71	19:36:26.9	19:42:24	-10.96 $\pm$ 0.08	4.0	1	2.44	
060.5+01.8	Hen 2-440	19:38:08.4	25:15:41	-11.73 $\pm$ 0.12	3.2	1	...	
052.5-02.9	Me 1-1	19:39:09.8	15:56:48	-10.81 $\pm$ 0.07	4.0	1	0.38	
061.8+02.1	Hen 2-442	19:39:43.4	26:29:33	-11.57 $\pm$ 0.12	3.2	1	...	
051.9-03.8	M 1-73	19:41:09.3	14:56:59	-10.84 $\pm$ 0.07	3.2	1	...	

Table 4 – Continued

PNG	Name	RAJ2000	DEJ2000	logF(H $\alpha$ )	$r_{\text{aper}}$	$N_f$	$c_\beta$	Note
054.4–02.5	M 1-72	19:41:34.0	17:45:18	-11.20±0.09	3.2	1	...	
053.8–03.0	Abell 63	19:42:10.4	17:05:15	-11.47±0.11	3.2	1	...	
052.2–04.0	M 1-74	19:42:18.9	15:09:08	-10.98±0.08	4.0	1	0.98	6
054.2–03.4	IPHASX J1943-1709	19:43:59.5	17:09:01	-11.88±0.14	3.2	1	...	4
059.1–00.7	Kn 9	19:44:59.0	22:45:48	-11.10±0.11	4.5	2	...	1
057.9–01.5	Hen 2-447	19:45:22.2	21:20:04	-11.61±0.12	3.2	1	...	
043.5–13.4	Abell 67	19:58:27.0	03:02:52	-11.90±0.14	3.2	1	...	4
060.0–04.3	Abell 68	20:00:10.6	21:42:55	-11.61±0.12	3.2	1	...	
058.6–05.5	WeSb 5	20:01:42.0	19:54:41	-11.32±0.10	3.2	2	...	5
107.0+21.3	K 1-6	20:04:13.4	74:26:28	-11.37±0.10	4.0	2	...	
082.1+07.0	NGC 6884	20:10:23.7	46:27:40	-10.57±0.06	3.2	1	0.26	
057.2–08.9	NGC 6879	20:10:26.7	16:55:21	-11.03±0.08	3.2	1	0.29	
060.3–07.3	Hen 1-5	20:11:56.1	20:20:04	-11.42±0.10	3.2	1	...	
060.1–07.7	NGC 6886	20:12:42.8	19:59:23	-10.63±0.09	4.8	1	...	
066.9–05.2	PC 24	20:19:38.1	27:00:11	-11.37±0.10	3.2	1	...	
058.3–10.9	IC 4997	20:20:08.7	16:43:54	-9.92±0.08	7.2	1	...	6
061.4–09.5	NGC 6905	20:22:22.9	20:06:17	-10.48±0.05	4.0	1	0.00	10
...	PM 1-329	20:50:13.6	59:45:51	-12.2±0.2	3.2	1	...	1,4
101.6+13.0	Kn 49	20:55:48.0	65:34:00	-11.67±0.12	3.2	2	...	1,C
089.0+00.3	NGC 7026	21:06:18.2	47:51:05	-10.16±0.08	4.8	1	0.88	10
084.9–03.4	NGC 7027	21:07:01.7	42:14:10	-9.29±0.06	6.4	2	1.20	
084.2–04.2	K 3-80	21:07:39.7	40:57:52	-11.80±0.13	3.2	1	...	1,4
082.1–07.8	Kn 24	21:13:37.7	37:15:37	-11.29±0.11	4.0	1	...	
089.8–00.6	Sh 1-89	21:14:07.6	47:46:22	-11.38±0.11	3.2	1	...	
088.7–01.6	NGC 7048	21:14:15.2	46:17:18	-10.85±0.06	7.6	1	...	
072.7–17.1	Abell 74	21:16:52.3	24:08:52	-10.76±0.09	7.2	2	...	
080.3–10.4	MWP 1	21:17:08.3	34:12:27	-10.74±0.10	4.8	1	...	7
