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Table 2. Optical data of the newly discovered candidate WTTS

Objects with sequential number of the sample, RASS source designation, position,estimated V magnitude, equivalent width of H_α and LiI absorption, spectral type, catalog identifier and comments on pairs

No.	RASS designation	α(2000)	δ(2000)	Vmag	H_α	LiI	S.T.	Catalog iden.	comments
001	1RXS J024029.7+200602	2 40 29.7	20 06 02.5	12.3V	-0.21	-0.19	G8V		
017	1RXS J025216.9+361658	2 52 16.9	36 16 58.0	9.9V	3.18	-0.22	K2IV		
018	1RXS J025223.5+372914	2 52 23.5	37 29 14.5	10.0V	0.50	-0.22	G5IV		
028	1RXS J025751.8+115759	2 57 51.8	11 57 59.5	10.4V	1.18	-0.32	G7V	BD+11 414	
029	1RXS J025828.0+294805	2 58 28.0	29 48 05.5	10.9V	1.23	-0.18	K0IV		
037	1RXS J030356.9+373904	3 03 56.9	37 39 04.5	11.7V	1.01	-0.24	K0IV		
040	1RXS J030443.2+143740	3 04 43.2	14 37 40.5	10.8V	0.81	-0.27	G5IV		
042	1RXS J030759.1+302032	3 07 59.1	30 20 32.0	9.2V	0.48	-0.18	G5IV	BD+29 525	
044	1RXS J031113.0+222518	3 11 13.0	22 25 18.5	8.5V	0.34	-0.15	G0V	SAO 75775	
047	1RXS J031347.9+290729	3 13 47.9	29 07 29.5	13.4V	3.00	-0.14	K4V		
049	1RXS J031537.5+372424	3 15 37.5	37 24 24.5	13.1V	7.17	-0.14	K4V		
053	1RXS J031644.0+192259	3 16 44.0	19 22 59.5	11.1V	0.76	-0.23	G2IV		
056	1RXS J031907.4+393418	3 19 07.4	39 34 18.0	11.6V	0.68	-0.30	K0V		
061	1RXS J032355.5+233947	3 23 55.5	23 39 47.0	13.1V	4.13	-0.29	K4V		
062	1RXS J032406.6+234714	3 24 06.6	23 47 14.5	10.4V	1.31	-0.19	K4V	L 1307 -15	
063	1RXS J032409.7+123745	3 24 09.7	12 37 45.5	6.0V	-0.17	-0.33	K2IV	HR 1028	
065	1RXS J032547.5+365147	3 25 47.5	36 51 47.5	13.1V	0.94	-0.27	K0IV		
067	1RXS J032733.2+255405	3 27 33.2	25 54 05.0	9.2V	0.22	-0.11	G5IV		
073	1RXS J033530.2+311336	3 35 30.2	31 13 36.0	9.2V	0.40	-0.19	G5IV	HD 22179	
080	1RXS J034106.7+283644	3 41 06.7	28 36 44.0	15.0V	7.40	-0.26	>M0V		
084	1RXS J034241.8+233017	3 42 41.8	23 30 17.0	12.4V	2.20	-0.16	G7IV	Melotte 22 HCG 85	
