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A LIST OF POSSIBLE, PROBABLE, AND TRUE PLANETARY NEBULAE DETECTED SINCE 1966

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335 objects designated as new possible, probable, or true galactic planetary nebulae since the closing of the Perek & Kohoutek (1967) catalogue are listed with names, designations, the best available equatorial coordinates, galactic coordinates, apparent dimensions, and indications of observations in the optical, infrared and radio range. 44 new candidates which subsequently turned out to be presumably non-planetaries are also given. Six new possible planetaries detected by the author are listed for the first time.

Key words: new planetaries – compilation

1. INTRODUCTION

In the preface of the "Catalogue of Galactic Planetary Nebulae" (Perek & Kohoutek 1967), the authors wrote "The primary aim of this catalogue is... to enable astronomers to locate planetaries without having to rediscover them". In the present paper, we aim essentially at the same goal for the galactic planetary nebulae (PN) detected since the finishing of the above catalogue. After all, a survey of the literature showed that several PN detected in the last decennium have subsequently been rediscovered.

Our list contains 335 objects which have been classified as possible, probable, or true PN. It must be expected that a number of them will prove to be no PN at all. Also, detailed observational data are lacking for most of them. It therefore would be of limited value to carry out any statistics at the moment. A list of 44 new candidates which are now considered to be non-planetaries is also given.

2. RESULTS

2.1. Completeness of the List

We are aware of 32 papers dating *from the beginning of 1966 to the end of the first quarter of 1977*, in which discoveries of new PN or interpretations of already known objects as new PN were reported. They are given in the following list. The abbreviations have been taken over from the names given in these papers to new PN, or were formed from the first letters of the authors, sometimes with distinctive digits. One of the papers (Holmberg *et al.* 1977b)–a preprint–was only in part at our disposal (*i.e.* the "survey fields" up to No. 205).

Allen, 1973	Al
Arp & Scargle, 1967	PHL
Blaauw *et al.*, 1975	BDS
Caloi & Panagia, 1974	CaPa
Cesco & Gibson, 1973	CeGi
Dolidze & Džimšelejšvili, 1966	DoDz
Holmberg *et al.*, 1974	ESO
Holmberg *et al.*, 1975	ESO
Holmberg *et al.*, 1977a	ESO

Holmberg *et al.*, 1977b	ESO
Kazarjan, 1966	Ka 1
Kazarjan, 1976	Ka 2
Kazarjan & Parsamian, 1971	KaPa
Kohoutek, 1969	K 3, K 4
Kohoutek, 1971	K 1, K 2
Kohoutek, 1972	K 3, K 4
Longmore, 1977	Lo
Nordström, 1975	No
Sanduleak, 1974	Sa 1, St 1
Sanduleak, 1975a	Sa 2
Sanduleak, 1976	Sa 3, St 2
Sanduleak & Stephenson, 1972a	SaSt 1
Sanduleak & Stephenson, 1972b	SaSt 2
Schuster & West, 1976	SchuWe
Sherwood, 1969	She
Stenholm, 1975	Ste
Stock & Wroblewski, 1972	StWr
Van den Bergh *et al.*, 1973	BRABCMS
Vorontsov-Velyaminov *et al.*, 1972	VVKDA
Weinberger, 1977	We 1
Weinberger, this paper	We 2
Westbrook *et al.*, 1975	CRL
Wray, 1966	W 16, W 17

2.2. Nature of Listed Objects

While there was no doubt about the inclusion of true and probable PN, a few words are needed about some of the *possible* planetaries. For some years a number of papers dealt with possible progenitors of PN or objects being extremely young PN. It came out that clear borders between these objects and *bona fide* PN can hardly be drawn. Accordingly, our inclusion or non-inclusion of some possible candidates was somewhat subjective. As an example, CRL 618, an object found in an infrared survey (Walker & Price 1975), has been extensively observed mainly by Westbrook *et al.* (1975) as well as by a small number of other authors. There appears to be fair agreement between these that CRL 618 might be a PN in a very early phase in its evolution. It was therefore included in our list. On the other hand V 1016 Cyg, HBV 475, and similar objects were rather frequently observed indeed (see *e.g.* Stienon *et al.* 1974; Mammano & Ciatti 1975) and were sometimes interpreted as possible progenitors of PN or even extremely young PN too. However, since these interpretations as young PN seem far from being settled, objects of this kind were not included.

2.3. Omitted Objects

Altogether 44 objects are listed here, which once were designated as new PN, but turned out to be probably of another kind. The by far most important source for these reclassifications was table 1 in Sanduleak (1976), where misclassified or doubtfully classified southern PN are compiled. We give the coordinates (1950.0) and names of the omitted objects as well as a source (not always the original one) for their reclassification. Key: A = Allen (1974), S = Sanduleak (1976), J = Johnson (1973):

06^h42^m04	$+01°22'.7$	K 4-49	A	15^h55^m73	$-53°37'.4$	W 16-196	S
08 09.87	-35 12.3	W 16-15	S	16 05.14	-38 54.9	W 16-203	S
08 12.47	-41 33.3	W 16-17	S	16 09.02	-46 29.9	W 16-206	S
08 29.06	-38 09.7	W 19-11	S	16 15.69	-50 30.6	W 16-214	S
08 46.85	-42 42.6	K 2-15	S	16 48.26	-25 55.4	W 16-237	S
09 31.64	-46 21.3	W 16-51	S	17 06.96	-32 55.1	W 16-255	S
09 46.82	-59 18.0	W 16-60	S	17 28.62	-28 40.0	W 16-282	S
10 00.58	-57 59.3	W 16-63	S	17 33.04	-33 24.3	W 16-292	S
10 33.79	-60 23.3	W 16-73	S	17 36.14	-25 36.5	W 16-294	S
10 58.9	-60 33.	W16-82,83	S	17 38.38	-30 05.2	W 17-96	S
11 01.15	-58 11.3	W 16-84	S	17 43.	-26 10	G2.4+1.4	J
11 35.73	-61 59.3	W 16-97	S	17 48.62	-35 22.7	W 16-319	S
12 17.22	-62 38.7	W 16-109	S	17 59.82	-31 35.3	W 16-355	S
12 32.05	-61 22.5	W 16-118	S	18 00.40	-34 53.2	W 16-358	S
13 40.73	-55 04.5	W 16-134	S	18 03.90	-29 36.8	W 16-371?	S
13 46.06	-61 16.9	W 16-136	S	18 08.90	-33 11.3	W 16-384	S
14 05.33	-56 50.3	W 16-145	S	18 10.79	-42 51.4	W 16-391	S
14 07.91	-64 03.3	W 16-146	S	18 14.18	-28 11.0	W 16-401	S
14 27.32	-61 07.6	W 16-154	S	18 50.23	-24 26.6	W 16-421	S
15 03.3	-57 36.8	W 16-166,167	S	20 41.20	+45 45.7	K 4-54	A
15 14.36	-59 27.2	W 16-173	S	22 46.58	+58 13.2	K 4-57	A

2.4. The List of New Possible, Probable, and True Planetary Nebulae

The 335 new planetaries are listed in table 1. Entries are as follows:

Column 1: Running *number*.

