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A S T R O F I L O

**Le meraviglie
di Messier**

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Magnifica immagine del primo oggetto inserito nel celebre Catalogo di Messier. M1 è il più famoso fra tutti i residui di supernova. La stella che lo originò esplose nel 1054 d.C.
[NASA/ESA]

NUMERO SPECIALE

Le meraviglie di Messier

Presentazione

Il Catalogo di Messier è senza dubbio il più celebre fra tutti i cataloghi di oggetti celesti, vuoi perché è il più eterogeneo, vuoi perché in esso sono contenuti molti degli ammassi stellari, delle galassie e delle nebulose più brillanti e affascinanti di tutto il cielo.

Numerosi degli oggetti introdotti da Messier nel suo catalogo sono già visibili a occhio nudo e diventano uno spettacolo se inquadrati nel campo di binocoli e piccoli telescopi. In molti casi, più aumenta la potenza dello strumento utilizzato per osservarli e più la loro bellezza si manifesta.

In questo speciale vedremo per alcuni oggetti di Messier il massimo risultato fotografico professionale che si possa ottenere, mentre di altri saranno proposte immagini alla portata di astrofili mediamente attrezzati.

Per quanto il catalogo sia celebre, però, sono pochi gli astrofili che possono dire di conoscere tutti gli oggetti che lo compongono, anzi, spesso e volentieri ci si ricorda solo di quelli più noti, ignorando persino a quale tipologia appartengano tutti gli altri.

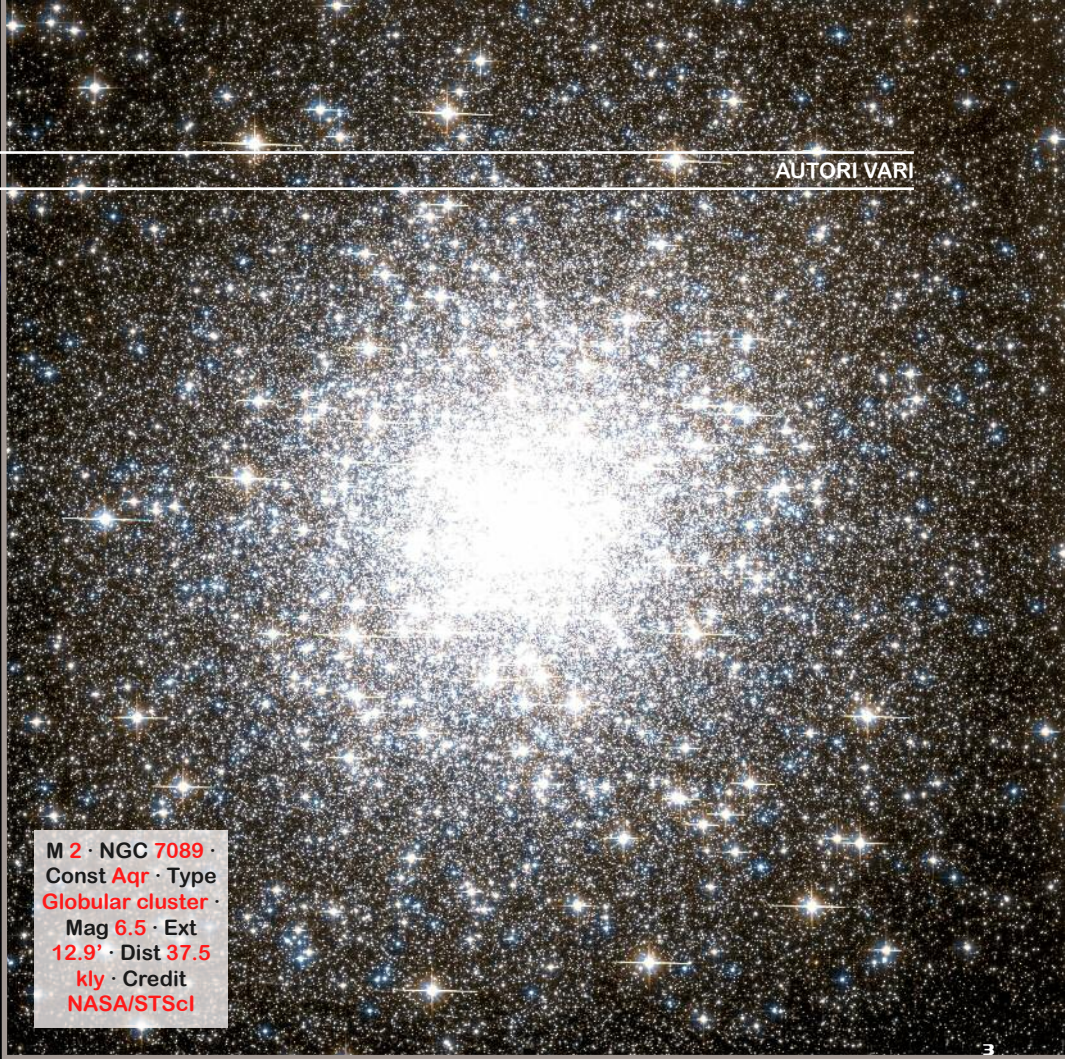
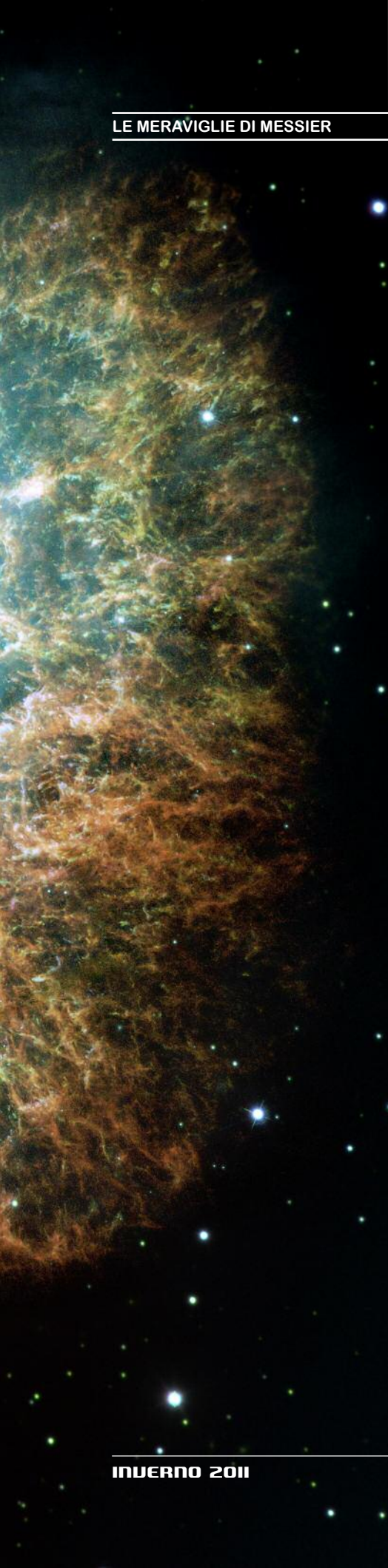
Questo speciale può aiutare a rinfrescare la memoria e a reperire rapidamente i dati essenziali di tutti i 110 oggetti del catalogo, utili nel caso si decida di osservarli o di fotografarli.

