

CATALOGUES OF H α -EMISSION STARS AND NEBULAE
IN THE MAGELLANIC CLOUDS*

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ABSTRACT

Catalogues of 236 emission-line stars and 532 emission nebulae discovered on objective-prism photographs of the Magellanic Clouds are presented in four tables. A fifth table lists exciting stars involved in the Large Cloud nebulae. Finding charts are provided for both Clouds.

I. INTRODUCTION

H α objective-prism photographs, taken with the Mount Wilson 10-inch camera at the Lamont-Hussey Observatory of the University of Michigan, reveal numerous emission-line stars and nebulae in the Magellanic Clouds. The results of a survey of the first plates taken were reported and discussed in 1950 by Henize and Miller (1951). Although these original data have been slightly revised and extended by subsequent examination of plates of unwidened spectra, the conclusions reached in 1950 remain essentially unchanged. Additional investigations of the Magellanic Clouds have been undertaken, notably the study of the surface brightnesses (Doherty, Aller, and Henize 1956) and electron densities (Aller 1956) of the Large Cloud nebulae. The primary purpose of the present paper is to set forth the discovery data on which these discussions have been based and to provide observers with catalogues and charts of the emission-line objects.

II. THE OBSERVATIONS

The instrument used in this investigation, the red-corrected Mount Wilson 10-inch camera equipped with a 15° objective prism, has a plate scale of 159"/mm and gives a dispersion of 450 Å/mm at H α . All exposures were taken on Kodak 103a-E emulsion with a red Plexiglass filter. Photometric calibration of the plates was made with a tube sensitometer. The limiting photored magnitude for continuous spectra is approximately 13.5, which, with the revised distance modulus of 19.0 for the Magellanic Clouds (Shapley and Nail 1954), corresponds to an absolute magnitude of -5.5 . The survey covers an area 15° square centered on each Cloud. Two plates of widened spectra (width = 0.2 mm) and one plate of unwidened spectra on each region have been thoroughly searched and intercompared.

The material has been divided into five tables:

Table 1, "The Catalogue of Emission-Line Stars in the Large Cloud"

Table 2, "The Catalogue of Emission Nebulae in the Large Cloud"

Table 3, "The Catalogue of Exciting Stars Involved in the Large Cloud Nebulae"

Table 4, "The Catalogue of Emission-Line Stars in the Small Cloud"

Table 5, "The Catalogue of Emission Nebulae in the Small Cloud"

In the Small Cloud the objects are generally listed in the order of the X -co-ordinate defined by Miss Leavitt (1908). The Large Cloud has been divided into three zones of declination, and, with a few exceptions, the objects are listed consecutively in each zone according to the X -co-ordinate, beginning with the northernmost zone.

Positions are given in both the Harvard rectangular co-ordinate system (Leavitt

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1908) and the equatorial system. Because of the high declination of the Magellanic Clouds, the Harvard rectangular system is more convenient for work with wide-angle photographs, and, as a consequence, most of the Harvard data are published on this system. In a finding list, however, it is also necessary to give equatorial co-ordinates to facilitate the setting of telescopes. The Harvard co-ordinates were transformed to equatorial co-ordinates by standard procedures, the plate constants being based on data given by Miss Leavitt (1908, Tables I and II). Within the main bodies of the Clouds the probable error introduced by the transformation amounts to about $\pm 10''$. The probable errors of the rectangular co-ordinates given in the present catalogues are about $\pm 10''$ in the Small Cloud and $\pm 20''$ in the Large Cloud.

Inasmuch as this survey is closely linked with the Michigan-Mount Wilson survey of the Milky Way for Be stars, a system of nomenclature similar to that used for the galactic Be stars has been adopted for the Magellanic Clouds. In this system the serial number of the object is preceded by the number of the plate on which it appears. In the Magellanic Clouds it is necessary to distinguish stars from nebulae by adding an "S" or "N" to the designation. Consequently, emission star 15 in the Large Cloud will be referred to as LH α 120-S 15, while nebula 80 in the Small Cloud will be designated LH α 115-N 80. The same plate numbers—LH α 120 and LH α 115—will be used throughout this work for the Large and Small Clouds, respectively.

III. THE CATALOGUES OF EMISSION-LINE STARS

One hundred and seventy-one emission-line stars in the Large Cloud and 65 in the Small Cloud are listed and described. It should be noted that the data discussed in 1950 have been revised by the reclassification of the point sources of H α emission that show no underlying continuous spectrum. Whereas they were originally included among the emission-line stars, they will now be found in the list of nebulae. As a result, the present lists of emission-line stars contain only those objects that show a continuous spectrum underlying the H α emission.

The sixth and seventh columns of Tables 1 and 4 give the intensities of the continuous spectrum and of the H α emission, respectively. The intensity of the continuous spectrum is estimated on a scale from 1 to 5, in which 5 represents an overexposed spectrum and 3 a spectrum of optimum exposure. The additional symbol "T" denotes a trace of continuum too faint to be classed as intensity 1. The intensity of the H α emission, on a similar scale, is relative to the background continuum.

The eighth column gives an estimate of the diffuseness of the H α emission. Here 0 denotes a very sharp line; 1, a line neither very sharp nor appreciably widened; 2, a line of appreciable diffuseness; and 3, a line which is very diffuse. In most cases diffuseness indicates actual broadening of the emission line and implies that the star may be a Wolf-Rayet star. In a few spectra, however, the diffuseness may be due to fuzziness of the star image and possibly indicates that the emission star is multiple or that the emission arises from a barely resolved nebulosity which surrounds the star.

The ninth column gives the photographic magnitude. For stars whose spectral type is given in the tenth column, this magnitude is taken from the *Henry Draper Catalogue* or from *Harvard Bulletin*, No. 801 (Cannon 1924); otherwise it is estimated from the intensity of the red continuum on a system calibrated by the available *Henry Draper* magnitudes of the B stars. The adopted magnitudes equivalent to each intensity estimate are:

Intensity 4 = 10.5	Intensity 1 = 12
Intensity 3 = 11	T = 12.8
Intensity 2 = 11.5	

These may be considered as photographic magnitudes only in so far as they are applied to B stars of normal color. The data used for calibration indicate a maximum error of about ± 0.6 mag., but, in application, even greater errors are to be expected.

References to the *Henry Draper Catalogue* and to the Mount Wilson catalogue of Be stars are given in the notes at the end of the tables. One star from the Harvard lists, the variable P Cygni star HD 269582 = MWC 112, shows no emission on LHa plates. Since the existence of emission in the spectrum of star 83 of the Large Cloud is extremely doubtful, this number has been omitted from Table 1.

IV. CATALOGUES OF EMISSION NEBULAE

The catalogues of emission nebulae include a total of 415 nebulae in the Large Cloud and 117 in the Small Cloud. Many of these objects are bright knots that lie in fainter patches of nebulosity. In view of the impossibility of making a significant distinction between isolated nebulae and knots imbedded in a faint nebulous background, all bright knots, whether or not they are associated with larger fields of nebulosity, are described as separate objects. An attempt has been made to indicate the close relationship between a group of knots involved in a nebulous background by assigning the knots the same number as the background nebulosity and designating the individual knots by letters of the alphabet assigned in the order of the brightnesses of the knots. In some instances groups of knots which seem to be physically related, even though no connecting background nebulosity is visible, have been assigned a group number.

In the present catalogue the appearance of the nebulae has been described in terms of four characteristics: intensity of the H α image, irregularity of shape, elongation, and amount of internal structure. This system is closely related to that employed by Sharpless (1953) to describe the galactic diffuse nebulae. Although the Bok-Wade system of classification (Nail, Whitney, and Wade 1953) offers certain advantages in statistical discussions of nebular types, it is felt that for the purpose of identification it does not describe the individual nebulae with the precision of the Sharpless system.

The sixth and seventh columns of Tables 2 and 5 give the east-west and north-south diameters of the nebulae in that order. The measures are made on the Harvard rectangular co-ordinate system, and it must be remembered that the orientation of the measure will not be true north-south for objects near the east or west edge of the field. Those nebulae for which no diameters are given appear as point sources on LHa plates.

The eighth column gives the intensity of the continuum on a scale similar to that used for the emission stars. Positive data are given only if the continuum appears closely related to the nebulosity; that is, continua from isolated stars within a nebulosity are not considered. In general, the presence of a continuum probably indicates the existence of a cluster or group of stars whose extent is about equal to that of the nebulosity. Notes concerning the occurrence of emission lines other than H α will be found at the end of Table 2.

The H α intensity (ninth col. of Tables 2 and 5), which corresponds to the surface brightness for the extended nebulae, is estimated on a scale from 1 to 5, where 5 represents a strongly overexposed image, and the additional symbol "T" denotes a perceptible but extremely faint nebula. For those nebulae designated by an asterisk in the first column, photometric measures of the surface brightnesses of extended nebulae and of the integrated brightnesses of the compact nebulae are available in "A Photometric Catalogue of Emission Nebulae in the Large Magellanic Cloud" (Doherty *et al.* 1956). The photometric catalogue gives data for selected regions in all nebulae for which significant measures could be made.

Irregularity of outline (tenth col. of Tables 2 and 5) is estimated on a scale from 0 to 3, where 0 indicates a smooth boundary. A 4 or 5 listed in this column designates crescent-shaped nebulae or ring-shaped nebulae, respectively. Elongation (eleventh col.) is estimated on a scale from 0 to 3, with 0 denoting no elongation, and 3 a ratio of axes of at

least 3 to 1. Structure (twelfth col.) is given on a scale from 0 to 3, 0 indicating a smooth nebula with no visible structure.

In Table 2, thirteenth column, the number of early-type stars involved in each nebula of the Large Cloud is given. These stars are listed in Table 3 and include O and B stars from the *Henry Draper Catalogue* as well as the emission stars of Table 1. References to early-type *Henry Draper* stars found in the Small Cloud nebulae are given in the notes.

The present catalogue of Small Cloud nebulae has been compared with the catalogue of 152 emission nebulosities in the Small Cloud published by Nail *et al.* (1953). This comparison leads to the surprising result that the two catalogues share only 33 objects in common. Evidently this discrepancy must be attributed to differences in observing techniques, the Michigan observations having been made on objective-prism spectrum plates and the Harvard observations by a comparison of red and blue direct plates.

References to the Nail, Whitney, and Wade catalogue, to the *NGC*, and to early Harvard lists of emission nebulae are given in the notes at the end of the tables. Of the early Harvard discoveries, one—HB 891-26 = HD 269848—is not visible on our plates.

V. CHARTS

Identification charts for the Magellanic Cloud emission stars and nebulae are reproduced in Figures 1–13. These are copied from 5-hour direct-exposure plates taken with the Mount Wilson 10-inch camera on 103a-E emulsion through a red Plexiglass filter. The dates of these exposures were: Large Cloud, January 4, 1951; Small Cloud, November 22, 1949. The scale of all charts is 52'' per millimeter.

The approximate extent of faint nebulae is indicated on the charts by boundary lines, but these lines are not intended to define the limits of the nebulae or their shapes with great accuracy.

Small intense nebulae and point sources of $H\alpha$ emission are indicated by a single line pointing to or touching the object. In order to distinguish the stars from the nebulae, the stars are marked with a caret (\wedge) and their numbers are preceded by an "S."

In crowded regions and in dense nebulosity it was not always possible to point out the fainter objects on the chart with complete certainty. However, reference to the rectangular co-ordinates and to the notes at the ends of the tables will help to resolve these uncertainties in most cases.

The positions of two novae which were discovered on $LH\alpha$ plates—N Mensae 1951 and N Tucanae 1951—are marked on the charts.

VI. DISCUSSION

In order to examine the differences between the nebulae of the Large and Small Clouds, it is useful to refer to the Bok-Wade classification of nebulae. The relation between this classification and the present descriptions has been determined by examination of those Small Cloud nebulae in the present catalogue that are also listed by Nail *et al.* The following close correlation is found between the two classifications: Type V of the Bok-Wade system is equivalent to objects in the present list that are stellar or that have diameters of less than 20 seconds of arc. Type IV is made up of the rings and crescents; type III contains only the nebulae with no irregularity, no elongation, and no structure; type II is made up of those objects with intensities of T , 1, 2, or 3, that show appreciable irregularity or elongation; and type I consists of irregular nebulae with intensities of 4 and 5.

The distribution of the Magellanic Cloud nebulae among the equivalent Bok-Wade types is given in Table 6. For the Small Cloud the results from the Nail-Whitney-Wade catalogue, as well as those from the present catalogue, are tabulated. Notwithstanding the afore-mentioned differences between these catalogues, the frequency distributions of the nebular types are in satisfactory agreement.

When the Large and Small Clouds are compared, one striking difference, previously

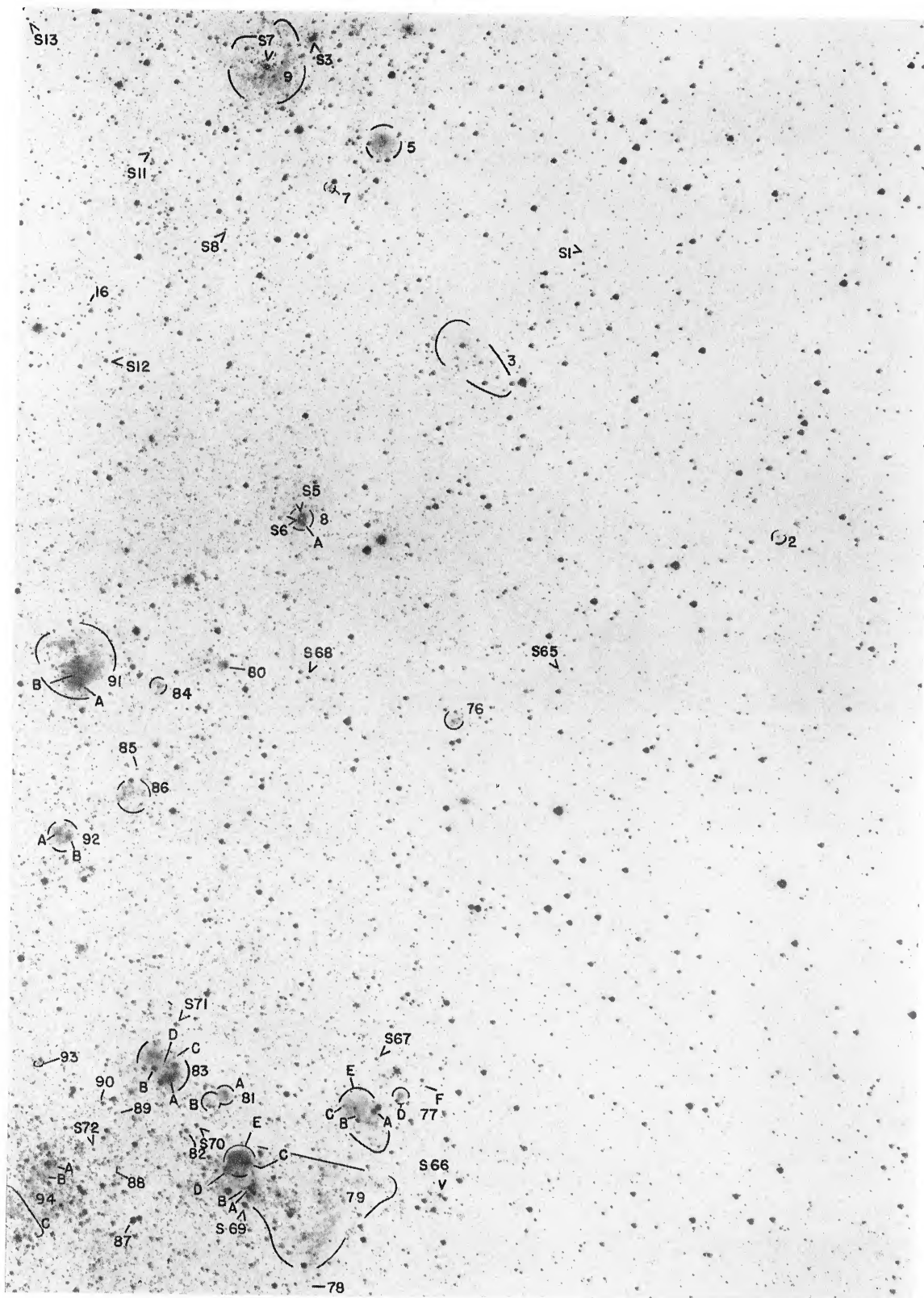


FIG. 1.—Emission stars and nebulae in the Large Magellanic Cloud. Plate center: $X = 40$, $Y = 11610$. North is at the top, east at the left.