Column 2: *Name* of object, consisting of an abbreviation of the paper where the object was called *for the first time* a PN, a hyphen and a number referring in most cases to the number of the entry in the respective table of the discovery paper. Only one name was listed for every object. For some of them, references to other names can be found in Acker & Marcout (1977).

Column 3: Preliminary *designation*, according to the system of the Perek & Kohoutek (1967) catalogue.

Column 4: The most precise *equatorial coordinates* available in the literature, to the best of the author's knowledge.

Column 5: The *accuracy* of α and δ is shown according to the key: $a \leq 1''$; $1'' < b \leq 0'.1$; $0'.1 < c \leq 0'.2$; $d > 0'.2$.

Column 6: The *references* refer to papers where the listed α and δ and the accuracies are taken from. Additional reference symbols are: Arp = Arp, 1965; ESO3 = Holmberg *et al.*, 1975; KaOg = Kazarjan & Oganesyan, 1973; Ko = Kohoutek, 1972; Wr = Wray, 1966. No entry means that the coordinates were taken from the original discovery paper.

Column 7: *Galactic coordinates.*

Column 8: The *dimension* describes the diameter (in the red spectral region, whenever obtainable) of the major and minor axes of the nebular images in arcsec; st = stellar. Generally, data from the original discovery papers were used, exceptions are announced by references in the same or a 2^{nd} line in the same column. Additional symbols are: Hi = Higgs, 1971; ESO3 = Holmberg *et al.*, 1975; ESO4 = Holmberg *et al.*, 1977a; San = Sanduleak, 1975b. In cases, where no nebular sizes could be found listed, blanks are given.

Columns 9, 10 and 11: Here it is attempted to give an impression about observations of the nebulae in the *optical, infrared* and *radio region.* Crude categories were introduced for that purpose: p photometric, s spectroscopic, c continuum, and l line measurements. Numbers following these symbols refer to papers listed in table 1a, symbols without numbers mean observations carried out in the original publication.

Every single category covers a broad range of data. As an example, an "s" was used for mere estimates of the strength of the Hα lines as well as for extensive discussions of high dispersion spectra; a "p" comprises crude estimates of the total brightness of a nebula usually derived from plates as well as accurate photoelectric measurements.

Some remarks on column 9: Especially in cases, where a PN was previously considered to be a star and was so published in various lists together with brightness estimates, usually only one reference is given. Therefore no claim for completeness as to references can be laid on this column.

The data in columns 10 and 11 on the other hand should be complete as we hope. The references do, for the sake of brevity, not always state the original sources. *E.g.*, the catalogue of Higgs (1971) is often referred to for radio observations instead of the numerous original papers.

3. SIX NEW POSSIBLE PLANETARIES

During a survey for strongly reddened galaxies on the Palomar Observatory Sky Survey (POSS) prints, six new possible PN have been found. Details concerning this survey are given by Weinberger (1977). Besides the data on these candidates in Table 1, some additional ones are presented in Table 2:
x and y are *rectangular coordinates* (in mm), measured from the lower left corner of the first POSS field listed in the subsequent column. The red (m_r) and blue (m_b) *surface brightnesses* were estimated by comparison with surface brightnesses of the Abell (1966) planetaries and are expected to be reliable to ± 1.0 mag/arcsec^2 at worst. The values listed correspond to the brightest section of each nebula; considering the limiting surface brightnesses of the POSS (25 mag/arcsec^2 in the red, 26.5 mag/arcsec^2 in the blue), 5 of the 6 objects show to be extraordinarily weak. Because of their appearance on the POSS red prints, We 2–37, We 2–245, and We 2–262 seem to be the most promising candidates for being true planetary nebulae.

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Table 1a References for columns 9, 10, and 11 of Table 1.

1	ALLEN, 1974	12	MERRILL & STEIN, 1976
2	BRÄZ, 1975	13	PETERSON, 1976
3	CAHN & RUBIN, 1974	14	SANDULEAK, 1975a
4	HIGGS, 1971	15	SMITH & GULL, 1975
5	KAZARJAN & OGANESYAN, 1973	16	STOCK & WROBLEWSKI, 1972
6	KAZARJAN & PARSAMIAN, 1971	17	TERZIAN ET AL., 1974
7	KOHOUTEK, 1972	18	TERZIAN & DICKEY, 1973
8	LO & BECHIS, 1976	19	VORONTSOV-VELYAMINOV ET AL., 1972
9	MACGREGOR ET AL., 1973	20	WACKERLING, 1970
10	MERRILL & BURWELL, 1943	21	WALKER & PRICE, 1975
11	MERRILL & BURWELL, 1950	22	WELIN, 1973
		23	WEST, 1976

Table 2 Six new possible planetaries.

No.	x	y	POSS No.	Surface br. (mag/arcsec^2) m_r	m_b
5	139	141	1240	23.9	>26.5
34	109	96	929	23.3	>26.5
37	210	250	1619, 895	23.8	>26.5
245	50	243	1133, 806	22.0	24.7
260	259	12	1173, 595	24.5	>26.5
262	65	269	1173,1233	23.6	25.8

Table 1 New possible, probable, and true planetary nebulae.