087	1RXS J034327.4+252330	3 43 27.4	25 23 30.0	11.6V	1.73	-0.32	G2IV	Melotte 22 PELS 56	
088	1RXS J034403.8+243013	3 44 03.8	24 30 13.5	10.9V	0.73	-0.24	G0V	CL Melotte 22 253	
089	1RXS J034412.1+240200	3 44 12.1	24 01 60.0	12.4V	1.83	-0.36	K0V	BD+23 501B	southeast
089s				11.6V	0.31	-0.12	G7IV	BD+23 501A	northwest
090	1RXS J034414.1+240623	3 44 14.1	24 06 23.0	10.7V	0.41	-0.23	G5IV	BD+23 502	
091	1RXS J034420.7+244719	3 44 20.7	24 47 19.0	10.9V	0.42	-0.22	G0V		
092	1RXS J034423.3+281224	3 44 23.3	28 12 24.5	9.1V	0.28	-0.27	G7V	SAO 76116	
093	1RXS J034426.3+243524	3 44 26.3	24 35 24.5	11.7V	1.44	-0.21	G7IV	CL Melotte 22 345	
097	1RXS J034542.4+245421	3 45 42.4	24 54 21.5	9.7V	0.46	-0.22	G5IV		
099	1RXS J034629.2+242605	3 46 29.2	24 26 05.0	11.4V	0.71	-0.19	K0V	CL Melotte 22 1032	
102	1RXS J034850.1+235844	3 48 50.1	23 58 44.5	12.8V	1.83	-0.24	G7IV	UBV M 41137	
103	1RXS J034905.9+234653	3 49 05.9	23 46 53.5	11.0V	2.05	-0.24	G7IV	CL Melotte 22 2147	
107	1RXS J035024.5+130424	3 50 24.5	13 04 24.5	11.0V	0.75	-0.19	G7IV		
108	1RXS J035028.0+163121	3 50 28.0	16 31 21.0	10.8V	0.66	-0.14	G5IV		
110	1RXS J035055.0+235016	3 50 55.0	23 50 16.0	11.7V	1.41	-0.22	G7IV	CL Melotte 22 2881	
117	1RXS J035330.5+263152	3 53 30.5	26 31 52.5	12.1V	2.95	-0.31	G7IV	Melotte 22 PELS 75	
119	1RXS J035423.8+242146	3 54 23.8	24 21 46.5	11.4V	0.94	-0.30	G5IV		
131	1RXS J041004.9+363901	4 10 04.9	36 39 01.0	9.0V	1.00	-0.14	G0V	HD 26182	
136	1RXS J042638.5+384458	4 26 38.5	38 44 58.0	10.5V	1.00	-0.31	G5V		
137	1RXS J043119.5+375143	4 31 19.5	37 51 43.5	10.9V	0.72	-0.27	G7V	HD 279935	
143	1RXS J043931.0+340737	4 39 31.0	34 07 37.0	9.4V	0.96	-0.24	G8V	HD 282346	
145	1RXS J044101.8+392904	4 41 01.8	39 29 04.0	10.5V	2.09	-0.18	K0V		
149	1RXS J044758.7+363936	4 47 58.7	36 39 36.0	11.7V	2.15	-0.26	G2V		
150	1RXS J044852.7+103028	4 48 52.7	10 30 28.5	13.3V	3.94	-0.24	K5V		
157	1RXS J050029.8+172400	5 00 29.8	17 24 00.5	12.4V	2.31	-0.23	G5IV		
158	1RXS J050049.1+152658	5 00 49.1	15 26 58.5	11.0V	1.80	-0.42	K2IV	HD 286264	