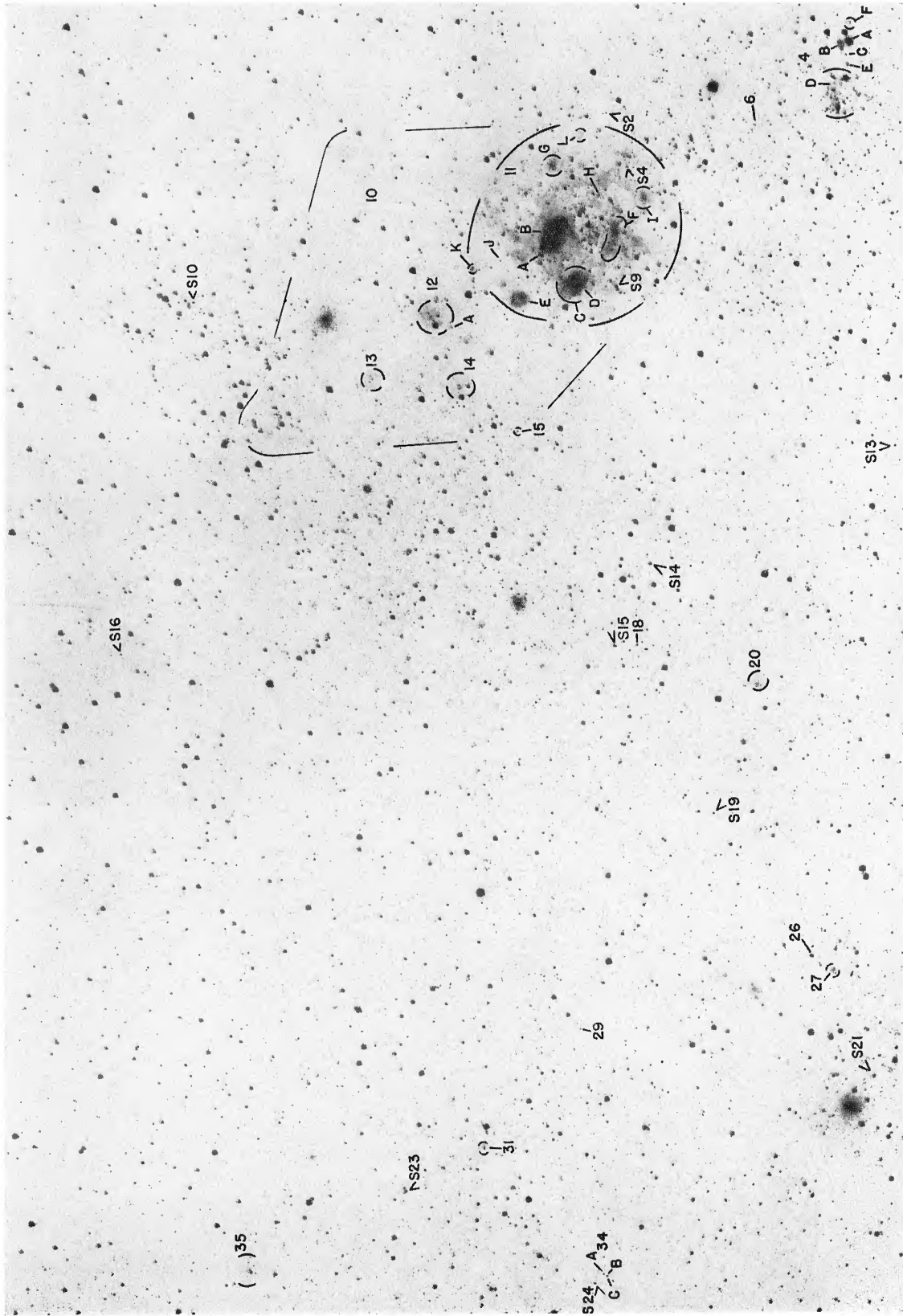


FIG. 2.—Emission stars and nebulae in the Large Magellanic Cloud. *Plate center:* $X = 4760$, $Y = 19520$. North is at the top, east at the left

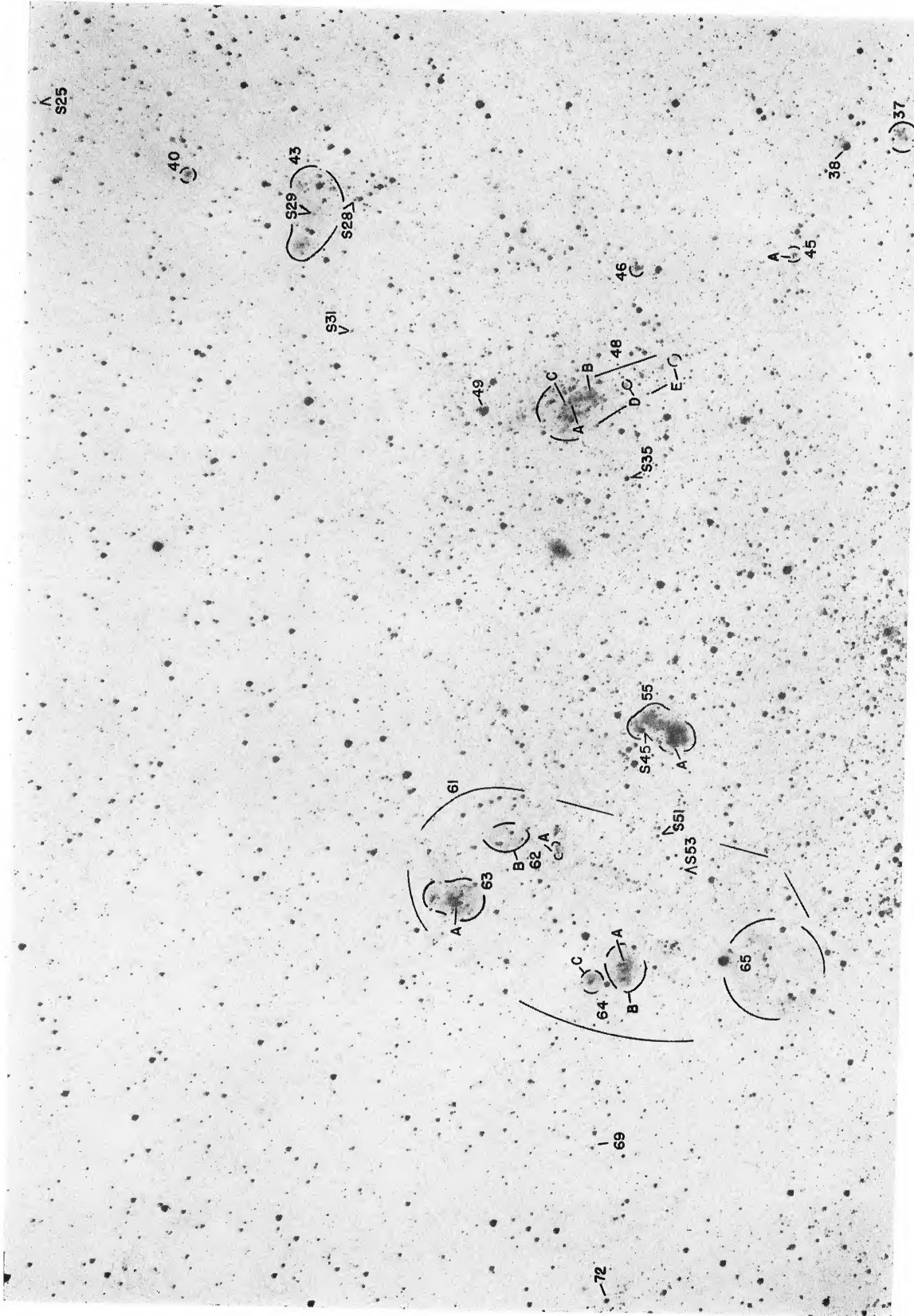


FIG. 3.—Emission stars and nebulae in the Large Magellanic Cloud. *Plate center:* X = 14010, Y = 21005. North is at the top, east at the left

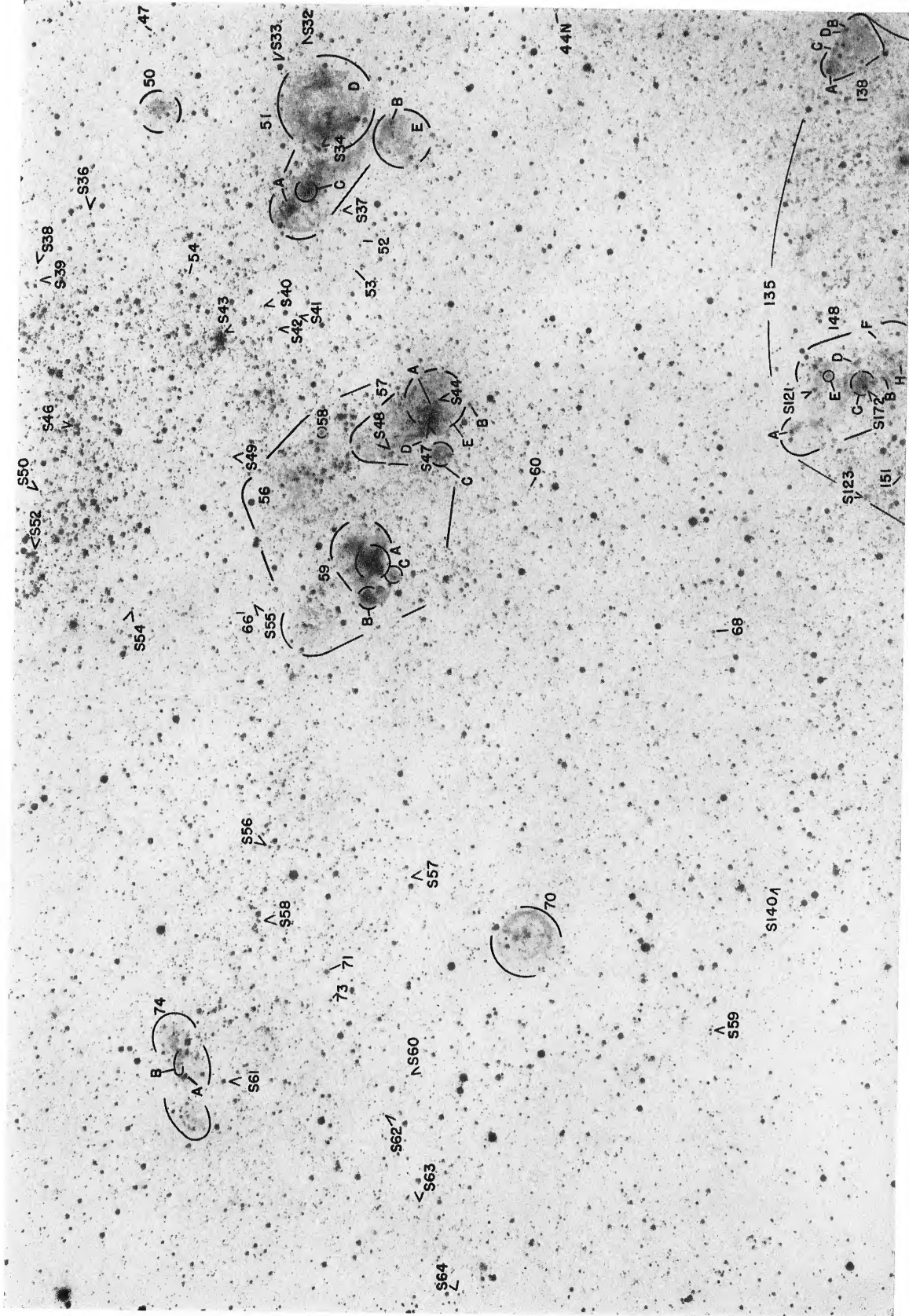


FIG. 5.—Emission stars and nebulae in the Large Magellanic Cloud. Plate center: X = 16220, Y = 14850. North is at the top, east at the left

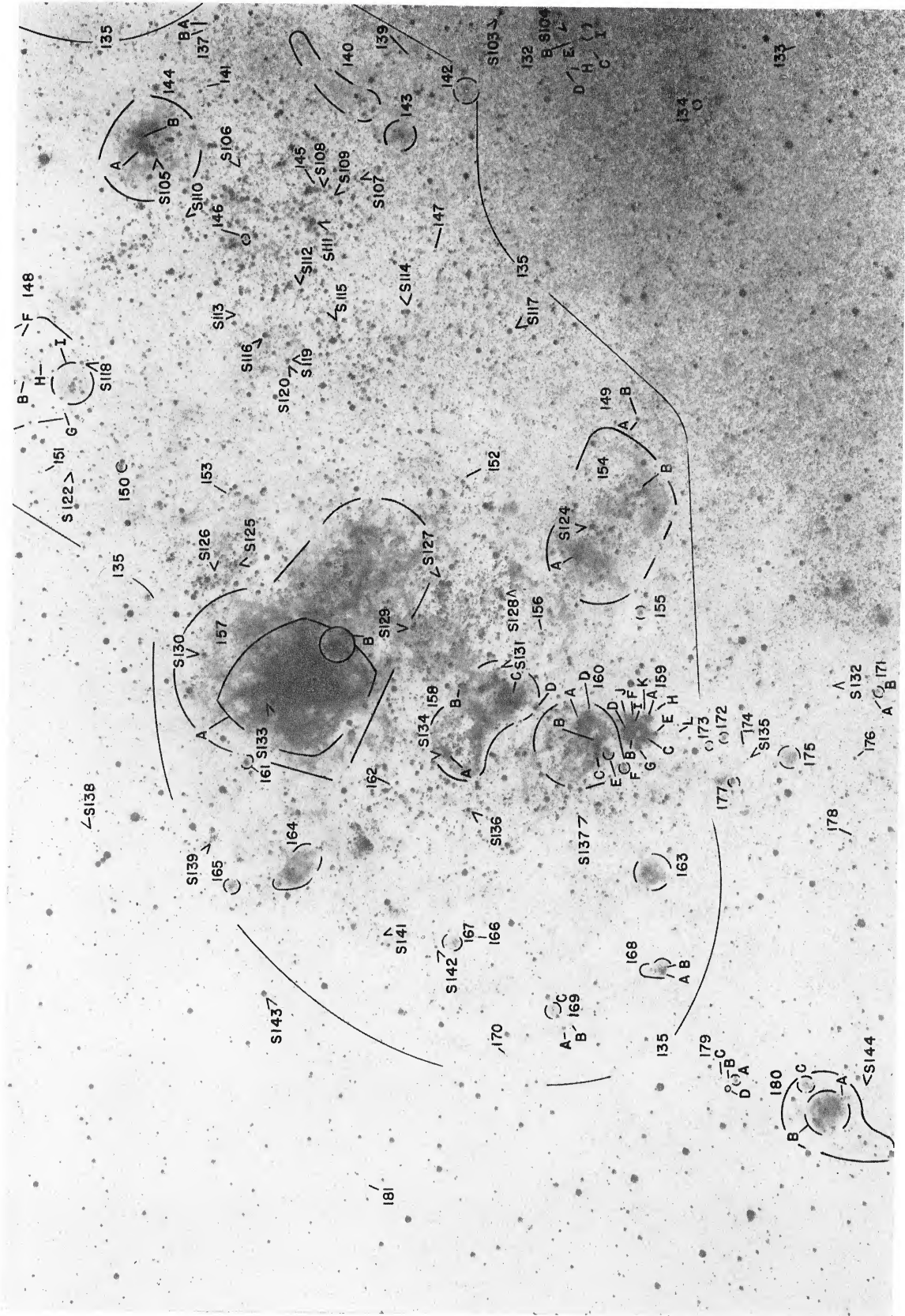


FIG. 7.—Emission stars and nebulae in the Large Magellanic Cloud. Plate center: X = 16285, Y = 8785. North is at the top, east at the left

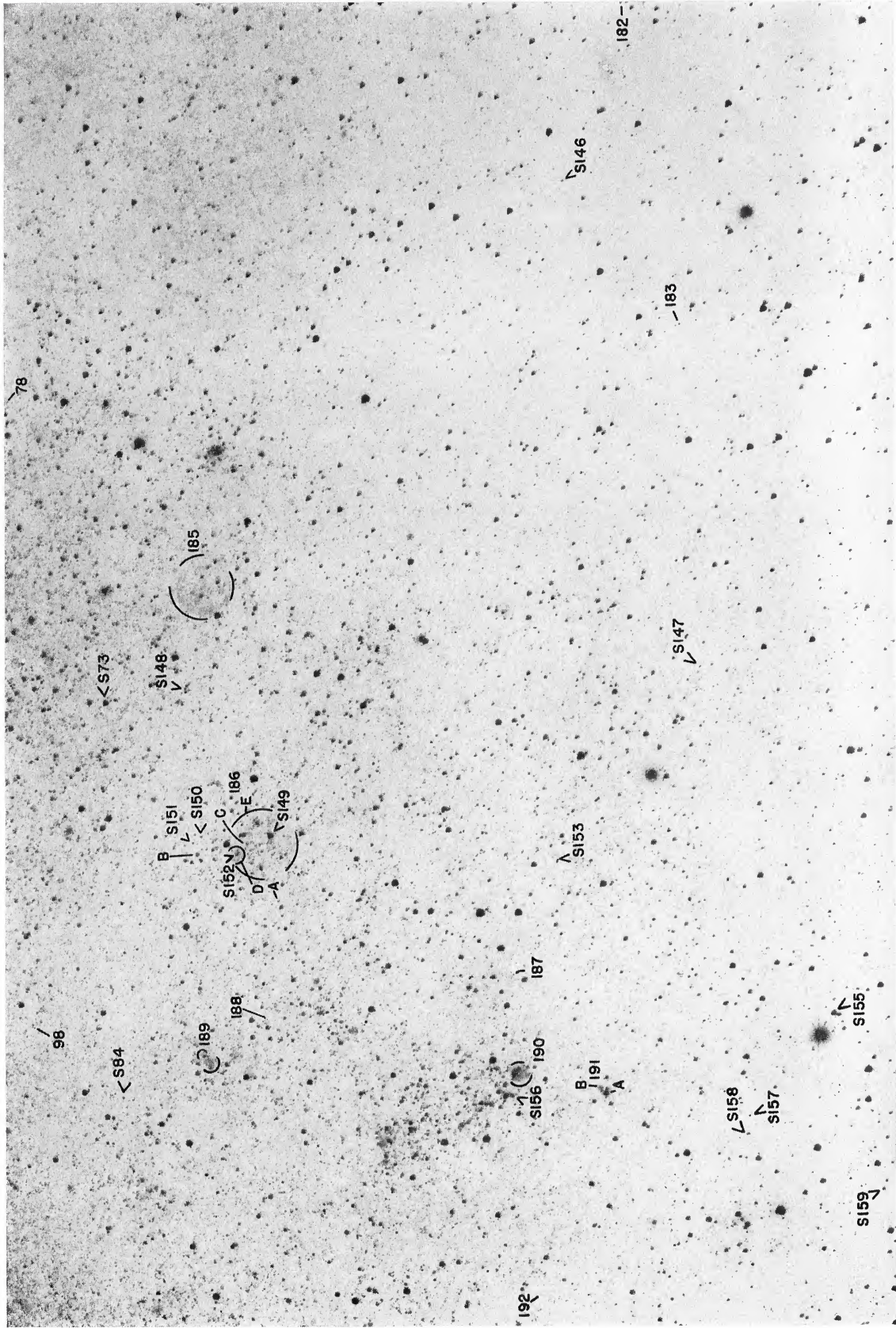


FIG. 8.—Emission stars and nebulae in the Large Magellanic Cloud. *Plate center:* X = 3110, Y = 4020. North is at the top, east at the left