(1) NO.	(2) NAME	(3) DESIGN.	(4) R.A.(1950) H M S	DECL.(1950) D M S	(5) ACC	(6) REF.	(7) ℓ D	b D	(8) DIMENSION ARCSEC	(9) OPTICAL	(10) INFRARED	(11) RADIO
1	We 1-1	121 + 3°1	00 35 55.2	+66 07 12	c		121.67	+ 3.55	22×16	p		
2	PHL 932	125 -47°1	00 57 19	+15 28			125.94	-47.09	300×240	p		
3	K 3-90	126 + 3°1	01 21.55	+65 23.0	b		126.38	+ 3.00	<12.5	p,s		
4	K 4-59	127 - 1°1	01 27.24	+60 15.9	b		127.73	- 1.98	< 4.5	p,s	pl	
5	We 2-5	129 - 2°1	01 39 15	+59 55	d		129.26	- 2.07	?×194			
6	K 3-91	129 + 4°1	01 54.79	+66 19.5	b		129.55	+ 4.56	14.6×6.9 (15×21)	p,s		
7	K 3-92	130 + 3°1	01 59.91	+64 43.2	b		130.48	+ 3.15	12.3	p,s		
8	K 4-60	132 - 0°1	02 04.48	+60 31.8	b		132.16	- 0.72	13.4×8.3	p,s		
9	K 3-93	132 + 4°1	02 22.49	+65 34.4	b		132.47	+ 4.70	10.7×8.8	p,s		
10	Lo-1	255 -59°1	02 55 02	-44 22.6			255.35	-59.64	(373)			
11	K 3-94	142 + 3°1	03 32.01	+59 53.8	b		142.15	+ 3.49	<12.5	p,s		
12	Lo-2	284 -39°1	04 03 19	-70 23.0			284.07	-39.10	29			
13	K 3-64	151 + 0°1	04 09 37.9	+51 43 25	a		151.40	+ 0.51	8.1	p,s		
14	K 3-65	153 - 1°1	04 12 12.6	+48 42 14	a		153.77	- 1.41	2.0	p,s		
15	K 4-47	149 + 4°1	04 16 40.9	+56 11 02	a		149.07	+ 4.45	st	s	pl	
16	K 3-66	167 - 9°1	04 33 22.12	+33 33 26.6	a		167.46	- 9.11	st	s	pl	c18
17	K 3-67	165 - 6°1	04 36 27.52	+36 39 52.5	a		165.54	- 6.57	st	s	pl	c18,c3
18	CRL 618	166 - 6°1	04 39 33.8	+36 01 15	a		166.45	- 6.53	(15)×(9)	s	p,s,p2l, p12,s12	c,18
19	We 1-2	160 - 0°1	04 43 07.0	+44 22 38	c		160.56	- 0.54	92×92	p		
20	We 1-3	163 - 0°1	04 50 59.7	+42 11 47	c		163.16	- 0.85	123×108	p		
21	K 3-68	178 - 2°1	05 28 25.4	+28 56 31	a		178.33	- 2.57	10.7	p,s		c18
22	K 3-69	170 + 4°1	05 37 54.1	+39 13 39	a		170.74	+ 4.65	st	s	pl	
23	K 3-70	184 + 0°1	05 55 40.1	+25 18 31.1	a		184.61	+ 0.67	1.8	p,s		
24	K 2-12	243 -25°1	06 00.40	-37 25.4			243.79	-25.34	65×42	p		
25	Ka 1-1	197 - 2°2	06 10	+12 24			197.51	- 2.75	44×25	s		
26	K 3-71	184 + 4°1	06 10 47.4	+26 53 51	a		184.89	+ 4.40	3.1	p,s		c18
27	We 1-4	201 - 4°1	06 11 51.0	+07 35 30	c		201.96	- 4.66	40×40	p		
28	K 3-72	204 - 3°1	06 21 14.7	+05 31 51	a		204.88	- 3.58	22×24 (25×55)	p,s		c18
29	K 2-13	247 -21°1	06 23.84	-39 50.0			247.77	-21.68	172×132	p		
30	K 4-48	201 + 2°1	06 37 09.17	+11 09 17.6	a		201.74	+ 2.52	st	s	pl	c18
31	We 1-5	216 - 4°1	06 39 06.5	-04 59 44	c		216.31	- 4.49	16×14	p		
32	K 2-14	210 - 0°1	06 42.03	+01 22.1			210.98	- 0.92	4.7	p		
33	K 4-50	208 + 1°1	06 44 25.12	+04 40 36.8	a		208.32	+ 1.14	st	s	pl	
34	We 2-34	210 + 3°1	06 57 49	+04 25	d		210.09	+ 3.98	?×232	p		
35	Sa 2-4	225 - 2°1	07 04.4	-11 41	b		225.13	- 2.00		s		
36	W 17-1	258 -15°1	07 13 23.6	-46 52 52	a	StWr	258.08	-15.75		s,p16		
37	We 2-37	225 + 0°1	07 13 46.4	-10 47 39	c		225.42	+ 0.45	30×27	p		
38	We 1-6	224 + 1°1	07 15 03.6	-10 05 13	c		224.94	+ 1.06	62×62	p		
39	W 17-2	247 -10°1	07 16 24.7	-34 49 07			247.11	-10.12		s		c4
40	W 17-3	245 - 8°1	07 17 13.8	-32 29 36			245.08	- 8.93		s		c4
41	W 16-2	242 - 6°1	07 22 14.9	-28 53 35			242.35	- 6.31		s		c4
42	W 17-4	247 - 8°1	07 24 25.7	-34 50 57			247.89	- 8.67		s		c4
43	W 16-3	244 - 6°1	07 26 01.8	-30 35 55			244.26	- 6.39		s		c4
44	Sa 3-5	233 - 0°1	07 26.04	-17 50.6	b		233.03	- 0.29				
45	W 17-5	244 - 6°2	07 26 05.2	-30 39 18			244.31	- 6.41		s		
46	W 17-6	256 -11°1	07 33 48.9	-43 54 21			256.90	-11.24		s		
47	W 17-7	244 - 4°1	07 35 24.0	-30 00 47			244.72	- 4.34		s		c4
48	W 16-5	245 - 3°1	07 39 36.7	-29 52 12			245.04	- 3.47		s		c4
49	W 16-6	246 - 4°1	07 40 02.4	-31 39 19			246.64	- 4.28		s		c4
50	W 16-7	248 - 4°1	07 44 52.6	-33 18 25			248.59	- 4.22		s		c4
51	SaSt 2-3	232 + 5°1	07 45 44.8	-14 00 12			232.02	+ 5.73	st	s,s10,p10		
52	W 17-8	243 - 0°1	07 47 37.2	-27 27 57			243.85	- 0.74	54 Hi	s		c4
53	ESO-089-G?05	276 -18°1	07 50 06	-64 08.0	b		276.71	-18.18	36×18			