Table 2. (continued)

No.	RASS designation	α(2000)	δ(2000)	Vmag	H_α	LiI	S.T.	Catalog iden.	comments
165	1RXS J050702.2+170726	5 07 02.2	17 07 26.0	11.4V	0.62	-0.24	G7IV		
168	1RXS J050808.7+242714	5 08 08.7	24 27 14.5	13.7V	6.69	-0.41	K5V		
172	1RXS J050926.3+185405	5 09 26.3	18 54 05.5	12.3V	1.28	-0.16	K0IV		
173	1RXS J051023.1+312648	5 10 23.1	31 26 48.5	7.9V	2.02	-0.29	K2IV		
175	1RXS J051111.1+281353	5 11 11.1	28 13 53.5	6.8V	1.95	-0.36	K0V		
184	1RXS J052146.7+240036	5 21 46.7	24 00 36.5	10.9V	2.14	-0.39	G7IV		
185	1RXS J052250.8+191423	5 22 50.8	19 14 23.0	14.5V	6.82	-0.13	M0V		
188	1RXS J052355.2+253052	5 23 55.2	25 30 52.0	11.3V	1.76	-0.43	G4V		
190	1RXS J052425.5+192204	5 24 25.5	19 22 04.0	14.9V	15.25	-0.27	>M0V		
192	1RXS J052638.7+223151	5 26 38.7	22 31 51.0	12.4V	2.32	-0.33	K2IV		north
192s				12.0V	1.88	-0.30	K0IV		south
194	1RXS J052706.4+213525	5 27 06.4	21 35 25.5	11.3V	2.80	-0.19	G7IV		
196	1RXS J052856.6+170307	5 28 56.6	17 03 07.0	14.3V	9.50	-0.27	M0V		south
196s				?	-0.68	-0.30	G7IV		north
199	1RXS J052924.2+144836	5 29 24.2	14 48 36.5	9.9V	2.28	-0.12	K0IV	HD 244162	north
199s				9.9V	-0.23	-0.18	G2IV		south
200	1RXS J052940.9+291058	5 29 40.9	29 10 58.0	6.2V	-0.84	-0.14	F7V	HR 1822	
201	1RXS J052943.1+233412	5 29 43.1	23 34 12.5	13.3V	7.38	-0.46	K4V		
202	1RXS J053055.8+101506	5 30 55.8	10 15 06.0	7.2V	1.46	-0.42	G7V		
204	1RXS J053103.9+231232	5 31 03.9	23 12 32.5	9.3V	1.78	-0.35	G2IV	HD 244354	
211	1RXS J053636.6+213927	5 36 36.6	21 39 27.0	12.9V	7.17	-0.48	K4V		
212	1RXS J053650.0+133756	5 36 50.0	13 37 56.5	10.9V	1.63	-0.36	K0V		
213	1RXS J053652.7+232600	5 36 52.7	23 25 60.0	8.8V	1.24	-0.30	G5V	HD 245358	
214	1RXS J053718.4+133453	5 37 18.4	13 34 53.0	9.9V	0.80	-0.25	G0V	HD 245567	
217	1RXS J053902.6+100244	5 39 02.6	10 02 44.5	12.9V	1.55	-0.42	G8V		northwest
217s				13.2V	2.56	-0.46	K0V		southeast
219	1RXS J053931.0+230628	5 39 31.0	23 6 28.0	9.7V	1.30	-0.24	K0IV		

* >M0V in section S.T. represents spectral type later than M0V, and so forth.

Table 3. Optical data of the possible CTTS discovered and the two previously found WTTS candidates

Objects with sequential number of the sample, RASS source designation, position,estimated V magnitude, eq uivalent width of H_α and LiI absorption, spectral type, catalog identifier.

No.	RASS designation	α(2000)	δ(2000)	Vmag	H_α	LiI	S.T.	Catalog iden.
197	1RXS J052908.4+115207	5 29 08.4	11 52 07.0	10.1V	24.47	-0.45	G2IV	HD 244138
074	1RXS J033609.2+311853	3 36 09.2	31 18 53.0	11.2V	1.07	-0.29	K3	
208	1RXS J053434.7+100710	5 34 34.7	10 07 10.5	10.2V	2.28	-0.30	K0V	HD 245059

Table 4. Optical data of the probable cloud members of Taurus-Auriga

Objects with sequential number of the sample, RASS source designation, position,estimated V magnitude, eq uivalent width of H_α and LiI absorption, spectral type, catalog identifier.

