

## INDEX OF ASTRONOMICAL OBJECTS

Objects designated by a prefix and the name of a constellation are listed according to the constellation e.g. HL Tau is listed under T. English characters are given precedence over Greek characters. Page numbers refer to the title page of the article in which the object is mentioned.

A2	473
AGL 915	373
AGL 3053	373
AFGL 333	157
AFGL 437	373
AFGL 989	381
AFGL 2136	381
AFGL 2591	381
AFGL 2884	381
R Aql	525
B5	417
B68	123
B227	117
B335	69, 71, 77, 117, 417
B361	117
BD+30°3639	373, 455
Betelgeuse	197
BN (Becklin- Neugebauer Object)	21, 25, 31, 33, 39, 41, 373, 381, 387, 445, 455, 465, 545, 565, 631
3C84	545
α Cam	271
Car I	125
Car II	125
Carina Nebula	125
R Cas	525, 535, 537, 539, 633
Cep A	83, 115
o Cet	487, 515, 525, 537, 539, 541
CIT6	479, 525
CMa OB1	197
VY CMa	479, 503, 525
Coalsack Nebula	123
Corina Austrina cloud	1
CPL 2591	593

CRL 618	455, 479
CRL 2132	373
CRL 2688	373, 455, 479
NML Cyg	525
P Cyg	509
V Cyg	509
V1016 Cyg	479
χ Cyg	515, 537
VI Cygni molecular cloud	261
VI Cygni No. 4	261
VI Cygni No. 5	261
VI Cygni No. 12	261, 263
VI Cygni No. 9	261
Cygnus Loop	473
30 Doradus	125, 389
DR 4	473
DR 21	93, 95, 117, 129, 397
DR 21 (OH)	1, 31, 117
Egg Nebula	479
G78	565
G79a	565
G350	117
G6.4-0.1	473
G9.6+0.2	113
G10.5+0.0	593
G11.4-0.1	473
G18.8+0.3	473
G21.8-0.6	473
G23.0-0.3	473
G23.95+0.15	83
G24.49-0.04	83
G24.7-0.6	473
G24.8+0.1	83, 113
G28.86+0.07	83
G31.4-0.3	83
G32.15+0.13	83
G32.8-0.1	473
G33.9+0.1	83
G34.3+0.1	83, 113
G34.6-0.5	473
G45.49+0.13	83
G45.5-0.1	115
G46.8-0.3	473
G74.0-8.6	473
G78.1+1.8	473
G84.2-0.8	473
G127.3+0.7	473

G133.8+1.4	157
G189.1+2.9	473
G205.11-14.11	83
G267.9-1.1	133
G287.6-0.6	133
G316.8-0.1	123
G327.3-0.6	133
G332.7-0.6	125
G332.8-0.6	125
G333.0-0.4	125
G333.0-0.6	125
G333.1-0.4	125
G333.2-0.1	125
G333.3-0.4	125
G333.6-0.2	125, 129, 133
G337.9-0.5	133
G351.6-1.3	129,
Galactic Centre	103, 109, 111, 209, 373, 381, 427, 565, 627
H79	565
H $\beta$ 12	455
HC 30	473
HD 23408	257
HD 23180	257
HD 23480	257
HD 30614	257
HD 36879	257
HD 39970	389
HD 41117	257
HD 42088	389
HD 44199	373
HD 44965	389
HD 46149	389
HD 46223	257
HD 46769	389
HD 47240	389
HD 48099	389
HD 53138	389
HD 53244	389
HD 60308	389
HD 64760	389
HD 68450	389
HD 75211	389
HD 83183	389
HD 86440	389
HD 87737	389
HD 91316	389
HD 93843	389
HD 97319	389
HD 97966	389
HD 102878	389