54	W 17-9	268 -14°1	07 50 20.1	-55 34 13			268.76	-14.29		s		
55	CeGi-1	259 - 9°2	07 50 56.42	-45 43 09.3			259.99	- 9.44				
56	Sa 2-18	252 - 4°1	07 51.13	-36 36.0	b		252.09	- 4.79		s		
57	CeGi-2	259 - 9°1	07 51 11.87	-45 04 12.0			259.45	- 9.07				
58	W 16-9	262 -10°1	07 54 09.6	-48 41 44			262.89	-10.45		s		
59	W 17-10	251 - 3°1	07 54 15.9	-35 34 07			251.53	- 3.72		s		c4
60	CeGi-3	259 - 7°1	07 57 54.43	-44 35 43.1			259.65	- 7.81				
61	W 17-11	261 - 8°2	07 58 00.5	-46 53 50			261.64	- 8.98		s		
62	W 17-12	269 -13°1	07 58 06.5	-55 28 18			269.21	-13.28		s		
63	W 17-13	263 - 9°1	07 58 57.2	-48 22 35			263.02	- 9.60		s		
64	W 17-14	261 - 8°1	07 59 52.4	-46 48 36			261.74	- 8.66		s		
65	W 16-11	262 - 8°1	08 01 15.0	-47 49 14			262.74	- 8.99		s		
66	W 16-12	258 - 6°1	08 01 32.3	-42 45 09			258.41	- 6.29		s		
67	K 1-21	251 - 1°1	08 02.33	-34 07.5			251.18	- 1.55	35×22	p		
68	Sa 2-21	238 + 7°2	08 06.5	-19 05.	b		238.99	+ 7.35	40×40 San			
69	W 16-13	246 + 2°1	08 06 31.2	-27 32 26			246.13	+ 2.78		s		c4,c17
70	W 16-14	265 - 9°1	08 06 57.3	-50 23 54			265.46	- 9.54		s		
71	CeGi-4	238 + 7°1	08 06 59.40	-18 32 51.2			238.59	+ 7.73				
72	CeGi-5	240 + 7°1	08 08 28.97	-20 22 35.9			240.34	+ 7.04		s14		
73	W 17-15	251 + 0°1	08 12 37.3	-33 37 43			251.93	+ 0.51		s		c4,c17
74	W 17-16	245 + 5°1	08 13 39.0	-25 49 18			245.57	+ 5.05		s		
75	W 17-17	251 + 1°1	08 13 55.1	-33 06 35			251.66	+ 1.03		s		c4,c17
76	No-238	254 + 0°1	08 19.0	-36 03	d		254.67	+ 0.22		p		
77	W 16-19	261 - 4°1	08 19 23.9	-44 14 05			261.44	- 4.39		s,s14		
78	W 16-20	260 - 3°1	08 21 57.5	-43 02 59			260.73	- 3.33		s		
79	W 17-18	262 - 4°1	08 22 28.4	-45 17 08			262.62	- 4.55		s		
80	W 17-19	257 - 0°1	08 25 44.0	-38 43 47			257.63	- 0.24		s		
81	SaSt 1-1	249 + 6°1	08 29 36.8	-27 35 20	b		249.08	+ 6.97	st	p,s,s11, p11		
82	W 17-20	264 - 3°1	08 32 50.0	-46 15 16			264.47	- 3.65		s		
83	W 16-22	255 + 3°1	08 34 19.3	-35 05 23			255.73	+ 3.31		s,s14		
84	W 16-24	259 + 0°2	08 36 07.5	-39 33 48			259.50	+ 0.88		s		
85	W 16-26	256 + 3°1	08 39 13.4	-35 51 54			256.95	+ 3.62		s		
86	W 16-28	267 - 3°1	08 41 53.7	-48 43 55			267.37	- 3.95		s		
87	W 17-21	268 - 3°1	08 45 01.0	-49 10 12			268.03	- 3.83		s		
88	W 16-29	270 - 5°1	08 49 17.4	-52 25 09			270.99	- 5.36		s		
89	W 16-31	270 - 4°1	08 51 12.4	-51 29 33			270.46	- 4.54		s		
90	W 17-22	261 + 4°1	08 54 20.1	-38 50 36			261.17	+ 4.07		s		
91	W 17-23	270 - 2°1	09 04 18.2	-50 07 07			270.79	- 2.08		s		
92	W 17-24	264 + 3°1	09 05 14.8	-42 03 17			264.96	+ 3.49		s		
93	W 17-25	261 + 6°1	09 07 16.1	-37 30 34			261.86	+ 6.86		s		
94	ESO-126-G?01	277 - 7°1	09 11 17	-58 38.1	b		277.74	- 7.13	48×36			
95	W 17-26	279 - 8°1	09 12 26.1	-60 33 28			279.26	- 8.34		s		
96	W 17-27	282 -10°1	09 15 46.6	-64 45 39			282.62	-10.96		s		
97	W 16-42	278 - 6°3	09 18 15.5	-58 51 03			278.53	- 6.63		s		
98	W 17-28	278 - 6°2	09 21 50.8	-58 39 03			278.72	- 6.16		s		
99	W 16-45	272 + 0°1	09 22 21.3	-50 02 12			272.75	+ 0.06		s		
100	W 17-29	264 + 8°1	09 22 29.8	-38 23 42			264.60	+ 8.40		s		
101	W 17-30	275 - 3°2	09 22 57.6	-54 33 37			275.97	- 3.13		s		
102	ESO-212-PN?08	274 - 0°1	09 29 42	-51 54.0	b		274.87	- 0.50	24×24			
103	W 17-31	277 - 3°2	09 29 53.9	-56 04 24			277.73	- 3.55	115×105 BRABCMS	s		c2
104	W 16-50	266 + 8°1	09 30 43.6	-39 20 39			266.44	+ 8.83		s		
105	W 16-52	268 + 7°1	09 32 43.2	-41 27 32			268.17	+ 7.54		s		
106	W 17-32	282 - 7°1	09 35 44.3	-62 13 34			282.45	- 7.59		s		
107	W 16-53	274 + 1°1	09 36 14.0	-49 56 00			274.32	+ 1.65		s		
108	W 17-33	274 + 2°3	09 36 45.5	-49 32 11			274.12	+ 2.00		s		
109	W 16-55	277 - 1°1	09 37 57.1	-54 39 40			277.63	- 1.73		s		
110	W 17-34	283 - 7°1	09 38 39.0	-62 58 44			283.20	- 7.93		s		
111	W 17-35	279 - 3°2	09 39 18.3	-56 44 22			279.14	- 3.17	40×30 BRABCMS	s		c2
