| B.D.O. \# | Plates | a 1875 | ठ 1875 | a 2000 | ठ 2000 | Gal Long | Gal Lat | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 3 | 3h 25m 14s | +30 ${ }^{\circ} 44^{\prime}$ | 3h 32m 56s | +31* $10^{\prime}$ | $159^{\circ}$ | -20 ${ }^{\circ}$ | Large, indefinite, diam. $1 / 2^{\circ}$ |
| 2 | 3 | 3h 25m 44s | +31 ${ }^{\circ} 54^{\prime}$ | 3h 33m 30s | $+32^{\circ} 20^{\prime}$ | $159^{\circ}$ | -19 ${ }^{\circ}$ | Indefinite, elongated SE and NW, diam. 20' |
| 3 | 3 | 3h 32m 14s | +31 ${ }^{\circ} 34^{\prime}$ | 3h 40m 00s | $+31^{\circ} 59^{\prime}$ | $160^{\circ}$ | -19 ${ }^{\circ}$ | Irregular, dark space in nebula, diam. $20^{\prime}$, curved, bright strip of nebulosity in SW side |
| 4 | 3 | 3h 36m 14s | $+31^{\circ} 24^{\prime}$ | 3h 44m 01s | $+31^{\circ} 49^{\prime}$ | $161^{\circ}$ | $-18^{\circ}$ | Very large, indefinite |
| 5 | 3 | 3h 40m 00s | $+32^{\circ} 30^{\prime}$ | 3h 47m 51s | $+32^{\circ} 54$ | $161^{\circ}$ | $-17^{\circ}$ | Indefinite, elongated NE and SW diam. $1^{\circ}$, Eta Persei ( $\mathrm{BD}+32^{\circ} 667,5.8 \mathrm{mag}$ ) near NE side |
| 6 |  | 3h 46m 30s | +55 ${ }^{\circ} 45^{\prime}$ | 3h 56m 19s | $+56^{\circ} 08^{\prime}$ | $147^{\circ}$ | $+2^{\circ}$ | Round, indefinite |
| 7 | 5 | 4h 09m 40s | +28 ${ }^{\circ} 15^{\prime}$ | 4h 17m 24s | +28 ${ }^{\circ} 34^{\prime}$ | $169^{\circ}$ | $-16^{\circ}$ | Large, irregular, with brighter condensation (B 10) in SE part |
| 8 |  | 4h 07m 53s | $+54^{\circ} 56^{\prime}$ | 4h 17m 47s | +55 ${ }^{\circ} 16^{\prime}$ | $150^{\circ}$ | $+3^{\circ}$ | Center of a dark, irregular lane about $2^{\circ} .6$ long and $22^{\prime} \pm$ across, very much like the dark lanes E. of $\rho$ Ophiuchi |
| 9 |  | 4h 09m 00s | $+54^{\circ} 45^{\prime}$ | 4h 18m 53s | $+55^{\circ} 04^{\prime}$ | $150^{\circ}$ | $+3^{\circ}$ | Dark, irregular vacancy. This is the middle of a great vacancy extending east and west, the continuous part of which is $21 / 2^{\circ}$ long and about $1 / 2^{\circ}$ wide. It really extends in a more or less broken form for about $6^{\circ}$. There is a wide region extending south of it for a couple of degrees, nearly to the star $\mathrm{BD}+53^{\circ} 750$ ( 5.0 mag ) whose position is a $\alpha=4 \mathrm{~h} 6 \mathrm{~m} 58 \mathrm{~s}, \delta=+53^{\circ} 18^{\prime}$. To the east it breaks up into more or less separate spots, somewhat resembling those at the east end of the great lane from Rho Ophiuchi, but unlike that lane it does not originate in a larger vacant space or a nebula. Its borders are not so definite as the Rho Ophiuchi lane. It is approximately bounded by the coordinates $\alpha=3 \mathrm{~h} 58 \mathrm{~m}, \delta=+54^{\circ} .7$ and $\alpha=4 \mathrm{~h}$ $20 \mathrm{~m}, \delta=+54^{\circ} .8$. The individual positions of some of the spots are given in the catalogue. |
| 10 | 5 | 4h 10m 57s | $+27^{\circ} 58^{\prime}$ | 4h 18m 40s | $+28^{\circ} 17^{\prime}$ | $169^{\circ}$ | $-16^{\circ}$ | The brightest part of B 7, diam. about 8' |
| 11 |  | 4h 16m 37s | +54 ${ }^{\circ} 45^{\prime}$ | 4h 26m 34s | +55 ${ }^{\circ} 03^{\prime}$ | $151^{\circ}$ | $+4^{\circ}$ | East end of irregular lane, B 8 |
| 12 |  | 4h 19m 52s | +53 ${ }^{\circ} 58^{\prime}$ | 4h 29m 44s | +54 ${ }^{\circ} 16^{\prime}$ | $151^{\circ}$ | $+4^{\circ}$ | Isolated dark spot SE of B 11, diam. $24^{\prime}$, irregularly round with extension E from NE side |
| 13 |  | 4h 21m 17s | $+54^{\circ} 37^{\prime}$ | 4h 31m 15s | $+54^{\circ} 54$ | $151^{\circ}$ | $+5^{\circ}$ | Irregular, diam. 11', irregular darker inside with a rather sharp, short, narrow extension toward the S . |
| 14 | 5 | 4h 32m 20s | $+25^{\circ} 30^{\prime}$ | 4h 39m 58s | $+25^{\circ} 46$ | $174{ }^{\circ}$ | $-14^{\circ}$ | Very small, bright nebula, diam 3'. A bright spot in the dark nebula B 22. (Position given in Astrophysical Journal, 49, 14, 1919, in error by 10 m in $\alpha$.) |


| B.D.O. \# | Plates | a 1875 | ठ 1875 | a 2000 | ठ 2000 | Gal Long | Gal Lat | Description |
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| 15 |  | 4h 22m 50s | +46 ${ }^{\circ} 21^{\prime}$ | 4h 31m 54s | +46 $38^{\prime}$ | $157^{\circ}$ | -1 ${ }^{\circ}$ | Elliptical, diam. 10' x 15' slightly NW and SE. One of the finest examples of a dark object seen against the ordinary sky and away from the Milky Way. The background on which the stars shine is uniform over the entire plate. The object is in a region somewhat larger than itself, where there are relatively few stars, and is black by contrast with the sky alone. It clearly shows the presence of a feeble uniform luminosity in space which, from the appearance of similar objects in widely different parts of the sky, leads to the belief that this feeble illumination of distant space is universal. If this object were seen against the star clouds of the Milky Way it would appear strikingly black. |
| 16 |  | 4h 23m 20s | $+46^{\circ} 20^{\prime}$ | 4h 32m 24s | +46 ${ }^{\circ} 37{ }^{\prime}$ | $157^{\circ}$ | $-1^{\circ}$ | Very small, elongated N and S, close to SE edge of B 15 |
| 17 |  | 4h 23m 25s | $+46^{\circ} 15^{\prime}$ | 4h 32m 28s | +46 ${ }^{\circ} 32^{\prime}$ | $157^{\circ}$ | -1 ${ }^{\circ}$ | Very small, elongated N and S, close to E edge of B 15 |
| 18 | 5 | 4h 23m 40s | +24 ${ }^{\circ} 05^{\prime}$ | 4h 31m 12s | +24 ${ }^{\circ} 22^{\prime}$ | $174{ }^{\circ}$ | $-16^{\circ}$ | Diam. $1^{\circ}$, group of dark spots |
| 19 | 5 | 4h 26m 00s | $+26^{\circ} 00^{\prime}$ | 4h 33m 39s | +26 ${ }^{\circ} 17^{\prime}$ | $173^{\circ}$ | $-14^{\circ}$ | Large, indefinite, diam. $1^{\circ}$ |
| 20 |  | 4h 27m 30s | $+50^{\circ} 43^{\prime}$ | 4h 37m 02s | $+50^{\circ} 59^{\prime}$ | $155^{\circ}$ | $+3^{\circ}$ | In S part of larger, relatively vacant area nearly $1^{\circ}$ in diam. This is the dark object mentioned by Espin in Monthly Notices, 58, 334, 1898. It is close north to a small group of faint stars and is 6 ' or $8^{\prime}$ in diameter. In a somewhat larger vacant space. It is not so definite as B 15 . |
| 21 |  | 4h 27m 50s | +55 ${ }^{\circ} 06^{\prime}$ | 4h 37m 55s | +55 ${ }^{\circ} 22^{\prime}$ | $151^{\circ}$ | $+6^{\circ}$ | Indefinite, irregularly round, diam. 10' |
| 22 | 5 | 4h 31m 00s | $+25^{\circ} 48^{\prime}$ | 4h 38m 39s | +26 ${ }^{\circ} 04^{\prime}$ | $174{ }^{\circ}$ | $-14^{\circ}$ | Irregular, unequally dark, extended SE and NW, diam. $2^{\circ}$. This is a very large region of obscure nebulosity with several darker streaks in it tending northwest. It is partly separated from another starless region lying about $2^{\circ}$ to the west and north. Near the middle of the first of the SE regions is a small luminous nebula with a faint fanshaped extension for 10 to the northeast ( $B 14$ ). This is undoubtedly a brighter condensation of the great obscuring mass surrounding it. The position of this small nebula is $\alpha=4 \mathrm{~h} 32 \mathrm{~m} 20 \mathrm{~s}$, $\delta=+25^{\circ} 30^{\prime}$. |
| 23 | 5 | 4h 32m 40s | +29 ${ }^{\circ} 38^{\prime}$ | 4h 40m 32s | $+29^{\circ} 54$ | $171^{\circ}$ | $-11^{\circ}$ | Diam. $5^{\prime}$, sharply pointed to the SE, B.D. $+29^{\circ} 728$ (6.5 mag) in N part |
| 24 | 5 | 4h 35m 00s | +29 ${ }^{\circ} 30^{\prime}$ | 4h 42m 52s | +29 ${ }^{\circ} 45^{\prime}$ | $171^{\circ}$ | -11 ${ }^{\circ}$ | Diam. 8', sharply pointed to the S |
| 25 |  | 4h 42m 56s | $+45^{\circ} 48^{\prime}$ | 4h 52m 02s | +46 $02{ }^{\prime}$ | $160^{\circ}$ | $+1^{\circ}$ | Irregularly round, diam. 8', a good example of a dark or more or less starless region |
| 26 |  | 4h 46m 40s | $+30^{\circ} 25^{\prime}$ | 4h 54m 37s | $+30^{\circ} 38^{\prime}$ | $172^{\circ}$ | $-8^{\circ}$ | Irregular, diam. 5', B 26, 27, and 28 are close NW of B.D.+30741 ( 6.8 mag), which is involved in feeble nebulosity |
| 27 |  | 4h 47m 10s | $+30^{\circ} 21^{\prime}$ | 4h 55m 07s | $+30^{\circ} 34{ }^{\prime}$ | $172^{\circ}$ | $-8^{\circ}$ | Irregular, diam. 5' |
| 28 |  | 4h 47m 54s | $+30^{\circ} 26^{\prime}$ | 4h 55m 52s | $+30^{\circ} 39^{\prime}$ | $173^{\circ}$ | -8 ${ }^{\circ}$ | Irregular, diam. 4' |
| 29 |  | 4h 58m 20s | +31 ${ }^{\circ} 25^{\prime}$ | 5h 06m 23s | +31 $36^{\prime}$ | $173^{\circ}$ | $-6^{\circ}$ | Round, indefinite, diam. 10' |


| B.D.O. \# | Plates | a 1875 | $\delta 1875$ | a 2000 | $\delta 2000$ | Gal Long | Gal Lat | Description |
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| 30 | 6 | 5h 23m 15s | +12 ${ }^{\circ} 40^{\prime}$ | 5h 30m 16s | +12 ${ }^{\circ} 47$ | $192^{\circ}$ | -12 ${ }^{\circ}$ | Large dark area with few stars, diam. 67'. There is a nebulous border, $1 / 2^{\circ}$ wide, to the semi-vacant region extending $1^{\circ}$ east and north from BD $+12^{\circ} 803$ ( 7.0 mag ). Apparently this nebulous border extends many degrees east in a very diffused manner. There is a narrow dark lane extending south from the semi-vacant region, running close west of $B D+12^{\circ} 803$ to a point nearly $1^{\circ}$ due south of $\mathrm{BD}+12^{\circ} 801$ ( 6.9 mag ) There is a small fan-shaped nebula close north of a small star in the position $\alpha=5 \mathrm{~h} 24 \mathrm{~m} 30 \mathrm{~s}, \delta=+12^{\circ} 3^{\prime}$.9. A small strip of nebulosity extends 5 ' southwest from this star. These two nebulae are probably the brighter parts of a large obscure nebulosity. |
| 31 | 6 | 5h 25m 00s | $+12^{\circ} 40^{\prime}$ | 5h 32m 01s | $+12^{\circ} 46$ | $192^{\circ}$ | $-11^{\circ}$ | Diam. 30', extended NE and SW, the E and darkest part of B 30 |
| 32 | 6 | 5h 25m 08s | +12 ${ }^{\circ} 20^{\prime}$ | 5h 32m 08s | +12 ${ }^{\circ} 26^{\prime}$ | $193^{\circ}$ | -11 ${ }^{\circ}$ | Dark projection from S end of B 31 to the E |
| 33 |  | 5h 34m 36s | $-02^{\circ} 32^{\prime}$ | 5h 40m 53s | $-02^{\circ} 27^{\prime}$ | $20{ }^{\circ}$ | $-17^{\circ}$ | Dark mass, diam. 4', on nebulous strip extending $S$ from $\zeta$ Orionis (see Ap. J., 38, 500, 1913, and Plate XX) |
| 34 | 7 | 5h 35m 20s | +32 ${ }^{\circ} 35^{\prime}$ | 5h 43m 30s | +32 ${ }^{\circ} 39^{\prime}$ | $177^{\circ}$ | $+2^{\circ}$ | Round, starless, indefinite, diam. $20^{\prime}$ |
| 35 | 6 | 5h 38m 40s | +09 ${ }^{\circ} 00^{\prime}$ | 5h 45m 31s | +09 ${ }^{\circ} 04^{\prime}$ | $197^{\circ}$ | -10 ${ }^{\circ}$ | Elongated E and W, 20' x 10', with an extension SE, three small stars N of it |
| 36 | 6 | 5h 43m 00s | $+07^{\circ} 23^{\prime}$ | 5h 49m 46s | $+07^{\circ} 26$ | $199^{\circ}$ | $-10^{\circ}$ | Irregular narrow dark lane $2^{\circ}$ long, NE and SW. The NE end connects brokenly with B 35. Well shown on Plate 21, Lick Observatory Publications, 11, 1913. |
| 37 |  | 6h 26m 00s | +10 ${ }^{\circ} 34^{\prime}$ | 6h 32m 55s | $+10^{\circ} 29^{\prime}$ | $202^{\circ}$ | $+1^{\circ}$ | Irregular, semi-vacant region $21 / 2^{\circ}-3^{\circ}$ long. This region is abruptly terminated on the south side by the nebulosity extending north from 15 Monocerotis. Its west side ends abruptly in $\alpha=6 \mathrm{~h}$ $22 \mathrm{~m} 15 \mathrm{~s}, \delta=+12^{\circ} 26^{\prime}$. B 37, 38, and 39 are shown in Plates 28 and 29 (ibid.). |
| 38 |  | 6h 26m 45s | +11 ${ }^{\circ} 10^{\prime}$ | 6h 33m 42s | +11 ${ }^{\circ} 05^{\prime}$ | $201^{\circ}$ | $+1^{\circ}$ | Irregular vacancy, diam. $1^{\circ}$. This seems to refer to a portion of B 37 |
| 39 |  | 6h 31m 08s | $+10^{\circ} 26^{\prime}$ | 6h 38m 03s | $+10^{\circ} 20^{\prime}$ | $202^{\circ}$ | $+2^{\circ}$ | Small, sharply defined, elongated spot in the nebulosity NW of 15 Monocerotis |
| 40 | 12 | 16h 07m 24s | $-18^{\circ} 39^{\prime}$ | 16h 14m 38s | $-18^{\circ} 59^{\prime}$ | $356^{\circ}$ | $+23^{\circ}$ | Diffused dark spot, diam. 15', small star in it. This spot and B 41 are connected with the great nebula about Nu Scorpii and are doubtless denser opaque masses of the nebula. There is a larger dark region belonging to this same system in $\alpha=16 \mathrm{~h} 23 \mathrm{~m}, \quad \delta=$ $-19^{\circ} 30^{\prime}$ (B 43), from which broken dark lanes somewhat like those from Rho Ophiuchi, though less marked, run eastward for some degrees. |
| 41 | 12 | 16h 15m 00s | $-19^{\circ} 20^{\prime}$ | 16h 22m 17s | $-19^{\circ} 38^{\prime}$ | $356{ }^{\circ}$ | $+21^{\circ}$ | Diffused dark spot, diam. 3/4 ${ }^{\circ}$ |