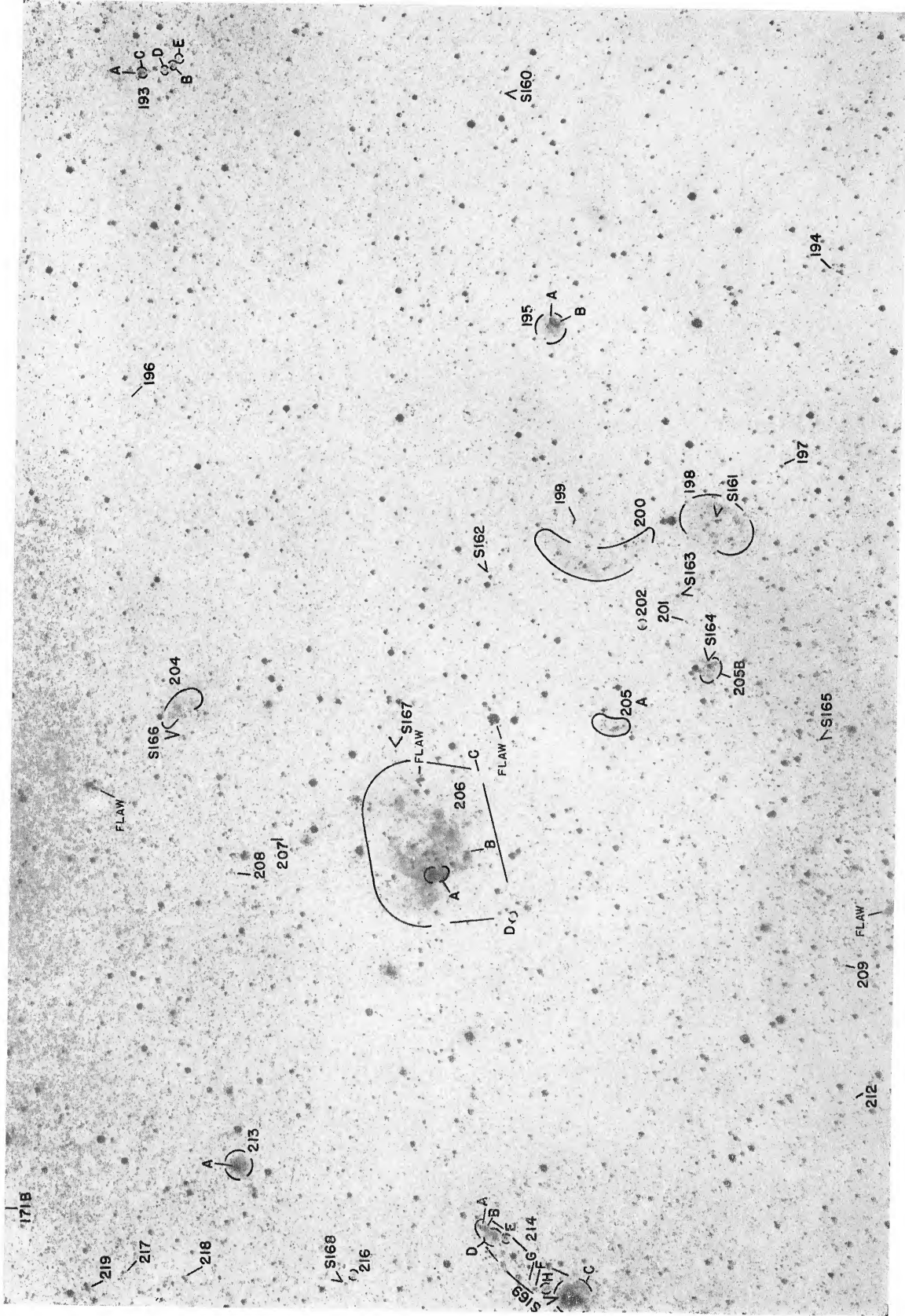


FIG. 9.—Emission stars and nebulae in the Large Magellanic Cloud. *Plate center:* $X = 12540$, $Y = 2650$. North is at the top, east at the left

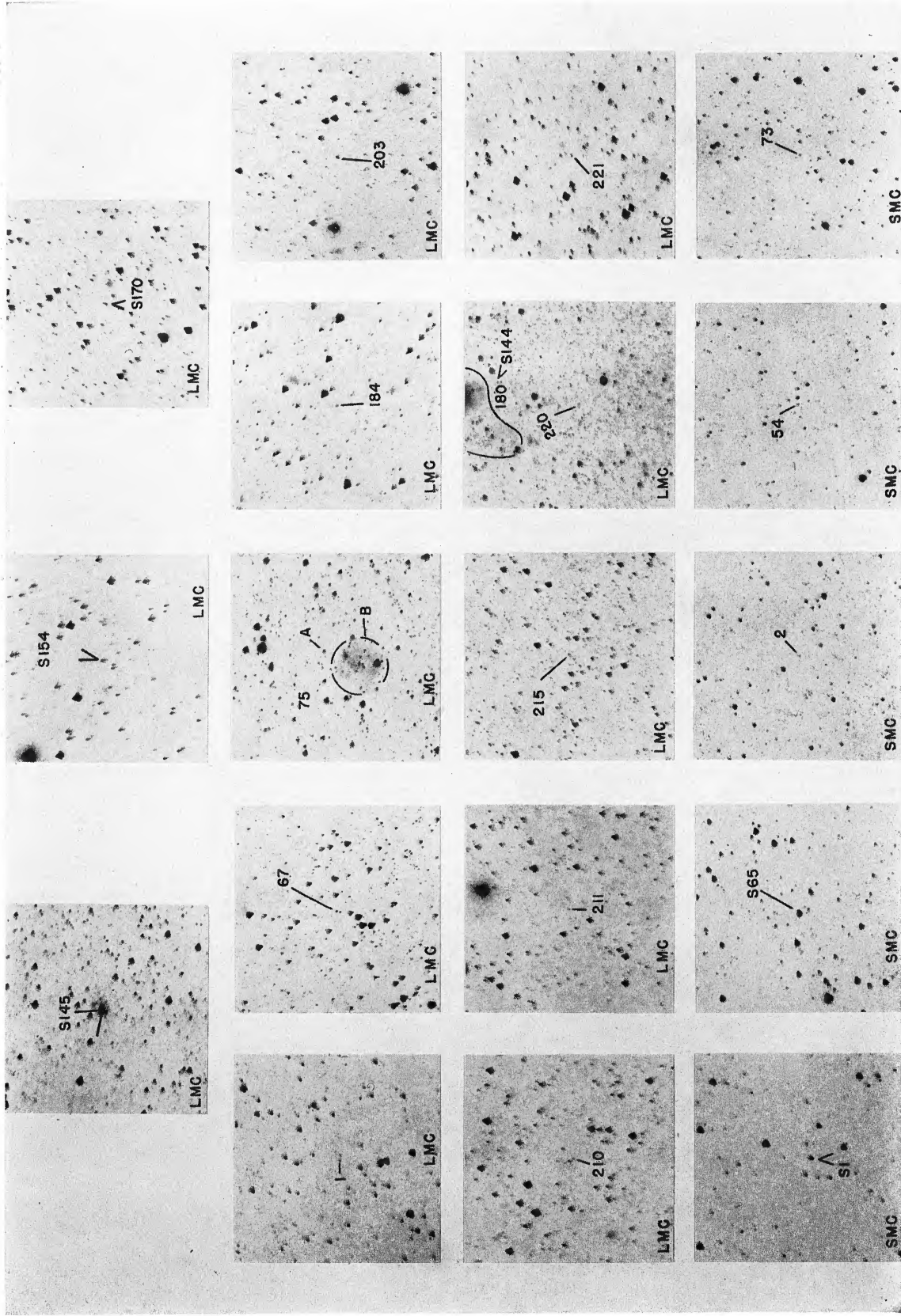


FIG. 10.—Outlying emission objects in the Magellanic Clouds. *LMC* indicates objects in the Large Cloud; *SMC*, objects in the Small Cloud. North is at the top, east at the left.

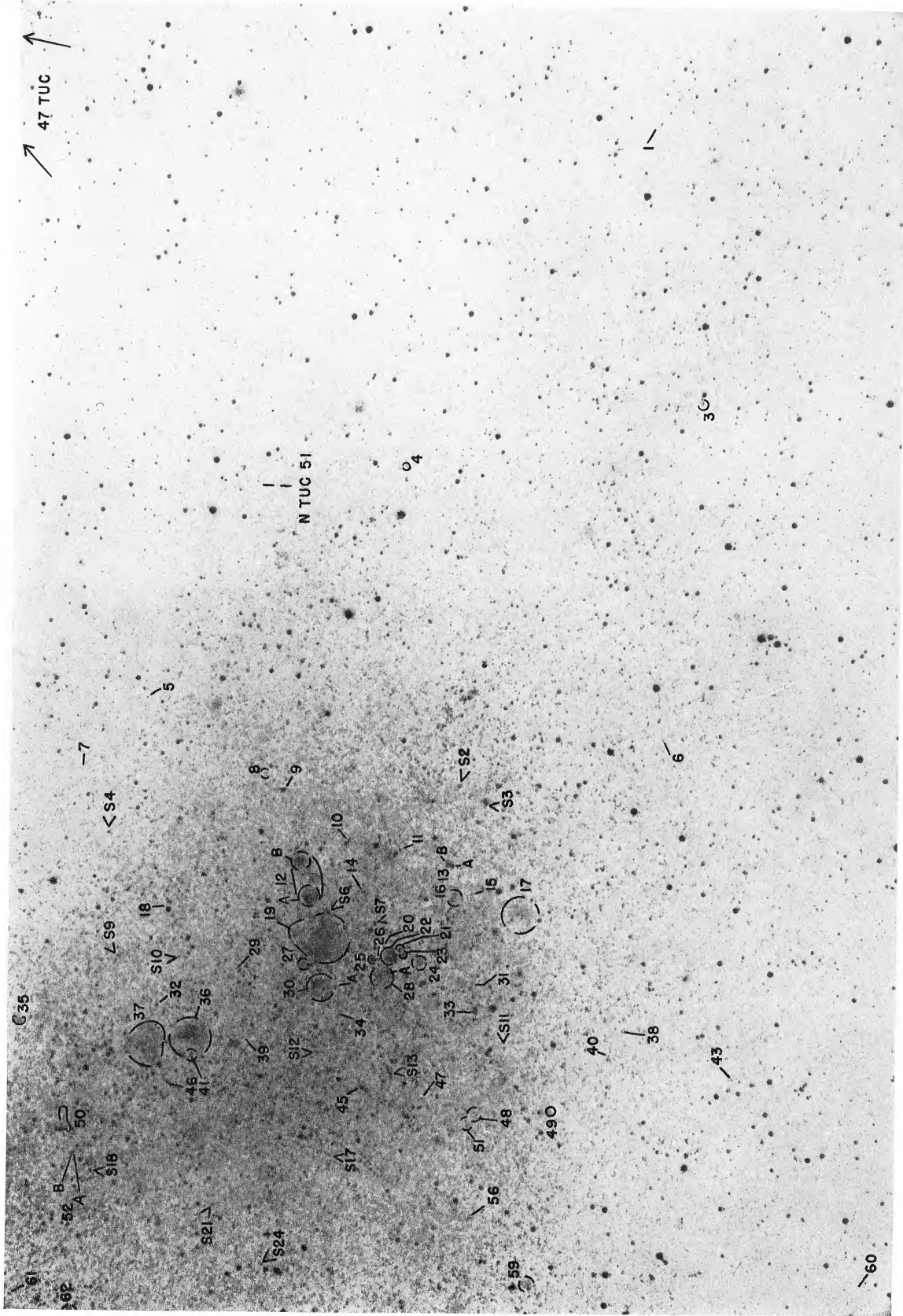


FIG. 11.—Emission stars and nebulae in the Small Magellanic Cloud. *Plate center:* $X = 8940$, $Y = 7430$. North is at the top, east at the left

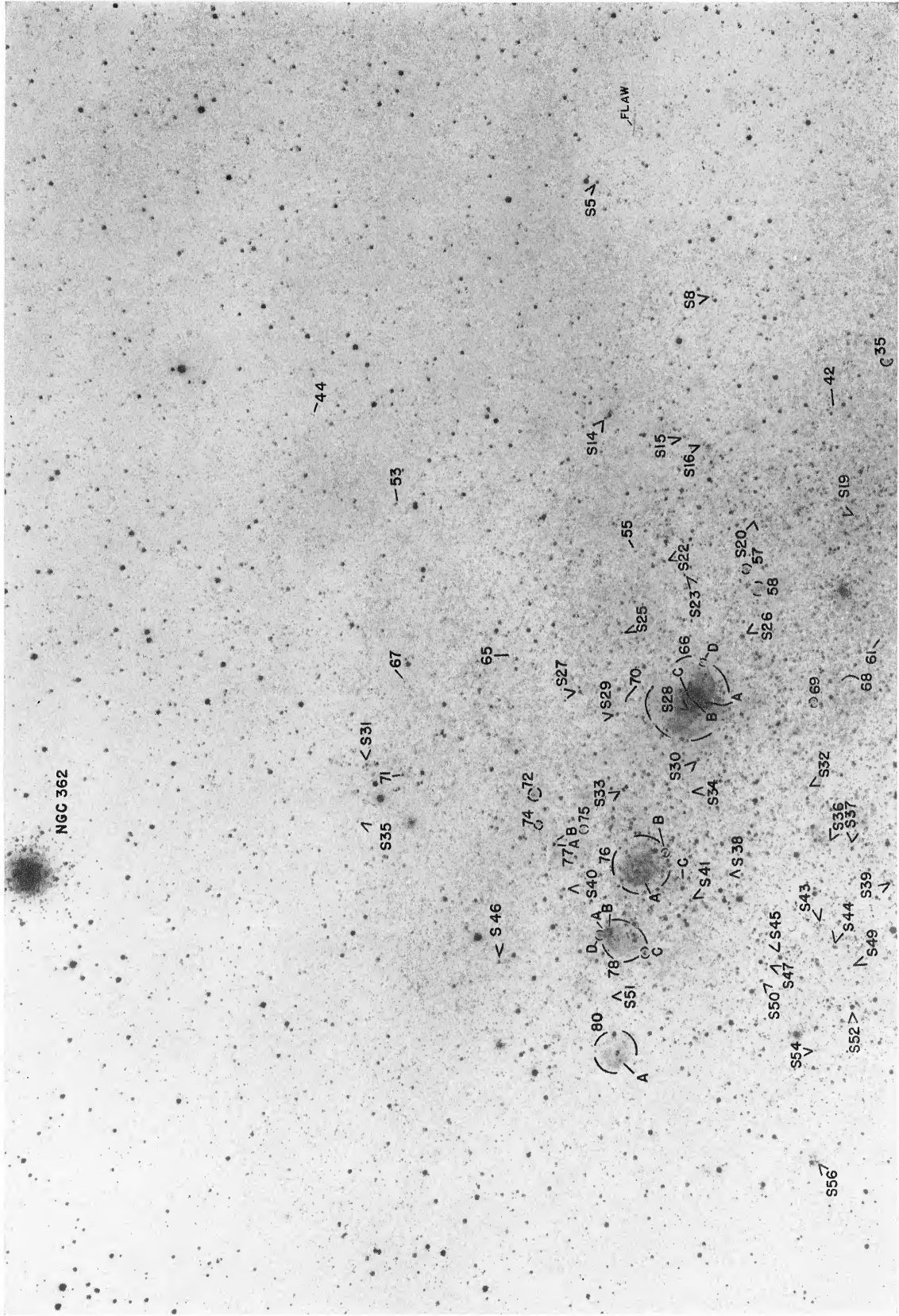


FIG. 12.—Emission stars and nebulae in the Small Magellanic Cloud. Plate center: X = 13775, Y = 13635. North is at the top, east at the left

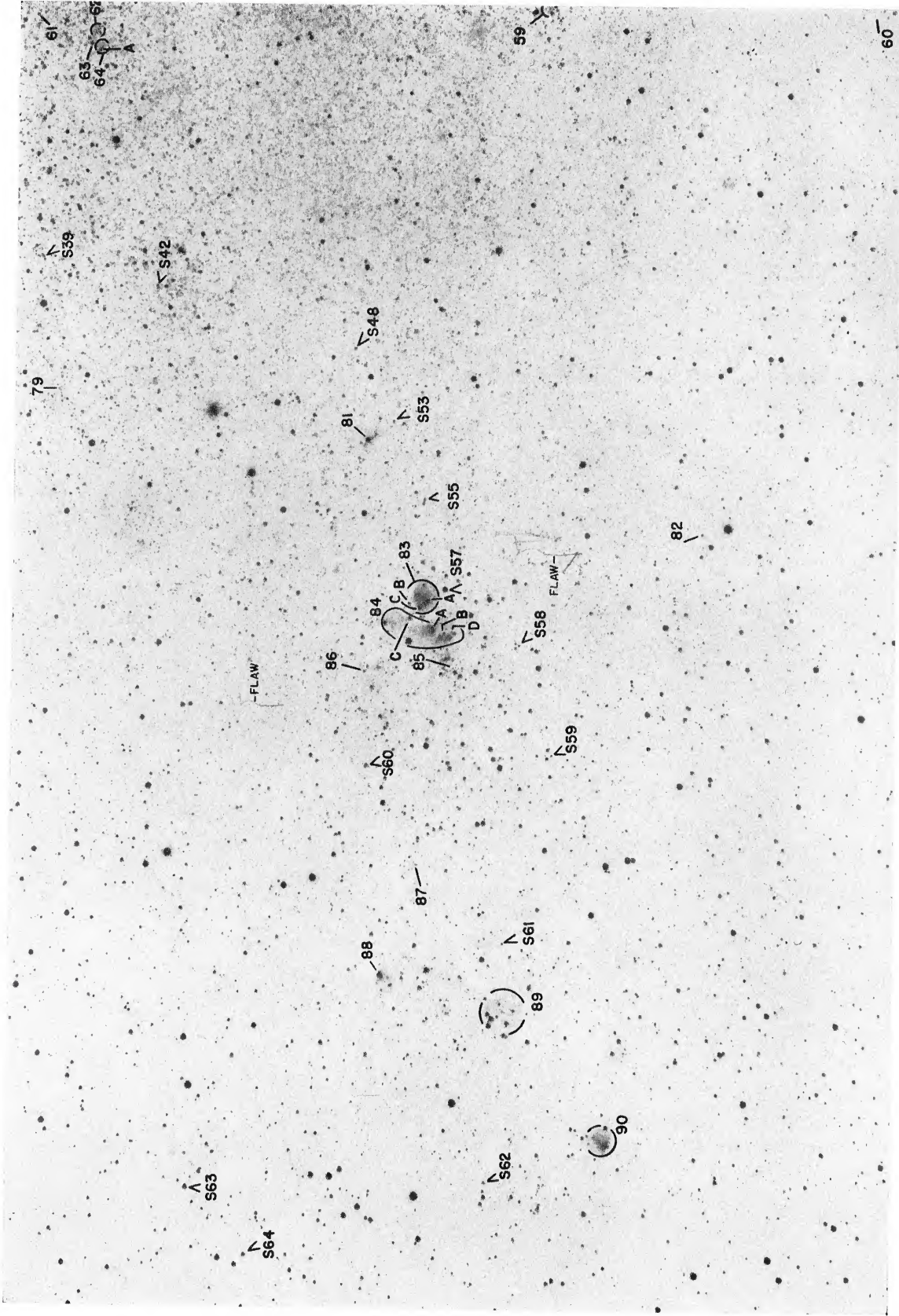


FIG. 13.—Emission stars and nebulae in the Small Magellanic Cloud. *Plate center:* $X = 18265$ $Y = 7425$ North is at the top. *Scale:* 1".

noted by Nail *et al.* (1953), is evident: whereas type I nebulae are abundant in the Large Cloud, they are almost entirely lacking in the Small Cloud. This is in contrast to the fact that the frequency of nebulae per unit area, irrespective of their types, is at least as great in the Small Cloud as in the Large. Thus it appears that nebulosity is as abundant in the Small Cloud as in the Large but that the surface brightnesses of the Small Cloud nebulae are not so great as those of nebulae of the Large Cloud. This phenomenon suggests that the interstellar medium of the Small Cloud does not attain such dense concentrations as does the interstellar medium of the Large Cloud.