112	W 16-58	274 + 3°3	09 45 01.9	-49 09 43			274.90	+ 3.16		s		
113	W 17-36	285 - 9°1	09 45 07.5	-65 29 11			285.40	- 9.36		s		
114	W 17-37	274 + 3°2	09 46 22.5	-48 19 24			274.53	+ 3.95		s		
115	W 16-61	278 + 0°1	09 50 18.7	-53 19 49			278.17	+ 0.45		s		
116	ESO-167-?10	280 - 2°2	09 51 21	-57 11.3	b		280.69	- 2.47				
117	W 17-38	279 + 1°1	09 57 52.4	-53 13 47			279.00	+ 1.23		s		
118	ESO-092-G?02	285 - 7°1	09 58 05	-64 29.4	b		285.85	- 7.73	36×18			
119	St 1-1	284 - 5°1	10 00.51	-61 42.8	b		284.38	- 5.35	st	p20,s14		c2
120	W 17-39	280 - 0°1	10 01 08.1	-55 34 59			280.79	- 0.37		s		
121	W 16-65	275 + 6°1	10 02 52.0	-46 51 47			275.83	+ 6.81		s		
122	Lo-4	274 + 9°1	10 03 44	-44 04.2			274.28	+ 9.15	54×42			
123	CeGi-6	289 -11°1	10 04 41.92	-69 46 31.8			289.59	-11.56				
124	W 17-40	286 - 6°2	10 05 27.8	-64 07 05			286.27	- 6.95		s		
125	W 17-41	288 - 8°1	10 07 28.5	-66 45 21			288.00	- 8.97		s		
126	Ste-1	280 + 2°1	10 10.07	-52 23.4	b	Sa 2	280.01	+ 2.99		p,s14		
127	W 17-42	289 - 8°1	10 19 37.3	-67 16 50			289.29	- 8.74		s		
128	W 17-43	286 - 2°1	10 24 55.4	-60 40 18			286.24	- 2.84		s		
129	W 17-44	285 - 1°2	10 27 28.0	-59 34 16			285.94	- 1.73		s		
130	ESO-264-G?53	283 +12°1	10 55 02	-45 54.4	b		283.14	+12.26	30×18			
131	ESO-128-EN25	288 + 0°2	10 57 36	-58 45.0	b		288.97	+ 0.79	48×36			
132	ESO-038-?07	295 -13°1	11 01 11	-74 37.1	b		295.90	-13.52	42×36			
133	CeGi-7	285 +11°1	11 06 52.06	-47 46 40.0			285.81	+11.39				
134	CeGi-8	286 +10°1	11 08 17.84	-48 49 51.6			286.45	+10.51				
135	St 2-14	292 - 3°1	11 08.45	-63 26.9	b		292.04	- 3.00				
136	Lo-5	286 +11°1	11 11 32	-47 49.2			286.57	+11.65	216			
137	CeGi-9	287 +10°1	11 14 45.30	-48 55 41.9			287.49	+10.82				
138	ESO-216-G?02	288 + 8°1	11 15 52	-51 53.7	b		288.74	+ 8.11	36×36			
139	W 16-87	295 - 9°2	11 16 05.4	-70 21 39			295.28	- 9.16		s		
140	W 17-46	292 - 1°1	11 21 01.0	-62 03 54			292.89	- 1.20		s		
141	K 1-22	283 +25°1	11 24.28	-34 05.7			283.67	+25.31	188×174	p,s15,s19		
142	CeGi-12	290 + 9°1	11 27 34.10	-50 58 53.4			290.17	+ 9.58				
143	W 16-93	292 + 1°3	11 28 29.7	-59 00 30			292.79	+ 1.99		s		
144	CeGi-13	289 +10°1	11 29 03.11	-49 42 04.5			289.99	+10.87				
145	W 16-99	296 - 6°2	11 36 57.9	-68 29 34			296.45	- 6.81		s		
146	W 17-47	294 + 0°1	11 42 09.0	-60 54 59			294.96	+ 0.64		s		
147	W 17-48	293 + 5°1	11 43 14.9	-56 04 11			293.87	+ 5.36		s		
148	W 17-49	292 +10°1	11 45 09.0	-51 11 32			292.92	+10.16		s		
149	BDS-1	293 +10°1	11 50 33	-50 34			293.61	+10.97	82×82	p,s		
150	W 16-102	295 + 6°1	11 53 44.8	-55 16 20			295.13	+ 6.48		s		
151	W 17-50	295 + 4°1	11 53 46.7	-56 55 37			295.49	+ 4.87		s		
152	W 16-103	294 +12°1	11 57 37.4	-49 09 16			294.43	+12.59		s		
153	W 17-51	297 - 3°1	11 57 50.4	-65 30 50			297.73	- 3.44		s		
154	Lo-6	294 +14°1	11 58 10	-47 16.5			294.13	+14.45	66×59			
155	W 17-52	295 + 7°1	12 00 52.9	-54 07 46			295.92	+ 7.81		s		
156	W 17-53	296 +10°1	12 07 27.6	-51 29 50			296.44	+10.57		s		
157	W 17-54	297 +13°1	12 13 52.1	-48 54 55			297.08	+13.28		s		
158	W 17-55	297 + 7°1	12 14 41.7	-54 19 06			297.96	+ 7.95		s		
159	W 16-113	300 - 2°2	12 25 46.7	-65 02 43			300.55	- 2.26		s		
160	ESO-095-PN?12	300 - 3°1	12 27 32	-65 57.8	b		300.81	- 3.45	18×18			
161	K 1-23	299 +18°1	12 28.18	-43 57.8			299.05	+18.48	68×55	p,s19		
162	CeGi-14	302 - 5°1	12 40 17.57	-67 56 17.6			302.18	- 5.35				
163	W 16-120	302 + 2°1	12 42 58.7	-60 03 51			302.25	+ 2.53	12×12 ESO3	s		
164	W 17-56	302 - 0°2	12 43 27.5	-63 08 07			302.37	- 0.54		s		
165	W 16-121	302 - 0°3	12 45 29.8	-63 33 35			302.61	- 0.96	60×30 BRABCMS	s		c4,c2
166	W 17-57	303 + 1°1	12 50 13.6	-61 29 53			303.15	+ 1.10		s		
167	W 16-122	304 + 5°2	12 57 41.6	-56 37 19			304.20	+ 5.96	36×36	s		