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| 42 | 13 | 16h 18m 00s | $-23^{\circ} 09^{\prime}$ | 16h 25m 29s | $-23^{\circ} 27^{\prime}$ | $354{ }^{\circ}$ | +18 ${ }^{\circ}$ | Great nebula of $\rho$ Ophiuchi. This object is put in this list because, though not wholly dark, it is partly so, and the evident obscuration produced by it puts it in the class for which the catalogue is made. The semi-vacant region in which this, the great nebula of Rho Ophiuchi, lies is about $31 / 2^{\circ}$ in diameter. For references to the visual discovery and early observations of this strange region see Astronomische Nachrichten, 138, 211, 1895; Popular Astronomy, 5, 227, 1897; 14, 581, 1906; Lick Observatory Publications, 11, 19, 1913 and Plate 36. |
| 43 | 1314 | 16h 23m 00s | $-19^{\circ} 30^{\prime}$ | 16h 30m 18s | $-19^{\circ} 47^{\prime}$ | $357^{\circ}$ | +19 ${ }^{\circ}$ | Large dark region |
| 44 | 13141518 | 16h 33m 00s | $-23^{\circ} 50^{\prime}$ | 16h 40m 33s | $-24^{\circ} 05^{\prime}$ | $356{ }^{\circ}$ | +15 ${ }^{\circ}$ | Dark lane E from $\rho$ Ophiuchi region. This is the middle of the main part of the great vacant lane that runs east from the region of Rho Ophiuchi. It is about 32 ' wide and has its beginning in a vacant area in which is the star 22 Scorpii (CD- $24^{\circ} 12695,5.5 \mathrm{mag}$ ). It runs slightly northeast to about $\alpha=16 \mathrm{~h} 40 \mathrm{~m}, \delta=-23^{\circ} 40^{\prime}$. From this point it extends in a broken chain of dark spots to a little south of B 63. Its total length is therefore about $10^{\circ}$. |
| 44a | 16 | 16h 36m 08s | $-40^{\circ} 06^{\prime}$ | 16h 44m 44s | $-40^{\circ} 21^{\prime}$ | $344^{\circ}$ | $+3^{\circ}$ | Irregular, diam. 5', sharpest on SE side, CD-40ำ10662 (9.0 mag) close N. Apparently a real, dark object |
| 45 | 1314 | 16h 39m 00s | $-21^{\circ} 22^{\prime}$ | 16h 46m 26s | $-21^{\circ} 36^{\prime}$ | $358^{\circ}$ | +15 ${ }^{\circ}$ | Rather definite, $2^{\circ}$ long. Extended northeast and southwest with an irregular projection southwest that connects it with the Rho Ophiuchi region. This appears to be a real, dark object. |
| 46 | 14 | 16h 49m 42s | $-22^{\circ} 32^{\prime}$ | 16h 57m 12s | $-22^{\circ} 45^{\prime}$ | $359^{\circ}$ | +12 ${ }^{\circ}$ | Irregular, definite, a string of small stars in the middle |
| 47 | 14 | 16h 52m 12s | $-22^{\circ} 27^{\prime}$ | 16h 59m 42s | $-22^{\circ} 39^{\prime}$ | $359^{\circ}$ | +12 ${ }^{\circ}$ | Irregular, definite, diam. 15', connected with B 51 by two sharp lanes |
| 48 | 16 | 16h 53m 00s | $-40^{\circ} 30^{\prime}$ | 17h 01m 41s | $-40^{\circ} 42$ | $345^{\circ}$ | $+1^{\circ}$ | Fairly will defined, 40' long NE and SW, $15^{\prime} \mathrm{W}$ and N of CD-4011088 (8.0 mag), seems to be a real object |
| 49 | 17 | 16h 54m 30s | $-33^{\circ} 05^{\prime}$ | 17h 02m 39s | $-33^{\circ} 17^{\prime}$ | $351^{\circ}$ | $+5^{\circ}$ | Small, close SE of and involving CD-33 11668 (9.3 mag) |
| 50 | 1617 | 16h 54m 40s | $-34^{\circ} 12^{\prime}$ | 17h 02m 53s | $-34^{\circ} 24^{\prime}$ | $350^{\circ}$ | $+4^{\circ}$ | Large, irregular, dark space. This is an irregular square 15' in diameter, sharply defined on the east side and diffused on the west, where there are broken extensions for $1 / 2^{\circ}$. The star CD$34^{\circ} 11418$ ( 9.8 mag ) is near the middle. The stars CD$34^{\circ} 11422(9.8 \mathrm{mag})$ and $-34^{\circ} 11427(9.9 \mathrm{mag})$ are on the eastern border. |
| 51 | 1419 | 16h 57m 14s | $-22^{\circ} 05^{\prime}$ | 17h 04m 43s | $-22^{\circ} 16^{\prime}$ | $1^{\circ}$ | +11 ${ }^{\circ}$ | Definite, diam. 20'. One of a straggling group toward the eastern end of the dark lane from Rho Ophiuchi. Two irregular, dark lanes run west from it to B 47. |
| 52 |  |  |  |  |  |  |  | This Dark Object number is NOT included in The Photographic Atlas of Selected Regions of the Milky Way |
| 53 | 17 | 16h 58m 00s | $-33^{\circ} 25^{\prime}$ | 17h 06m 10s | $-33^{\circ} 36$ | $351^{\circ}$ | $+4^{\circ}$ | Large, diffuse, extended N and $\mathrm{S} 1 / 2^{\circ}$, curved toward the E and N end |
| 54 | 17 | 16h 58m 20s | $-34^{\circ} 05^{\prime}$ | 17h 06m 33s | $-34^{\circ} 16^{\prime}$ | $351^{\circ}$ | $+4^{\circ}$ | Small, round, diam. 5', close S of 11 mag. star |
| 55 | 151718 | 16h 59m 28s | $-31^{\circ} 50$ | 17h 07m 32s | $-32^{\circ} 01^{\prime}$ | $353^{\circ}$ | $+5^{\circ}$ | Irregular, diam. $16^{\prime}$, best defined SE, CD-31¹13582 (8.9 mag) near the center |


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| 56 | 151718 | 17h 00m 43s | $-31^{\circ} 56^{\prime}$ | 17h 08m 48s | $-32^{\circ} 07^{\prime}$ | $353^{\circ}$ | $+5^{\circ}$ | Small, diam. 3', close E of CD-31¹3609 (9.0 mag). This seems to be a real object |
| 57 | 14181920 | 17h 00m 50s | $-22^{\circ} 40^{\prime}$ | 17h 08m 22s | $-22^{\circ} 51^{\prime}$ | $1^{\circ}$ | $+10^{\circ}$ | Diam. 5', elongated NE and SW |
| 58 | 16 | 17h 02m 30s | $-40^{\circ} 15^{\prime}$ | 17h 11m 11s | $-40^{\circ} 25^{\prime}$ | $347^{\circ}$ | $+0^{\circ}$ | Diam. 30', slightly extended N and S, a darker core at NE side |
| 59 | 15182021 | 17h 03m 35s | $-27^{\circ} 20^{\prime}$ | 17h 11m 23s | $-27^{\circ} 30^{\prime}$ | $357^{\circ}$ | $+7^{\circ}$ | Sink hole, diam $1^{\circ}$, at the W end of a wide broken lane from B 78 |
| 60 | 141920 | 17h 04m 20s | $-22^{\circ} 17^{\prime}$ | 17h 11m 51s | $-22^{\circ} 27{ }^{\prime}$ | $1^{\circ}$ | +10 ${ }^{\circ}$ | Curved, 13' long, extended NE and SW, this and B 57 are the most distinct of a group of dark spots SW of the square end of B 63. Apparently a real object. |
| 61 | 1920 | 17h 07m 35s | $-20^{\circ} 20^{\prime}$ | 17h 15m 00s | $-20^{\circ} 29^{\prime}$ | $3^{\circ}$ | $+10^{\circ}$ | Small, elongated E and W |
| 62 | 1920 | 17h 08m 46s | $-20^{\circ} 44^{\prime}$ | 17h 16m 12s | $-20^{\circ} 53^{\prime}$ | $3^{\circ}$ | +10 ${ }^{\circ}$ | Diam. 19', very black in NW part, brightest of three stars in S part = BD-204696 (9.4 mag) |
| 63 | 141920 | 17h 09m 00s | $-21^{\circ} 20^{\prime}$ | 17h 16m 28s | $-21^{\circ} 29^{\prime}$ | $3^{\circ}$ | $+10^{\circ}$ | Large, definite, curved figure, convex to N , the W end abrupt, $1^{\circ} 37^{\prime}$ E and W, 19' wide |
| 64 | 19 | 17h 10m 00s | $-18^{\circ} 21^{\prime}$ | 17h 17m 18s | $-18^{\circ} 30$ | $5^{\circ}$ | +11 ${ }^{\circ}$ | Cometary, W of M 9. This object is somewhat cometary in form and has a very black core or head that sharply abuts against the thick stratum of stars; from this it spreads out into a large dark area with much dark detail, filling quite a space close southwest of M 9 . It thus resembles a dark comet with a dense and well-defined head and diffused widening tail. The position of the head is $\alpha=17 \mathrm{~h} 9 \mathrm{~m}$ $57 \mathrm{~s}, \delta=-18^{\circ} 20^{\prime} .6$. |
| 65 | 182021 | 17h 11m 50s | $-26^{\circ} 34^{\prime}$ | 17h 19m 36s | $-26^{\circ} 43^{\prime}$ | $359^{\circ}$ | $+6^{\circ}$ | Definite, elongated, 12' E and W |
| 66 | 182021 | 17h 12m 10s | $-26^{\circ} 46^{\prime}$ | 17h 19m 57s | $-26^{\circ} 55^{\prime}$ | $359^{\circ}$ | $+6^{\circ}$ | Definite, extended E and W, 8' long, CD-26º12082 (8.7 mag) 5' from SE edge |
| 67 | 182021 | 17h 13m 10s | $-26^{\circ} 44^{\prime}$ | 17h 20m 57s | $-26^{\circ} 52^{\prime}$ | $359^{\circ}$ | $+6^{\circ}$ | Definite, extended N and S, connects B 65 and 66 |
| 67a | 192021 | 17h 15m 00s | $-21^{\circ} 46^{\prime}$ | 17h 22m 30s | $-21^{\circ} 54^{\prime}$ | $3^{\circ}$ | $+8^{\circ}$ | Irregular, definite, diam. 13', BD-214591 (9.5 mag) in spot, near SE edge |
| 68 | 18192021 | 17h 15m 00s | $-23^{\circ} 40^{\prime}$ | 17h 22m 36s | $-23^{\circ} 48^{\prime}$ | $2^{\circ}$ | $+7^{\circ}$ | Small, irregular, sharply defined, diam. 4', about 20' SW of B 72 |
| 69 | 18192021 | 17h 15m 19s | $-23^{\circ} 48^{\prime}$ | 17h 22m 56s | $-23^{\circ} 56^{\prime}$ | $2^{\circ}$ | $+7^{\circ}$ | Very small, irregular, sharply defined, extends N and S 4' |
| 70 | 18192021 | 17h 15m 55s | $-23^{\circ} 55^{\prime}$ | 17h 23m 32s | $-24^{\circ} 03^{\prime}$ | $2^{\circ}$ | $+7^{\circ}$ | Diam. 4', sharply defined on W side |
| 71 | 18192021 | 17h 15m 25s | $-23^{\circ} 53^{\prime}$ | 17h 23m 02s | $-24^{\circ} 01^{\prime}$ | $1^{\circ}$ | $+7^{\circ}$ | Very small, diam. 1 1/4 ${ }^{\prime} \pm$ |
| 72 | 18192021 | 17h 16m 00s | $-23^{\circ} 30^{\prime}$ | 17h 23m 36s | $-23^{\circ} 38^{\prime}$ | $2^{\circ}$ | $+7^{\circ}$ | S-shaped. This is a striking object. It is a thin, curved black marking, the exact form of the letter $S$ or the figure 5 , as the imagination or point of view may dictate. The southeast branch runs east for some distance passing close south of the star CD$23^{\circ} 13375$ ( 9.1 mag). Its average thickness is about $2^{\prime}-3^{\prime}$. The position in the catalogue is for the southern part of the figure, or the bottom of the S (see Astrophysical Journal, 49, 1919, Plate III). |
| 73 | 18192021 | 17h 16m 30s | $-24^{\circ} 10^{\prime}$ | 17h 24m 08s | $-24^{\circ} 18^{\prime}$ | $1^{\circ}$ | $+7^{\circ}$ | very small, diam. 1', extended N and S |
| 74 | 18192021 | 17h 17m 30s | $-24^{\circ} 05^{\prime}$ | 17h 25m 08s | $-24^{\circ} 13^{\prime}$ | $2^{\circ}$ | $+6^{\circ}$ | Slightly curved, extending $5^{\prime} \mathrm{N}$ from CD-24 13325 (7.1 mag). Sharpest on W and S sides |
| 75 | 192021 | 17h 17m 47s | $-21^{\circ} 55^{\prime}$ | 17h 25m 17s | $-22^{\circ} 03^{\prime}$ | $3^{\circ}$ | $+8^{\circ}$ | Curved and scalloped marking, BD-2104598 (8.3 mag) on N edge (see Ap.J., 49, Plate II, 1919) |
| 76 | 18192021 | 17h 18m 00s | $-24^{\circ} 18^{\prime}$ | 17h 25m 38s | $-24^{\circ} 26^{\prime}$ | $1^{\circ}$ | $+6^{\circ}$ | Irregular, narrow, black stip, $1 / 2^{\circ}$ Iong E and W |