HD 106068	389
HD 109867	389
HD 111775	389
HD 115842	389
HD 143183	247
HD 147933	257
HD 148937	257
HD 149404	257
HD 151804	257
HD 152424	257
HD 153919	389
HD 154368	389
HD 156385	395
HD 165052	389
HD 167838	389
HD 169454	389
HD 192163	395
HD 209975	257
HD 213087	257
Heiles Cloud 2 (see also TMC 1)	47, 67, 71, 101, 117, 159, 439
U Her	525
$\alpha$ Her	633
HH28	173
HH29	173
HH102	173
V Hya	479
W Hya	525, 535, 537, 539
IC 348	185
IC 418	373, 479
IC 443	445, 455, 473
IC 1795	157
IC 1848	117
IC 1848-1	77
IC 2162	115
IC 5146	163, 411
IRC+10011	479, 525
IRC+10216	43, 397, 479, 487, 495, 497, 503, 509, 631
IRC+10420	503, 525
IRC+30219	509
IRC+50096	509
IRC+50137	525
IRC-10236	509
IRC-20540	525
IRc 2	33, 157, 525, 545, 565
IRc 3	545
IRc 4	565
IRS 2	565
IRS 3	565
IRS 4	71
IRS 5	565

Jupiter	487
K3-50	95, 115, 163, 373, 381
Kes 67	473
Kes 69	473
Kes 78	473
Khavtassi 3	101
KL (Kleinmann-Low Nebula)	21, 25, 31, 33, 39, 41, 45, 297, 445, 455, 545, 565
Kutner's Cloud	101
L43	81
L63	81
L134	71, 103, 117, 177, 339, 341, 411, 421
L134 N	1, 59, 69, 71, 81, 91, 117, 339, 421, 439
L183	59, 91, 411
L204	411
L1262	71, 417
L1317	103
L1407	1
L1521 B	47
L1524	411
L1529	1, 47, 77
L1533 (NH <sub>3</sub> )	77
L1534	81
L1535	77
L1544	47, 59, 69
L1544 (NH <sub>3</sub> )	77
L1544 (HC <sub>5</sub> N)	77
L1551	103, 173
L1622	117
L1.3(80)	111
L1.3(-30)	111
L3.0(0)	111
L3.0(100)	111
CW Leo	495
R Leo	525, 537, 539, 541, 543, 545
ρ Leo	389, 395
Lk Hα 349	455
LMC (Large Magellanic Cloud)	125, 389
M1-92	479
M8	389
M17	31, 99, 125, 159, 187, 397, 593
M17 A	117, 373
M17 B	373
M17 L	117
M17 SW	1, 81, 133
M17 IRS1	31

M20	473
M31	137, 213
M51	191
M74	191
M81	137
M82	373
M101	137, 191
Magellanic Clouds	125, 389, 427, 611
Mars	487
Mira	487
Monoceros, Constel- lation of	197
Mon OB2	163
Mon R2	83, 115, 117, 135, 197
Mon R2 IRS 2	31
Mon R2 IRS 3	31
15 Mon	611
MWC 922	373
N4	83
N7	83
N90	125
N159	125
N2-3	83
N12-15	83
N16-17	83
NBM 79	565
NGC157	137
NGC253	373
NGC896	157
NGC1068	455, 471
NGC1333	175, 185, 593
NGC1333 (H <sub>2</sub> O)	31
NGC1333 IR	31
NGC2024	99, 397, 409
NGC2170	135
NGC2264	1, 81, 117, 397
NGC2440	455
NGC2841	137
NGC4945	599
NGC6334	117, 397
NGC6334 I	129
NGC6334 IRS1	31, 129
NGC6334 N	1
NGC6720	455
NGC6857	115, 163
NGC7023	103
NGC7027	43, 373, 455
NGC7538	117, 373, 397, 455, 579, 593
NGC7538 IRS1	31, 115, 381
NGC7538 IRS9	381
NGC7662	479
NGC7793	191