089.3–02.2	M 1-77	21:19:07.4	46:18:47	-11.21±0.09	3.2	1	...	V
093.9–00.1	IRAS 21282+5050	21:29:58.1	51:04:00	-11.71±0.16	3.2	1	...	3,4,10
096.3+02.3	K 3-61	21:30:00.7	54:27:27	-11.87±0.14	3.2	1	...	4,10
093.3–00.9	K 3-82	21:30:51.6	50:00:07	-11.7±0.2	3.2	2	...	
089.8–05.1	IC 5117	21:32:31.0	44:35:49	-10.55±0.05	4.0	1	1.16	
086.5–08.8	Hu 1-2	21:33:08.4	39:38:10	-10.57±0.09	4.8	1	0.57	
094.5–00.8A	LeDu 1	21:36:05.5	50:54:10	-12.2±0.3	5.0	1	...	4
066.7–28.2	NGC 7094	21:36:53.0	12:47:19	-11.24±0.09	3.2	1	...	
093.3–02.4	M 1-79	21:37:01.5	48:56:03	-10.95±0.08	3.2	2	1.01	
095.0–05.5	GLMP 1047	21:56:32.9	47:36:13	-11.82±0.14	3.2	1	...	3
103.2+00.6	M 2-51	22:16:03.9	57:28:34	-11.14±0.09	3.2	1	...	
104.1+01.0	Bl 2-1	22:20:16.6	58:14:17	-11.55±0.14	3.2	1	...	4
103.7+00.4	M 2-52	22:20:30.8	57:36:22	-11.69±0.14	3.2	1	...	4
100.6–05.4	IC 5217	22:23:55.7	50:58:00	-10.64±0.06	4.0	2	0.01	
102.9–02.3	Abell 79	22:26:17.3	54:49:38	-11.20±0.12	3.2	1	...	9
099.7–08.8	HaWe 15	22:30:33.4	47:31:24	-11.29±0.10	4.0	1	...	1
100.0–08.7	Me 2-2	22:31:43.7	47:48:04	-10.68±0.06	4.0	1	...	
104.4–01.6	M 2-53	22:32:17.7	56:10:26	-11.45±0.11	3.2	1	...	6
102.8–05.0	Abell 80	22:34:45.6	52:26:06	-11.45±0.11	3.2	2	...	
107.8+02.3	NGC 7354	22:40:19.9	61:17:08	-10.49±0.05	3.2	1	1.98	
104.8–06.7	M 2-54	22:51:38.9	51:50:43	-11.20±0.09	3.2	2	...	1,3
107.7–02.2	M 1-80	22:56:19.8	57:09:21	-11.50±0.13	3.2	1	...	
104.2–29.6	Jones 1	23:35:53.3	30:28:06	-10.82±0.09	4.8	1	...	7
110.6–12.9	K 1-20	23:39:10.8	48:12:29	-12.2±0.2	3.2	1	...	
114.0–04.6	Abell 82	23:45:47.8	57:03:59	-11.37±0.10	3.2	2	...	
112.9–10.2	Abell 84	23:47:44.3	51:23:56	-11.13±0.09	3.2	1	...	
116.2+08.5	M 2-55	23:31:52.7	70:22:10	-11.21±0.09	3.2	1	...	

Notes: (1) Possible PN; (2) pre-PN; (3) transition object; (4) uncertain counts; (5) confused with nearby object; (6) bad pixels in aperture; (7) object near field edge; (8) flux excludes halo; (9) flux corrected for CSPN; (10) Wolf-Rayet CSPN; (N) previously unpublished object; (V) very low excitation PN; (C) specific comment given: K 2-2 — flux is for bright inner region only; Kn 49 — possibly an isolated SNR filament.