| B.D.O. \# | Plates | 人 1875 | ठ 1875 | a 2000 | ठ 2000 | Gal Long | Gal Lat | Description |
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| 77 | 18192021 | 17h 21m 00s | -23 ${ }^{\circ} 45^{\prime}$ | 17h 28m 37s | -23 ${ }^{\circ} 52^{\prime}$ | $2^{\circ}$ | +6 ${ }^{\circ}$ | Indefinite, diam. $1^{\circ}$, connected by a cacant strip with B 78 |
| 78 | 18192021 | 17h 25m 00s | $-25^{\circ} 30^{\prime}$ | 17h 32m 43s | $-25^{\circ} 36^{\prime}$ | $1^{\circ}$ | $+4^{\circ}$ | Very large, diam. $3^{\circ}, \mathrm{CD}-26^{\circ} 12152$ (6.2 mag) S of the middle. This vacant region, with its extension to the west running south of Theta Ophiuchi, is visible to the naked eye (see Popular Astronomy, 14, 580 1906.) |
| 79 | 2325 | 17h 30m 00s | $-19^{\circ} 32^{\prime}$ | 17h 37m 23s | -19 ${ }^{\circ} 37^{\prime}$ | $7^{\circ}$ | $+6^{\circ}$ | $1 / 2^{\circ}$ long SE and NW, narrow, sharply defined |
| 80 | 2023 | 17h 30m 14s | $-21^{\circ} 12^{\prime}$ | 17h 37m 42s | $-21^{\circ} 17^{\prime}$ | $6^{\circ}$ | $+6^{\circ}$ | Small, definite, $3^{\prime} \times 1^{\prime}$, SW and NE, close SE of BD-21 $4674 \quad$ (8.1 mag) |
| 81 | 202123 | 17h 30m 55s | $-23^{\circ} 51^{\prime}$ | 17h 38m 33s | $-23^{\circ} 56$ | $3^{\circ}$ | $+4^{\circ}$ | Very small, diffused, close SW of N.G.C. 6401 |
| 82 | 202123 | $17 \mathrm{~h} 31 \mathrm{~m} \mathrm{00s}$ | $-23^{\circ} 42^{\prime}$ | 17h 38m 37s | $-23^{\circ} 47^{\prime}$ | $4^{\circ}$ | $+4^{\circ}$ | Small, angular, well defined, 8' N of N.G.C 6401 |
| 83 | 202123 | 17h 31m 20s | $-24^{\circ} 06^{\prime}$ | 17h 38m 58s | $-24^{\circ} 11^{\prime}$ | $3^{\circ}$ | $+4^{\circ}$ | Irregular, diam. $7^{\prime}$, several small stars in it, narrow extension to the S |
| 83a | 2325 | 17h 37m 54s | $-19^{\circ} 57^{\prime}$ | 17h 45m 19s | $-20^{\circ} 01^{\prime}$ | $8^{\circ}$ | $+5^{\circ}$ | Small, definite, diam. $4^{\prime}, \mathrm{N}$ and S , about $5^{\prime}$ SE of BD-19 4698 $(9.5 \mathrm{mag})$ |
| 84 | 2325 | 17h 39m 00s | $-20^{\circ} 12^{\prime}$ | 17h 46m 25s | $-20^{\circ} 16^{\prime}$ | $8^{\circ}$ | $+4^{\circ}$ | Irregular looped figure, sharply defined, 22' long E and W, extension from it 20' toward the NW. BD-204865 (8.2 mag) near west end and BD-204869 (9.1 mag) near east end (see Astrophysical Journal, Plate II). |
| 84a | 25 | 17h 50m 20s | $-17^{\circ} 39^{\prime}$ | 17h 57m 37s | $-17^{\circ} 41^{\prime}$ | $11^{\circ}$ | $+3^{\circ}$ | Round, diam. $16^{\prime}$, with extension $3 / 4^{\circ} \mathrm{S}, \mathrm{BD}-17^{\circ} 4967$ ( 9.1 mag ) in center, perhaps some detail in it |
| 85 | 2930 | 17h 54m 50s | $-23^{\circ} 01^{\prime}$ | 18h 02m 25s | $-23^{\circ} 02^{\prime}$ | $7^{\circ}$ | $+0^{\circ}$ | Trifid nebula. This is the southern part of the Trifid nebula, NGC 6514. The dark markings in this nebula are too well known to insert in this catalogue. |
| 86 | 262730 | 17h 55m 09s | $-27^{\circ} 52^{\prime}$ | 18h 03m 02s | $-27^{\circ} 53^{\prime}$ | $3^{\circ}$ | $-3^{\circ}$ | Diam. 5', several small stars in it, the cluster N.G.C. 6520 close E, CD-27 12302 ( 7.4 mag ) on NW edge. For the visual discovery of this object see Astronomische Nachrichten 108, 370, 1884. |
| 87 | 24262728 | 17h 56m 00s | $-32^{\circ} 30^{\prime}$ | 18h 04m 11s | $-32^{\circ} 31^{\prime}$ | $359^{\circ}$ | $-5^{\circ}$ | "Parrot's Head", CD-32ำ13679 (9.3 mag) central, several smaller stars in it. CD-32¹3666 (9.6 mag) on northwest edge. CD$32^{\circ} 13687$ ( 9.6 mag ) on the southeast edge. |
| 88 | 2930 | 17h 56m 56s | $-24^{\circ} 07^{\prime}$ | 18h 04m 35s | $-24^{\circ} 08^{\prime}$ | $6^{\circ}$ | $-1^{\circ}$ | Extended N and $\mathrm{S}, 2^{\prime} .7 \times 0^{\prime} .5$, in M 8 . There are other well-known markings in this nebula. This one and B 89 are given as illustrations of dark markings in the sky shown in a relief against a nebulous or other luminous background. In this case these may be non-luminous opaque parts of the nebula itself. |
| 89 | 2930 | 17h 57m 20s | $-24^{\circ} 22^{\prime}$ | 18h 05m 00s | $-24^{\circ} 22{ }^{\prime}$ | $6^{\circ}$ | $-1^{\circ}$ | Very small, diam. 0'.5, in M 8 |
| 90 | 262730 | 18h 02m 30s | $-28^{\circ} 18^{\prime}$ | 18h 10m 24s | $-28^{\circ} 18^{\prime}$ | $3^{\circ}$ | $-4^{\circ}$ | Irregular, elongated, $3^{\prime} \mathrm{N}$ and S . In an irregular dusky space $13^{\prime}$ in diameter. There are many similar dark spots in this region, but this one is perhaps the most distinct and is fairly characteristic of the others. |
| 91 | 2930 | 18h 02m 30s | $-23^{\circ} 43^{\prime}$ | 18h 10m 08s | $-23^{\circ} 43^{\prime}$ | $7^{\circ}$ | $-2^{\circ}$ | Diam. 5', edge of diffused nebulosity. This is a round, sharply defined, dark bay in the east side of a very diffused nebulosity which extends east from M 8. Photographs on July 26 and 27, 1905, show the planet Uranus in this bay. It was nearly central in the bay on July 27. |


| B.D.O. \# | Plates | a 1875 | ठ 1875 | a 2000 | $\delta 2000$ | Gal Long | Gal Lat | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 92 | 2529313234 | 18h 08m 16s | $-18^{\circ} 16^{\prime}$ | 18h 15m 35s | $-18^{\circ} 14^{\prime}$ | $13^{\circ}$ | $-1^{\circ}$ | Black spot, $15^{\prime} \mathrm{N}$ and S, 9' E and W. This black spot, known to me in my early days of comet seeking, is very sharply defined on its east edge but less definite on the west. There is a twelfthmagnitude star near the middle with several other small stars (see ibid., $38,496,1913$, Plate XX, for an account of this remarkable object). |
| 93 | 29313234 | 18h 09m 35s | $-18^{\circ} 06^{\prime}$ | 18h 16m 54s | $-18^{\circ} 04{ }^{\prime}$ | $13^{\circ}$ | $-1^{\circ}$ | Cometary, a sharply defined black head 2' in diam., with a diffused tail $15^{\prime}$ long running S, 20' NE of B 92 |
| 94 | 3435 | 18h 18m 58s | $-10^{\circ} 44^{\prime}$ | 18h 25m 54s | $-10^{\circ} 41^{\prime}$ | $21^{\circ}$ | $+1^{\circ}$ | Roundish, diam. 15', indefinite |
| 95 | 3435 | 18h 18m 37s | $-11^{\circ} 49^{\prime}$ | 18h 25m 36s | $-11^{\circ} 46^{\prime}$ | $20^{\circ}$ | $+0^{\circ}$ | Large, indefinite, diam. 30', elongated |
| 96 | 3435 | 18h 19m 30s | $-10^{\circ} 22^{\prime}$ | 18h 26m 25s | $-10^{\circ} 18^{\prime}$ | $21^{\circ}$ | $+1^{\circ}$ | Small, indefinite, elongated E and W |
| 97 | 35 | 18h 22m 12s | $-10^{\circ} 00^{\prime}$ | 18h 29m 06s | $-09^{\circ} 56$ | $22^{\circ}$ | $+0^{\circ}$ | Irregular, not very definite, diam. $1^{\circ}$ |
| 98 | 33 | 18h 25m 31s | $-26^{\circ} 09^{\prime}$ | 18h 33m 17s | $-26^{\circ} 04^{\prime}$ | $8^{\circ}$ | -8 ${ }^{\circ}$ | Very small, black, sharply defined, diam 3'. This object looks like a dark planetary nebula. CD-26 ${ }^{\circ} 13264$ (10 mag) is about 4' northwest, and CD-26ำ13262 (8.6 mag) about 10' southwest of the spot (see ibid., 31, 12, 13, 1910; 49, 1919, Plate IV). |
| 99 | 32 | 18h 25m 48s | $-21^{\circ} 34^{\prime}$ | 18h 33m 18s | $-21^{\circ} 29$ | $12^{\circ}$ | $-6^{\circ}$ | Definite, $11^{\prime}$ long E and W, $3^{\prime}$ wide, E end is the larger, with a faint star in it |
| 100 | 3537 | 18h 25m 50s | $-09^{\circ} 14^{\prime}$ | 18h 32m 41s | $-09^{\circ} 09^{\prime}$ | $23^{\circ}$ | $+0^{\circ}$ | Definite, irregular, curved, $16^{\prime}$ long NW and SE. Larger at east end. A small star in the southeast edge; BD-94761 (9.0 mag) at northwest end. |
| 101 | 3537 | 18h 25m 50s | $-08^{\circ} 54^{\prime}$ | 18h 32m 40s | $-08^{\circ} 49^{\prime}$ | $23^{\circ}$ | $+0^{\circ}$ | Definite, irregular, $13^{\prime}$ long NE and SW, 4' wide, separated from B 100 by a scattering of small stars |
| 102 | 3435 | 18h 30m 37s | $-13^{\circ} 51^{\prime}$ | 18h 37m 42s | $-13^{\circ} 45^{\prime}$ | $19^{\circ}$ | $-3^{\circ}$ | Rather definite, elongated NE and SW, 8' $\times 3{ }^{\prime}$ |
| 103 | 3637 | 18h 32m 42s | $-06^{\circ} 47^{\prime}$ | 18h 39m 26s | $-06^{\circ} 41^{\prime}$ | $26^{\circ}$ | $+0^{\circ}$ | Irregular, diam. 4', one small star in it. Apparently a real object, the south of several dark markings covering a space 45 ' in diameter. They form a notched outline to the northwest side of the large star cloud in Scutum. |
| 104 | 363738 | 18h 40m 42s | $-04^{\circ} 40^{\prime}$ | 18h 47m 20s | $-04^{\circ} 33^{\prime}$ | $28^{\circ}$ | $-1^{\circ}$ | Small, definite, caret-shaped object. This consists of a narrow straight black line 16' north and south, with a narrow spur at the south end extending west and north for $5^{\prime}$. The width of these lines is about 0'. 7 |
| 105 | 3637 | 18h 41m 00s | $-07^{\circ} 03^{\prime}$ | 18h 47m 45s | $-06^{\circ} 56$ | $26^{\circ}$ | $-2^{\circ}$ | Very small, diam. 1/2', close NE of BD-7 4710 (8.9 mag) |
| 106 | 363739 | 18h 42m 11s | $-05^{\circ} 13^{\prime}$ | 18h 48m 50s | $-05^{\circ} 05^{\prime}$ | $28^{\circ}$ | -2 ${ }^{\circ}$ | Diam. 2', extended N and S, free of stars |
| 107 | 363739 | 18h 42m 52s | $-05^{\circ} 09^{\prime}$ | 18h 49m 31s | $-05^{\circ} 01^{\prime}$ | $28^{\circ}$ | -2 ${ }^{\circ}$ | Irregular, diam. 5', free of stars |
| 108 | 363739 | 18h 42m 52s | $-06^{\circ} 27^{\prime}$ | 18h 49m 35s | -06º $19^{\prime}$ | $27^{\circ}$ | -2 ${ }^{\circ}$ | Very small, diam. 3', not black, two narrow diverging lanes extending to the N , some small stars in it |
| 109 | 363739 | 18h 42m 50s | $-07^{\circ} 42^{\prime}$ | 18h 49m 36s | $-07^{\circ} 34^{\prime}$ | $26^{\circ}$ | $-3^{\circ}$ | Irregular, diam. $0^{\prime} .7$, close E of BD-7${ }^{\circ} 4726$ (8.0 mag) |
| 110 | 36373839 | 18h 43m 30s | $-04^{\circ} 56^{\prime}$ | 18h 50m 08s | -04 ${ }^{\circ} 48^{\prime}$ | $29^{\circ}$ | -2 ${ }^{\circ}$ | Irregular, diam. 11', free of stars, a small star near the W edge |
| 111 | 36373839 | 18h 44m 00s | $-05^{\circ} 06^{\prime}$ | 18h 50m 39s | $-04^{\circ} 58^{\prime}$ | $28^{\circ}$ | $-2^{\circ}$ | Region $2^{\circ}$ in diam., full of dark structures. This is a beautiful region of dark structures, to the east of 6 Aquilae (BD-4ํ $4582,4.5 \mathrm{mag}$ ) and north of the cluster M 11. It forms a wide crescent, with the convex side to the west. To the east it is irregular and broken. The stars BD- $5^{\circ} 4775$ (8.3 mag) and $-5^{\circ} 4778$ ( 8.4 mag ) are near the middle of this region. |