Table 1 *(continued)*

(1) NO.	(2) NAME	(3) DESIGN.	(4) R.A.(1950) H M S	DECL.(1950) D M S	(5) ACC	(6) REF.	(7) ℓ D	b D	(8) DIMENSION ARCSEC	(9) OPTICAL	(10) INFRARED	(11) RADIO
168	W 17-58	305 + 3°2	13 07 12.6	-59 29 11			305.31	+ 3.03		s		
169	St 2-22	305 + 3°1	13 11.37	-58 35.9	*b*		305.92	+ 3.88				
170	W 17-59	305 - 3°1	13 16 06.5	-65 53 23			305.77	- 3.44	24×24 ESO3	s		
171	W 16-128	307 + 5°1	13 21 11.2	-57 15 39			307.36	+ 5.07	18×18 ESO3	s		
172	Lo-8	310 +24°1	13 22 43	-37 29.6			310.35	+24.63	125×104			
173	W 16-129	307 + 1°1	13 22 51.3	-60 59 41			307.09	+ 1.34		s		
174	W 17-60	306 - 0°2	13 22 51.9	-63 18 51			306.79	- 0.96		s		
175	ESO-040-PN?11	305 -13°1	13 29 59	-75 31.1	*b*		305.62	-13.13	78×66	s23		
176	W 17-61	307 - 1°2	13 34 12.1	-63 45 26			307.97	- 1.59		s		
177	W 17-62	308 + 0°1	13 34 16.1	-61 32 49			308.37	+ 0.58		s		
178	Ste-2	309 + 6°1	13 35.7	-55 51.8			309.56	+ 6.14				
179	W 17-63	308 + 0°2	13 36 56.5	-61 51 21			308.62	+ 0.22		s		
180	ESO-097-PN03	308 - 1°1	13 37 33	-64 00.5	*b*		308.29	- 1.91				
181	BRABCMS-5	309 + 1°1	13 40 34	-60 34.6	*b*	ESO3	309.29	+ 1.39	85×60	s23		c2
182	W 16-137	309 + 0°1	13 46 44.4	-61 34 02			309.82	+ 0.27		s		
183	Ste-3	310 + 2°1	13 50.0	-58 42.9			310.86	+ 2.95				
184	SchuWe-2	311 + 2°2	13 52.3	-59 08			311.05	+ 2.48	90×45	s23		
185	W 16-143	310 - 3°1	13 56 33.9	-65 10 57			310.02	- 3.50		s		
186	StWr-9	317 +19°1	14 00 15.1	-41 08 54	*a*		317.14	+19.49		p,p20		c2
187	W 17-64	311 - 0°1	14 05 05.6	-62 15 41			311.73	- 0.95		s		
188	W 17-65	308 -12°2	14 10 53.6	-73 52 59			308.70	-12.19		s		
189	W 16-150	311 - 6°1	14 14 56.1	-67 15 26			311.19	- 6.03		s		
190	W 17-66	313 + 1°1	14 15 16.8	-59 38 46			313.71	+ 1.15		s		
191	W 16-155	314 - 0°1	14 29 17.0	-60 41 46			314.97	- 0.44		s		
192	K 1-24	322 +14°1	14 35.03	-44 00.0			322.37	+14.59	48×48	p,s19		
193	W 17-67	313 - 5°1	14 36 44.7	-65 38 02			313.82	- 5.32		s		
194	W 17-68	317 + 3°1	14 37 58.1	-56 02 30			317.84	+ 3.39	50×40 BRABCMS	s		c2
195	CeGi-16	333 +32°1	14 42 04.00	-23 35 01.6			333.85	+32.18				
196	W 16-158	315 - 4°1	14 48 30.4	-63 49 59			315.72	- 4.22		s		
197	ESO-223-PN?10	324 + 9°1	14 58 14	-48 09.2	*b*		324.17	+ 9.08	18×18			
198	W 16-160	320 + 0°1	15 01 29.1	-57 20 03			320.15	+ 0.80	147 Hi	s		c4
199	W 16-161	318 - 2°3	15 01 33.2	-60 37 13			318.57	- 2.08		s		
200	ESO-135-?04	318 - 3°1	15 04 39	-61 32.6	*b*		318.44	- 3.07	42×42			
201	CeGi-17	339 +29°1	15 05 26.18	-23 03 23.5			339.46	+29.74				
202	W 16-172	320 - 1°1	15 14 14.1	-59 27 59			320.52	- 1.89		s		
203	W 16-174	321 - 0°1	15 15 37.1	-57 11 29			321.87	- 0.05		s		
204	W 17-69	321 - 0°2	15 17 11.8	-57 46 11			321.74	- 0.65		s		
205	W 16-179	325 + 4°3	15 21 04.3	-51 26 02			325.65	+ 4.37		s		
206	W 17-70	321 - 1°1	15 22 54.4	-58 48 10			321.81	- 1.93		s		
207	ESO-135-?09	319 - 4°1	15 23 13	-62 20.7	*b*		319.88	- 4.90	24×18			
208	Lo-9	330 + 5°1	15 38 40	-47 31.2			330.26	+ 5.93	(116)×(95)			
209	W 16-185	326 + 0°1	15 41 09.4	-53 52 46			326.72	+ 0.62		s		
210	W 16-188	338 +14°1	15 44 37.1	-35 19 16			338.82	+14.82		s		
211	Lo-10	328 + 1°1	15 45 46	-52 21.4			328.20	+ 1.40	12			
212	W 17-71	346 +22°1	15 46 55.0	-24 16 28			346.87	+22.85		s		
213	W 16-189	330 + 4°2	15 47 42.8	-48 17 03			330.99	+ 4.39		s		
214	W 16-191	329 + 1°1	15 47 56.2	-51 22 29			329.08	+ 1.96	60 Hi	s,s14		c4
215	ESO-330-PN?02	335 + 9°1	15 49 49	-41 41.5	*b*		335.47	+ 9.27	36×36			
216	W 16-192	331 + 3°1	15 49 50.3	-48 34 28			331.08	+ 3.94		s		
217	BRABCMS-7	329 + 1°2	15 51 05	-51 13.7	*b*	ESO3	329.55	+ 1.76	105×95			c2
218	CeGi-19	342 +15°1	15 55 37.22	-31 51 47.6			342.97	+15.94				
219	W 16-197	326 - 3°1	15 55 44.1	-57 21 27			326.15	- 3.38		s		
220	ESO-100-G?07	321 - 9°1	15 56 43	-64 39.5	*b*		321.46	- 9.00	24×18			
221	W 16-199	332 + 3°1	15 56 43.7	-48 07 08			332.25	+ 3.56		s		