The relation of the emission stars and nebulae to the detailed structure of the Large Cloud was discussed by Henize and Miller (1951); the revised data do not change the conclusions reached in that paper. It should be pointed out that the outlying stars and nebulae show little correlation with the extended faint structure discovered by de Vaucouleurs (1954) in the outer regions of the Large Cloud.

TABLE 6
DISTRIBUTION OF MAGELLANIC CLOUD NEBULAE AMONG THE
BOK-WADE NEBULAR TYPES

LH α DESCRIPTION	EQUIVA- LENT BOK- WADE TYPE	LARGE CLOUD		SMALL CLOUD			
		LH α		LH α		Harvard	
		No.	Per Cent	No.	Per Cent	No.	Per Cent
Stellar or diam. <20''	V	108	26	45	38	62	41
Rings and crescents	IV	20	5	3	3	3	2
Round, regular, and no structure	III	45	11	12	10	7	5
Irreg. with int. <4	II	165	40	57	49	79	51
Irreg. with int. = 4 or 5	I	77	18	0	0	1	1
Total		415		117		152	

The Large Cloud emission stars classed as type B or P Cygni in the *Henry Draper Catalogue* were also discussed by Henize and Miller (1951). It should be noted that revision of the distance modulus of the Magellanic Clouds to 19.0 increases the absolute magnitudes listed in Table 2 of that paper by 1.7 mag. Thus it is evident that the brightest emission B stars observed in the Large Magellanic Cloud are more luminous than the brightest stars so far observed among the galactic cB stars. The *Henry Draper Catalogue* assigns photographic magnitudes brighter than 10.0 (= -9.0 absolute magnitude) to four of the emission-line stars: LH α 120-S 86, -S 96, -S 155, and -S 171. One of these, LH α 120-S 96, is the variable star, S Doradus, which has strong hydrogen emission and an otherwise peculiar spectrum (Smith 1954). The remaining three stars are assigned to spectral class B and show moderate or weak emission. Their mean absolute magnitude is -9.4. Aside from their excessive luminosity, there is no reason at present not to class them as cBe stars. However, if these stars were found to vary in brightness, it might be possible to class them among the group of high-luminosity variables found by Hubble and Sandage (1953) in M31 and M33.

I wish to acknowledge my gratitude to Dr. Freeman D. Miller, who initiated this investigation of the Magellanic Clouds and has given me much advice and encouragement. The loan of the 10 $\frac{1}{2}$ -inch telescope by Dr. I. S. Bowen, director of the Mount Wilson and Palomar Observatories, and the generous financial support of the Horace H. Rack-

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Table 1
EMISSION-LINE STARS IN THE LARGE MAGELLANIC CLOUD

Nr. LH α 120-	1950		Rect. Coords.		Int.			Sp.
	R.A.	Dec.	X	Y	C	H α	Dif. m	
			"	"				
S 1	4 ^h 48 ^m .1	-67° 30'	- 830	14720	T	2	0	12.8
S 2	4 54.4	66 32	830	18540	T	2	0	12.8
S 3	4 54.4	67 09	1140	16280	1	2	0	12.0
S 4	4 55.3	66 36	1180	18350	T	3	0	12.8
S 5	4 53.1	68 08	1200	12740	T	2	0	12.8
S 6	4 53.2	68 08	1220	12700	T	2	1	12.8
S 7	4 55.2	67 14	1460	16030	4	1	0	10.1
S 8	4 55.6	67 34	1780	14850	T	2	3	12.9
S 9	4 57.6	66 37	2040	18380	1	3	0	12.0
S 10	4 58.9	65 46	2130	21500	T	4	1	12.8
S 11	4 57.4	67 25	2320	15460	T	2	1	12.8
S 12	4 57.6	67 52	2600	13850	1	4	0	12.0
S 13	5 00.2	67 12	3180	16380	1	2	0	12.0
S 14	5 03.2	66 44	4070	18160	1	3	1	11.5
S 15	5 04.8	66 41	4640	18380	1	2	0	12.0
S 16	5 06.1	65 43	4770	21970	T	1	0	12.8
S 17	5 04.3	67 19	4680	16090	4	3	0	10.6
S 18	5 06.0	68 15	5560	12760	2	3	0	11.5
S 19	5 08.0	66 55	5850	17650	T	2	0	12.8
S 20	5 11.5	68 11	7380	13160	T	2	1	12.8
S 21	5 13.2	67 17	7760	16470	1	2	0	12.0
S 22	5 14.0	67 30	8080	15680	2	5	3	11.4
S 23	5 16.0	66 21	8590	19880	1	1	1	12.0
S 24	5 17.8	66 44	9290	18510	1	2	2	12.0
S 25	5 20.2	65 12	9980	24140	1	2	2	12.0
S 26	5 19.1	68 00	9920	13990	3	2	0	11.0
S 27	5 19.3	68 08	10020	13450	1	1	1	12.0
S 28	5 21.9	65 50	10680	21820	1	2	2	12.0
S 29	5 22.2	65 45	10780	22130	T	1	1	12.8
S 30	5 23.2	68 04	11320	13740	2	4	1	11.6
S 31	5 24.4	65 51	11610	21820	1	2	2	12.0
S 32	5 24.8	67 28	11830	15930	1	2	2	12.0
S 33	5 25.1	67 28	11920	15960	T	3	0	12.8
S 34	5 26.9	67 31	12560	15770	2	2	1	11.7
S 35	5 27.3	66 23	12690	19880	2	4	1	11.5
S 36	5 28.2	67 03	13010	17430	T	2	2	12.8
S 37	5 28.1	67 33	12980	15610	T	2	1	12.8
S 38	5 29.3	66 57	13390	17810	T	2	1	12.8
S 39	5 29.5	66 58	13480	17780	T	1	1	12.8
S 40	5 30.1	67 24	13670	16190	T	1	1	12.8
S 41	5 30.4	67 28	13770	15930	T	1	2	12.8
S 42	5 30.5	67 25	13830	16090	T	1	1	12.8
S 43	5 30.6	67 19	13860	16500	2	2	1	11.5
S 44	5 32.2	67 44	14370	14980	T	5	1	12.8
S 45	5 32.3	66 25	14500	19720	3	3	0	11.6
S 46	5 32.4	67 01	14500	17550	2	4	0	11.5

Table 1 (Cont'd)

Nr. LH α 120-	1950		Rect. Coords.		Int.			Sp.	
	R.A.	Dec.	X	Y	C	H α	Dif. m		
			"	"					
S 47	5 ^h 32 ^m .5	-67°43'	14500	15040	2	3	1	11.5	
S 48	5 33.3	67 39	14760	15260	1	2	0	12.0	
S 49	5 33.2	67 20	14760	16410	T	2	0	12.8	
S 50	5 34.1	66 57	15110	17810	1	1	1	12.0	
S 51	5 34.4	66 27	15260	19620	1	1	1	12.0	
S 52	5 35.1	66 56	15460	17810	2	1	1	11.5	
S 53	5 35.0	66 29	15490	19490	1	1	1	12.0	
S 54	5 36.3	67 08	15870	17110	1	2	0	12.0	
S 55	5 36.3	67 22	15840	16250	T	1	1	12.8	
S 56	5 41.2	67 21	17550	16220	1	2	0	12.0	
S 57	5 42.0	67 37	17780	15230	T	1	0	12.8	
S 58	5 42.7	67 20	18090	16280	T	1	1	12.8	
S 59	5 45.7	68 11	18890	13100	T	4	0	12.8	
S 60	5 46.2	67 35	19210	15260	T	2	1	12.8	
S 61	5 46.0	67 14	19240	16570	2	4	2	11.5	
S 62	5 46.8	67 33	19460	15420	T	1	1	12.8	
S 63	5 48.8	67 36	20130	15170	T	4	0	12.8	
S 64	5 50.6	67 39	20730	14880	T	2	1	12.8	
S 65	4 47.3	68 22	- 600	11610	1	2	1	12.0	
S 66	4 48.0	69 26	250	7820	1	2	0	12.0	
S 67	4 54.8	69 14	2290	8840	1	1	0	12.0	
S 68	4 52.6	68 26	1180	11580	T	2	1	12.8	
S 69	4 52.3	69 31	1650	7730	3	3	0	10.6	B
S 70	4 53.7	69 22	2000	8330	2	2	0	11.5	
S 71	4 54.4	69 10	2130	9060	1	4	0	12.0	
S 72	4 55.8	69 26	2700	8170	T	1	1	12.8	
S 73	4 57.2	69 55	3370	6460	4	4	0	10.4	B
S 74	4 58.9	68 56	3470	10110	1	3	1	11.6	B
S 75	5 00.3	68 31	3780	11610	2	2	1	11.5	
S 76	4 59.8	69 41	4100	7410	1	1	1	12.0	
S 77	5 02.7	68 41	4610	11100	1	3	0	12.0	
S 78	5 04.8	68 49	5370	10680	2	3	0	11.5	
S 79	5 05.1	69 03	5530	9890	1	2	1	12.0	
S 80	5 06.7	68 35	5920	11610	2	3	0	11.5	
S 81	5 07.2	68 26	6010	12150	1	3	0	12.0	
S 82	5 07.0	68 37	6010	11480	T	1	1	12.8	
S 84	5 06.3	70 02	6230	6360	T	2	0	12.8	
S 85	5 10.9	68 25	7250	12310	T	1	0	12.8	
S 86	5 10.6	68 50	7250	10780	4	2	1	9.8	B
S 87	5 10.7	68 46	7280	11040	T	1	1	12.8	
S 88	5 13.9	69 36	8490	8110	4	1	2	11.0	B
S 89	5 14.0	69 25	8480	8740	1	5	1	11.6	Pec.
S 90	5 14.0	69 24	8490	8810	3	1	2	11.4	B
S 91	5 14.3	69 35	8620	8140	3	2	1	11.6	Pec.
S 92	5 15.2	69 19	8840	9160	T	3	1	12.8	
S 93	5 16.7	68 25	9190	12400	1	2	0	12.0	

Table 1 (Cont'd)

Nr. LH α 120-	1950		Rect. Coords.		Int.			m	Sp.
	R.A.	Dec.	X	Y	C	H α	Dif.		
S 94	5 ^h 16 ^m .5	-69°44'	9320	7630	T	1	2	12.8	
S 95	5 18.2	69 54	9890	7060	4	2	0	10.8	B
S 96	5 18.7	69 19	9950	9220	5	4	1	9.5	Pec.
S 97	5 18.6	69 40	9980	7950	T	2	1	12.8	
S 98	5 18.7	69 40	10020	7950	T	1	0	12.8	
S 99	5 19.3	69 34	10180	8300	T	1	1	12.8	
S 100	5 20.6	69 14	10560	9510	1	2	3	12.0	
S 101	5 22.3	68 55	11100	10650	1	3	1	12.0	
S 102	5 22.3	69 36	11130	8200	T	1	2	12.8	
S 103	5 24.2	69 32	11730	8430	T	1	2	12.8	
S 104	5 24.6	69 41	11860	7930	T	2	1	12.8	
S 105	5 27.2	68 53	12690	10840	4	2	1	11.5	B
S 106	5 27.5	69 03	12780	10210	T	1	2	12.8	
S 107	5 27.8	69 16	12880	9410	T	2	1	12.8	
S 108	5 28.1	69 12	12970	9640	T	2	2	12.8	
S 109	5 28.2	69 14	13010	9570	1	3	0	12.0	
S 110	5 28.6	68 56	13130	10650	T	1	1	12.8	
S 111	5 28.7	69 11	13160	9700	1	5	1	12.2	Pec.
S 112	5 30.3	69 10	13670	9790	1	2	1	12.0	
S 113	5 30.7	69 02	13830	10240	T	1	2	12.8	
S 114	5 30.7	69 22	13800	9060	4	1	1	11.2	B
S 115	5 31.0	69 14	13900	9540	1	2	2	12.0	
S 116	5 31.2	69 05	13960	10050	4	1	1	10.8	B:
S 117	5 31.2	69 33	13960	8360	4	1	1	10.6	B
S 118	5 31.7	68 43	14150	11380	2	3	1	11.5	
S 119	5 31.8	69 08	14150	9920	2	3	2	11.4	B
S 120	5 31.8	69 08	14160	9920	T	1	3	12.8	
S 121	5 32.2	68 28	14340	12280	T	4	1	12.8	
S 122	5 34.1	68 41	14950	11510	T	1	1	12.8	
S 123	5 34.5	68 34	15100	11920	T	1	1	12.8	
S 124	5 35.7	69 42	15360	7820	4	4	1	10.5	Pec.
S 125	5 36.2	69 01	15610	10300	T	2	1	12.8	
S 126	5 36.4	68 58	15680	10430	1	1	1	12.0	
S 127	5 36.8	69 25	15740	8840	3	5	2	11.3	Pec.
S 128	5 37.2	69 31	15840	8460	2	4	3	11.1	Pec.
S 129	5 37.8	69 21	16060	9060	2	2	2	11.5	
S 130	5 38.2	68 56	16250	10560	3	1	1	11.3	B
S 131	5 38.7	69 31	16340	8460	1	3	0	12.0	
S 132	5 39.5	70 09	16470	6170	T	1	1	12.8	
S 133	5 39.3	69 03	16600	10110	3	3	2	10.6	Oa
S 134	5 40.6	69 24	16950	8840	2	5	2	12.0	Pec.
S 135	5 41.1	69 58	17010	6740	T	1	1	12.8	
S 136	5 41.9	69 26	17360	8710	2	1	1	11.5	
S 137	5 42.2	69 38	17400	7950	T	3	1	12.8	
S 138	5 41.8	68 42	17490	11350	T	1	0	12.8	
S 139	5 42.2	68 55	17550	10530	1	1	1	12.0	
S 140	5 42.7	68 19	17870	12690	T	2	1	12.8	

Table 1 (Cont'd)

Nr. LH α 120-	1950		Rect. Coords.		Int.			m	Sp.
	R.A.	Dec.	X	Y	C	H α	Dif.		
S 141	5 ^h 44. ^m 5	-69°15'	18220	9320	T	1	0	12.8	
S 142	5 44.8	69 20	18320	8970	1	3	0	12.0	
S 143	5 45.6	69 00	18640	10180	4	1	1	10.6	Bo:
S 144	5 48.9	70 08	19370	5980	T	2	3	12.8	
S 145	6 13.1	68 10	28070	11990	1	2	2	12.0	
S 146	4 43.4	70 38	- 380	3230	T	3	1	12.8	
S 147	4 54.6	71 04	3140	2260	T	3	1	12.8	
S 148	4 56.7	70 04	3280	5920	T	1	0	12.8	
S 149	4 59.9	70 17	4360	5280	3	4	1	10.4	Pec.
S 150	5 00.1	70 08	4360	5790	T	1	0	12.8	
S 151	5 00.2	70 07	4390	5850	T	1	2	12.8	
S 152	5 00.5	70 13	4520	5530	T	2	1	12.8	
S 153	4 59.7	70 50	4520	3240	T	1	1	12.8	
S 154	4 53.7	75 04	4900	-12240	T	2	1	12.8	
S 155	5 02.8	71 24	5660	1340	4	3	1	9.2	B
S 156	5 05.6	70 48	6260	3590	1	1	1	12.0	
S 157	5 05.4	71 16	6360	1910	T	1	1	12.8	
S 158	5 05.9	71 16	6520	1910	T	1	1	12.8	
S 159	5 07.1	71 32	6930	990	1	1	1	12.0	
S 160	5 12.8	71 10	8480	2390	T	2	1	12.8	
S 161	5 23.1	71 38	11540	830	1	2	1	12.3	Oa
S 162	5 24.8	71 12	11990	2420	2	1	0	11.5	
S 163	5 25.0	71 34	12080	1080	T	3	0	12.8	
S 164	5 26.8	71 38	12590	860	2	1	1	11.5	
S 165	5 28.6	71 50	13100	100	T	3	0	12.8	
S 166	5 28.7	70 37	13160	4550	T	1	1	12.8	
S 167	5 29.0	71 01	13230	3080	T	1	0	12.8	
S 168	5 41.7	70 54	17010	3370	T	1	1	12.8	
S 169	5 42.3	71 19	17080	1840	T	4	1	12.8	
S 170	5 55.3	73 01	20160	- 4550	T	2	1	12.8	
S 171	5 06.1	67 57	5500	13900	5	1	0	9.3	B
S 172	5 32.1	68 34	14310	11920	4	1	0	10.4	B

Notes to Table 1

LH α 120-

- S 1 Presence of continuum doubtful because of overlapping spectrum.
- S 3 Lies on south edge of cluster NGC 1735 directly west of bright star on southeast edge of cluster.
- S 5 Lies on north edge of dense nebulosity.
- S 6 Lies on east edge of dense nebulosity.
- S 7 HD 32034. In cluster NGC 1747.
- S 8 HD 32109. The emission line is very broad.
- S 9 Western star of close pair.