| B.D.O. \# | Plates | a 1875 | ठ 1875 | a 2000 | ठ 2000 | Gal Long | Gal Lat | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 112 | 363739 | 18h 44m 25s | -06 ${ }^{\circ} 49^{\prime}$ | 18h 51m 09s | -06 ${ }^{\circ} 41^{\prime}$ | $27^{\circ}$ | -3 ${ }^{\circ}$ | Diffused dark region, diam. $18^{\prime} \pm$, perhaps due to want of stars |
| 113 | 36373839 | 18h 44m 48s | $-04^{\circ} 28^{\prime}$ | 18h 51m 25s | $-04^{\circ} 20^{\prime}$ | $29^{\circ}$ | -2 ${ }^{\circ}$ | Irregular, diam. 16', small star in W part |
| 114 | 363739 | 18h 46m 27s | $-07^{\circ} 06^{\prime}$ | 18h 53m 12s | $-06^{\circ} 58^{\prime}$ | $27^{\circ}$ | $-4^{\circ}$ | Diam. $6^{\prime}$, BD-7 4754 (9.2 mag) near middle, BD-7 4755 ( 9.1 mag ) on S edge |
| 115 | 363739 | 18h 46m 36s | $-06^{\circ} 49^{\prime}$ | 18h 53m 20s | $-06^{\circ} 41^{\prime}$ | $27^{\circ}$ | $-3^{\circ}$ | Very small and black. Very narrow, running north and south for 7'; width 1'.4. It is in a small vacant region (see ibid., pp. 7-9, for visual observations of B 115, 117 and 118). |
| 116 | 363739 | 18h 46m 48s | $-07^{\circ} 20^{\prime}$ | 18h 53m 33s | $-07^{\circ} 12^{\prime}$ | $27^{\circ}$ | $-4^{\circ}$ | Narrow, semi-vacant region extending 20' S from BD-704755 (9.1 mag) |
| 117 | 363739 | 18h 46m 58s | $-07^{\circ} 34^{\prime}$ | 18h 53m 44s | $-07^{\circ} 26^{\prime}$ | $27^{\circ}$ | $-4^{\circ}$ | Round, very black, diam. 1', sharply defined. This is at the south end of a larger dark region ( $B$ 116) with dark lanes running to the north and northeast. It is separated from B 118 by several very small stars. |
| 117a | 363739 | 18h 47m 04s | $-05^{\circ} 00^{\prime}$ | 18h 53m 43s | $-04^{\circ} 51^{\prime}$ | $29^{\circ}$ | -3 ${ }^{\circ}$ | Black, irregular, diam. ${ }^{\prime}$ |
| 118 | 363739 | 18h 47m 10s | $-07^{\circ} 36^{\prime}$ | 18h 53m 56s | $-07^{\circ} 27^{\prime}$ | $27^{\circ}$ | -4 ${ }^{\circ}$ | Definite, diam. 2', more definite and blacker than B 117 |
| 119 | 36373839 | 18h 47m 59s | -04* $42^{\prime}$ | 18h 54m 37s | -04* $33^{\prime}$ | $29^{\circ}$ | $-3^{\circ}$ | Very small, close NW of BD-44623 (9.2 mag) |
| 119a | 363739 | 18h 48m 00s | $-05^{\circ} 20^{\prime}$ | 18h 54m 40s | $-05^{\circ} 11^{\prime}$ | $29^{\circ}$ | $-3^{\circ}$ | Irregular dark region, diam. $1 / 2^{\circ}$, liberally sprinkled with stars in its NW half, several narrow dark lanes in SE part |
| 120 | 36373839 | 18h 48m 16s | $-04^{\circ} 45^{\prime}$ | 18h 54m 54s | $-04^{\circ} 36^{\prime}$ | $29^{\circ}$ | $-3^{\circ}$ | Very small, close SE of BD-4ㄴ4623 (9.2 mag), E side bounded by a curve of very small stars |
| 121 | 36373839 | 18h 48m 48s | $-04^{\circ} 46^{\prime}$ | 18h 55m 26s | $-04^{\circ} 37^{\prime}$ | $29^{\circ}$ | $-3^{\circ}$ | Small dusky spot, 12 mag. Star in center |
| 122 | 36373839 | 18h 50m 11s | $-04^{\circ} 55^{\prime}$ | 18h 56m 49s | $-04^{\circ} 46^{\prime}$ | $29^{\circ}$ | $-3^{\circ}$ | Small, diam. 4', narrow extension 4' N. Round, small, and black. The entire object is fairly well defined and uniformly dark. There is a small star 4' to the northeast. |
| 123 | 36373839 | 18h 51m 02s | $-04^{\circ} 53^{\prime}$ | 18h 57m 40s | $-04^{\circ} 44^{\prime}$ | $29^{\circ}$ | $-4^{\circ}$ | Roundish, diam. 1 1/2', a narrow spur 4' - 5' long from its NE edge, a narrow lane $18^{\prime}$ long and $11 / 2^{\prime}$ wide from its $W$ |
| 124 | 36373839 | 18h 51m 05s | -04 ${ }^{\circ} 31^{\prime}$ | 18h 57m 42s | $-04^{\circ} 22^{\prime}$ | $30^{\circ}$ | $-3^{\circ}$ | Small dark spot, diam. 3' |
| 125 | 36373839 | 18h 51m 45s | $-04^{\circ} 33^{\prime}$ | 18h 58m 22s | $-04^{\circ} 24^{\prime}$ | $30^{\circ}$ | $-4^{\circ}$ | Dark, lune shaped, $9^{\prime} \mathrm{E}$ and W , fairly well defined on N border, some faint stars in it |
| 126 | 36373839 | 18h 52m 25s | $-04^{\circ} 42^{\prime}$ | 18h 59m 03s | $-04^{\circ} 33^{\prime}$ | $30^{\circ}$ | $-4^{\circ}$ | Dusky, round, rather definite, diam. 8'. An irregular narrow dark streak extends 9 ' to the northeast; another from its south side runs <br>  |
| 127 | 363739 | 18h 54m 52s | $-05^{\circ} 37^{\prime}$ | 19h 01m 32s | $-05^{\circ} 27^{\prime}$ | $29^{\circ}$ | $-5^{\circ}$ | Irregular, diam. 4 1/2'. Very black in its southeast portion, diffused on the west side. B 127, 129, and 130 are connected in an irregular curve, convex to the west (see ibid., p. 7, and Plate IV for an account of visual observations, and a photograph of this object and of B 129). |
| 128 | 36373839 | 18h 55m 03s | $-04^{\circ} 45^{\prime}$ | 19h 01m 41s | $-04^{\circ} 35^{\prime}$ | $30^{\circ}$ | $-4^{\circ}$ | Irregular, dusky, fairly well defined, diam. 10'. A narrow extension 13' long from the northeast side. A small star close southwest of it. This is in a larger vacant region. |
| 129 | 3739 | 18h 55m 25s | $-05^{\circ} 29^{\prime}$ | 19h 02m 05s | $-05^{\circ} 19^{\prime}$ | $29^{\circ}$ | $-5^{\circ}$ | Very black, sharply defined, diam. 5', a small star at the W end. Somewhat rectangular in form with projections to the east. It is the blacker portion of a dark region 10' in diameter. |
| 130 | 37 | 18h 55m 16s | $-05^{\circ} 45^{\prime}$ | 19h 01m 57s | $-05^{\circ} 35^{\prime}$ | $29^{\circ}$ | $-5^{\circ}$ | Dusky, not well defined, length 7' |


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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 131 | 373839 | 18h 55m 39s | $-04^{\circ} 33^{\prime}$ | 19h 02m 16s | $-04^{\circ} 23^{\prime}$ | $30^{\circ}$ | $-4^{\circ}$ | Black spot, about 2' x 4'. This is a very small back spot with a small star on the north border and another on the south; a fine curve of six or seven very small stars runs northwest from its north edge. It is located at the northeast end of the narrow extension from B 128. |
| 132 | 373839 | 18h 57m 51s | $-04^{\circ} 37^{\prime}$ | 19h 04m 28s | $-04^{\circ} 27{ }^{\prime}$ | $31^{\circ}$ | $-5^{\circ}$ | Dark, fairly well defined. Tadpole shaped; 16' long east and west. Diameter of the larger (east) part 8', with BD-404680 (9.0 mag) in center. |
| 133 | 3739 | 18h 59m 29s | $-07^{\circ} 05^{\prime}$ | 19h 06m 13s | $-06^{\circ} 54^{\prime}$ | $29^{\circ}$ | $-6^{\circ}$ | Cometary, close W of BD-704852 (9.2 mag). This object begins very closely west of BD-704852 (9.2 mag). From this it gradually widens and curves north like a plume, with the convex side west, to a distance of about 18'. The south end is intensely black. The northern part is dark with four or five small stars in it (see ibid. pp. 7, 11, and Plate IV). |
| 134 | 3739 | 19h 11m 00s | $-06^{\circ} 26^{\prime}$ | 19h 17m 42s | $-06^{\circ} 13^{\prime}$ | $30^{\circ}$ | $-9^{\circ}$ | Round, diam. 6', dark but not sharply defined, a small star on S edge, a similar one on N edge |
| 135 | 373839 | 19h 00m 57s | $-04^{\circ} 07^{\prime}$ | 19h 07m 33s | $-03^{\circ} 56$ | $31^{\circ}$ | $-5^{\circ}$ | Dusky spot, diam. 13', BD-4 $4698(9.2 \mathrm{mag})$ on N border, $\quad$ BD- $4^{\circ} 4702$ ( 9.2 mag ) on SE edge |
| 136 | 373839 | 19h 02m 14s | -04* $12^{\prime}$ | 19h 08m 50s | $-04^{\circ} 01^{\prime}$ | $31^{\circ}$ | -6 ${ }^{\circ}$ | Dusky spot, diam. 8', 10 mag. star near middle |
| 137 | 3940 | 19h 09m 32s | $-01^{\circ} 33^{\prime}$ | 19h 16m 01s | $-01^{\circ} 21^{\prime}$ | $35^{\circ}$ | -6 ${ }^{\circ}$ | Projection near S end of B 138 |
| 138 | 3840 | 19h 10m 00s | $-00^{\circ} 00^{\prime}$ | 19h 16m 24s | $-00^{\circ} 13^{\prime}$ | $36^{\circ}$ | $-5^{\circ}$ | Great curved, semi-vacant lane over $3^{\circ}$ in length. This great curved "lane" extends from about $\alpha=19 \mathrm{~h} 12 \mathrm{~m}, \delta=-1^{\circ} .6$, its concave side to the east. Perhaps its most striking feature is the definiteness of its eastern outline. To the west it is less definite, and in the southern half it consists of dark branching structures which blend into a part of the Milky Way relatively dimmer than that to the east. The stars embraced by the curve to the east are much brighter or coarser than those to the west. The southern end terminates in the small black spot, B 139. |
| 139 | 3940 | 19h 11m 32s | $-01^{\circ} 38^{\prime}$ | 19h 18m 01s | $-01^{\circ} 25^{\prime}$ | $35^{\circ}$ | $-7^{\circ}$ | Narrow black spot, 10 mag. star on SE edge. This spot is at the southern end of B 138. It is comet shaped, about 4'x12'; very black and sharply defined on its south edge. This is apparently a real object. |
| 140 |  | 19h 13m 39s | $+05^{\circ} 00^{\prime}$ | 19h 19m 49s | +05 ${ }^{\circ} 13^{\prime}$ | $41^{\circ}$ | $-4^{\circ}$ | Semi-vacant region, diam. $1^{\circ}$ |
| 141 | 40 | 19h 13m 52s | $+01^{\circ} 40^{\prime}$ | 19h 20m 12s | +01 ${ }^{\circ} 53^{\prime}$ | $38^{\circ}$ | -6 ${ }^{\circ}$ | Semi-vacant region, N of the N end of B 138, diam. $2^{\prime}$ |
| 142 | 41 | 19h 33m 45s | +10 ${ }^{\circ} 14^{\prime}$ | 19h 39m 42s | +10으' | $48^{\circ}$ | $-6^{\circ}$ | Large, irregular, about 40' E and W, BD+104016 (8.7 mag) in E part |
| 143 | 41 | 19h 35m 30s | +10 ${ }^{\circ} 43^{\prime}$ | 19h 41m 25s | $+11^{\circ} 00^{\prime}$ | $49^{\circ}$ | $-6^{\circ}$ | Rather narrow, angular marking, the outline of a square $1 / 2^{\circ}$ in diameter, with the W side missing |
| 144 | 43 | 19h 54m 00s | $+35^{\circ} 00^{\prime}$ | 20h 58m 42s | $+35^{\circ} 20^{\prime}$ | $72^{\circ}$ | $+3^{\circ}$ | Large, semi-vacant region, $6^{\circ} \times 3^{\circ}$, NE and SW, rather definite at NE end, diffused to the SE |


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| 145 | 43 | 19h 58m 16s | +37 ${ }^{\circ} 20^{\prime}$ | 20h 02m 49s | +37 ${ }^{\circ} 41^{\prime}$ | $74^{\circ}$ | $+4^{\circ}$ | Sharply defined, $3 / 4^{\circ}$ long E and W. This is a triangular semivacant area. It is covered by a sprinkling of considerable small stars with the star $\mathrm{BD}+37^{\circ} 3736$ ( 9.5 mag ) in the center. $\mathrm{BD}+37^{\circ} 3735(7.0 \mathrm{mag})$ is just north of the north edge and $B D+37^{\circ} 3748$ ( 8.7 mag ) near the east end. |
| 146 | 43 | 19h 58m 49s | $+35^{\circ} 40^{\prime}$ | 20h 03m 29s | $+36^{\circ} 01^{\prime}$ | $73^{\circ}$ | $+3^{\circ}$ | Very small, like a dark border to the SW side of the star BD $+35^{\circ} 3930$ ( 7.0 mag ) |
| 147 | 43 | 20h 02m 07s | +35 ${ }^{\circ} 01^{\prime}$ | 20h 06m 50s | $+35^{\circ} 22^{\prime}$ | $72^{\circ}$ | $+2^{\circ}$ | Very narrow sinuous dark lane $11^{\prime}$ long E and W, BD+34 3871 (8.3 mag) at W end |
| 148 | 47 | 20h 44m 50s | +59 ${ }^{\circ} 10^{\prime}$ | 20h 47m 44s | +59 ${ }^{\circ} 38$ | $96^{\circ}$ | +10 ${ }^{\circ}$ | Very small, round, indefinite, diam. 3' |
| 149 | 47 | 20h 46m 07s | +59 ${ }^{\circ} 04^{\prime}$ | 20h 49m 03s | +59 ${ }^{\circ} 32$ | $96^{\circ}$ | $+10^{\circ}$ | Very small, round, indefinite, diam. 2'. This spot and B 148 each in a larger dusky space |
| 150 | 47 | 20h 47m 50s | $+59^{\circ} 50$ | 20h 50m 41s | +60 ${ }^{\circ} 18^{\prime}$ | $97^{\circ}$ | $+10^{\circ}$ | Curved dark marking, $1^{\circ}$ long. This curved marking, convex to the north, is much broken with darker masses. The position given is for its center. The star BD $+59^{\circ} 2291(8.0 \mathrm{mag})$ is close to its northeast edge. Its east end is in about $\alpha=20 \mathrm{~h} 51 \mathrm{~m} 00 \mathrm{~s}, \delta=+59^{\circ} 45$ '. The west end curves southward and ends near BD $+59^{\circ} 2283$ ( 8.2 mag) (see ibid., 43, 1-8, 1916, Plate I, and Proceedings of the National Academy of Sciences, 1, 394-96, 1915). |
| 151 | 4749 | 21h 04m 40s | $+55^{\circ} 49^{\prime}$ | 21h 08m 14s | $+56^{\circ} 19^{\prime}$ | $96^{\circ}$ | $+6^{\circ}$ | Very small, very dark, diam. $1^{\prime}$, about $14^{\prime} \mathrm{N}$ of $\mathrm{BD}+55^{\circ} 2529$ (7.5 mag), apparently a real object in a slightly larger vacancy |
| 152 | 47 | 21h 11m 30s | +61 ${ }^{\circ} 13^{\prime}$ | 21h 14m 30s | +61 ${ }^{\circ} 44^{\prime}$ | $100^{\circ}$ | $+9^{\circ}$ | Small, $15^{\prime} \times 3^{\prime}$ SE and NW. Close north of BD+61 $2103 ~(8.0 ~ m a g) . ~$. The west end is larger, with a small star in it. (In Astrophysical Journal, 43, 5,1916 , it is wrongly stated that this object is south of the BD star.) |
| 153 | 4749 | 21h 17m 20s | +55 ${ }^{\circ} 55^{\prime}$ | 21h 21m 03s | +56 ${ }^{\circ} 27^{\prime}$ | $97^{\circ}$ | $+5^{\circ}$ | Black, irregular, diam. 1', ${ }^{\prime}$ S of BD+55 ${ }^{\circ} 2565$ (7.4 mag) |
| 154 | 4749 | 21h 17m 40s | +56 ${ }^{\circ} 05^{\prime}$ | 21h 21m 23s | +56 ${ }^{\circ} 37$ | $97^{\circ}$ | $+5^{\circ}$ | Narrow, 8' long NE and SW, BD+55 ${ }^{\circ} 2565$ (7.4 mag) at the S end |
| 155 |  | 21h 27m 25s | +44 ${ }^{\circ} 25^{\prime}$ | 21h 32m 08s | $+44^{\circ} 58^{\prime}$ | $90^{\circ}$ | $-5^{\circ}$ | Round, diam. 13', indefinite, four small stars in a line crossing it E and W |
| 156 |  | 21h 29m 17s | +45 ${ }^{\circ} 02^{\prime}$ | 21h 33m 59s | +45 ${ }^{\circ} 35^{\prime}$ | $91^{\circ}$ | $-5^{\circ}$ | Diam. 8', sharp pointed to N, BD $+44^{\circ} 3865$ (4.1 mag) in center |
| 157 | 4849 | 21h 29m 38s | +54 ${ }^{\circ} 07^{\prime}$ | 21h 33m 41s | +54 ${ }^{\circ} 40^{\prime}$ | $97^{\circ}$ | $+2^{\circ}$ | Round, diam $5^{\prime}, 8^{\prime} \pm \mathrm{W}$ of $\mathrm{BD}+54^{\circ} 2576$ ( 8.3 mag ), a semi-circle of faint stars forms the western border |
| 158 |  | 21h 32m 22s | $+42^{\circ} 51^{\prime}$ | 21h 37m 13s | $+43^{\circ} 24{ }^{\prime}$ | $90^{\circ}$ | $-7^{\circ}$ | Dark spot, diam. 3', similar to those in the region of B 159. There are some others N and W of this |
| 159 |  | 21h 33m 30s | $+42^{\circ} 40^{\prime}$ | 21h 38m 22s | +43 ${ }^{\circ} 14^{\prime}$ | $90^{\circ}$ | $-7^{\circ}$ | Irregular partially vacant region, diam $25^{\prime}$. This is the center of an irregular, partially vacant region 25 ' in diameter. It is suggestive of the presence of a dark or faint nebulosity, as there are several small darker spots in it. It lies 40' northwest of Nova Cygni of 1876, and involves the stars $B D+42^{\circ} 4177$ ( 5.2 mag ), $+42^{\circ} 4172$ ( 8.4 mag ), and $42^{\circ} 4164$ ( 7.7 mag ). It is somewhat extended east and west. A very long exposure on this region would doubtless be interesting. |