Ocl 352	117
OH 0739-14	479
OMC1	1, 25, 47, 129, 135, 631
OMC2	1, 31, 85, 117, 135
ON-1	83, 115, 593
ON-2	83, 579, 593
ON-3	95, 115
Oph 4	183
$\zeta$ Oph	247, 257, 263, 269, 271, 273, 283, 289
$\rho$ Oph	81, 101, 117, 133, 159, 183, 421
Orion, Constellation	
of	197
Ori I-2	77
U Ori	525
$\alpha$ Ori	479, 515, 533
Orion	31, 125, 341, 389, 427, 525
Orion A	25, 39, 43, 117, 123, 197, 297, 397, 525, 539, 541, 579, 593
Orion B	117, 197
Orion KL	see KL
Orion molecular	
cloud	33, 41, 405, 445, 455, 465, 469, 565, 603
Orion Nebula	33, 455, 545
Orion 'plateau'	
source	21, 25, 31, 33, 39, 469, 545, 565
Orion Source A	565
Orion 'spike' source	33, 39
Orion's Sword	197
Orion Trapezium	381
Perseus OB2	
molecular cloud	185
$\zeta$ Per	247, 263, 271, 273, 281
$\xi$ Per	247, 271, 514
$\omicron$ Per	117, 185, 247, 273
Pleiades	257
R131	83
RCW 38	123, 129
RCW 57	129
RCW 106	123, 125
RCW 117	129
RCW 122	123, 129
RLK 73	565
Rosette IRS	83
Rosette Nebula	197
S68	83, 85
S87	83
S88	83, 115
S106	89, 115

S125	151
S140	1, 25, 71, 83, 85, 593
S140 IR	39
S152	593
S155	151
S156	163
S156A	83
S157	115
S158	115
S158 (H <sub>2</sub> O) South	115
S158 IRS9	115
S158G IRS1	115
S159	115
S184	151
S187	83, 103, 115
S228	115
S235	83
S239	103, 173
S254	213
S255	1, 41, 83, 115, 117, 381, 593
S255 IRS1	41
S255 IRS2	41
S258	213
S269	115, 593
Saturn	487
α Sco	633
δ Sco	247
Serpens Object	175
HM Sge	479
SgrA	103, 117, 133, 209, 397, 405, 409, 427
SgrA Cont.	103
SgrA East	103
SgrA West	103
SgrA 40 km/s cloud	103
SgrB	397, 427
SgrB2	45, 47, 71, 117, 129, 133, 209, 297, 299, 311, 405, 409
VX Sgr	503, 525, 535
Sh2-125	163
Sh2-152	163
Sg2-153	163
Sh2-247	163
Sh2-252	163
Sh2-254	163
Sh2-255	163
Sh2-256	163
Sh2-257	163
Sh2-258	163
SMC (Small Magellanic Cloud)	125, 389



20 Tau	257
23 Tau	257
HL Tau	173
NML Tau	479, 525
XZ Tau	173
T Tauri	455
Taurus Auriga dark cloud complex	165
Taurus dark cloud	47, 77
TMC	117
TMC 1 (see also Heiles Cloud 2)	47, 59, 67, 69, 71, 297, 427
TMC 1 (cont.)	77
TMC 1 (HC <sub>5</sub> N)	77
TMC 1 (NH <sub>3</sub> )	77
TMC 2	47, 59, 69, 71, 421
vdB 68	135
vdB 69	135
Venus	633
W1	115
W3	117, 129, 159, 163, 187, 397, 455, 565, 593
W3 C	71
W3 E	455
W3 IRS5	31
W3 molecular cloud	157
W3 (OH)	31, 71, 117, 157, 565, 579, 581, 593
W3 W	473
W4	159, 163, 187
W4 HII	157
W28	473
W31	397, 593
W33	117, 125, 397, 405, 409, 592
W33 A	125, 157, 381
W41	473
W43	117, 397
W43 S	83
W44	473
W48	83
W49	117, 129, 397, 565, 593, 599
W49 (1)	579
W49 (2)	579
W49 N	565, 591, 593
W49 (SO)	71
W51	117, 397, 405, 409, 427, 565
W51 core region	565
W51 double knot	565
W51 high velocity cluster	565
W51 IRS2	373, 381
W51 M	593

W51 Main	565
W51 North	565
W58	90, 115
W75	129
W75 S	593
W80	151
WWB 74	565