222	StWr-10	336 + 8°1	15 58 47.9	-41 25 16	*a*		336.94	+ 8.38		p		c2
223	Lo-11	340 +12°1	16 00 04	-35 52.3			340.89	+12.35	67×50			
224	W 17-72	323 - 7°1	16 00 05.6	-62 14 33			323.35	- 7.43		s		
225	W 16-202	332 + 1°1	16 03 14.8	-49 18 37			332.28	+ 1.96		s		
226	Lo-12	340 +10°1	16 05 10	-36 59.0			340.89	+10.84	83×75			
227	Lo-13	345 +15°1	16 06 35	-30 46.2			345.51	+15.13	71			
228	ESO-100-G?12	321 -11°1	16 07 33	-66 31.4	*b*		321.02	-11.13	24×12			
229	Lo-14	331 + 0°1	16 07 57	-51 10.1			331.59	+ 0.07	125×117			
230	Sa 1-4	330 - 2°3	16 11.43	-53 44.1	*b*		330.22	- 2.16	st	p20		c2
231	W 17-73	325 - 7°1	16 11 29.7	-60 55 02			325.26	- 7.38		s		
232	ESO-100-G?16	321 -11°2	16 12 15	-66 30.6	*b*		321.37	-11.45	24×18			
233	W 17-74	332 - 0°1	16 12 56.4	-51 10 12			332.16	- 0.46		s		
234	W 17-75	330 - 2°2	16 13 00.0	-53 17 14			330.70	- 2.00		s		
235	W 16-216	333 - 0°1	16 17 09.8	-49 54 23			333.52	- 0.02		s		
236	DoDz-1	61 +41°1	16 38.6	+38 47.8		KaOg	61.94	+41.39	st	p,s,p5,s5		
237	W 17-76	352 +11°1	16 41 41.7	-27 58 36			352.95	+11.40		s		
238	ESO-023-G?08	313 -21°1	16 54 13	-78 22.8	*b*		313.94	-21.40	24×24			
239	SaSt 2-12	334 - 7°1	16 59 00.2	-53 51 31		Wr	334.84	- 7.46	st	s,p20		
240	W 16-251	342 - 2°2	17 03 52.9	-44 18 47			342.95	- 2.31		s		
241	Sa 1-5	340 - 4°1	17 07.71	-47 21.3	*b*		340.91	- 4.66	st	p20		c2
242	ESO-180-PN?05	336 - 8°1	17 13 07	-53 33.1	*b*		336.34	- 8.97	24×18			
243	ESO-180-G?06	333 -11°1	17 14 42	-56 51.3	*b*		333.70	-11.02	12×12			
244	Sa 3-43	355 + 4°1	17 14.73	-29 58.6	*b*		355.79	+ 4.45				
245	W 16-266	337 - 9°1	17 18 36.5	-52 43 39			337.50	- 9.18	18×18 ESO4	s		
246	StWr-48	331-13°1	17 20 42.0	-59 29 34	*a*		331.89	-13.13		p		
247	W 16-269	352 + 0°2	17 21 10.9	-34 39 12			352.73	+ 0.65		s		
248	Sa 2-202	346 - 4°1	17 25.6	-42 30.	*b*		346.72	- 4.47				
249	W 16-278	344 - 6°1	17 26 23.2	-45 20 31			344.42	- 6.16		s		
250	W 17-88	359 + 3°4	17 28 57.6	-27 56 14			359.23	+ 3.03		s		
251	W 16-286	351 - 1°1	17 29 37.3	-36 41 48			351.99	- 1.91		s		
253	W 16-287	350 - 2°2	17 30 55.3	-38 07 16			350.94	- 2.91		s		
254	Lo-16	349 - 4°1	17 32 10	-40 10.1			349.35	- 4.22	(83)			
255	W 16-295	354 - 2°1	17 37 16.7	-34 29 02			354.70	- 2.02		s		
256	Sa 2-230	10 + 7°1	17 39 17	-15 54.8	*b*		10.70	+ 7.47				
257	W 16-298	357 - 1°1	17 40 54.3	-32 00 28			357.20	- 1.35		s		
258	Sa 2-237	11 + 7°1	17 41.82	-15 44.0	*b*		11.19	+ 7.02				
259	Ste-4	356 - 3°4	17 46.5	-33 31.2			356.52	- 3.14				
260	W 16-312	358 - 1°2	17 47 03.0	-30 56 45			358.79	- 1.91		s		
261	Sa 3-92	1 - 1°4	17 51.69	-28 48.4	*b*		1.14	- 1.68				
262	Sa 3-96	13 + 5°1	17 52.92	-15 02.2	*b*		13.16	+ 5.07				
263	W 17-104	357 - 4°4	17 55 06.7	-33 04 08			357.83	- 4.46		s		
264	Sa 3-104	1 - 2°2	17 55.24	-29 20.6	*b*		1.07	- 2.62				
265	ESO-279-G?14	345 -11°1	17 55 52	-46 38.7	*b*		345.93	-11.22	24×24			
266	W 16-344	358 - 4°2	17 56 37.8	-32 59 04			358.06	- 4.69		s		
267	StWr-41	340 -14°1	17 56 57.6	-52 44 17	*a*		340.48	-14.20		p,p20		c2
268	Sa 3-111	14 + 4°1	17 58.27	-14 30.3	*b*		14.27	+ 4.21				
269	W 17-107	2 - 3°7	18 00 54.9	-28 28 05			2.45	- 3.26		s		
270	ESO-280-G?02	349 -10°1	18 00 55	-43 24.0	*b*		349.28	-10.48	30×24			
271	W 16-363	0 - 4°3	18 01 30.2	-31 03 04			0.26	- 4.64		s		
272	Sa 3-119	3 - 3°1	18 03.35	-27 44.8	*b*		3.34	- 3.37				
273	ESO-182-G?04	341 -15°1	18 05 29	-52 34.4	*b*		341.22	-15.29	72×72			
274	StWr-37	345 -13°1	18 06 46.4	-48 26 26	*a*		345.16	-13.68		p		
275	W 16-376	352 - 9°1	18 07 07.7	-39 53 53			352.97	- 9.87		s		
276	W 16-385	351 -10°1	18 09 21.2	-41 31 17	*a*	StWr	351.70	-10.99		s,16,s14		
277	St 2-128	7 - 3°2	18 14.73	-24 03.8	*b*		7.81	- 3.83				
278	W 16-411	353 -12°1	18 23 11.0	-40 31 40			353.79	-12.90		s		
279	Lo-17	356 -11°1	18 24 24	-37 17.9			356.88	-11.72	104			
280	Sa 3-134	16 - 2°1	18 26.47	-15 09.7	*b*		16.98	- 2.08				