| B.D.O. \# | Plates | a 1875 | ठ 1875 | a 2000 | ठ 2000 | Gal Long | Gal Lat | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 160 | 4749 | 21h 34m 00s | +55 ${ }^{\circ} 40^{\prime}$ | 21h 37m 59s | +56 $14^{\prime}$ | $98^{\circ}$ | $+3^{\circ}$ | Large, dark, irregular, diam. $31^{\prime} \mathrm{NE}$ and SW. The east side is best defined with two dark projections from it 30' apart. An irregular, narrow, dark lane runs north from it for $2^{\circ}$ to a large nebulous region |
| 161 | 4749 | 21h 36m 30s | $+57^{\circ} 15^{\prime}$ | 21h 40m 22s | $+57^{\circ} 49^{\prime}$ | $100^{\circ}$ | $+4^{\circ}$ | Small, black spot. This is one of the comet-shaped objects. The head is very sharp and black, $3^{\prime}$ across. This extends north for some 3 ', then widens out into a less dense tail about 13 ' long. |
| 162 | 49 | 21h 37m 08s | $+55^{\circ} 45^{\prime}$ | 21h 41m 09s | $+56^{\circ} 19^{\prime}$ | $99^{\circ}$ | $+3^{\circ}$ | Very think, curved, dark strip, $13^{\prime} \mathrm{N}$ and S , a curve of small stars on the SW end |
| 163 | 49 | 21h 38m 10s | $+56^{\circ} 08^{\prime}$ | 21h 42m 10s | $+56^{\circ} 42^{\prime}$ | $99^{\circ}$ | $+3^{\circ}$ | Small, very black, pointed to the S, two dark streams running from this toward the N |
| 164 | 48 | 21h 42m 02s | $+50^{\circ} 31^{\prime}$ | 21h 46m 31s | +51 ${ }^{\circ} 05^{\prime}$ | $96^{\circ}$ | $-2^{\circ}$ | V-shaped vacancy, 20' N and S |
| 165 | 49 | 21h 45m 10s | +59 ${ }^{\circ} 38^{\prime}$ | 21h 48m 56s | +60 ${ }^{\circ} 13^{\prime}$ | $102^{\circ}$ | $+5^{\circ}$ | Length E and W $18^{\prime}$, width $1^{\prime}, \mathrm{BD}+59^{\circ} 2424$ ( 7.8 mag ) near the E end |
| 166 | 49 | 21h 47m 16s | +59 ${ }^{\circ} 30^{\prime}$ | 21h 51m 05s | +60 ${ }^{\circ} 05^{\prime}$ | $102^{\circ}$ | $+5^{\circ}$ | Round, diam 5', small star on SW edge |
| 167 | 49 | 21h 48m 08s | +59 ${ }^{\circ} 29^{\prime}$ | 21h 51m 58s | +60 ${ }^{\circ} 04^{\prime}$ | $102^{\circ}$ | $+5^{\circ}$ | Small, irregularly round, diam $5^{\prime}$, about $7^{\prime} \mathrm{N}$ of $\mathrm{BD}+59^{\circ} 2427$ (7.7 mag) |
| 168 |  | 21h 48m 32s | $+46^{\circ} 41^{\prime}$ | 21h 53m 20s | $+47^{\circ} 16^{\prime}$ | $94^{\circ}$ | $-5^{\circ}$ | Small nebula at the E end of dark lane. This nebula is 10' in diameter with over a dozen small stars of different magnitudes in it. There is no central condensation, nor does the nebula condense about any of the stars. There are some dark markings in it. The dark lane is $1^{\circ} .7$ long and $9^{\prime}$ wide (see Lick Observatory Publications, 11, Plate 81). |
| 169 | 4950 | 21h 54m 48s | $+58^{\circ} 10^{\prime}$ | 21h 58m 53s | $+58^{\circ} 46^{\prime}$ | $102^{\circ}$ | $+3^{\circ}$ | Elliptical black ring, diam $1^{\circ}$. This encloses an "island" of small stars. The dark ring is broadest on its east side where its thickness is 22 . The northern part is very black and straight. BD $+58^{\circ} 2371$ ( 8.5 mag ) is in the northeast part of the "island" of stars. |
| 170 | 4950 | 21h 54m 00s | $+58^{\circ} 22^{\prime}$ | 21h 58m 03s | $+58^{\circ} 58^{\prime}$ | $102^{\circ}$ | $+3^{\circ}$ | Irregular black strip $26^{\prime}$ long NE and SW, 4' wide. This is the northwest border of the island of small stars. It is sharply defined and darker than the sky. |
| 171 | 4950 | 21h 57m 12s | +58 ${ }^{\circ} 16^{\prime}$ | 22h 01m 18s | $+58^{\circ} 52^{\prime}$ | $103^{\circ}$ | $+3^{\circ}$ | Irregular broken region, diam. 19', at the E end of the "island" of small stars |
| 172 |  |  |  |  |  |  |  | This Dark Object number is NOT included in The Photographic Atlas of Selected Regions of the Milky Way |
| 173 | 4950 | 22h 03m 20s | +59 ${ }^{\circ} 04^{\prime}$ | 22h 07m 28s | $+59^{\circ} 40^{\prime}$ | $104^{\circ}$ | $+3^{\circ}$ | Diam. $4^{\prime}$, rather definite, a small star on N edge and one on SW edge |
| 174 | 4950 | 22h 03m 08s | +58 ${ }^{\circ} 28^{\prime}$ | 22h 07m 19s | +59 ${ }^{\circ} 04^{\prime}$ | $103^{\circ}$ | $+3^{\circ}$ | Narrow, irregular, 19' long NE and SW |


| B.D.O. \# | Plates | a 1875 | ठ 1875 | a 2000 | ठ 2000 | Gal Long | Gal Lat | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 175 |  | 22h 11m 00s | +69 ${ }^{\circ} 19^{\prime}$ | 22h 14m 02s | +69 ${ }^{\circ} 56$ | $110^{\circ}$ | +11 ${ }^{\circ}$ | Large, diam. $1^{\circ}$, bright nebula in N part. This is a large dark spot, extended north and south, 62 ' in its largest diameter. In its upper part is the star BD $+69^{\circ} 1231$ ( 8.8 mag ) which is nebulous. This is apparently a large dark nebula, the brighter part of which forms the star $+69^{\circ} 1231$. In Monthly Notices, 69 (December), 1908, Dr. Max Wolf gives a photograph of the nebula, stating that the object was discovered by Dr. Kopff at Heidelberg on October 12, 1908. It is conspicuous on a photograph of mine made with the Willard lens at the Lick Observatory, September 24, 1895, with 5h 00m exposure. It is also shown on a photograph of mine made with the Bruce telescope, July 20, 1904, with an exposure of 3h 01m. By inadvertence, reference to this object was omitted in Lick Observatory Publications, 11, where it is cut out by the matting in Plate 83. |
| 176-200 |  |  |  |  |  |  |  | These Dark Object numbers are NOT included in The Photographic Atlas of Selected Regions of the Milky Way |
| 201 | 1 | 2h 04m 20s | +56 ${ }^{\circ} 30^{\prime}$ | 2h 12m 55s | $+57^{\circ} 06$ | $134{ }^{\circ}$ | $-4^{\circ}$ | Small, diam. 10', 45' W of N.G.C 869 |
| 202 | 3 | 3h 18m 00s | +29 ${ }^{\circ} 50$ | 3h 25 m 37 s | $+30^{\circ} 17^{\prime}$ | $158^{\circ}$ | $-22^{\circ}$ | Elongated NW and SE, 33' x 12' |
| 203 | 3 | 3h 18m 10s | $+30^{\circ} 20^{\prime}$ | 3h 25 m 49 s | $+30^{\circ} 47^{\prime}$ | $158^{\circ}$ | -21 ${ }^{\circ}$ | Elongated E and W, BD+30 539 (9.0 mag) in N edge |
| 204 | 3 | 3h 20m 50s | +29 ${ }^{\circ} 45^{\prime}$ | 3h 28m 28s | $+30^{\circ} 12^{\prime}$ | $159^{\circ}$ | $-21^{\circ}$ | Irregular, diam. 14' $\pm, 15^{\prime} \mathrm{SW}$ of BD+29 ${ }^{\circ} 566$ (6.8 mag) |
| 205 | 3 | 3h 20m 50s | $+30^{\circ} 40^{\prime}$ | 3h 28m 30s | $+31^{\circ} 07{ }^{\prime}$ | $158^{\circ}$ | $-21^{\circ}$ | Two dark strips, $15^{\prime}$ long N and S , with $\mathrm{BD}+30^{\circ} 547$ ( 9.3 mag ) between them, close SW of BD $+30^{\circ} 548$ (neb.) |
| 206 | 3 | 3h 21m 30s | +29 ${ }^{\circ} 45^{\prime}$ | 3h 29m 08s | $+30^{\circ} 12^{\prime}$ | $159^{\circ}$ | $-21^{\circ}$ | Diffused, diam. 5' $\pm$ |
| 207 | 5 | 3h 57m 00s | +26 ${ }^{\circ} 0{ }^{\prime}$ | 4h 04m 34s | $+26^{\circ} 21^{\prime}$ | $168^{\circ}$ | $-19^{\circ}$ | Small black spot, elongated nearly N and $\mathrm{S}, 7^{\prime} \mathrm{N}$ of $\mathrm{BD}+25^{\circ} 670$ (8.3 mag) |
| 208 | 5 | 4h 04m 00s | +24 ${ }^{\circ} 50$ | 4h 11m 32s | $+25^{\circ} 10^{\prime}$ | $170^{\circ}$ | -19 ${ }^{\circ}$ | Darker spot in dark lane |
| 209 | 5 | 4h 04m 40s | $+28^{\circ} 00$ | 4h 12m 22s | $+28^{\circ} 20^{\prime}$ | $168^{\circ}$ | $-17^{\circ}$ | Center of a broad extension from B 7, toward the W |
| 210 | 5 | 4h 08m 00s | +24 ${ }^{\circ} 45^{\prime}$ | 4h 15m 32s | +25 ${ }^{\circ} 05^{\prime}$ | $171^{\circ}$ | -18 ${ }^{\circ}$ | Darker spot in dark lane |
| 211 | 5 | 4h 09m 30s | +27 ${ }^{\circ} 30^{\prime}$ | 4h 17m 11s | $+27^{\circ} 49^{\prime}$ | $169^{\circ}$ | $-16^{\circ}$ | North end of dark lane running SE from B 7, extends from position given to $\alpha=4 \mathrm{~h} 20 \mathrm{~m} 00 \mathrm{~s}, \delta=+25^{\circ} 50^{\prime}$ (B 217) |
| 212 | 5 | 4h 11m 40s | +25 ${ }^{\circ} 00^{\prime}$ | 4h 19m 14s | +25 ${ }^{\circ} 19^{\prime}$ | $171^{\circ}$ | $-18^{\circ}$ | Darker spot in dark lane |
| 213 | 5 | 4h 13m 30s | +26 ${ }^{\circ} 45^{\prime}$ | 4h 21 m 10 s | +27 ${ }^{\circ} 04^{\prime}$ | $170^{\circ}$ | -16 ${ }^{\circ}$ | Dark spot in lane |
| 214 | 5 | 4h 14m 10s | +28 ${ }^{\circ} 15^{\prime}$ | $4 \mathrm{~h} 21 \mathrm{~m} \mathrm{55s}$ | +28 ${ }^{\circ} 34^{\prime}$ | $169^{\circ}$ | -15 ${ }^{\circ}$ | Diam. 5', close N of BD+28645 (9.1 mag) |
| 215 | 5 | 4h 16m 00s | +24 ${ }^{\circ} 45^{\prime}$ | 4h 23m 33s | +25 ${ }^{\circ} 03^{\prime}$ | $172^{\circ}$ | $-17^{\circ}$ | Darker spot in dark lane |
| 216 | 5 | 4h 16m 20s | +26 ${ }^{\circ} 20^{\prime}$ | 4h 23m 59s | +26 ${ }^{\circ} 38^{\prime}$ | $171^{\circ}$ | -16 ${ }^{\circ}$ | Dark spot in lane |
| 217 | 5 | 4h 20m 00s | +25 ${ }^{\circ} 50$ | 4h 27m 38s | +26 ${ }^{\circ} 08^{\prime}$ | $172^{\circ}$ | $-16^{\circ}$ | Southeast end of dark lane running from B 7 |
| 218 | 5 | 4h 20m 30s | +26 ${ }^{\circ} 00^{\prime}$ | 4h 28m 08s | +26 ${ }^{\circ} 18^{\prime}$ | $172^{\circ}$ | -15 ${ }^{\circ}$ | Triangular, diam. 15', extension to the E |
| 219 | 5 | 4h 27m 00s | +29 ${ }^{\circ} 20^{\prime}$ | 4h 34m 50s | $+29^{\circ} 36$ | $170^{\circ}$ | -12 ${ }^{\circ}$ | Partly vacant space, $55^{\prime} \times 3^{\circ}$, NE and SW |
| 220 | 5 | 4h 33m 50s | +25 ${ }^{\circ} 45^{\prime}$ | 4h 41m 29s | +26 ${ }^{\circ} 00^{\prime}$ | $174{ }^{\circ}$ | $-13^{\circ}$ | Round, diam. $7^{\prime}$, feebler extension runs NW for $1^{\circ}$, BD+25723 (8.3 mag) near W edge |
| 221 | 5 | 4h 36m 00s | +31 ${ }^{\circ} 30$ | 4h 44m 00s | $+31^{\circ} 45^{\prime}$ | $170^{\circ}$ | -9 ${ }^{\circ}$ | Partly vacant region, diam. about $3 / 4^{\circ}$ |
| 222 |  | 5h 00m 18s | $+32^{\circ} 00^{\prime}$ | 5h 08m 23s | +32 ${ }^{\circ} 11^{\prime}$ | $173^{\circ}$ | -5 ${ }^{\circ}$ | Round, indefinite, diam. 10' |