No.	RASS designation	α(2000)	δ(2000)	Vmag	H_α	LiI	S.T.	Catalog iden.
006	1RXS J024524.3+143518	2 45 24.3	14 35 18.5	9.2V	1.35	-0.08	G4V	
013	1RXS J025020.0+372909	2 50 20.0	37 29 09.0	11.5V	3.60	-0.08	K4V	
014	1RXS J025029.9+115206	2 50 29.9	11 52 06.5	7.8V	0.56	-0.02	G7V	HD 17662
019	1RXS J025233.7+221924	2 52 33.7	22 19 24.5	11.8V	1.80	-0.05	K4V	
035	1RXS J030122.7+112345	3 01 22.7	11 23 45.5	10.6V	1.84	-0.06	K4V	StKM 1- 328
050	1RXS J031545.0+355704	3 15 45.0	35 57 04.0	11.0V	1.33	-0.02	K0V	HD 278455
053s	1RXS J031644.0+192259	3 16 44.0	19 22 59.5	11.1V	-1.15	-0.02	G0V	
054	1RXS J031723.1+261908	3 17 23.1	26 19 08.0	11.1V	0.69	-0.04	K4V	
057	1RXS J031924.8+124740	3 19 24.8	12 47 40.5	10.2V	2.59	-0.05	G2IV	
066	1RXS J032635.1+284302	3 26 35.1	28 43 02.0	6.3V	2.16	-0.06	K0V	GJ 141.1
082	1RXS J034145.2+271855	3 41 45.2	27 18 55.5	11.8V	2.11	-0.08	K2IV	
104	1RXS J034926.6+110837	3 49 26.6	11 08 37.5	7.7V	0.23	-0.05	G0V	HD 23952
125	1RXS J040408.0+393023	4 04 08.0	39 30 23.0	6.5V	0.10	-0.03	G7V	HD 25444
128	1RXS J040753.8+352730	4 07 53.8	35 27 30.5	10.5V	1.46	-0.09	G7IV	
130	1RXS J040849.2+102754	4 08 49.2	10 27 54.0	8.4V	0.50	-0.03	G2IV	HD 26172
133	1RXS J041434.7+104209	4 14 34.7	10 42 09.0	7.0V	-1.15	-0.07	G2V	HD 26784
139	1RXS J043224.8+384804	4 32 24.8	38 48 04.5	8.4V	0.23	-0.02	G0V	
170	1RXS J050903.6+125744	5 09 03.6	12 57 44.5	9.6V	1.52	-0.04	G2IV	SAO 33053
174	1RXS J051110.9+154857	5 11 10.9	15 48 57.0	12.2V	1.49	-0.06	K4V	StKM 1- 549
182s	1RXS J052054.8+240206	5 20 54.8	24 02 06.0	9.7V	0.29	-0.05	F5V	BD+23 902B
187	1RXS J052350.4+145510	5 23 50.4	14 55 10.5	16.3V	1.45	-0.03	G5V	
191	1RXS J052425.7+172301	5 24 25.7	17 23 01.0	5.6V	0.12	-0.04	G0V	HR 1780
193	1RXS J052652.5+283425	5 26 52.5	28 34 25.0	6.0V	2.10	-0.03	K2IV	HD 243628
206	1RXS J053323.5+201951	5 33 23.5	20 19 51.5	10.5V	0.81	-0.05	G5V	

Table 5. Optical data of the possible optical counterparts to the RASS sources. Objects with sequential number of the sample, RASS source designation, position,estimated V magnitude, eq uivalent width of H_{α}, spectral type, catalog identifier