Notes to Table 1 (Cont'd)

LH α 120-

- S 95 HD 269327.
 S 96 HD 35343. S Doradus. MWC 108.
 S 105 HD 269551.
 S 106 Western star of close pair.
 S 107 Lies slightly east of the arrow tip.
 S 111 HD 269599 = MWC 113. In cluster NGC 1994.
 S 114 HD 269649.
 S 115 Emission star is moderately bright and has two fainter stars slightly to the west.
 S 116 HD 269662.
 S 117 HD 269661. Emission is perhaps doubtful.
 S 119 HD 269687.
 S 121 Northern star of compact triangle.
 S 123 Brightest member of a faint cluster.
 S 124 HD 37836 = MWC 121.
 S 127 HD 37974 = MWC 123.
 S 128 HD 269858 = MWC 511. The emission line is broad. Central star of three in line.
 S 129 Eastern star of close pair.
 S 130 HD 269896.
 S 132 Emission doubtful.
 S 133 HD 38282.
 S 134 HD 38489 = MWC 126. In very bright knot of nebulosity.
 S 143 HD 270086. Emission doubtful.
 S 144 Probably the northern star of close pair. Presence of continuum doubtful because of overlapping spectrum.
 S 145 Patch of emission in cluster NGC 2214. The emission is superposed on a strong continuum and may arise from one or more closely grouped stars.
 S 148 Lies between two brighter stars.
 S 149 HD 32763 = MWC 97.
 S 153 Western star of faint pair.
 S 155 HD 269006.
 S 156 Probably a single emission-line star involved in a small group of stars.
 S 158 Probably northern star of close pair.
 S 161 HD 36063.
 S 162 Continuum appears reddish. Perhaps a late-type star?
 S 164 Emission perhaps doubtful.
 S 166 Western star of close pair.
 S 171 HD 33579. A note in the HDC indicates the class may be Oe5.
 S 172 HD 269700.

Notes to Table 1 (Cont'd)

LH α 120-

- S 11 The emission is perhaps doubtful.
 S 14 HD 33133.
 S 15 Probably the fainter and southern star of close pair.
 S 17 HD 268939.
 S 22 HD 34664 = MWC 105. Three faint emission lines which probably correspond to Fe II λ 6456, [O I] λ 6364 and [O I] λ 6300 are visible.
 S 23 NGC 1887. Faint H α emission is visible on a diffuse continuous spectrum. The H α emission is somewhat doubtful.
 S 24 The emission line and the continuum are somewhat diffuse. Perhaps a group of emission-line stars?
 S 25 The emission line is broad. Perhaps a Wolf-Rayet star?
 S 27 Northwest star of close pair. H α emission somewhat doubtful.
 S 29 Emission is clearly visible on only one plate.
 S 30 HD 269445.
 S 34 HD 269540.
 S 35 Western star of close pair.
 S 36 The emission line is very broad. Probably a Wolf-Rayet star.
 S 39 Emission perhaps doubtful.
 S 43 Lies on western edge of cluster NGC 2004.
 S 45 HD 269722.
 S 47 Imbedded in dense nebulosity. About 42" north and slightly east of bright star.
 S 52 Faint star on southwest edge of small cluster.
 S 53 Probably the northern star of close pair.
 S 62 Emission perhaps doubtful.
 S 66 Continuous spectrum diffuse. Perhaps a compact group.
 S 69 HD 268718.
 S 72 Probably southern star of close pair.
 S 73 HD 268835.
 S 74 HD 268840.
 S 85 Emission perhaps doubtful.
 S 86 HD 269128.
 S 88 HD 269216. Probably variable. The red continuum seen on LH α plates is definitely brighter than that of a normal B star of magnitude 11.0. Further, the continuum appears to be stronger in January 1951 than in December 1949.
 S 89 HD 269217 = MWC 106.
 S 90 HD 269219.
 S 91 HD 269227 = MWC 492.

Table 2
EMISSION NEBULAE IN THE LARGE MAGELLANIC CLOUD

Nr.	LH α 120-	1950		Rect. Coords.		Diameter		Int.		Ir.	El.	St.	Stars
		R.A.	Dec.	X	Y	X	Y	C	H α				
N 1		4 ^h 42 ^m .3	-66°17'	- 3657	18728					1			
N 2		4 43.1	68 01	- 2231	12606	91	95	1		0	0	0	
N 3		4 50.0	67 46	- 42	13853	469	573	T		1	2	1	1
N 4A		4 52.1	67 00	250	16741	53	50	5		0	0	0	
N 4B		4 52.1	66 59	264	16800	60	50	3		0	0	1	
N 4C		4 52.3	67 00	346	16763	24	31	T		1	0	0	0
N 4D		4 53.2	66 59	635	16836	250	189	1		0	0	1	1
N 4E		4 52.5	67 00	415	16746	42	46	1		0	0	0	
N 4F		4 51.7	67 00	128	16742	72	70	1		1	0	0	
N 5		4 52.6	67 22	628	15437	199	202	2		0	0	1	
N 6		4 54.0	66 50	862	17411	17	13	1		0	0	0	
N 7		4 53.5	67 28	992	15126	54	61	2		0	0	1	
N 8		4 53.1	68 08	1199	12704	85	116	5		1	0	2	2
N 8A		4 53.0	68 09	1176	12673			2					
N 9		4 55.2	67 13	1474	16101	393	528	1		4	2	1	1
N 10								1				3	2
N 11		4 56.4	66 30	1541	18760	1277	1404	2		2	1	3	4
N 11A		4 57.2	66 27	1801	18935			1		5			
N 11B		4 56.8	66 28	1659	18851	262	212	5		1	2	2	3
N 11C		4 57.7	66 32	2009	18700	191	158	5		1	1	2	1
N 11D		4 57.7	66 33	2035	18629			3					
N 11E		4 58.1	66 25	2120	19096	119	127	4		5	0	2	
N 11F		4 56.5	66 36	1635	18394	199	97	4		3	3	3	
N 11G		4 55.4	66 27	1152	18868	79	69	3		1	1	1	
N 11H		4 55.8	66 33	1366	18531	27	26	3		1	0	1	
N 11I		4 55.8	66 39	1387	18204	110	51	3		0	2	0	
N 11J		4 57.4	66 23	1841	19230			T		1			
N 11K		4 57.6	66 19	1901	19436	61	52	1		0	0	0	
N 11L		4 54.7	66 30	936	18674	67	60	1		0	0	0	
N 12		4 58.6	66 16	2226	19672	238	288	1		1	0	1	
N 12A		4 58.8	66 18	2329	19587	32	37	1		0	0	0	
N 13		5 00.1	66 09	2729	20151	132	156	T		0	0	0	
N 14		5 00.0	66 19	2754	19523	168	172	1		0	0	1	
N 15		5 00.7	66 27	3082	19088	18	20	2		0	0	0	
N 16		4 58.1	67 46	2727	14255			3					
N 16A		5 00.0	68 03	3467	13305	214	110	T		0	1	0	1
N 17		5 03.8	67 23	4531	15871	110	75	T		1	0	1	
N 17A		5 03.9	67 23	4569	15845	23	22	5		0	0	0	
N 17B		5 03.7	67 22	4504	15880	57	57	4		5	0	1	
N 18		5 04.7	66 44	4624	18198			4					
N 19		5 03.5	68 01	4632	13536			T					
N 20		5 05.2	66 59	4893	17307	106	40	2		0	0	1	
N 21		5 04.9	67 38	4991	14983	221	139	1		1	0	1	
N 22		5 05.1	67 52	5145	14123			1		5			
N 23		5 05.8	68 12	5482	12990	817	596	1		2	2	2	2
N 23A		5 05.1	68 08	5215	13163	82	107	3		1	0	1	
N 24		5 06.2	67 50	5501	14300			2					
N 25		5 09.4	67 52	6597	14287			2					
N 26		5 10.7	67 09	6863	16911	27	30	1		4	0	0	0
N 27		5 11.0	67 11	6972	16755	48	53	T		3	0	0	0
N 28		5 11.1	67 52	7185	14303			2					
N 29		5 12.6	66 42	7411	18577			T		2			
N 30		5 13.8	67 28	8018	15798	456	564	T		1	2	1	
N 30A		5 14.0	67 27	8081	15899	30	41	4		0	1	1	
N 30B		5 14.0	67 31	8081	15640	25	17	3		0	1	0	
N 30C		5 13.9	67 31	8068	15616	317	132	2		4	2	0	2
N 30D		5 13.3	67 32	7868	15547	66	62	1		1	1	1	
N 31		5 15.1	66 31	8270	19275	60	90	T		0	1	0	
N 32		5 15.9	68 02	8830	13790	16	19	2		0	1	0	
N 33		5 16.9	67 23	9091	16154	81	69	4		5	0	1	
N 34A		5 17.5	66 47	9188	18373			3					
N 34B		5 17.5	66 47	9207	18351			2					
N 34C		5 17.5	66 47	9204	18342			2					
N 35		5 17.8	66 04	9199	20945	109	134	T		1	0	0	
N 36		5 18.0	67 57	9528	14117	65	78	T		1	0	1	
N 37		5 20.3	66 56	10204	17810	230	137	1		2	2	2	
N 38		5 20.6	66 50	10295	18209	64	52	5		0	0	1	
N 39		5 20.9	67 09	10451	17072			2					

Table 2 (Cont'd)

Nr.	1950		Rect. Coords.		Diameter		Int.		Ir.	El.	St.	Stars
	LHz 120-	R.A.	Dec.	X	Y	X	Y	C				
N 40	5 ^h 21 ^m .5	-65°30'	10518	23063	80	80	2	1	1	1		
N 41	5 20.7	68 04	10463	13745	51	49	1	0	0	0		
N 42	5 21.6	67 03	10680	17420			2					
N 43	5 22.2	65 46	10779	22060	655	247	1	1	2	1	2	
N 44	5 22.6	67 59	11121	14064	943	1163	4	2	2	3	2	
N 44A	5 21.6	67 54	10775	14351			5					
N 44B	5 22.2	68 00	10956	13977	67	57	5	1	0	0	0	
N 44C	5 22.4	68 01	11043	13929	47	67	5	0	0	0	0	
N 44D	5 23.0	68 07	11247	13567	91	74	5	1	1	1	1	
N 44E	5 23.4	68 03	11387	13826	33	36	5	0	0	0	0	1
N 44F	5 21.8	67 58	10837	14126	66	59	5	1	0	1		
N 44G	5 22.5	68 07	11083	13555			4					
N 44H	5 23.0	68 04	11244	13760	44	47	4	0	1	0		
N 44I	5 22.7	67 57	11128	14145			2					
N 44J	5 21.8	67 49	10809	14625	43	41	4	0	0	0	0	
N 44K	5 22.5	68 07	11084	13567	56	51	4	0	0	0	0	
N 44L	5 23.3	68 03	11337	13826	35	36	3	1	0	1		
N 44M	5 23.8	68 03	11530	13800	49	40	2	0	0	0	0	
N 44N	5 24.0	67 59	11580	14072	25	24	2	0	0	0	0	
N 45	5 22.8	66 44	11082	18575	69	77	2	1	0	0	0	
N 45A	5 22.8	66 44	11096	18590			2					
N 46	5 23.1	66 25	11169	19707	59	64	3	0	0	1		
N 47	5 24.5	67 12	11725	16907			1					
N 48	5 25.4	66 23	12010	19840	739	913	1	1	3	2		
N 48A	5 25.8	66 18	12135	20179			4					
N 48B	5 25.6	66 20	12090	20034	35	52	4	0	1	1		
N 48C	5 25.8	66 17	12152	20218	20	25	4	1	0	0	0	
N 48D	5 25.4	66 24	12014	19777	56	50	2	0	0	0	0	
N 48E	5 24.9	66 30	11824	19431	33	36	1	1	2	0		
N 49	5 26.0	66 08	12203	20799	68	82	5	2	0	2		
N 50	5 26.0	67 12	12254	16884	153	193	1	1	0	0		
N 51	5 26.9	67 35	12549	15510	1171	1179	2	3	2	3	2	
N 51A	5 28.0	67 28	12961	15960	18	25	1	4	0	1	0	
N 51B	5 26.4	67 40	12376	15233	29	31	1	4	0	0	0	
N 51C	5 27.8	67 30	12867	15837	84	92	4	1	1	2		
N 51D	5 26.0	67 32	12253	15691	508	586	3	5	0	3	2	
N 51E	5 26.7	67 41	12502	15132	378	422	1	1	1	2	1	
N 52	5 28.8	67 36	13218	15463			1					
N 53	5 29.4	67 35	13416	15520			1	3				
N 54	5 29.5	67 16	13455	16685			1					
N 55	5 32.3	66 28	14496	19549	278	434	3	3	3	3	1	
N 55A	5 32.5	66 29	14575	19470	65	60	4	1	0	1	1	
N 56	5 34.3	67 36	15130	15426	1940	1452	1	2	2	2	6	
N 57	5 32.5	67 43	14486	15022	652	645	3	1	2	2	3	
N 57A	5 32.4	67 44	14467	14976	55	44	4	0	1	0	1	
N 57B	5 32.3	67 48	14400	14712	26	25	4	0	0	1		
N 57C	5 33.3	67 44	14765	14926	94	94	3	5	0	1	1	
N 57D	5 33.0	67 43	14657	15034			2					
N 57E	5 32.1	67 44	14343	14951	366	377	2	5	0	2	3	
N 58	5 32.8	67 31	14598	15760	35	34	3	1	0	1	1	
N 59	5 35.6	67 35	15576	15458	561	456	3	3	1	3		
N 59A	5 35.5	67 36	15549	15437	152	174	5	3	1	3		
N 59B	5 36.3	67 35	15798	15464	117	118	4	1	1	2		
N 59C	5 35.8	67 38	15625	15273	90	87	3	0	0	1		
N 60	5 34.1	67 55	15017	14314			3					
N 61							T				1	1
N 62A	5 34.6	66 15	15374	20292	108	41	3	0	3	0	0	
N 62B	5 34.4	66 10	15276	20609	173	239	2	4	3	0	1	
N 63	5 35.6	66 01	15755	21150	290	380	2	2	1	1		
N 63A	5 35.7	66 02	15770	21100	40	40	5	1	0	1		
N 64A	5 37.1	66 22	16235	19860	30	40	2	0	0	1		
N 64B	5 37.1	66 21	16235	19940	350	260	2	1	1	1		
N 64C	5 37.3	66 17	16330	20130	100	120	2	5	0	0	0	
N 65	5 37.3	66 38	16280	18860	760	440	T	1	2	0		
N 66	5 36.5	67 19	15900	16410			2					
N 67	5 38.9	64 41	17187	25949	15	15	T	1	0	1	1	
N 68	5 37.2	68 15	16040	13038	21	20	T	3	1	0	0	
N 69	5 40.5	66 17	17490	20100			3					
N 70	5 43.5	67 51	18235	14390	410	420	3	5	0	2		
N 71	5 43.9	67 27	18452	15812	48	47	4	0	0	1		

Table 2 (Cont'd)

Nr.	LHz 120-	1950		Rect. Coords.		Diameter		Int.		Ir.	El.	St.	Stars
		R.A.	Dec.	X	Y	X	Y	C	H α				
N 72	5 ^h 43 ^m .6	-66°17'	18619	20034	32	32	1	5	0	1	0		
N 73	5 44.5	67 27	18667	15789	20	40	1	T	0	1	1		
N 74	5 45.8	67 09	19223	16870	795	286	1	1	1	3	1	1	
N 74A	5 45.8	67 10	19191	16830	32	17	1	4	1	2	1	1	
N 74B	5 45.4	67 09	19080	16864	128	20		3	2	3	2		
N 75A	5 55.9	68 07	22339	13022	31	32		2	0	0	0	0	
N 75B	5 56.2	68 12	22411	12736	334	286		1	1	0	0	0	
N 76	4 49.2	68 29	103	11248	111	100		1	1	0	0	0	
N 77A	4 49.7	69 17	697	8411	30	32	1	5	0	0	0	0	
N 77B	4 50.0	69 18	804	8378	34	28	1	3	0	1	0	0	
N 77C	4 50.3	69 17	907	8447	23	25	1	3	0	1	1	1	
N 77D	4 49.1	69 15	497	8522	68	62		3	0	0	1	1	
N 77E	4 50.0	69 18	804	8368	299	370		2	1	1	1	1	
N 77F	4 48.7	69 13	354	8588	19	22		2	0	0	1	1	
N 78	4 50.5	69 39	1166	7153				2					
N 79	4 51.1	69 30	1263	7723	1038	814		1	1	2	2		
N 79A	4 52.1	69 29	1569	7852	78	75	1	5	1	1	0	0	
N 79B	4 52.3	69 29	1623	7846	21	20		5	0	0	0	0	
N 79C	4 52.3	69 26	1605	8029	51	46		4	0	0	1	1	
N 79D	4 52.7	69 27	1744	7986	75	61		4	0	0	0	0	
N 79E	4 52.5	69 25	1657	8053	180	154		3	1	1	1	1	
N 80	4 54.3	68 27	1758	11636	84	77		3	0	0	1	1	
N 81A	4 53.0	69 18	1773	8503	100	93		2	0	0	1	1	
N 81B	4 53.3	69 19	1873	8447	101	86		1	0	1	0	0	
N 82	4 53.8	69 23	2045	8256				5					
N 83	4 54.5	69 16	2218	8733	340	297		3	2	1	2		
N 83A	4 54.3	69 17	2160	8612	61	55		5	1	1	0	0	
N 83B	4 54.6	69 16	2269	8694	44	37		5	0	1	0	0	
N 83C	4 54.2	69 15	2129	8772	21	20	1	3	0	1	0	0	
N 83D	4 54.4	69 16	2203	8724	20	21		2	0	0	1	1	
N 84	4 55.7	68 31	2237	11471	113	108		2	0	0	1	1	
N 85	4 55.9	68 41	2399	10857	23	23	T	2	1	0	0	0	
N 86	4 55.9	68 45	2423	10653	223	222		1	5	0	2	2	
N 87	4 54.7	69 35	2436	7590	19	14		4	0	0	0	0	
N 88	4 55.1	69 29	2530	7983	36	21		2	0	1	1	1	
N 89	4 55.3	69 25	2548	8215				4					
N 90	4 55.7	69 21	2641	8441	25	27	1	4	0	0	1	1	
N 91	4 57.5	68 29	2816	11646	420	384		3	3	1	3	2	
N 91A	4 57.3	68 31	2785	11487	41	32		5	1	1	0	0	
N 91B	4 57.4	68 31	2817	11554	47	48		4	1	0	2	1	
N 92	4 57.3	68 50	2923	10383	169	163		1	1	0	1	1	
N 92A	4 57.5	68 50	2966	10391	28	30	T	4	1	1	1	1	
N 92B	4 57.2	68 50	2884	10356	40	48		2	1	1	1	1	
N 93	4 57.2	69 17	3096	8730	41	26		1	1	2	1	1	
N 94A	4 56.6	69 29	2975	7999	90	49		1	1	2	1	1	
N 94B	4 56.8	69 31	3061	7923	62	45		1	2	1	2	2	
N 94C	4 57.2	69 35	3244	7692	207	223		1	2	2	2	2	
N 95	5 02.8	68 33	4601	11614	16	13		1	1	1	1	1	
N 96	5 03.2	69 26	5048	8446				2					
N 97	5 05.1	68 44	5423	11004				3					
N 98	5 04.8	69 51	5694	6965				2					
N 99	5 06.3	69 44	6149	7419				1					
N 100	5 07.5	68 37	6193	11532	183	155	T	0	1	1	1	1	
N 101	5 07.8	69 13	6450	9357				1					
N 102	5 08.3	68 45	6477	11042				2					
N 103A	5 08.9	68 50	6711	10746	205	332		3	2	2	2		
N 103B	5 09.6	68 50	6944	10746	97	82		3	1	1	1		
N 104A	5 10.3	68 34	7090	11746				2					
N 104B	5 09.7	68 33	6877	11796	193	154		1	1	1	1		
N 105	5 10.1	68 58	7135	10298	322	340		1	2	0	2		
N 105A	5 10.2	68 58	7160	10310	160	270		4	2	2	3	4	
N 106	5 10.5	68 53	7247	10620				1					
N 107	5 10.9	68 41	7312	11364				1					
N 108	5 10.8	69 31	7476	8340	41	44		2	1	0	1		
N 109	5 12.1	69 32	7902	8298	24	29		1	0	0	1		
N 110	5 11.8	70 06	7949	6248				2					
N 111	5 13.1	69 08	8129	9792				1					
N 112	5 13.7	69 15	8363	9343	48	38		4	0	0	1		
N 113	5 13.8	69 24	8419	8800	371	556		3	1	1	2	4	
N 113A	5 13.7	69 27	8408	8627	21	29		5	1	0	0		