| B.D.O. \# | Plates | a 1875 | ठ 1875 | a 2000 | ठ 2000 | Gal Long | Gal Lat | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 223 | 6 | 5h 14m 40s | +08 ${ }^{\circ} 12^{\prime}$ | 5h 21m 28s | +08 ${ }^{\circ} 20^{\prime}$ | $195^{\circ}$ | $-16^{\circ}$ | Fan-shaped nebula, diam. 8' $\pm$. This nebula is close southwest of, and apparently attached to, $\mathrm{BD}+8^{\circ} 933$ ( 6.5 mag ). It is possibly the bright part of an obscuring nebula. |
| 224 | 6 | 5h 17m 00s | +10 ${ }^{\circ} 30^{\prime}$ | 5h 23m 55s | +10 ${ }^{\circ} 38$ | $193^{\circ}$ | -14 ${ }^{\circ}$ | Indefinite, diam. 20' |
| 225 | 6 | $5 \mathrm{~h} \mathrm{22m} \mathrm{00s}$ | +11 ${ }^{\circ} 30$ | 5h 28m 58s | +11 ${ }^{\circ} 37{ }^{\prime}$ | $193^{\circ}$ | $-12^{\circ}$ | South end of extension running S for $35^{\prime}$ from B 30 |
| 226 | 7 | 5h 28m 20s | + $33^{\circ} 37^{\prime}$ | 5h 36m 34s | +33 ${ }^{\circ} 43^{\prime}$ | $175^{\circ}$ | +1 ${ }^{\circ}$ | Dark spot, diam. 17', S of M 36 |
| 227 | 9 | 6h 00m 00s | $+19^{\circ} 40^{\prime}$ | 6h 07m 24s | +19 ${ }^{\circ} 40^{\prime}$ | $191^{\circ}$ | $+0^{\circ}$ | Round, diam. 12', one or two faint stars in it |
| 228 |  | 15h 37m 00s | $-34^{\circ} 07^{\prime}$ | 15h 44m 56s | $-34^{\circ} 31^{\prime}$ | $339^{\circ}$ | +16 ${ }^{\circ}$ | Large vacant region about $4^{\circ}$ Iong NW and SE. This vacant region is about $4^{\circ}$ long, extending from $\alpha=15 \mathrm{~h} 43 \mathrm{~m}, \delta=-35^{\circ} 30^{\prime}$. Its average width is about $1 / 2^{\circ}$. It is strongest marked at the north end. There are fragments of other dark markings several degrees west of this. |
| 229 | 13 | 16h 10m 00s | $-27^{\circ} 00^{\prime}$ | 16h 17m 40s | $-27^{\circ} 19^{\prime}$ | $349^{\circ}$ | +16 ${ }^{\circ}$ | Indefinite, partially vacant region, diam. $3 / 4^{\circ}$ |
| 230 |  | 16h 20m 00s | $-16^{\circ} 30^{\prime}$ | 16h 27m 09s | $-16^{\circ} 48^{\prime}$ | $359^{\circ}$ | +22 ${ }^{\circ}$ | Round, diam. about $1^{\circ}$ |
| 231 | 16 | 16h 30m 10s | $-35^{\circ} 10^{\prime}$ | 16h 38m 23s | $-35^{\circ} 26^{\prime}$ | $346{ }^{\circ}$ | +8 ${ }^{\circ}$ | Dusky, diam. 30', sharpest on W side, diffuses to the E |
| 232 | 16 | 16h 35m 10s | $-39^{\circ} 35^{\prime}$ | 16h 43m 43s | $-39^{\circ} 50^{\prime}$ | $344^{\circ}$ | $+4^{\circ}$ | Dusky, $10^{\prime} \mathrm{N}$ and S, two small stars in it |
| 233 | 16 | 16h 36m 30s | $-35^{\circ} 10^{\prime}$ | 16h 44m 44s | $-35^{\circ} 25^{\prime}$ | $347^{\circ}$ | $+7^{\circ}$ | Diffused, 55' N and S, 20' wide |
| 234 | 1517 | 16h 38m 30s | $-30^{\circ} 15^{\prime}$ | 16h 46m 26s | $-30^{\circ} 30^{\prime}$ | $351^{\circ}$ | +10 ${ }^{\circ}$ | Narrow, nearly $1 / 2^{\circ}$ long, $6^{\prime}$ wide |
| 235 | 16 | 16h 38m 08s | $-44^{\circ} 15^{\prime}$ | 16h 47m 05s | $-44^{\circ} 30^{\prime}$ | $341^{\circ}$ | $+0^{\circ}$ | Diam. ${ }^{\prime}$, elongated NE and SW, darkest part at SW end |
| 236 | 1517 | 16h 41m 00s | -29 ${ }^{\circ} 35^{\prime}$ | 16h 48m 53s | $-29^{\circ} 49^{\prime}$ | $352^{\circ}$ | +10 ${ }^{\circ}$ | Center of system of indistinct dark lanes |
| 237 | 1517 | 16h 41m 00s | $-29^{\circ} 45^{\prime}$ | 16h 48m 54s | $-29^{\circ} 59^{\prime}$ | $352^{\circ}$ | $+9^{\circ}$ | Dark lane N of CD-30 13487 ( 8.0 mag ). Beginning about $10^{\prime}$ northwest of CD- $30^{\circ} 13487$ ( 8.0 mag ) this dark lane runs northeast for 37 ' and then turns abruptly to the east for $18^{\prime}$ '. |
| 238 | 1418 | 16h 44m 50s | $-22^{\circ} 55^{\prime}$ | 16h 52m 21s | $-23^{\circ} 08^{\prime}$ | $358^{\circ}$ | +13 ${ }^{\circ}$ | Irregular, diam. 13', BD-22²4232 (8.0 mag) on NW edge |
| 239 | 151718 | 16h 47m 00s | $-30^{\circ} 55^{\prime}$ | 16h 54m 59s | $-31^{\circ} 08^{\prime}$ | $352^{\circ}$ | $+8^{\circ}$ | Curved, $15^{\prime}$ long, very black and narrow, rimmed with stars on S and $E$ sides |
| 240 | 16 | 16h 51m 00s | $-35^{\circ} 10^{\prime}$ | 16h 59m 17s | $-35^{\circ} 22^{\prime}$ | $349^{\circ}$ | $+4^{\circ}$ | Black, diam. 20' |
| 241 | 151718 | 16h 51m 30s | $-30^{\circ} 00^{\prime}$ | 16h 59m 26s | $-30^{\circ} 12^{\prime}$ | $353^{\circ}$ | $+8^{\circ}$ | Dusky, diffused, 18' long E and W, 6' wide, about 20' W of M 62 |
| 242 | 151718 | 16h 57m 00s | $-32^{\circ} 15^{\prime}$ | 17h 05m 06s | $-32^{\circ} 26^{\prime}$ | $352^{\circ}$ | $+5^{\circ}$ | Dusky, elongated E and W, 30' x 8' |
| 243 | 151718 | 17h 01m 50s | $-29^{\circ} 25^{\prime}$ | 17h 09m 45s | $-29^{\circ} 35^{\prime}$ | $355^{\circ}$ | $+6^{\circ}$ | Very irregular, diam. 25' |
| 244 | 151820 | 17h 03m 00s | $-28^{\circ} 15^{\prime}$ | 17h 10m 51s | $-28^{\circ} 25^{\prime}$ | $356^{\circ}$ | $+7^{\circ}$ | Irregular, sharpest on W side, about $30^{\prime}$ long N and $\mathrm{S}, 20^{\prime}$ wide, from $S$ end a narrow projection runs $W$ for about 10' |
| 245 | 151718 | 17h 04m 00s | $-29^{\circ} 15^{\prime}$ | 17h 11m 55s | $-29^{\circ} 25^{\prime}$ | $356{ }^{\circ}$ | $+6^{\circ}$ | Round, diffused, diam. 8', several bright stars in it |
| 246 | 14181920 | 17h 04m 30s | $-22^{\circ} 30^{\prime}$ | 17h 12m 01s | $-22^{\circ} 40^{\prime}$ | $1^{\circ}$ | +10 ${ }^{\circ}$ | Irregular, diam. about 15' |
| 247 | 151718 | 17h 05m 08s | $-30^{\circ} 06^{\prime}$ | 17h 13m 06s | $-30^{\circ} 16^{\prime}$ | $355^{\circ}$ | $+5^{\circ}$ | Black, diam. ${ }^{\prime}$ |
| 248 | 151718 | 17h 05m 10s | $-28^{\circ} 50^{\prime}$ | 17h 13m 04s | $-29^{\circ} 00^{\prime}$ | $356^{\circ}$ | $+6^{\circ}$ | Irregular, 10' E and W |
| 249 | 151718 | 17h 05m 10s | $-29^{\circ} 00^{\prime}$ | 17h 13m 04s | $-29^{\circ} 10^{\prime}$ | $356^{\circ}$ | $+6^{\circ}$ | Very thin short black line, 5' long, 20 " $\pm$ wide, $25^{\prime}$ NW of N.G.C. 6304, small star at NE end |
| 250 | 15182021 | 17h 05m 10s | $-28^{\circ} 15^{\prime}$ | 17h 13m 01s | $-28^{\circ} 25^{\prime}$ | $357{ }^{\circ}$ | $+6^{\circ}$ | Diffused, diam. 15' |
| 251 | 19 | 17h 06m 25s | $-20^{\circ} 00^{\prime}$ | 17h 13m 48s | $-20^{\circ} 10^{\prime}$ | $4^{\circ}$ | +11 ${ }^{\circ}$ | Dusky, elongated NE and SW, 20' x 5' |
| 252 | 151718 | 17h 07m 12s | $-32^{\circ} 00^{\prime}$ | 17h 15m 18s | $-32^{\circ} 10^{\prime}$ | $354^{\circ}$ | $+4^{\circ}$ | Triangular, $20^{\prime} \mathrm{N}$ and S, eastern side diffused. Abrupt dark marking in a bright, apparently nebulous, region. CD-31¹3763 (7.7 mag) near northeast end. |


| B.D.O. \# | Plates | a 1875 | ठ 1875 | a 2000 | ठ 2000 | Gal Long | Gal Lat | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 253 | 1920 | 17h 08m 00s | $-22^{\circ} 25^{\prime}$ | 17h 15m 31s | $-22^{\circ} 34^{\prime}$ | $2^{\circ}$ | $+9^{\circ}$ | Irregular dark region, diam. Nearly $1^{\circ}$, BD-22 $4307(8.8 \mathrm{mag})$ in western part |
| 254 | 18 | 17h 12m 30s | $-30^{\circ} 00^{\prime}$ | 17h 20m 29s | $-30^{\circ} 09{ }^{\prime}$ | $356{ }^{\circ}$ | $+4^{\circ}$ | Irregular, diffused, elongated E and W, $1^{\circ} \times 20^{\prime}$ |
| 255 | 18192021 | 17h 13m 00s | $-23^{\circ} 20^{\prime}$ | 17h 20m 35s | $-23^{\circ} 29^{\prime}$ | $2^{\circ}$ | $+8^{\circ}$ | Dusky, diam. 5' |
| 256 | 182122 | 17h 14m 18s | $-28^{\circ} 42^{\prime}$ | 17h 22m 12s | $-28^{\circ} 50$ | $357^{\circ}$ | $+4^{\circ}$ | Very irregular and diffused, $50^{\prime}$ E and W, BD-28º 13101 (7.7 mag) near E end |
| 257 | 22 | 17h 14m 25s | $-35^{\circ} 30^{\prime}$ | 17h 22m 46s | $-35^{\circ} 38{ }^{\prime}$ | $352^{\circ}$ | $+0^{\circ}$ | Dusky spot, diam. 15', about $^{\prime} 0^{\prime}$ NW of CD-35 ${ }^{\circ} 11505$ (6.7 mag) |
| 258 | 22 | 17h 14m 40s | $-34^{\circ} 36^{\prime}$ | 17h 22m 57s | $-34^{\circ} 44^{\prime}$ | $353^{\circ}$ | $+1^{\circ}$ | Irregular area of dark markings, diam. 40' $\pm$ |
| 259 | 19 | 17h 14m 40s | $-19^{\circ} 10^{\prime}$ | 17h 22m 01s | $-19^{\circ} 18^{\prime}$ | $5^{\circ}$ | +10 ${ }^{\circ}$ | Irregular dark area, diam $1 / 2^{\circ}$, $\mathrm{BD}-19^{\circ} 4605$ ( 6.5 mag ) on W border, BD-19 4617 ( 7.8 mag ) in E part |
| 260 | 182021 | 17h 17m 06s | $-25^{\circ} 30^{\prime}$ | 17h 24m 49s | $-25^{\circ} 38^{\prime}$ | $0^{\circ}$ | $+6^{\circ}$ | Diffused, elongated N and S, 12' x $7^{\prime}$ |
| 261 | 18192021 | 17h 17m 30s | $-22^{\circ} 55^{\prime}$ | 17h 25m 04s | $-23^{\circ} 03^{\prime}$ | $3^{\circ}$ | $+7^{\circ}$ | Elongated E and W, $14^{\prime} \times 5^{\prime}$, diffused on S side, reaching almost to CD- $23^{\circ} 13378$ ( 7.6 mag ), about $18^{\prime}$ SE of the center |
| 262 | 18192021 | 17h 18m 00s | $-22^{\circ} 30^{\prime}$ | 17h 25m 32s | $-22^{\circ} 38^{\prime}$ | $3^{\circ}$ | $+7^{\circ}$ | Large dark region, diam. $1 / 2^{\circ}$, diffused except on N border. A <br>  ( 9.6 mag ) on west edge of this hook. |
| 263 | 16 | 17h 18m 00s | $-42^{\circ} 40^{\prime}$ | 17h 26m 56s | $-42^{\circ} 48^{\prime}$ | $346{ }^{\circ}$ | $-4^{\circ}$ | Diam. 30' NE and SW |
| 264 | 182021 | 17h 19m 30s | $-25^{\circ} 25^{\prime}$ | 17h 27m 12s | $-25^{\circ} 32$ | $1^{\circ}$ | $+5^{\circ}$ | Narrow, black, $10^{\prime} \mathrm{E}$ and W , bends N at E end, $15^{\prime} \mathrm{W}$ of CD- $25^{\circ} 12179$ ( 7.3 mag ) |
| 265 | 18192021 | 17h 19m 55s | $-25^{\circ} 05^{\prime}$ | 17h 27m 36s | $-25^{\circ} 12^{\prime}$ | $1^{\circ}$ | $+5^{\circ}$ | Irregular, $18^{\prime} \mathrm{N}$ and $\mathrm{S}, 7^{\prime}$ wide, diffused on E side, about $5^{\prime} \mathrm{W}$ of CD-25 12171 ( 9.2 mag ) |
| 266 | 1920 | 17h 20m 40s | $-20^{\circ} 50$ | 17h 28m 07s | $-20^{\circ} 57$ | $5^{\circ}$ | $+8^{\circ}$ | Curved, $30^{\prime}$ long NE and SW, BD-204775 (7.8 mag) just S of S edge |
| 267 | 182021 | 17h 20m 50s | $-25^{\circ} 07^{\prime}$ | 17h 28m 31s | $-25^{\circ} 14^{\prime}$ | $1^{\circ}$ | $+5^{\circ}$ | Small very black, elongated NW and SE, 5' x 3', CD-25º 12177 (9.3 mag) at NW end |
| 268 | 192023 | 17h 24m 00s | $-20^{\circ} 25^{\prime}$ | 17h 31m 26s | $-20^{\circ} 32$ | $5^{\circ}$ | $+7^{\circ}$ | Irregular dark area, $13 / 4^{\circ} \mathrm{N}$ and S, $50^{\prime}$ wide |
| 269 | 19202123 | 17h 24m 40s | $-22^{\circ} 40^{\prime}$ | 17h 32m 13s | $-22^{\circ} 46^{\prime}$ | $4^{\circ}$ | $+6^{\circ}$ | Dusky region $1^{\circ}$ long NW and SE, BD-22ㅇ $4369 ~(7.5 ~ m a g) ~ n e a r ~ S E ~$ end |
| 270 | 1923 | 17h 25m 20s | $-19^{\circ} 30^{\prime}$ | 17h 32m 43s | $-19^{\circ} 36$ | $6^{\circ}$ | $+7^{\circ}$ | Round, diam. 11', in NE part of B 268 |
| 271 | 2224 | 17h 26m 00s | $-34^{\circ} 10^{\prime}$ | 17h 34m 16s | $-34^{\circ} 16^{\prime}$ | $354^{\circ}$ | $-1^{\circ}$ | Dusky, curved, $2^{\circ} \mathrm{N}$ and $\mathrm{S}, 10^{\circ} \pm$ wide, CD-33${ }^{\circ} 12241$ ( 8.7 mag ) near N end |
| 272 | 202123 | 17h 30m 00s | $-23^{\circ} 20^{\prime}$ | 17h 37m 36s | $-23^{\circ} 25^{\prime}$ | $4^{\circ}$ | $+4^{\circ}$ | Region of irregular dark markings, diam. $3 / 4^{\circ}$, CD-23 ${ }^{\circ} 13469$ (8.0 mag) near middle |
| 273 | 2224 | 17h 30m 16s | $-33^{\circ} 16^{\prime}$ | 17h 38m 29s | $-33^{\circ} 21^{\prime}$ | $356^{\circ}$ | $-1^{\circ}$ | Dark spot at N end of B 271, diam. $15^{\circ}$ |
| 274 | 202123 | 17h 30m 30s | $-22^{\circ} 39^{\prime}$ | 17h 38m 03s | $-22^{\circ} 44^{\prime}$ | $4^{\circ}$ | $+5^{\circ}$ | Triangular, definite, $18^{\prime} \mathrm{N}$ and S, BD-22 ${ }^{\circ} 4383$ (7.5 mag) in N end |
| 275 | 2224 | $17 \mathrm{~h} \mathrm{30m} \mathrm{50s}$ | $-32^{\circ} 15^{\prime}$ | 17h 38m 59s | $-32^{\circ} 20^{\prime}$ | $356^{\circ}$ | $-1^{\circ}$ | Round, diam. 13', about $20^{\prime} \mathrm{W}$ of M 6 |
| 276 | 202325 | 17h 32m 15s | $-19^{\circ} 45^{\prime}$ | 17h 39m 39s | $-19^{\circ} 50$ | $7^{\circ}$ | $+6^{\circ}$ | Broken region of dark markings, diam $3 / 4^{\circ}$, BD-19 4677 (8.3 mag) in NW part |
| 277 | 202123 | 17h 33m 10s | $-23^{\circ} 00^{\prime}$ | 17h 40m 45s | $-23^{\circ} 05^{\prime}$ | $4^{\circ}$ | $+4^{\circ}$ | Narrow, $18^{\prime}$ long E and W, BD-22 4387 ( 8.3 mag ) at W end. A less distinct branch running $30^{\prime} \pm$ to the SE forms a large $V$, open to the $E$ |
| 278 | 2224 | 17h 34m 30s | $-32^{\circ} 15^{\prime}$ | 17h 42m 39s | $-32^{\circ} 20^{\prime}$ | $357^{\circ}$ | $-1^{\circ}$ | Round, diam. 15', about 30' E of M 6 |
| 279 | 2123 | 17h 37m 00s | $-22^{\circ} 30^{\prime}$ | 17h 44m 33s | $-22^{\circ} 34^{\prime}$ | $5^{\circ}$ | $+4^{\circ}$ | Irregular dark area, diam. $1^{\circ}, \mathrm{BD}-22^{\circ} 4405$ ( 7.3 mag ) near N edge, BD-22 4411 ( 8.7 mag) in E part |
| 280 | 2325 | 17h 37m 30s | $-20^{\circ} 40^{\prime}$ | 17h 44m 57s | $-20^{\circ} 44^{\prime}$ | $7^{\circ}$ | $+4^{\circ}$ | Irregular dusky area, diam. $1^{\circ} \pm$ |