No.	RASS designation	$\alpha(2000)$	$\delta(2000)$	Vmag	S.T.	Catalog iden.
003	1RXS J024333.1+170831	2 43 33.1	17 08 31.0	9.6V	F7V	
009	1RXS J024751.2+361157	2 47 51.2	36 11 57.0	11.1V	K0IV	
010	1RXS J024843.0+310701	2 48 43.0	31 07 01.5	6.3V	K0V	GJ 113.1
012	1RXS J024955.0+334515	2 49 55.0	33 45 15.5	13.3V	>M0V	
015	1RXS J025153.2+222735	2 51 53.2	22 27 35.0	12.6V	>M0V	
020	1RXS J025351.3+152118	2 53 51.3	15 21 18.0	9.6V	G0V	
025	1RXS J025659.9+101912	2 56 59.9	10 19 12.5	12.0V	>M0V	G 76-43
026	1RXS J025740.5+235755	2 57 40.5	23 57 55.0	9.8V	K0V	BD+23 390
030	1RXS J025939.0+140253	2 59 39.0	14 02 53.0	9.3V	K0V	HD 18580
032	1RXS J025952.4+380149	2 59 52.4	38 01 49.0	10.1V	K0IV	
036	1RXS J030226.6+222225	3 02 26.6	22 22 25.5	8.1V	G0V	HD 18831
039	1RXS J030405.0+300312	3 04 05.0	30 03 12.0	5.9V	K0V	
044s	1RXS J031113.0+222518	3 11 13.0	22 25 18.5	9.8V	G5V	BD+21 418B
051	1RXS J031634.9+321115	3 16 34.9	32 11 15.0	6.2V	K0V	HR 978
060	1RXS J032311.1+330455	3 23 11.1	33 04 55.5	8.0V	G0V	HD 20891
069	1RXS J033041.2+313712	3 30 41.2	31 37 12.5	11.8V	K2IV	VSS IX-17
071	1RXS J033501.2+320104	3 35 01.2	32 01 04.5	6.7V	F7V	HD 22124
074	1RXS J033609.2+311853	3 36 09.2	31 18 53.0	14.4V	>M0V	
075	1RXS J033711.0+255934	3 37 11.0	25 59 34.0	7.4V	K0V	HD 22403
076	1RXS J033733.9+175105	3 37 33.9	17 51 05.5	13.4V	>M0V	LP 413-19
076s				12.7V	>M0V	
077	1RXS J033933.3+182316	3 39 33.3	18 23 16.0	8.4V	F5V	HD 22694
078	1RXS J033947.7+332833	3 39 47.7	33 28 33.5	13.1V	>M0V	
078s				9.1V	K2IV	
079	1RXS J034019.2+122029	3 40 19.2	12 20 29.0	12.6V	K0V	
086	1RXS J034327.2+293546	3 43 27.2	29 35 46.5	10.0V	G5IV	
094	1RXS J034432.1+395937	3 44 32.1	39 59 37.5	12.7V	K4V	
095	1RXS J034526.5+174702	3 45 26.5	17 47 02.5	12.7V	K2IV	
096	1RXS J034533.8+241821	3 45 33.8	24 18 21.0	13.6V	K2IV	V* OU Tau
098	1RXS J034613.8+170929	3 46 13.8	17 09 29.0	12.9V	K2IV	StKM 1- 406
098s				11.4V	K2IV	
106	1RXS J035003.1+223539	3 50 03.1	22 35 39.0	7.7V	G0V	HD 23965
127	1RXS J040734.6+380415	4 07 34.6	38 04 15.0	6.7V	G5V	IRAS 04042+3756
129	1RXS J040836.4+380213	4 08 36.4	38 02 13.5	5.4V	F7V	HR 1278
134	1RXS J042147.7+114011	4 21 47.7	11 40 11.0	10.5V	K0V	HD 286704
138	1RXS J043156.9+364440	4 31 56.9	36 44 40.5	6.1V	G7V	HD 28591
140	1RXS J043225.9+130648	4 32 25.9	13 06 48.5	10.9V	K4V	HD 286839
141	1RXS J043412.1+113353	4 34 12.1	11 33 53.5	11.4V	K4V	Cl Melotte 25 294
146	1RXS J044107.1+113213	4 41 07.1	11 32 13.0	11.4V	G0IV	
147	1RXS J044240.9+101746	4 42 40.9	10 17 46.5	9.0V	K2IV	
151	1RXS J045149.5+133918	4 51 49.5	13 39 18.0	6.4V	G4V	HD 30869
154	1RXS J045923.7+122940	4 59 23.7	12 29 40.0	11.6V	G7IV	
159	1RXS J050131.1+230630	5 01 31.1	23 06 30.0	8.8V	K0V	
167	1RXS J050806.9+143155	5 08 06.9	14 31 55.0	8.3V	G5IV	HD 33053
171	1RXS J050909.9+152740	5 09 09.9	15 27 40.0	12.8V	>M0V	G 85-44
176	1RXS J051153.5+164432	5 11 53.5	16 44 32.5	9.1V	F7V	HD 33572
177	1RXS J051153.6+370749	5 11 53.6	37 07 49.0	6.0V	G5IV	
178	1RXS J051521.6+122118	5 15 21.6	12 21 18.0	12.1V	G5V	
179	1RXS J051548.9+184419	5 15 48.9	18 44 19.0	10.7V	G7IV	
181	1RXS J051908.2+340529	5 19 08.2	34 05 29.5	8.6V	K2IV	
182	1RXS J052054.8+240206	5 20 54.8	24 02 06.0	14.5V	F7V	HD 34772
189	1RXS J052403.2+192241	5 24 03.2	19 22 41.0	13.9V	>M0V	
195	1RXS J052737.7+395525	5 27 37.7	39 55 25.0	9.3V	K2IV	
209	1RXS J053506.4+394644	5 35 06.4	39 46 44.5	10.4V	K0V	