Table 2 (Cont'd)

Nr. LH α 120-	1950		Rect. Coords.		Diameter		Int. C H α	Ir.	El.	St.	Stars
	R.A.	Dec.	X	Y	X	Y					
N 113B	5 ^h 13 ^m .7	-69°27'	8390	8640							
N 113C	5 13.6	69 26	8366	8691	81	65	4	1	0	1	
N 113D	5 13.5	69 27	8328	8638	65	73	4	0	0	1	
N 113E	5 13.6	69 27	8374	8648			3				
N 113F	5 14.0	69 27	8479	8615	49	44	4	1	1	0	
N 114	5 15.1	69 31	8862	8446	336	528	2	2	3	2	
N 114A	5 14.9	69 34	8792	8220	45	45	3	1	2	1	1
N 115	5 14.5	70 12	8812	5962	38	37	1	0	0	0	0
N 116	5 17.3	69 57	9611	6885	86	60	1	0	0	1	
N 117	5 17.4	69 38	9609	8054	28	27	4	0	0	1	
N 118	5 19.3	68 24	10052	12494	26	27	4	0	0	1	
N 119	5 18.7	69 15	9954	9437	800	932	3	3	1	3	4
N 119A	5 18.3	69 14	9824	9474			1				
N 120	5 19.3	69 43	10220	7756	520	365	3	1	3	2	
N 120A	5 19.5	69 41	10259	7855	38	43	5	1	1	1	
N 120B	5 19.5	69 42	10280	7834	37	51	5	0	1	0	
N 120C	5 19.8	69 42	10374	7806	86	97	5	2	1	2	2
N 120D	5 18.8	69 43	10062	7750	65	60	3	1	1	1	
N 121	5 19.7	69 50	10358	7316			T	5			
N 122	5 20.3	69 34	10504	8302			2				
N 123	5 20.6	69 57	10640	6947			2				
N 124	5 21.6	68 38	10842	11692			2				
N 125	5 21.4	70 12	10899	6000			1				
N 126	5 21.9	69 05	10972	10048	48	32	T	0	1	0	
N 127A	5 22.0	69 43	11059	7747	73	70	5	1	0	2	
N 127B	5 21.7	69 44	10974	7731	87	82	2	0	0	0	
N 128	5 22.5	68 41	11142	11517	75	53	T	1	1	0	
N 129	5 22.8	69 45	11317	7641	24	27	T	4	1	1	0
N 130	5 23.0	70 13	11397	5981	54	69	2	2	1	2	0
N 131	5 23.3	69 54	11485	7135	53	32	3	0	1	1	
N 132A	5 24.1	69 40	11705	7982	43	44	4	0	0	0	
N 132B	5 24.7	69 42	11908	7872	38	31	3	0	1	1	
N 132C	5 24.9	69 43	11978	7766	32	35	T	2	0	0	1
N 132D	5 25.5	69 40	12141	7937	32	24	2	1	1	1	
N 132E	5 24.8	69 42	11943	7877			1				
N 132F	5 23.9	69 38	11655	8119	32	32	1	1	0	0	
N 132G	5 24.5	69 41	11830	7892	41	37	1	0	0	1	
N 132H	5 25.3	69 41	12102	7919	30	23	1	0	0	1	
N 132I	5 24.5	69 43	11826	7793	103	75	1	0	1	1	
N 132J	5 24.0	69 41	11665	7893	70	86	T	0	0	1	
N 133	5 24.8	70 07	11961	6314			2				
N 134	5 26.2	69 55	12393	7057	27	26	T	0	0	0	
N 135							2			3	45
N 136	5 23.8	69 07	11599	9976			1				
N 137A	5 24.3	68 58	11750	10488	27	23	1	0	1	1	
N 137B	5 24.5	68 58	11791	10516	42	32	T	0	2	0	
N 138	5 24.8	68 33	11877	12021	391	363	1	1	2	1	1
N 138A	5 25.3	68 31	12050	12171	46	47	1	5	0	0	0
N 138B	5 24.4	68 32	11761	12051	26	26	4	1	0	0	0
N 138C	5 24.9	68 31	11903	12138	35	41	T	2	1	0	0
N 138D	5 24.5	68 32	11770	12070	21	22	2	1	0	0	
N 139	5 25.1	69 22	12009	9044			1				
N 140	5 25.5	69 14	12152	9569	516	430	T	1	3	1	
N 141	5 25.7	68 58	12199	10522			2				
N 142	5 25.9	69 28	12266	8722	131	210	1	1	1	1	
N 143	5 26.8	69 21	12570	9098	127	164	2	0	1	1	
N 144	5 26.9	68 52	12576	10887	528	479	4	2	1	3	4
N 144A	5 27.0	68 51	12627	10955	43	46	5	0	0	0	
N 144B	5 26.8	68 51	12555	10951			4				
N 145	5 27.9	69 11	12919	9715			2				
N 146	5 29.1	69 03	13289	10218	53	37	2	0	2	1	
N 147	5 29.4	69 25	13389	8885			1				
N 148A	5 33.0	68 25	14617	12458	24	25	T	5	0	0	0
N 148B	5 31.9	68 36	14244	11807			3				
N 148C	5 32.0	68 34	14265	11959	125	117	3	1	0	1	1
N 148D	5 31.6	68 33	14133	12003	26	28	3	1	0	0	
N 148E	5 31.9	68 30	14216	12193	33	33	2	1	1	2	
N 148F	5 31.2	68 36	13990	11834	26	24	2	1	0	0	
N 148G	5 32.7	68 41	14483	11543			1				
N 148H	5 31.6	68 38	14133	11696	22	24	T	1	0	0	0

Table 2 (Cont'd)

Nr. LH α 120-	1950		Rect. Coords.		Diameter		C	H α	Ir.	El.	St.	Stars
	R.A.	Dec.	X	Y	X	Y						
N 148I	5 ^h 32 ^m .1	-68°42'	14298	11467	213	229		1	5	0	0	
N 149A	5 33.3	69 48	14600	7471	25	27		5	1	0	1	
N 149B	5 33.3	69 48	14583	7483				1				
N 150	5 34.0	68 47	14901	11148	49	31		4	1	2	1	
N 151	5 34.0	68 38	14929	11701				2				
N 152	5 34.5	69 28	15000	8682				1				
N 153	5 34.7	69 00	15105	10362				2				
N 154	5 35.5	69 44	15291	7700	1054	888		3	1	2	3	4
N 154A	5 36.4	69 40	15568	7909	80	54		4	1	1	1	
N 154B	5 34.9	69 48	15102	7446				3				1
N 155	5 37.7	69 47	15974	7481	51	51		2	0	0	1	
N 156	5 38.1	69 36	16115	8174	27	36	1	3	1	1	1	
N 157	5 38.0	69 08	16161	9826	1849	1781		3	1	1	3	6
N 157A	5 38.9	69 06	16465	9916	922	1063		5	2	0	3	8
N 157B	5 38.0	69 12	16167	9601	200	182		4	1	0	2	
N 158	5 39.9	69 28	16733	8582	746	759		3	3	2	3	6
N 158A	5 40.6	69 24	16963	8854	53	47		5	1	0	1	1
N 158B	5 39.1	69 25	16479	8757	26	22		4	0	1	0	
N 158C	5 39.5	69 32	16571	8394	217	210		4	3	0	3	2
N 158D	5 39.7	69 34	16642	8222	40	39		4	0	1	2	
N 159	5 40.4	69 46	16816	7496	288	249		1	2	0	2	
N 159A	5 40.1	69 47	16728	7439	56	62		5	2	0	1	
N 159B	5 40.5	69 45	16861	7548				3				
N 159C	5 40.4	69 47	16829	7472	140	107		4	2	1	2	
N 159D	5 40.4	69 45	16827	7572	131	97		4	0	1	2	
N 159E	5 40.5	69 48	16835	7389	35	35		5	1	0	0	
N 159F	5 40.1	69 46	16726	7551	48	47		4	1	0	1	
N 159G	5 40.8	69 46	16935	7518	50	50		4	1	0	1	
N 159H	5 39.9	69 48	16672	7386				2				
N 159I	5 40.2	69 46	16758	7534				1				
N 159J	5 40.0	69 44	16703	7598				1				
N 159K	5 40.0	69 47	16684	7469	25	22		2	1	1	0	
N 159L	5 40.5	69 50	16850	7260	62	28		1	4	2	0	
N 160	5 40.8	69 38	16958	7983	678	787		3	1	1	3	
N 160A	5 40.2	69 40	16765	7888	94	94		5	1	0	0	
N 160B	5 40.6	69 41	16893	7796	60	38		5	1	0	0	
N 160C	5 40.8	69 41	16971	7805	44	40		5	0	0	0	
N 160D	5 40.0	69 40	16707	7859	55	58		4	1	0	1	
N 160E	5 40.9	69 42	16980	7720	51	37		3	0	1	1	
N 160F	5 41.2	69 44	17083	7614	58	49		3	0	0	1	
N 161	5 40.5	69 00	17003	10260	65	62		3	1	1	1	
N 162	5 41.3	69 17	17198	9245				1				
N 163	5 43.6	69 46	17811	7436	217	213		3	1	0	2	
N 164	5 42.9	69 05	17758	9928	293	310		3	2	2	3	
N 165	5 43.2	68 58	17885	10382	103	93		3	5	0	1	
N 166	5 44.7	69 25	18253	8666	14	30		1	0	2	0	
N 167	5 44.8	69 23	18301	8800	64	47		2	0	0	1	
N 168	5 45.8	69 46	18507	7409	127	191		2	1	2	1	
N 168A	5 45.9	69 47	18535	7358	23	24		4	0	1	0	
N 168B	5 45.7	69 47	18492	7346				1				
N 169A	5 46.9	69 34	18905	8077	64	64		2	1	0	0	
N 169B	5 46.8	69 35	18873	8029	32	31		2	0	0	0	
N 169C	5 46.5	69 34	18786	8133	80	80		1	1	0	1	
N 170	5 47.4	69 27	19096	8491				3				
N 171A	5 39.9	70 13	16605	5866	21	21		2	0	0	0	
N 171B	5 39.8	70 14	16555	5845	57	70		1	1	0	0	
N 172	5 40.6	69 56	16874	6916	53	52		2	0	0	1	
N 173	5 40.8	69 54	16933	7023	49	54		1	0	0	0	
N 174	5 40.9	69 58	16936	6778	22	25		1	0	1	0	
N 175	5 41.2	70 03	17020	6450	118	107		2	5	0	1	
N 176	5 41.3	70 11	17026	6003	41	37	T	3	0	0	0	
N 177	5 41.6	69 55	17183	6913	102	175		3	1	1	1	
N 178	5 43.1	70 10	17581	6019				2				
N 179A	5 48.4	69 53	19294	6877	47	48		3	1	0	1	
N 179B	5 48.4	69 53	19291	6928	24	24		2	0	0	1	
N 179C	5 48.3	69 52	19271	6980	32	32		1	1	0	0	
N 179D	5 48.6	69 52	19358	6948	48	48		T	1	0	0	
N 180	5 49.5	70 05	19573	6153	604	859		1	1	2	1	1
N 180A	5 49.1	70 06	19434	6149	24	24		4	1	0	0	
N 180B	5 49.4	70 03	19541	6296	286	318		3	0	1	3	2

Table 2 (Cont'd)

Nr. LHα 120-	1950		Rect. Coords.		Diameter		Int.		Ir.	El.	St.	Stars
	R.A.	Dec.	X	Y	X	Y	C	Hα				
N 180C	5 ^h 48 ^m .7	-70°02'	19326	6376	111	96		2	0	1	0	
N 181	5 49.9	69 09	20002	9508				2				
N 182	4 39.0	70 41	- 1670	2813				3				
N 183	4 46.4	70 55	660	2407				2				
N 184	4 48.5	72 30	2194	- 3180				2				
N 185	4 54.2	70 05	2528	5779	390	397		1	1	0	1	
N 186A	5 01.3	70 18	4801	5243				3				
N 186B	5 00.4	70 08	4454	5830	38	36		3	0	0	0	
N 186C	5 00.0	70 13	4380	5475	27	28		2	1	0	0	
N 186D	5 00.3	70 12	4452	5545	88	114		T	5	0	0	1
N 186E	5 00.1	70 15	4411	5375	538	510		T	5	0	0	1
N 187	5 02.5	70 46	5348	3590				1				
N 188	5 04.1	70 18	5656	5338				2				
N 189	5 05.3	70 12	5970	5750	90	76		1	1	2	1	
N 190	5 04.9	70 48	6057	3547	114	133		3	0	0	1	
N 191A	5 05.2	70 58	6203	2934	48	53	2	5	0	1	0	
N 191B	5 05.1	70 58	6168	2983	54	52		2	0	0	0	
N 192	5 10.1	70 53	7637	3405				2				
N 193A	5 13.0	70 28	8386	4944	29	25	1	5	0	0	0	
N 193B	5 12.7	70 32	8326	4716	32	36		2	0	0	0	
N 193C	5 13.0	70 28	8385	4929	38	52		2	0	1	1	
N 193D	5 12.8	70 31	8361	4756	29	35		T	1	0	0	
N 193E	5 12.6	70 32	8294	4683	29	35		T	1	0	0	
N 194	5 16.5	71 50	9685	51	16	19		3	1	0	0	
N 195	5 18.4	71 18	10138	2008	167	182		1	0	1	0	
N 195A	5 18.2	71 18	10087	2023	34	27		4	1	1	1	
N 195B	5 18.3	71 18	10116	1977	46	32		4	1	1	0	
N 196	5 20.7	70 28	10722	5026				1				
N 197	5 21.6	71 45	11133	381	21	21	1	3	0	0	0	
N 198	5 23.2	71 38	11549	856	339	441		1	5	1	1	1
N 199	5 23.4	71 21	11593	1850				2				
N 200	5 24.0	71 23	11767	1722	394	795		1	4	2	1	1
N 201	5 25.6	71 35	12262	1044				3				
N 202	5 25.8	71 30	12297	1349	53	59		T	1	0	0	
N 203	5 25.8	73 41	12360	- 6580				2				
N 204	5 28.0	70 36	12941	4596	242	193		3	1	1	3	
N 205A	5 28.3	71 26	13019	1563	100	175		1	1	1	1	
N 205B	5 26.9	71 38	12625	845	230	200		T	1	1	1	2
N 206	5 31.3	71 07	13895	2692	1038	935		3	2	0	3	3
N 206A	5 32.0	71 06	14101	2795	116	229		5	1	1	1	1
N 206B	5 31.4	71 10	13941	2559	38	37		4	1	1	0	
N 206C	5 29.6	71 11	13388	2482	24	24		1	0	0	0	
N 206D	5 33.0	71 15	14400	2237	27	25		1	1	0	0	
N 207	5 31.2	70 46	13878	3968				1				
N 208	5 31.9	70 42	14118	4203				3				
N 209	5 34.3	71 53	14709	- 101				2				
N 210	5 35.7	74 18	14820	- 8900				1				
N 211	5 36.6	73 54	15100	- 7430				1				
N 212	5 37.7	71 54	15662	- 181				1				
N 213	5 39.0	70 42	16222	4153	186	169		3	1	0	1	
N 213A	5 38.9	70 42	16213	4160	44	48		T	5	1	1	0
N 214	5 41.6	71 16	16878	2055	600	831		T	0	3	0	
N 214A	5 40.6	71 10	16612	2428	35	35		5	1	1	0	
N 214B	5 40.6	71 11	16622	2395	44	27		4	1	1	1	
N 214C	5 42.3	71 20	17079	1784	198	179		4	1	0	2	1
N 214D	5 40.8	71 12	16681	2349	90	87		2	1	0	1	
N 214E	5 40.8	71 13	16682	2263	35	38		1	1	1	0	
N 214F	5 42.1	71 16	17045	2048	41	47	1	1	0	1	0	
N 214G	5 42.0	71 15	16997	2093	30	27		1	1	0	0	
N 214H	5 42.1	71 18	17036	1955	54	59		1	1	0	1	
N 215	5 42.1	72 42	16730	- 3121				3				
N 216	5 41.6	70 55	16963	3319	59	54		T	0	0	0	
N 217	5 41.3	70 29	16964	4923				2				
N 218	5 41.5	70 35	17000	4519	28	28		5	0	1	0	
N 219	5 41.7	70 24	17088	5194	40	36		4	0	0	0	
N 220	5 49.4	70 17	19462	5422	20	14		T	0	1	0	
N 221	6 19.5	71 35	27670	- 250				2				