| B.D.O. \# | Plates | a 1875 | ठ 1875 | a 2000 | ठ 2000 | Gal Long | Gal Lat | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 281 | 2123 | 17h 39m 10s | $-23^{\circ} 40^{\prime}$ | 17h 46m 47s | $-23^{\circ} 44^{\prime}$ | $5^{\circ}$ | $+2^{\circ}$ | Dark loop close E of CD-23¹3548 (8.1 mag) |
| 282 | 23 | 17h 41m 00s | $-23^{\circ} 25^{\prime}$ | 17h 48m 36s | $-23^{\circ} 28^{\prime}$ | $5^{\circ}$ | $+2^{\circ}$ | $18^{\prime}$ long NE and SW, sharp on NW side, CD-23 $13589 ~(8.0 ~ m a g) ~$ near NE end |
| 283 | 22242628 | 17h 43m 00s | $-33^{\circ} 50$ | 17h 51m 16s | $-33^{\circ} 53^{\prime}$ | $356^{\circ}$ | $-4^{\circ}$ | Irregular, dusky area, $11 / 2^{\circ} \pm \mathrm{E}$ and $\mathrm{W}, 1^{\circ} \mathrm{N}$ and S |
| 284 | 25 | 17h 43m 00s | $-14^{\circ} 20^{\prime}$ | 17h 50m 07s | $-14^{\circ} 23^{\prime}$ | $13^{\circ}$ | $+7^{\circ}$ | Curved, $35^{\prime}$ NE and SW, $5^{\prime}$ wide, outline sharp except at SW end, BD-14웅 ( 8.0 mag) about $5^{\prime}$ NW of the center |
| 285 | 25 | 17h 44m 30s | $-12^{\circ} 50$ | 17h 50m 32s | $-12^{\circ} 53^{\prime}$ | $15^{\circ}$ | $+7^{\circ}$ | Diffused, diam. 15 |
| 286 | 222428 | 17h 44m 40s | $-35^{\circ} 35^{\prime}$ | 17h 53m 03s | $-35^{\circ} 38^{\prime}$ | $355^{\circ}$ | $-5^{\circ}$ | Diffused, diam. $15^{\prime} \pm$, CD-35 ${ }^{\circ} 12013$ (7.1 mag) in SW part |
| 287 | 222428 | 17h 46m 05s | $-35^{\circ} 10^{\prime}$ | 17h 54m 27s | $-35^{\circ} 13^{\prime}$ | $356^{\circ}$ | $-5^{\circ}$ | Irregular, semi-vacancy, diam. $1 / 2^{\circ} \pm$, SE of M 7 |
| 288 | 24 | 17h 48m 36s | $-37^{\circ} 04^{\prime}$ | 17h 57m 06s | $-37^{\circ} 06^{\prime}$ | $354^{\circ}$ | $-6^{\circ}$ | Black, diam. 2', diffuses toward NE, 25' SW of CD-36¹2060 (6.3 mag) |
| 289 | 222627 | 17h 48m 40s | $-29^{\circ} 00^{\prime}$ | 17h 56m 37s | $-29^{\circ} 02^{\prime}$ | $1^{\circ}$ | -2 ${ }^{\circ}$ | Dark space between star clouds, about 7' $\times 35^{\prime}$ |
| 290 | 24 | 17h 50m 50s | $-37^{\circ} 08^{\prime}$ | 17h 59m 21s | $-37^{\circ} 10^{\prime}$ | $354^{\circ}$ | $-7^{\circ}$ | Very small, diam. $3^{\prime} \pm$, extends N faintly for $25^{\prime}$, to and beyond CD$36^{\circ} 12060$ ( 6.3 mag ) |
| 291 | 242628 | 17h 51m 27s | $-33^{\circ} 53^{\prime}$ | 17h 59m 43s | $-33^{\circ} 55^{\prime}$ | $357^{\circ}$ | $-5^{\circ}$ | Small, round, black, diam 5'. CD-33 12697 ( 8.3 mag ) is on the east edge of this spot; a very faint star in the center. A dark lane 2 ' wide runs southerly from the spot for a distance of 25 ' and ends in a dark broken region. From the eastern side of the lane, 8' south of the star, a similar dark lane runs easterly, then north, for 35 ', ending in the broken region B 292. |
| 292 | 242628 | 17h 52m 20s | $-33^{\circ} 20^{\prime}$ | 18h 00m 34s | $-33^{\circ} 21^{\prime}$ | $358^{\circ}$ | $-5^{\circ}$ | Irregular, broken, dark region, diam $1^{\circ} \pm$ |
| 293 | 2428 | 17h 52m 50s | $-35^{\circ} 20^{\prime}$ | 18h 01m 13s | $-35^{\circ} 21^{\prime}$ | $356^{\circ}$ | $-6^{\circ}$ | Dusky, curved, like an inverted U, 18' across, CD-35²21259 (8.5 mag) near the center |
| 294 | 262730 | 17h 53m 35s | $-28^{\circ} 36^{\prime}$ | 18h 01m 30s | $-28^{\circ} 37^{\prime}$ | $2^{\circ}$ | $-3^{\circ}$ | Definite, diam. 3', star in SW part |
| 295 | 24262728 | 17h 56m 00s | $-31^{\circ} 10^{\prime}$ | 18h 04m 05s | $-31^{\circ} 11^{\prime}$ | $0^{\circ}$ | $-5^{\circ}$ | Irregular, dark region, diam. $50^{\prime}$, full of rich soft details of an apparently nebulous character |
| 296 | 2930 | 17h 56m 24s | $-24^{\circ} 32^{\prime}$ | 18h 04m 04s | $-24^{\circ} 33^{\prime}$ | $6^{\circ}$ | $-1^{\circ}$ | Narrow, black, 6' x 1', on S edge of M 8 |
| 297 | 252931 | 17h 57m 00s | $-18^{\circ} 45^{\prime}$ | 18h 04m 21s | $-18^{\circ} 46^{\prime}$ | $11^{\circ}$ | $+1^{\circ}$ | Region of irregular dark markings, $2^{\circ} \mathrm{E}$ of M 23 , covers an area 1 $1 / 2^{\circ} \mathrm{E}$ and W and about $1^{\circ} \mathrm{N}$ and S |
| 298 | 262728 | 17h 57m 10s | $-30^{\circ} 06^{\prime}$ | 18h 05m 11s | $-30^{\circ} 07{ }^{\prime}$ | $1^{\circ}$ | $-4^{\circ}$ | Small, diam. 4', 5' SE of N.G.C. 6528 |
| 299 | 262730 | 17h 58m 30s | $-27^{\circ} 18^{\prime}$ | 18h 06m 20s | $-27^{\circ} 18^{\prime}$ | $4^{\circ}$ | $-3^{\circ}$ | Several small spots in star cloud, each about 3' in diameter |
| 300 | 24262728 | 17h 58m 50s | $-32^{\circ} 40^{\prime}$ | 18h 07m 01s | $-32^{\circ} 40{ }^{\prime}$ | $359^{\circ}$ | $-6^{\circ}$ | Broken dark region about 30' E of B 87 |
| 301 | 252931 | 18h 01m 30s | $-18^{\circ} 43^{\prime}$ | 18h 08m 51s | $-18^{\circ} 43^{\prime}$ | $12^{\circ}$ | $+1^{\circ}$ | Dusky lane, $45^{\prime} \pm$ long NE and SW, 2' wide |
| 302 | 2930 | 18h 01m 35s | $-23^{\circ} 59^{\prime}$ | 18h 09m 14s | $-23^{\circ} 59^{\prime}$ | $7^{\circ}$ | -2 ${ }^{\circ}$ | Dark spot, diam. About 1/2', close N of CD-24¹3962 (7.8 mag) |
| 303 | 2930 | 18h 01m 50s | $-24^{\circ} 01^{\prime}$ | 18h 09m 29s | $-24^{\circ} 01^{\prime}$ | $7^{\circ}$ | -2 | Very black, lune shaped, convex to E, diam. about $1^{\prime}, 3^{\prime}$ SE of CD$24^{\circ} 13962$ ( 7.8 mag ) |
| 304 | 25293132 | 18h 06m 00s | $-18^{\circ} 45^{\prime}$ | 18h 13m 21s | $-18^{\circ} 44^{\prime}$ | $12^{\circ}$ | $+0^{\circ}$ | Dusky lanes in star cloud extending toward the SW from B 92 for 1 1/2 ${ }^{\circ}$ |
| 305 | 262728 | 18h 06m 30s | $-31^{\circ} 50$ | 18h 14m 38s | $-31^{\circ} 49^{\prime}$ | $1^{\circ}$ | $-7^{\circ}$ | Dark, irregular, diam 13.. Dark streamers radiate from this spot to the north for more than $3 / 4^{\circ}$ and broken ones for $1 / 2^{\circ}$ toward the southwest. |
| 306 | 3033 | 18h 08m 00s | $-25^{\circ} 45^{\prime}$ | 18h 15m 45s | $-25^{\circ} 44^{\prime}$ | $6^{\circ}$ | $-4^{\circ}$ | Small, narrow, black, 4’ long NE and SW, CD-25¹2920 (8.2 mag) $5^{\prime}$ SW of W end, similar to B 249 |
| 307 | 29313234 | 18h 11m 20s | $-18^{\circ} 00^{\prime}$ | 18h 18m 38s | $-17^{\circ} 58^{\prime}$ | $13^{\circ}$ | $-1^{\circ}$ | Narrow, dusky mark in star cloud, $6^{\prime}$ long NE and SW |
| 308 | 293233 | 18h 11m 36s | $-22^{\circ} 17^{\prime}$ | 18h 19m 09s | $-22^{\circ} 15^{\prime}$ | $10^{\circ}$ | $-3^{\circ}$ | Curved, dusky, 7' E and W, 5' wide |