281	VVKDA-4	13 - 4°2	18 27.62	-19 16.9	*b*	Sa 2	13.46	- 4.24	st	s,s14		
282	ESO-281-G?07	348 -16°1	18 29 50	-46 17.0	*b*		348.86	-16.34	24×18			
283	K 1-25	38 + 7°1	18 30.77	+08 16.1			38.30	+ 7.82	20×20	p		
284	Al-1	6 - 8°1	18 31.79	-27 08.8			6.84	- 8.67	14×12.5	p20		
285	VVKDA-5	14 - 5°2	18 33.58	-19 22.0	*b*	Sa 2	14.03	- 5.53	st	s,p20,s14		c2
286	VVKDA-6	14 - 5°2	18 34 14.53	-19 04 58.7		CeGi	14.35	- 5.54	st	s,s14		
287	CeGi-26	13 - 7°2	18 38 57.90	-20 35 14.2			13.51	- 7.21				
288	We 1-7	21 - 3°1	18 41 19.4	-12 16 04	*c*		21.22	- 3.94	17×17	p		
289	CeGi-29	15 - 8°1	18 46 11.16	-19 37 32.0			15.14	- 8.30				
290	St 2-149	28 - 2°1	18 47.49	-05 18.5	*b*		28.11	- 2.11				
291	Sa 1-8	20 - 5°1	18 47.91	-13 34.7	*b*		20.78	- 5.97	st	p20,s14		c2
292	CeGi-32	13 -10°1	18 52 30.79	-21 53 33.2			13.72	-10.62		s14		
293	ESO-337-G?04	356 -18°1	18 54 56	-39 58.5	*b*		356.77	-18.26	18×18			
294	St 2-151	33 - 1°1	18 56.29	-00 37.1	*b*		33.29	- 1.90				
295	Lo-18	341 -24°1	19 05 38	-55 39.5			341.23	-24.60	44×41			
296	StWr-21	5 -18°1	19 11 08.9	-32 39 31	*a*		5.21	-18.69		p		
297	W 16-423	6 -19°1	19 18 58.3	-31 36 25	*a*	StWr	6.87	-19.86		s,p16		
298	We 1-8	59 - 1°2	19 46 43.2	+22 17 41	*c*		59.30	- 1.73	25×18	p		
299	Ka 1-2	69 + 1°1	19 59	+33 08			69.97	+ 1.60	115×82	s		
300	K 3-73	84 + 9°1	20 02.53	+49 10.6	*b*		84.02	+ 9.51	<18×<16	p,s		
301	We 1-9	65 - 3°1	20 06 58.8	+26 18 02	*c*		65.15	- 3.54	26×23	p		
302	K 3-74	78 + 5°1	20 07.02	+42 21.3	*b*		78.61	+ 5.22	23×20	p,s		
303	KaPa-1	77 + 3°1	20 10.64	+40 36.4	*b*	Ko	77.52	+ 3.70	13×13	p,p7,s7, p11,s11	p1	
304	KaPa-2	77 + 3°2	20 13.60	+40 25.5	*b*	Ko	77.68	+ 3.13	17×10	p,p7,s7		
305	KaPa-3	76 + 1°2	20 15.43	+38 40.9	*b*	Ko	76.43	+ 1.86	7×7	p,p7,s7		
306	Ka 2-1	77 + 2°1	20 15.6	+39 35.9			77.21	+ 2.35		p		
307	K 3-76	73 - 2°1	20 23.11	+33 25.0	*b*		73.01	- 2.43	<8.5	p,s		
308	KaPa-4	79 + 0°1	20 27.0	+40 14.7			79.00	+ 0.93	7×7	p		
309	She-1	78 + 0°1	20 27 28	+40 05.1			78.92	+ 0.77	10×10	p,p6,p7 s7		c3
310	We 1-10	86 + 5°1	20 30 19.2	+48 32 27	*c*		86.19	+ 5.46	194×187	p		
311	K 4-53	78 - 2°1	20 40.35	+37 29.7	*b*		78.38	- 2.80	22×19	p,s		
312	K 4-55	84 + 1°1	20 43.43	+44 28.3	*b*		84.20	+ 1.09	33×22	p,s,p22, s22		
313	K 3-78	88 + 4°1	20 43.82	+50 11.7	*b*		88.71	+ 4.62	<7	p,s		
314	K 3-79	92 + 5°1	20 51.77	+53 34.3	*b*		92.12	+ 5.81	12.0	p,s		
315	K 4-56	86 + 0°1	20 54.02	+46 21.7	*b*		86.84	+ 0.87	<8	p,s,p22, s22	p1	
316	K 3-80	84 - 4°1	21 05.77	+40 45.8	*b*		84.07	- 4.44	<10	p,s		
317	We 1-11	91 + 1°1	21 09 13.8	+50 34 48	*c*		91.66	+ 1.82	28×22	p		
318	We 2-245	87 - 3°1	21 16 14.9	+43 36 00	*c*		87.47	- 3.89	35×35	p		
319	K 3-81	83 - 8°1	21 20.27	+37 54.4	*b*		83.94	- 8.44	<11	p,s	p1	
320	CaPa-1	65 -27°2	21 27.6	+11 57		Arp	65.02	-27.32	≤10	s13	p9	
321	K 3-82	93 - 0°1	21 29.11	+49 46.9	*b*		93.36	- 0.99	<24	p,s		
322	K 3-83	94 - 0°1	21 33.98	+50 40.8	*b*		94.54	- 0.85	<9	p,s		
323	K 3-84	91 - 4°1	21 36.92	+45 46.9	*b*		91.65	- 4.84	≤12×≤10	p,s		
324	ESO-289-G?19	353 -55°1	22 18 06	-44 08.0	*b*		353.89	-55.53	12×12			
325	KaPa-6	111 + 6°1	22 47.27	+66 45.8	*b*	Ko	111.39	+ 6.94	17×12	p,p7,s7	p1	
326	K 3-85	108 + 0°1	22 48.89	+59 14.4	*b*		108.17	+ 0.13	<6.5	p,s		
327	K 3-86	106 - 4°1	22 52.65	+54 40.0	*b*		106.63	- 4.20	10.4	p,s		
328	K 3-87	107 - 2°2	22 53.03	+56 26.5	*b*		107.44	- 2.62	≤7	p,s		
329	KaPa-7	113 + 5°1	23 05.7	+66 43.1			113.03	+ 6.13	8×8	p		
330	Ka 2-2	113 + 5°1	23 07.2	+66 32.0			113.09	+ 5.91		p		
331	We 1-12	110 - 0°1	23 10 02.7	+ 59 19 45	*c*		110.67	- 0.89	162×78	p		
332	K 3-88	112 + 3°1	23 10.18	+64 23.0	*b*		112.57	+ 3.80	<9	p,s		
333	We 2-260	111 - 3°1	23 20 04.9	+57 29 38	*c*		111.25	- 3.07	148×132	p		
334	KaPa-8	112 - 0°1	23 21.93	+60 41.0	*b*	Ko	112.54	- 0.14	13×13	p,p7,s7		
335	We 2-262	116 + 0°1	23 49 51	+62 14	*d*		116.17	+ 0.42	183×76	p		