Notes to Table 2

LH α 120-

N 4A	NGC 1714 = HD 31606 Pd.
N 4B	NGC 1715.
N 4E	Very faint nebula about conspicuous central star.
N 6	Probably southern and brighter member of close pair.
N 8	HDE 268680. Probably = NGC 1736. The NGC description suits the object but the position is 1.0 minutes in error.
N 10	This region to the north and east of LH α 120-N 11 contains several extremely faint patches of nebulosity whose boundaries are very indefinite. It is probable that this region is a continuous field of faint nebulosity. The boundaries are too indefinite to record a position for the field.
N 11A	Probably IC 2116 = HD 32340 P (see Harv. Bull. 891). The position previously given for this object appears to be somewhat in error. It is not NGC 1769 as is noted in the HDC.
N 11B	Includes NGC 1763 = HD 32256 P (see Harv. Bull. 891) and IC 2115 = HD 32279 Pc.
N 11C	NGC 1769.
N 11E	NGC 1773.
N 11F	NGC 1760.
N 16A	This object is not related to N 16.
N 17B	NGC 1814.
N 23A	NGC 1829.
N 25	On southwest edge of cluster NGC 1852.
N 26	The continuum is diffuse.
N 30B	A very small nebulosity enclosed in a triangle of stars. Probably in cluster NGC 1871.
N 31	Very faint nebula about two stars. H α emission perhaps doubtful.
N 33	NGC 1895.
N 37	In cluster NGC 1919.
N 38	NGC 1920 = Harv. Bull. 891-16 = HD 269372.
N 44	Includes NGC 1937. NGC 1934 is not visible on LH α plates.
N 40	Possibly NGC 1923.
N 44A	Harv. Bull. 891-17 = HD 269404.
N 44B	NGC 1935 = IC 2126 = HD 35814 Pec.
N 44C	NGC 1936 = IC 2127 = HD 35861 Pd.
N 44D	Harv. Bull. 891-19 = HD 269443. Probably part of IC 2128, which also probably includes 44E, 44H and 44L.
N 44F	NGC 1929 = Harv. Bull. 891-18 = HD 269407.
N 46	NGC 1941.
N 48	Includes NGC 1945.
N 48E	Lies at center of NGC 1945.
N 49	[O I] λ 6300 shows strong emission. Harv. Bull. 891-20 = HD 271255.
N 51A	In cluster NGC 1974.
N 53	The continuum is probably due to an overlapping spectrum.
N 55A	Harv. Bull. 891-21 = HD 269730.
N 57A	In cluster NGC 2014. Probably Harv. Bull. 891-22 = HD 269725.
N 57C	NGC 2020.
N 59	Includes HD 269803 = NGC 2029.
N 59A	Consists of two bright knots: NGC 2032 = HD 37731 Pd and NGC 2035 = HD 269824 = Harv. Bull. 891-24.
N 59B	NGC 2040 = HD 269852.
N 61	This region, between LH α 120-N 63 and LH α 120-N 65, seems to have an extremely faint background of nebulosity connecting the brighter knots. The boundaries are too indefinite to record a position.
N 63	NGC 2030.
N 63A	Probably HD 271389. Shows [O I] λ 6300 in emission.
N 73	A very faint nebula about a conspicuous central star. Central star possibly multiple.
N 75B	NGC 2147.
N 77A	IC 2105 = HD 31351 Pc.
N 79A	Probably IC 2111 = HD 31673 Pc.
N 79B	Possibly IC 2111?
N 79E	Contains the cluster NGC 1727.
N 82	Strong [N II] λ 6584 visible.
N 83	Includes NGC 1745 and NGC 1737.
N 83A	NGC 1743 = HD 31947 Pc.
N 83B	NGC 1748 = IC 2114 = HD 32014 Pc.
N 87	A small emission patch on southeast edge of bright star image.
N 88	Lies 10" east of faint star.
N 90	The continuum is probably diffuse.
N 91	NGC 1770.
N 91A	IC 2117 = HD 32364 Pd.
N 94A	Possibly NGC 1767.
N 97	Strong [N II] λ 6584 visible.
N 102	Eastern member of very close pair. Strong [N II] λ 6584 visible.

Notes to Table 2 (Cont'd)

LH α 120-

- N 103A NGC 1850. Includes HD 34026 Cl, Con; and HD 34039 Neb., Con. The compact cluster is brighter than the nebulosity but wisps of H α emission are unmistakably visible along the southern edge of the cluster.
- N 104A Lies 20" southwest of faint cluster.
- N 105A NGC 1858. Contains Harv. Bull. 891-11 = HD 269111.
- N 107 Lies 15" west of star.
- N 113 Contains NGC 1872 which is a cluster without H α emission.
- N 113A 113A, B and E form a chain of three small intense knots of nebulosity which, together, make up NGC 1877.
- N 113C Contains NGC 1876 and HD 34679 Cl, Con. The HD object seems to refer also to 113A, B, D, E and F.
- N 113D NGC 1874.
- N 113F NGC 1880.
- N 120A Part of NGC 1918.
- N 120B Part of NGC 1918. Harv. Bull. 891-13 = HD 269367.
- N 121 NGC 1921 = Harv. Bull. 891-14 = HD 269379. A peculiar, small, ring-like object which shows no H α emission lies 25" to the east.
- N 122 Harv. Bull. 891-15 = HD 269390.
- N 130 A fan-like nebula attached to the cluster NGC 1943. The continuum is probably due entirely to the cluster.
- N 135 This is an extended region of about two square degrees in extent which is filled with faint nebulous wisps and filaments. The region is very complex and only the more conspicuous knots are listed. The associated stars listed for LH α 120-N 135 are those not otherwise listed for the conspicuous knots. This region contains several conspicuous clouds of blue supergiant stars whose members are too faint to appear in the Henry Draper Extension. NGC 2050 appears to be a part of this region.
- N 138A NGC 1949 = HD 36301 Pc.
- N 144 Includes NGC 1962, NGC 1965, NGC 1970.
- N 144A NGC 1966.
- N 145 On southwest edge of cluster NGC 1984.
- N 151 Identification on chart uncertain. Maybe it is the object 20" to the north of the marked object.
- N 152 This is a very faint object 35" southwest of bright star.
- N 153 Probably northeast member of close pair.
- N 154A Harv. Bull. 891-25 = HD 269822.
- N 154B On southwest edge of cluster NGC 2033.
- N 156 The continuum is diffuse.
- N 157A 30 Doradus = NGC 2070 = HD 38268 Pd. Includes NGC 2069.
- N 157B NGC 2060.
- N 158 Contains NGC 2081.
- N 158C NGC 2074. Harv. Bull. 891-27 = HD 269930.
- N 159A NGC 2079 = HD 38437 Pc.
- N 159C NGC 2084. Includes Harv. Bull. 891-28 = HD 269942 and Harv. Bull. 891-29 = HD 269950.
- N 159D NGC 2083.
- N 159F NGC 2078.
- N 160A NGC 2080 = HD 38436 Pd.
- N 160B NGC 2085 = HD 269952.
- N 160C NGC 2086. Probably = IC 2145 = HD 38540 Pc.
- N 160D NGC 2077 = HD 38416 Pd = HD 269937.
- N 168A In cluster NGC 2113.
- N 181 Strong [N II] λ 6584 visible.
- N 186E Listed in Harv. Circ. 271 as "Nebulous wisp about star." Contains NGC 1791.
- N 190 NGC 1833.
- N 191A Harv. Bull. 891-10 = HD 33540 P.
- N 193A Harv. Bull. 891-12 = HD 269211.
- N 195B NGC 1914.
- N 201 Northwest member of close pair.
- N 203 Lies 5" east of star.
- N 206A NGC 2018.
- N 213A NGC 2075.
- N 214C NGC 2103.
- N 217 Lies 20" south of bright star.
- N 220 Probably is the faint object 20" east of faint star.

Table 3

EXCITING STARS IN THE LARGE MAGELLANIC CLOUD NEBULAE

Neb. Nr. LH α 120-	Star Nr.	Posi- tion	1900		m	Sp.
			R.A.	Dec.		
N 3	HD 268605		4 ^h 50 ^m .3	-67°50'	11.0	B
N 4D	HD 268653		4 53.4	67 05	10.5	Bo
N 8	LH α 120-S 5		4 53.2	68 12	12.8	
	LH α 120-S 6		4 53.3	68 13	12.8	
N 9	HD 32034	C	4 55.2	67 20	10.1	Pec.
N 10	HD 270948		5 00.8	66 05	11.6	Con.
	HD 270952		5 01.1	66 01	11.5	Con.
N 11	HD 32228	C	4 56.4	66 38	10.2	Oa
	HD 268732		4 56.9	66 44	11.0	B
	LH α 120-S 4		4 55.1	66 40	12.8	
	LH α 120-S 9		4 57.5	66 41	12.0	
N 11B	HD 268715		4 56.5	66 34	11.5	B
	HD 268721		4 56.8	66 33	11.8	B
	HD 268726		4 56.9	66 33	11.3	B
N 11C	HD 268743		4 57.5	66 37	11.1	B
N 16A	HD 268847		5 00.1	68 06	13.9	O
N 23	HD 33486		5 05.4	68 13	8.1	B9
	LH α 120-S 18		5 06.1	68 19	11.5	
N 30C	HD 34664	C	5 14.0	67 34	11.4	Pec.
	HD 269195		5 14.1	67 34	11.1	B
N 43	HD 271191		5 21.5	65 51	10.2	B
	LH α 120-S 29		5 22.0	65 48	12.8	
N 44	HD 269412		5 22.2	68 00	11.4	B
	HD 269445		5 23.3	68 07	11.6	O
N 44E	HD 269449		5 23.5	68 06	14.1	O
N 51	HD 269540		5 27.0	67 34	11.7	B
	LH α 120-S 37		5 28.2	67 36	12.8	
N 51D	HD 36402		5 26.3	67 35	10.8	Oa
	HD 269525		5 26.4	67 35	11.5	B
N 51E	HD 269545		5 27.1	67 44	11.4	B
N 55	HD 269722		5 32.2	66 28	11.6	B
N 56	HD 269702		5 32.1	67 38	11.9	Con.
	HD 269713		5 32.3	67 33	11.9	Con.
	HD 269718		5 32.5	67 35	9.5	B*
	HD 269726		5 32.7	67 36	12.3	Con.
	HD 269841		5 36.0	67 30	11.6	Con.
	HD 269845		5 36.1	67 31	11.2	Con.
N 57	HD 269698		5 32.0	67 42	11.7	O
	LH α 120-S 47		5 32.6	67 45	11.5	
	LH α 120-S 48		5 33.4	67 41	12.0	
N 57A	HD 269717		5 32.6	67 45	11.8	B
N 57C	HD 269748	C	5 33.4	67 46	13.1	O
N 57E	HD 269692		5 31.8	67 45	13.9	O
	HD 269714		5 32.4	67 45	11.7	B

Table 3 (Cont'd)

Neb. Nr. LH α 120-	Star Nr.	Posi- tion	1900		m	Sp.
			R.A.	Dec.		
	LH α 120-S 44	C	5 ^h 32 ^m .2	-67°46'	12.8	
N 61	HD 271363		5 34.0	66 18	11.5	Con.
N 62B	HD 271366	C	5 34.1	66 13	11.8	Con.
N 74	HD 270149		5 46.9	67 11	13.8	O
N 91	HD 268798		4 57.4	68 35	10.8	B:
	HD 268804		4 57.6	68 34	11.1	B:
N 91B	HD 32402		4 57.8	68 33	12.3	Oa
N 100	HD 269050	C	5 07.7	68 40	11.2	B
N 105A	HD 34169		5 10.2	69 00	13.2	Oa
	HD 34187		5 10.3	69 01	14.0	O
	HD 269113		5 10.4	69 00	14.5	O
	HD 269116		5 10.4	69 03	11.2	B:
N 113	HD 34783		5 14.8	69 25	13.8	Oa
	HD 269215		5 14.2	69 25	11.1	B:*
	HD 269217		5 14.3	69 28	11.6	Pec.
	HD 269219		5 14.3	69 27	11.4	B
N 114A	HD 269244	C	5 15.2	69 36	11.2	B
N 119	HD 35343		5 18.9	69 21	var.	Pec.
	HD 269321		5 18.6	69 22	10.9	B:
	HD 269333		5 18.9	69 18	11.2	Oe
	HD 269357		5 19.6	69 19	12.1	Con.
N 120C	HD 35517		5 20.1	69 45	11.5	Oa
	HD 269382	C	5 20.2	69 46	11.5	B5:
N 135	HD 37974		5 37.2	69 26	11.3	Pec.
	HD 38030		5 37.6	69 30	12.6	Oa
	HD 269549		5 27.3	69 12	14.8	O
	HD 269578		5 28.3	69 04	10.2	B:
	HD 269582		5 28.5	69 04	var.	Pec.
	HD 269599		5 29.0	69 13	12.2	Pec.
	HD 269604		5 29.1	68 58	11.0	B
	HD 269618		5 29.8	68 50	14.2	O:
	HD 269619		5 29.9	68 33	11.1	B
	HD 269624		5 30.1	68 59	15.0	O
	HD 269649		5 31.1	69 24	11.2	B
	HD 269651		5 31.2	69 13	11.0	B
	HD 269661		5 31.6	69 36	10.6	B
	HD 269662		5 31.5	69 07	10.8	B:
	HD 269665		5 31.5	68 49	10.6	B9
	HD 269668		5 31.6	68 58	11.8	B
	HD 269687		5 32.0	69 10	11.4	B
	HD 269705		5 32.7	69 23	11.6	B
	HD 269762		5 34.8	69 03	10.8	B
	HD 269832		5 36.8	69 27	11.0	B
	HD 269858		5 37.5	69 33	11.1	Pec.
	HD 269859		5 37.5	69 33	10.9	B

Table 3 (Cont'd)

Neb. Nr. LH α 120-	Star Nr.	Position	1900		m	Sp.
			R.A.	Dec.		
	HD 269920		5 ^h 39 ^m .4	-69°26'	11.3	B:
	HD 269982		5 41.7	69 18	11.1	B
	HD 269992		5 42.3	69 51	11.1	Con.
	HD 269997		5 42.0	69 08	11.1	B
	HD 270086		5 45.9	69 02	10.6	Bo:
	LH α 120-S 106		5 27.8	69 05	12.8	
	LH α 120-S 107		5 28.1	69 19	12.8	
	LH α 120-S 108		5 28.4	69 15	12.8	
	LH α 120-S 109		5 28.5	69 16	12.0	
	LH α 120-S 110		5 28.8	68 58	12.8	
	LH α 120-S 112		5 30.6	69 12	12.0	
	LH α 120-S 113		5 31.0	69 05	12.8	
	LH α 120-S 115		5 31.3	69 16	12.0	
	LH α 120-S 120		5 32.1	69 10	12.8	
	LH α 120-S 122		5 34.3	68 43	12.8	
	LH α 120-S 125		5 36.5	69 02	12.8	
	LH α 120-S 126		5 36.7	69 00	12.0	
	LH α 120-S 129		5 38.1	69 23	11.5	
	LH α 120-S 136		5 42.2	69 27	11.5	
	LH α 120-S 137		5 42.5	69 39	12.8	
	LH α 120-S 139		5 42.4	68 57	12.0	
	LH α 120-S 141		5 44.8	69 16	12.8	
	LH α 120-S 142		5 45.2	69 21	12.0	
N 138	HD 269485		5 24.8	68 37	14.3	O
N 144	HD 36521		5 27.1	68 55	11.4	Oa
	HD 269546		5 27.3	68 55	10.4	B
	HD 269548		5 27.3	68 52	13.6	O
	HD 269551		5 27.4	68 55	11.5	B
N 148	LH α 120-S 118		5 31.9	68 45	11.5	
	LH α 120-S 121		5 32.4	68 30	12.8	
N 148C	HD 269700		5 32.3	68 37	10.4	B
N 154	HD 37680		5 35.2	69 49	12.6	Oa
	HD 37836		5 36.2	69 44	10.5	Pec.
	HD 269784		5 35.8	69 47	14.2	O
	HD 269786		5 35.9	69 49	11.0	B
N 154B	HD 269769		5 35.4	69 50	11.5	Con.
N 157	HD 38029		5 37.6	69 15	11.3	Oa
	HD 269818		5 36.4	69 14	14.4	O
	HD 269826		5 36.6	69 13	11.4	B:
	HD 269828		5 36.7	69 15	13.6	Oc
	HD 269888		5 38.4	69 18	15.1	O
	HD 269896		5 38.4	68 58	11.3	B
N 157A	HD 38282		5 39.5	69 05	10.6	Oa
	HD 38344		5 39.9	69 05	12.6	O
	HD 269883		5 38.3	69 11	14.7	O
	HD 269891		5 38.5	69 08	11.5	Oc
	HD 269902		5 38.8	69 09	11.0	B

Table 3 (Cont'd)

Neb. Nr. LH α 120-	Star. Nr.	Posi- tion	1900		m	Sp.
			R.A.	Dec.		
	HD 269919		5 ^h 39 ^m .2	-69°08'	13.7	O
	HD 269926		5 39.4	69 03	12.5	O
	HD 269928		5 39.6	69 09	11.8	O
N 158	HD 38448		5 40.7	69 27	13.1	Oa
	HD 38472		5 40.9	69 27	13.4	O
	HD 269908		5 39.2	69 33	14.8	O
	HD 269936		5 40.2	69 30	11.2	B
	HD 269956		5 41.0	69 27	11.6	O
	LH α 120-S 131		5 39.1	69 32	12.0	
N 158A	HD 38489		5 41.0	69 26	12.0	Pec.
N 158C	HD 269923		5 39.6	69 33	10.8	B
	HD 269927		5 39.7	69 32	11.1	B
N 180	LH α 120-S 144		5 49.4	70 09	12.8	
N 180B	HD 270145		5 49.8	70 05	11.8	Con.
	HD 270151		5 50.0	70 04	11.8	Con.
N 186D	LH α 120-S 152	C	5 00.9	70 17	12.8	
N 186E	HD 32763	C	5 00.3	70 20	10.4	Pec.
N 198	HD 36063	C	5 23.9	71 43	12.3	Oa
N 200	HD 36156	C	5 24.6	71 26	12.2	Oa
	HD 269547		5 27.6	71 38	11.5	B
N 205B	LH α 120-S 164		5 27.5	71 40	11.5	
N 206	HD 37248		5 32.0	71 06	12.2	Oa
	HD 269656		5 31.9	71 06	11.7	B:
	HD 269660		5 32.1	71 08	11.4	B
N 206A	HD 269676		5 32.5	71 08	11.4	B
N 214C	LH α 120-S 169		5 43.0	71 21	12.8	