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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 309 | 293033 | 18h 15m 30s | -24 ${ }^{\circ} 05^{\prime}$ | 18h 23m 09s | $-24^{\circ} 02^{\prime}$ | $8^{\circ}$ | $-5^{\circ}$ | Irregular, dusky, diam. 5' |
| 310 | 32 | 18h 22m 53s | $-18^{\circ} 40^{\prime}$ | 18h 30m 13s | $-18^{\circ} 36$ | $14^{\circ}$ | $-4^{\circ}$ | Diam. 2', small star near center, 20' SW of BD-184988 (6.0 mag) |
| 311 | 3234 | 18h 23m 10s | $-17^{\circ} 45^{\prime}$ | 18h 30m 27s | $-17^{\circ} 41^{\prime}$ | $15^{\circ}$ | $-3^{\circ}$ | Black, elliptical, diam. 6' NE and SW, in a semi-vacant strip 35' long |
| 312 | 3435 | 18h 25m 00s | $-15^{\circ} 40^{\prime}$ | 18h 32m 11s | $-15^{\circ} 35^{\prime}$ | $17^{\circ}$ | $-3^{\circ}$ | Large dark area, $13 / 4^{\circ} \mathrm{NW}$ and SE, about $30^{\prime}$ wide. This dark area is almost elliptical in form. It is sharply defined on its north and northwest sides, but is diffused to the south, and elsewhere. There is a heavy sprinkling of small stars all over it. |
| 313 | 34 | 18h 28m 46s | $-15^{\circ} 47^{\prime}$ | 18h 35m 57s | $-15^{\circ} 42^{\prime}$ | $17^{\circ}$ | $-4^{\circ}$ | Narrow, curved, 15' E and W |
| 314 | 3537 | 18h 30m 12s | $-09^{\circ} 49^{\prime}$ | 18h 37m 05s | $-09^{\circ} 44^{\prime}$ | $23^{\circ}$ | -1 ${ }^{\circ}$ | Irregular, dusky marking, 35' long NE and SW |
| 315 |  | 18h 34m 54s | $-20^{\circ} 09^{\prime}$ | 18h 42m 19s | $-20^{\circ} 03^{\prime}$ | $14^{\circ}$ | $-7^{\circ}$ | Round, dark, diam. 5' |
| 316 | 36 | 18h 35m 20s | $-02^{\circ} 15^{\prime}$ | 18h 41m 51s | $-02^{\circ} 09^{\prime}$ | $30^{\circ}$ | $+1^{\circ}$ | Dark, diam. 6', sharp on its S end, gradually diffusing to the N into a wide open space |
| 317 | 3435 | 18h 38m 40s | $-14^{\circ} 20^{\prime}$ | 18h 45m 46s | $-14^{\circ} 13^{\prime}$ | $20^{\circ}$ | $-5^{\circ}$ | Dusky, 30' NE and SW, 5' wide |
| 318 | 363739 | 18h 43m 00s | $-06^{\circ} 32^{\prime}$ | 18h 49m 43s | $-06^{\circ} 24^{\prime}$ | $27^{\circ}$ | $-3^{\circ}$ | Long, straight, dark line. This dusky line, just south of M 11, extends east and west for about $11 / 2^{\circ}$. It is uniformly about $2^{\prime}$ wide. |
| 319 | 3638 | 18h 45m 30s | $-01^{\circ} 25^{\prime}$ | 18h 51m 58s | $-01^{\circ} 17{ }^{\prime}$ | $32^{\circ}$ | $-1^{\circ}$ | Thin, curved, dark marking, length $7^{\prime}, \mathrm{BD}-1^{\circ} 3586$ (9.5 mag) at the NE end |
| 320 | 363739 | 18h 46m 06s | $-06^{\circ} 00^{\prime}$ | 18h 52m 47s | $-05^{\circ} 52$ | $28^{\circ}$ | $-3^{\circ}$ | Irregular, diam. 15' $\pm$, BD-64941 (7.5 mag) near center, at S end of the large crescent-shaped marking, B 111 |
| 321 | 37 | 18h 47m 05s | $-11^{\circ} 27^{\prime}$ | 18h 54m 02s | $-11^{\circ} 18^{\prime}$ | $23^{\circ}$ | $-6^{\circ}$ | Dusky, $15^{\prime}$ long E and W, $7^{\prime}$ wide, BD-11²4795 (7.8 mag) near W end |
| 322 | 36373839 | 18h 49m 10s | $-04^{\circ} 37^{\prime}$ | 18h 55m 47s | $-04^{\circ} 28^{\prime}$ | $30^{\circ}$ | $-3^{\circ}$ | Very small, black, diam. 2', at NE end of the "crescent", B 111 |
| 323 | 36373839 | 18h 51m 00s | $-03^{\circ} 35^{\prime}$ | 18h 57m 34s | $-03^{\circ} 26^{\prime}$ | $31^{\circ}$ | $-3^{\circ}$ | A dark parallelogram, $17^{\prime} \mathrm{N}$ and S, BD-34423 (9.2 mag) in W part |
| 324 | 36373839 | 18h 52m 50s | $-03^{\circ} 10^{\prime}$ | 18h 59m 23s | $-03^{\circ} 00^{\prime}$ | $31^{\circ}$ | $-3^{\circ}$ | Definite, dusky loop. The crooked dusky lane forming this marking is $2^{\prime}-4$ ' wide. The length of the east side is 35 '. The conspicuous star in the northeast part of the loop is BD-304439 (7.4 mag) |
| 325 | 36373839 | 18h 53m 18s | $-04^{\circ} 14^{\prime}$ | 18h 59m 54s | $-04^{\circ} 04^{\prime}$ | $30^{\circ}$ | $-4^{\circ}$ | Irregular, dusky, $15^{\prime}$ NW and SE |
| 326 | 3840 | $18 \mathrm{~h} 57 \mathrm{~m} \mathrm{00s}$ | $-00^{\circ} 34^{\prime}$ | 19h 03m 26s | $-00^{\circ} 24^{\prime}$ | $34^{\circ}$ | $-3^{\circ}$ | Narrow, 25' long E and W, 3' wide |
| 327 | 3739 | 18h 57 m 48 s | $-05^{\circ} 19^{\prime}$ | 19h 04m 27s | $-05^{\circ} 09^{\prime}$ | $30^{\circ}$ | $-5^{\circ}$ | Curved, dusky lane, $30^{\prime} \mathrm{N}$ and $\mathrm{S}, 3^{\prime}$ wide |
| 328 | 373839 | 18h 58m 13s | $-04^{\circ} 26^{\prime}$ | 19h 04m 50s | $-04^{\circ} 16^{\prime}$ | $31^{\circ}$ | -5 ${ }^{\circ}$ | Small, black, diam. 4', 13' S of BD-44684 (5.7 mag) |
| 329 | 40 | 19h 00m 44s | $+03^{\circ} 00^{\prime}$ | 19h 07m 00s | +03 ${ }^{\circ} 11^{\prime}$ | $38^{\circ}$ | $-2^{\circ}$ | Dusky spot in star cloud, diam. $6^{\prime} \pm, \mathrm{BD}^{\circ}+2^{\circ} 3789$ ( 9.0 mag ) near E edge |
| 330 | 41 | 19h 13m 30s | +07 ${ }^{\circ} 20^{\prime}$ | 19h 19m 34s | +07 ${ }^{\circ} 33^{\prime}$ | $43^{\circ}$ | $-3^{\circ}$ | Dark, round, diam. 30', BD+704028 (7.8 mag) on NE border |
| 331 | 41 | 19h $20 \mathrm{~m} \mathrm{00s}$ | +07 ${ }^{\circ} 20^{\prime}$ | 19h 26m 04s | +07 ${ }^{\circ} 34^{\prime}$ | $44^{\circ}$ | -4 ${ }^{\circ}$ | Dusky, narrow lane $1^{\circ}$ long NW and SE, 3' wide |
| 332 | 41 | 19h 22m 00s | $+08^{\circ} 30^{\prime}$ | 19h 28m 01s | +08 ${ }^{\circ} 45^{\prime}$ | $45^{\circ}$ | -4 ${ }^{\circ}$ | Area of dark lanes. A black spot, connected with these lanes, is located about $15^{\prime} \mathrm{N}$ of $\mathrm{BD}+8^{\circ} 4112$ ( 7.5 mag ) |
| 333 | 41 | 19h 23m 00s | +10 ${ }^{\circ} 25^{\prime}$ | 19h 28m 56s | $+10^{\circ} 40^{\prime}$ | $47^{\circ}$ | $-3^{\circ}$ | Area of irregular dark lanes, diam. $1^{\circ} \pm$, these irregular lanes have a uniform width of about $2^{\prime}$ or $3^{\prime}$ |


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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 334 | 41 | 19h 29m 15s | +12 ${ }^{\circ} 03^{\prime}$ | 19h 35m 06s | +12 ${ }^{\circ} 19^{\prime}$ | $49^{\circ}$ | $-4^{\circ}$ | Small, dark marking, diam. 3'. An extension from this small spot curves to the southwest. The star $\mathrm{BD}+11^{\circ} 3897(8.8 \mathrm{mag})$ is on the south edge of this curve. |
| 335 | 41 | 19h 30m 50s | $+07^{\circ} 20^{\prime}$ | 19h 36m 54s | $+07^{\circ} 36$ | $45^{\circ}$ | $-7^{\circ}$ | Small, very black, diam. 6', in a slightly larger dusky area, $\mathrm{BD}+7^{\circ} 4151$ ( 7.8 mag ) near its SW edge |
| 336 | 41 | 19h 30m 50s | +12 ${ }^{\circ} 04^{\prime}$ | 19h 36m 41s | +12 ${ }^{\circ} 20^{\prime}$ | $49^{\circ}$ | $-4^{\circ}$ | Dark, diam. $1^{\prime}-2^{\prime}$, in a slightly larger vacant space, $\mathrm{BD}+11^{\circ} 3912$ $(8.6 \mathrm{mag})$ in SW part |
| 337 | 41 | 19h 31m 10s | $+12^{\circ} 07^{\prime}$ | 19h 37m 01s | $+12^{\circ} 23^{\prime}$ | $49^{\circ}$ | $-4^{\circ}$ | Dark, diam. $3^{\prime}$, with narrow extension for $17^{\prime}$ to NW. This small spot, with its narrow extension, is in a relatively darker space in the star cloud. |
| 338 | 41 | 19h 36m 58s | $+07^{\circ} 10^{\prime}$ | 19h 43m 03s | $+07^{\circ} 27{ }^{\prime}$ | $46^{\circ}$ | $-8^{\circ}$ | Dusky, diam. $8^{\prime}$, just S of $\mathrm{BD}+7^{\circ} 4191$ (8.8 mag), in S part of B 339 |
| 339 | 41 | 19h 38m 00s | $+08^{\circ} 00^{\prime}$ | 19h 44m 03s | +08 ${ }^{\circ} 17$ | $46^{\circ}$ | -8 ${ }^{\circ}$ | Broken, dusky region covering more than $1^{\circ}$ |
| 340 | 41 | 19h 42m 50s | +11 ${ }^{\circ} 06^{\prime}$ | 19h 48m 45s | +11 ${ }^{\circ} 24^{\prime}$ | $50^{\circ}$ | $-7^{\circ}$ | Irregular, curved, diam. $7^{\prime}, 25^{\prime} \mathrm{S}$ of $\mathrm{BD}+11^{\circ} 3994$ (5.8 mag), a narrow extension for $15^{\prime}$ to the N |
| 341 | 43 | 19h 45m 18s | $+33^{\circ} 58^{\prime}$ | 19h 50m 01s | $+34^{\circ} 17^{\prime}$ | $70^{\circ}$ | $+4^{\circ}$ | Narrow dark lane, about $1 / 2^{\circ} \mathrm{E}$ and W. This is one of the several similar dark lines in this region. They are very clear cut and narrow, not more than $11 / 2^{\prime}$ wide. |
| 342 | 44 | 20h 05m 10s | +40 ${ }^{\circ} 50^{\prime}$ | 20h 09m 31s | +41 ${ }^{\circ} 12^{\prime}$ | $78^{\circ}$ | $+4^{\circ}$ | Small, dark marking, 4' E and W |
| 343 | 44 | 20h 09m 00s | $+39^{\circ} 54^{\prime}$ | 20h 13m 26s | $+40^{\circ} 16^{\prime}$ | $77^{\circ}$ | $+3^{\circ}$ | Elongated, 13' long NW and SE, sharpest at SSE end, several stars in S part, $10^{\prime} \pm$ E of BD $+39^{\circ} 4082$ ( 7.5 mag ) |
| 344 | 44 | 20h 11m 45s | $+38^{\circ} 50$ | 20h 16m 16s | $+39^{\circ} 13^{\prime}$ | $77^{\circ}$ | $+2^{\circ}$ | Dusky spot, $7^{\prime}$ long, like an arrowhead pointed SW, small star at NE end |
| 345 | 45 | 20h 17m 00s | $+46^{\circ} 10^{\prime}$ | 20h 21m 01s | $+46^{\circ} 33^{\prime}$ | $83^{\circ}$ | $+6^{\circ}$ | Curved, convex to the E, 15 ' long, bordered by two parallel curves of small stars |
| 346 | 45 | 20h 22m 30s | $+43^{\circ} 20^{\prime}$ | 20h 26m 46s | $+43^{\circ} 44^{\prime}$ | $82^{\circ}$ | $+3^{\circ}$ | Curved, black spot, diam. 10', embraces to the N a triangular mass of small stars |
| 347 | 44 | 20h 23m 55s | $+39^{\circ} 30$ | 20h 28m 28s | $+39^{\circ} 55^{\prime}$ | $79^{\circ}$ | $+1^{\circ}$ | Dark streak in nebulous cloud, less than $1^{\prime}$ wide, extending $10^{\prime} \mathrm{SW}$ from $\mathrm{BD}+39^{\circ} 4206$ ( 8.8 mag ) |
| 348 | 44 | 20h 30m 00s | $+41^{\circ} 40$ | 20h 34m 26s | $+42^{\circ} 05^{\prime}$ | $81^{\circ}$ | $+1^{\circ}$ | Narrow, dusky, nearly $1^{\circ}$ long NE and SW. The southwest end of this dusky lane curves west and then north, curving around the star BD $+41^{\circ} 3799$ ( 6.7 mag ) |
| 349 | 4546 | 20h 43m 00s | $+43^{\circ} 30^{\prime}$ | 20h 47m 24s | $+43^{\circ} 57{ }^{\prime}$ | $84^{\circ}$ | $+0^{\circ}$ | Small, curved, dusky, diam. 6'. Elongated north and south, with dusky extension running 15' northwest. A short line of small stars close west. |
| 350 | 4546 | 20h 44m 50s | +45 ${ }^{\circ} 25^{\prime}$ | 20h 49m 07s | +45 ${ }^{\circ} 53^{\prime}$ | $86^{\circ}$ | $+1^{\circ}$ | Small, round, dusky, diam. 3', 14' S of BD+45 ${ }^{\circ} 3291$ (5.6 mag) |
| 351 | 4548 | 20h 48m 16s | $+46^{\circ} 56^{\prime}$ | 20h 52m 28s | +47 ${ }^{\circ} 24^{\prime}$ | $87^{\circ}$ | $+2^{\circ}$ | Crooked, dusky lane, $3^{\prime}$ wide, $25^{\prime}$ long NE and SW, $1 / 2^{\circ} \mathrm{W}$ of $\mathrm{BD}+46^{\circ} 3111$ ( 6.0 mag ) |
| 352 | 454648 | 20h 52m 50s | $+45^{\circ} 25^{\prime}$ | 20h 57m 11s | +45 ${ }^{\circ} 54^{\prime}$ | $87^{\circ}$ | $+0^{\circ}$ | Large, black, diam. 22', sharply defined on SE side, a row of five stars runs nearly N and S across its E end |
| 353 | 4546 | 20h 53 m 00 s | $+45^{\circ} 00^{\prime}$ | 20h 57m 23s | $+45^{\circ} 29{ }^{\prime}$ | $86^{\circ}$ | $+0^{\circ}$ | Definite, dusky, $12^{\prime} \mathrm{N}$ and S, $6^{\prime}$ wide |
| 354 | 47 | 20h 55m 00s | +57 ${ }^{\circ} 40^{\prime}$ | 20h 58m 14s | +58 ${ }^{\circ} 09^{\prime}$ | $96^{\circ}$ | $+8^{\circ}$ | Dusky, irregular, $1^{\circ} \mathrm{NE}$ and SW |
| 355 | 46 | 20h 55m 05s | +42 ${ }^{\circ} 42^{\prime}$ | 20h 59m 38s | +43 ${ }^{\circ} 11^{\prime}$ | $85^{\circ}$ | $-2^{\circ}$ | Dark, definite, 5' E and W, like a letter V - the open end toward the E |


| B.D.O. \# | Plates | a 1875 | $\delta 1875$ | $\alpha 2000$ | $\delta 2000$ | Gal Long | Gal Lat |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | | Description |
| :--- |
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