Table 4

EMISSION-LINE STARS IN THE SMALL MAGELLANIC CLOUD

Nr.	LH α 115-	1950		Rect. Coords.		Int.			Sp.	
		R.A.	Dec.	X	Y	C	H α	Dif.		m
				"	"					
S 1	0	h ²⁶ m ⁵	-70°03'	4620	20051	2	2	1	11.5	
S 2	0	41.3	73 39	9881	7386	2	2	2	11.5	
S 3	0	41.8	73 43	9999	7184	1	2	1	12.0	
S 4	0	43.2	72 58	10239	9893	T	3	1	12.8	
S 5	0	43.9	72 14	10323	12595	1	1	0	12.0	
S 6	0	45.1	73 25	10808	8307	1	5	1	12.0	
S 7	0	45.4	73 31	10884	7968	1	2	0	12.0	
S 8	0	46.8	72 28	11136	11765	T	1	0	12.8	
S 9	0	46.6	73 00	11142	9812	1	2	1	12.0	
S 10	0	46.5	73 08	11146	9369	T	1	0	12.8	
S 11	0	48.7	73 47	11773	7020	T	1	2	12.8	
S 12	0	49.0	73 24	11820	8362	T	1	1	12.8	
S 13	0	49.6	73 33	11970	7831	1	1	1	12.0	
S 14	0	50.0	72 16	12016	12521	1	2	1	12.0	
S 15	0	50.5	72 25	12152	11950	1	2	1	12.0	
S 16	0	50.7	72 27	12208	11818	T	1	1	12.8	
S 17	0	51.9	73 26	12560	8255	T	3	0	12.8	
S 18	0	52.4	72 58	12692	9967	T	5	1	12.8	
S 19	0	52.6	72 46	12729	10726	1	2	2	12.0	
S 20	0	52.6	72 33	12737	11453	T	1	2	12.8	
S 21	0	53.3	73 13	12930	9087	1	1	3	12.0	
S 22	0	53.8	72 23	13051	12097	1	1	1	12.0	
S 23	0	54.2	72 25	13153	11948	1	2	0	12.0	
S 24	0	55.0	73 18	13352	8733	T	1	0	12.8	
S 25	0	55.7	72 18	13568	12395	1	3	0	12.0	
S 26	0	55.8	72 32	13598	11529	3	1	3	11.0	
S 27	0	57.2	72 13	13995	12695	2	1	2	11.5	
S 28	0	57.8	72 26	14138	11889	2	2	2	11.5	Oa
S 29	0	57.8	72 17	14155	12421	2	4	0	11.5	
S 30	0	59.0	72 27	14482	11839	2	1	1	11.5	
S 31	0	59.0	71 47	14524	14231	T	3	1	12.8	
S 32	0	59.8	72 40	14688	11064	T	1	0	12.8	
S 33	0	59.8	72 17	14703	12377	2	1	1	11.5	
S 34	0	59.9	72 25	14720	11915	T	1	1	12.8	
S 35	1	00.5	71 46	14931	14290	T	2	1	12.8	
S 36	1	01.4	72 42	15098	10914	T	2	1	12.8	
S 37	1	01.5	72 45	15123	10737	3	1	1	11.0	
S 38	1	02.1	72 30	15314	11627	1	3	1	12.0	
S 39	1	02.4	72 49	15366	10453	1	1	1	12.0	
S 40	1	02.3	72 10	15420	12802	2	1	2	11.5	
S 41	1	02.7	72 25	15502	11895	T	2	1	12.8	
S 42	1	03.3	73 03	15562	9621	1	2	1	12.0	
S 43	1	03.5	72 41	15682	10958	1	2	2	12.0	
S 44	1	04.1	72 42	15835	10864	1	2	3	12.0	
S 45	1	04.4	72 36	15915	11246	3	1	0	11.0	

Table 4 (Cont'd)

Nr. LH α 115-	1950		Rect. Coords.		Int.			m	Sp.
	R.A.	Dec.	X	Y	C	H α	Dif.		
			"	"					
S 46	1 ^h 04. ^m 2	-72°02'	15948	13269	1	3	0	12.0	
S 47	1 04.5	72 34	15966	11345	T	2	1	12.8	
S 48	1 05.2	73 26	15992	8179	1	2	1	12.0	
S 49	1 04.7	72 44	15993	10755	1	2	1	12.0	
S 50	1 05.0	72 33	16087	11384	2	2	0	11.5	
S 51	1 05.2	72 15	16210	12492	T	3	1	12.8	
S 52	1 05.8	72 44	16268	10728	4	2	1	10.8	B
S 53	1 07.3	73 31	16520	7889	1	2	0	12.0	
S 54	1 06.9	72 40	16589	10989	T	1	1	12.8	
S 55	1 09.6	73 34	17089	7652	T	2	0	12.8	
S 56	1 09.8	72 39	17389	10978	T	3	2	12.8	
S 57	1 12.1	73 36	17743	7487	4	1	0	10.5	B
S 58	1 13.9	73 44	18152	6949	T	2	0	12.8	
S 59	1 17.1	73 47	18952	6697	T	2	1	12.8	
S 60	1 17.0	73 25	19042	8044	2	1	0	11.5	
S 61	1 22.4	73 39	20329	7031	T	1	2	12.8	
S 62	1 29.1	73 34	22070	7145	1	3	0	12.0	
S 63	1 28.1	72 58	22126	9299	3	3	0	11.0	
S 64	1 30.1	73 04	22614	8867	2	3	0	11.5	
S 65	1 43.3	74 55	24660	1661	3	4	1	11.0	

Notes to Table 4

LH α 115-

- S 3 A member of the close group NGC 242. This star lies at the extreme eastern edge of the group.
- S 9 Probably northern-most star of close trio.
- S 11 Emission perhaps doubtful.
- S 16 Emission visible on only one plate.
- S 19 Northern-most star of compact triangle of stars.
- S 22 Emission doubtful. Probably southeast star of close pair.
- S 26 The continuous spectrum is diffuse. Probably a cluster with one or more emission stars. Not in the NGC.
- S 28 HD 5980. The magnitude is estimated from LH α plates.
- S 31 Emission visible on only one plate.
- S 39 Spectrum variable? Unmistakable emission on earliest plate seems weaker on later plates.
- S 44 Northern star of close pair. Presence of continuum doubtful because of overlapping spectrum.
- S 50 A fainter star lies 15" to the southwest.
- S 52 HD 6884.
- S 57 HD 7583. Emission doubtful.
- S 58 Emission perhaps doubtful.
- S 60 Emission perhaps doubtful. Continuum is rather red. Perhaps a late-type star?
- S 61 Emission perhaps doubtful although strongly suspected on two plates.

Table 5
EMISSION NEBULAE IN THE SMALL MAGELLANIC CLOUD

Nr. LH α 115-	R.A.	1950		Rect. Coords.		Diameter		C	H α	Ir.	El.	St.
		Dec.	X	Y	X	Y						
N 1	0 ^h 21 ^m .9	-73°54'	5045	6062					2			
N 2	0 30.5	71 58	6536	13288					2			
N 3	0 29.7	74 04	7061	5691	48	28			2	0	1	0
N 4	0 32.4	73 30	7543	7824					1			
N 5	0 39.4	73 02	9255	9642					2			
N 6	0 39.6	74 03	9526	5924					2			
N 7	0 41.5	72 55	9787	10090					2			
N 8	0 41.3	73 16	9802	8781	21	14			1	0	1	0
N 9	0 41.7	73 19	9916	8638	21	18			3	0	1	0
N 10	0 43.1	73 27	10294	8187	23	22			2	1	0	0
N 11	0 43.2	73 33	10340	7799	24	22		T	2	1	1	0
N 12	0 44.2	73 22	10552	8455	395	228			2	3	2	2
N 12A	0 44.7	73 23	10686	8434	112	113			2	5	0	2
N 12B	0 43.6	73 21	10417	8519	124	101			2	1	0	2
N 13A	0 43.6	73 39	10451	7421	35	27			3	0	1	0
N 13B	0 43.6	73 39	10439	7456	59	42			2	0	1	0
N 14	0 44.5	73 29	10650	8051	24	23			1	0	0	0
N 15	0 44.4	73 42	10657	7276	27	27			1	0	0	0
N 16	0 44.5	73 40	10679	7404	64	46			1	0	1	0
N 17	0 44.9	73 48	10807	6912	191	187			1	0	0	0
N 18	0 45.2	73 06	10778	9468					1			
N 19	0 45.9	73 24	11008	8350	311	419			1	1	1	1
N 20	0 46.0	73 32	11056	7903					1			
N 21	0 46.0	73 34	11056	7777	43	36			2	1	0	0
N 22	0 46.2	73 33	11104	7850	151	118			2	1	0	1
N 23	0 46.2	73 34	11110	7763	56	41			2	5	0	2
N 24	0 46.4	73 36	11165	7640	70	71			2	1	0	1
N 25	0 46.4	73 31	11147	7973	48	45			3	0	0	0
N 26	0 46.4	73 31	11146	7936					2			
N 27	0 46.6	73 22	11191	8477	51	34			2	1	2	2
N 28	0 46.8	73 32	11252	7897	121	114			2	1	0	2
N 28A	0 46.7	73 32	11231	7865	54	32			2	0	2	0
N 29	0 46.8	73 14	11231	8953					2			
N 30	0 47.3	73 25	11366	8335	152	156			2	1	0	1
N 30A	0 47.2	73 26	11344	8243	20	18			2	0	0	0
N 31	0 46.9	73 43	11310	7259					1			
N 32	0 47.9	73 05	11495	9521	33	27			2	0	0	1
N 33	0 47.7	73 43	11516	7244					2			
N 34	0 47.9	73 27	11546	8204					2			
N 35	0 48.4	72 49	11617	10504	35	49			1	4	1	0
N 36	0 48.8	73 09	11739	9285	263	238			1	1	0	1
N 37	0 49.0	73 03	11792	9630	319	291			1	1	1	1
N 38	0 48.2	74 01	11646	6176					2			
N 39	0 48.7	73 16	11722	8892					1			
N 40	0 48.9	73 59	11827	6261					1			
N 41	0 49.2	73 10	11856	9265	21	17			2	0	0	1
N 42	0 49.7	72 43	11942	10896					2			
N 43	0 49.5	74 14	11985	5386					2			
N 44	0 50.1	71 41	11999	14626					2			
N 45	0 50.0	73 30	12064	8035	36	31			2	0	0	1
N 46	0 50.1	73 07	12067	9412	19	16			3	0	1	0
N 47	0 50.3	73 37	12150	7620					2			
N 48	0 50.6	73 43	12240	7224	46	35			1	0	0	0
N 49	0 50.5	73 52	12230	6687	16	15			1	0	0	0
N 50	0 51.1	72 55	12326	10139	140	84			1	1	3	0
N 51	0 50.9	73 42	12326	7280	54	38			2	1	0	1
N 52A	0 51.9	72 56	12557	10090	19	16			2	0	0	0
N 52B	0 52.0	72 56	12565	10109	24	19			2	0	1	0
N 53	0 52.4	71 51	12655	14035	23	21			2	0	2	0
N 54	0 54.2	70 36	13180	18540					2			
N 55	0 53.5	72 19	12981	12300					2			
N 56	0 53.6	73 43	12994	7245					2			
N 57	0 54.0	72 33	13111	11507	35	35		1	1	0	1	0
N 58	0 54.5	72 34	13258	11433	60	70			1	0	1	0
N 59	0 55.5	73 50	13486	6819	88	81			1	0	0	0
N 60	0 55.6	74 29	13478	4456					2			
N 61	0 55.8	72 49	13593	10530					2			
N 62	0 56.3	72 56	13709	10112	65	50			1	0	1	0

Table 5 (Cont'd)

Nr. LH α 115-	1950		Rect. Coords.		Diameter		Int.		Ir. El. St.		
	R.A.	Dec.	X	Y	X	Y	C	H α	Ir.	El.	St.
N 63	0 ^h 56 ^m .6	-72°55'	13801	10140	35	27	T	3	0	0	0
N 64	0 56.7	72 56	13822	10072	80	66		1	0	0	1
N 64A	0 56.8	72 56	13844	10077	24	17		3	0	1	0
N 65	0 56.2	72 05	13729	13181				1			
N 66	0 57.5	72 27	14057	11863	584	491		3	2	0	3
N 66A	0 57.6	72 27	14082	11818				2			
N 66B	0 57.5	72 26	14067	11885	27	19		2	0	0	0
N 66C	0 57.5	72 26	14078	11915	19	11		2	0	1	0
N 66D	0 56.5	72 27	13782	11820	32	11	1	2	0	2	1
N 67	0 56.9	71 52	13924	13955	12	19		2	0	1	0
N 68	0 57.0	72 44	13926	10836				2			
N 69	0 57.5	72 41	14060	11015	27	24		2	0	0	1
N 70	0 57.6	72 18	14092	12366				2			
N 71	0 59.3	71 52	14595	13969	22	13		3	0	1	0
N 72	0 59.8	72 07	14736	13038	26	17	T	2	0	1	0
N 73	1 03.4	76 04	15150	- 1310				2			
N 74	1 00.6	72 07	14948	12994	53	35		1	1	0	0
N 75	1 00.8	72 13	14990	12667	63	41		1	0	2	0
N 76	1 01.9	72 20	15274	12220	258	322		2	1	1	0
N 76A	1 02.2	72 20	15355	12225	26	15		2	0	0	0
N 76B	1 01.5	72 23	15161	12072	31	22		2	0	1	0
N 76C	1 02.3	72 25	15374	11947				2			
N 77A	1 01.2	72 09	15099	12874	29	19		3	0	0	1
N 77B	1 01.1	72 10	15072	12862	19	19		1	0	0	0
N 78	1 03.8	72 17	15799	12376	260	365		2	3	2	2
N 78A	1 03.5	72 15	15722	12509	19	19		2	0	0	0
N 78B	1 03.5	72 16	15721	12482	24	13		2	1	2	0
N 78C	1 04.1	72 20	15887	12220	32	21	1	2	1	0	1
N 78D	1 03.6	72 14	15757	12545	33	17		2	0	2	1
N 79	1 06.1	72 51	16327	10317	18	8		1	2	3	1
N 80	1 06.9	72 16	16667	12437	154	198		1	1	0	1
N 80A	1 06.9	72 16	16669	12393	32	21		2	1	0	0
N 81	1 07.8	73 28	16653	8076	30	29	1	3	1	0	0
N 82	1 11.0	74 07	17315	5640				2			
N 83	1 12.4	73 33	17813	7650	198	165		2	1	0	0
N 83A	1 12.5	73 34	17834	7616	32	24		3	0	0	0
N 83B	1 12.5	73 32	17853	7748	19	24		2	1	1	0
N 83C	1 12.7	73 33	17893	7670	29	28		2	0	0	1
N 84	1 13.3	73 34	18046	7584	198	355		2	3	3	2
N 84A	1 13.3	73 34	18039	7577	30	19		3	0	2	0
N 84B	1 13.4	73 36	18075	7495	21	15		3	0	1	0
N 84C	1 12.9	73 32	17963	7741	33	32		2	0	0	0
N 84D	1 13.4	73 37	18059	7438	23	9		2	0	2	0
N 85	1 14.4	73 36	18325	7420			T	1			
N 86	1 14.4	73 26	18362	8066				2			
N 87	1 19.9	73 30	19764	7665				2			
N 88	1 22.9	73 24	20568	7918			T	3			
N 89	1 24.5	73 38	20862	7032	261	283		1	1	1	1
N 90	1 28.3	73 49	21747	6282	199	147		2	1	1	2

Notes to Table 5

LH α 115-

- N 3 Nail 1 (Nail, Whitney and Wade 1953).
 N 9 Harv. Bull. 891-1. Lies 25" south of bright star.
 N 10 Nail 15. Lies 25" southwest of bright star and 20" northeast of fainter star.
 N 11 Nail 16.
 N 12 Includes Nail 21.
 N 12A NGC 261. Harv. Bull. 891-4. Nail 25.
 N 12B NGC 249. Harv. Bull. 891-3. Nail 18.
 N 13A Harv. Bull. 891-2.
 N 13B 13A and 13B make up NGC 248 = Nail 19.
 N 18 Lies 20" northwest of bright star.
 N 19 Nail 26.
 N 22 Nail 28. Contains the cluster NGC 267.
 N 25 Nail 30.
 N 26 Harv. Bull. 891-5.
 N 30 Includes Nail 34.
 N 31 Probably the eastern member of close pair.
 N 32 Nail 41.
 N 33 Lies 30" northeast of bright star and 20" northwest of fainter star.
 N 34 Nail 42.
 N 35 Nail 45? Listed there as a "nebulous star." Shows unmistakable semicircle of nebulosity about central star on LH α plates.
 N 36 Nail 49.
 N 39 Somewhat doubtful.
 N 45 Nail 59.
 N 47 Possibly NGC 294.
 N 50 Possibly excited by HD 5291.
 N 52A Possibly Nail 75?
 N 52B Nail 75.
 N 53 Probably southwest member of close pair.
 N 57 Shows a strong diffuse continuum. Probably a nebulosity about a bright cluster. Not in the NGC.
 N 58 Includes Nail 88.
 N 62 Part of Nail 93.
 N 63 Nail 97.
 N 64 Part of Nail 93.
 N 64A Nail 99.
 N 66 NGC 346. Harv. Bull. 891-6. Nail 101. Excited by HD 5980.
 N 71. Nail 107.
 N 72 Nail 110.
 N 76 Nail 116. Contains the cluster NGC 371.
 N 78 Contains NGC 395 = Nail 128 and IC 1624 = Nail 129. IC 1624, although well visible on red direct plates, shows no H α emission on objective-prism plates.
 N 78A Part of Nail 128 which also includes 78B and 78D.
 N 78C Shows a strong continuum. Possibly two H α emission stars close together.
 N 81 IC 1644. Nail 136.
 N 80 Nail 137. Includes Nail 142, an object not visible on our plates.
 N 83 Nail 148. The "triangular group" referred to probably includes 83A, B and C. This group is possibly excited by HD 7583.
 N 83A NGC 456. Harv. Bull. 891-7.
 N 84 Includes Nail 151.
 N 84A NGC 460. Harv. Bull. 891-8.
 N 84B Harv. Bull. 891-9. Part of Nail 150. This is not NGC 460 as reported by Nail et al.
 N 84C Nail 149.
 N 90 NGC 356. Possibly excited by O star at $1^{\text{h}}28^{\text{m}}52^{\text{s}}$, $-73^{\circ}56'.1$ (1900)(Harv. Bull. 891).