Michele Ferrara

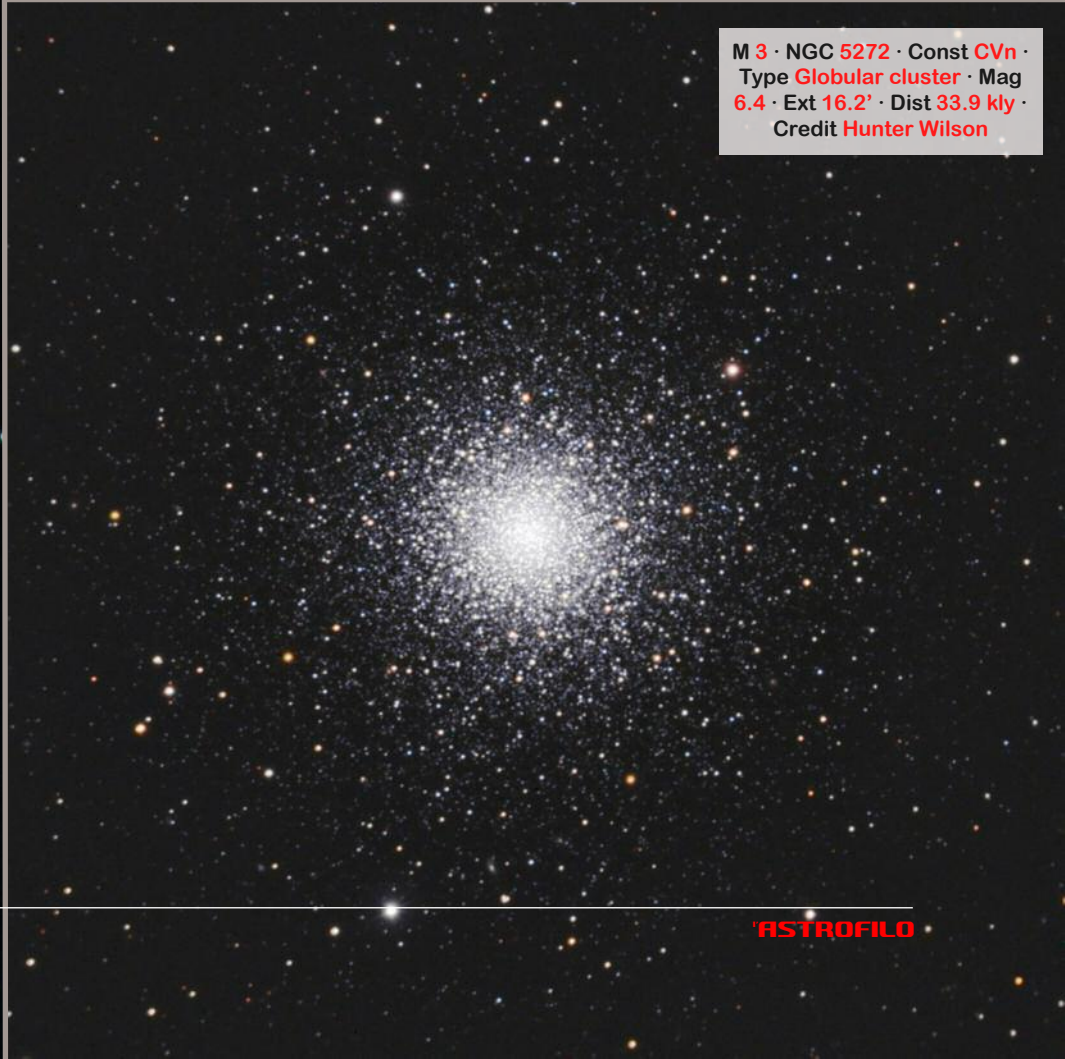
Le meraviglie di Messier

2

M 1 · NGC 1952 · Const **Tau** · Type **Supernova**
remnant · Mag 8.4 · Ext 6x4' · Dist 6.5 kly ·
Name **Crab Nebula** · Credit **NASA/ESA**

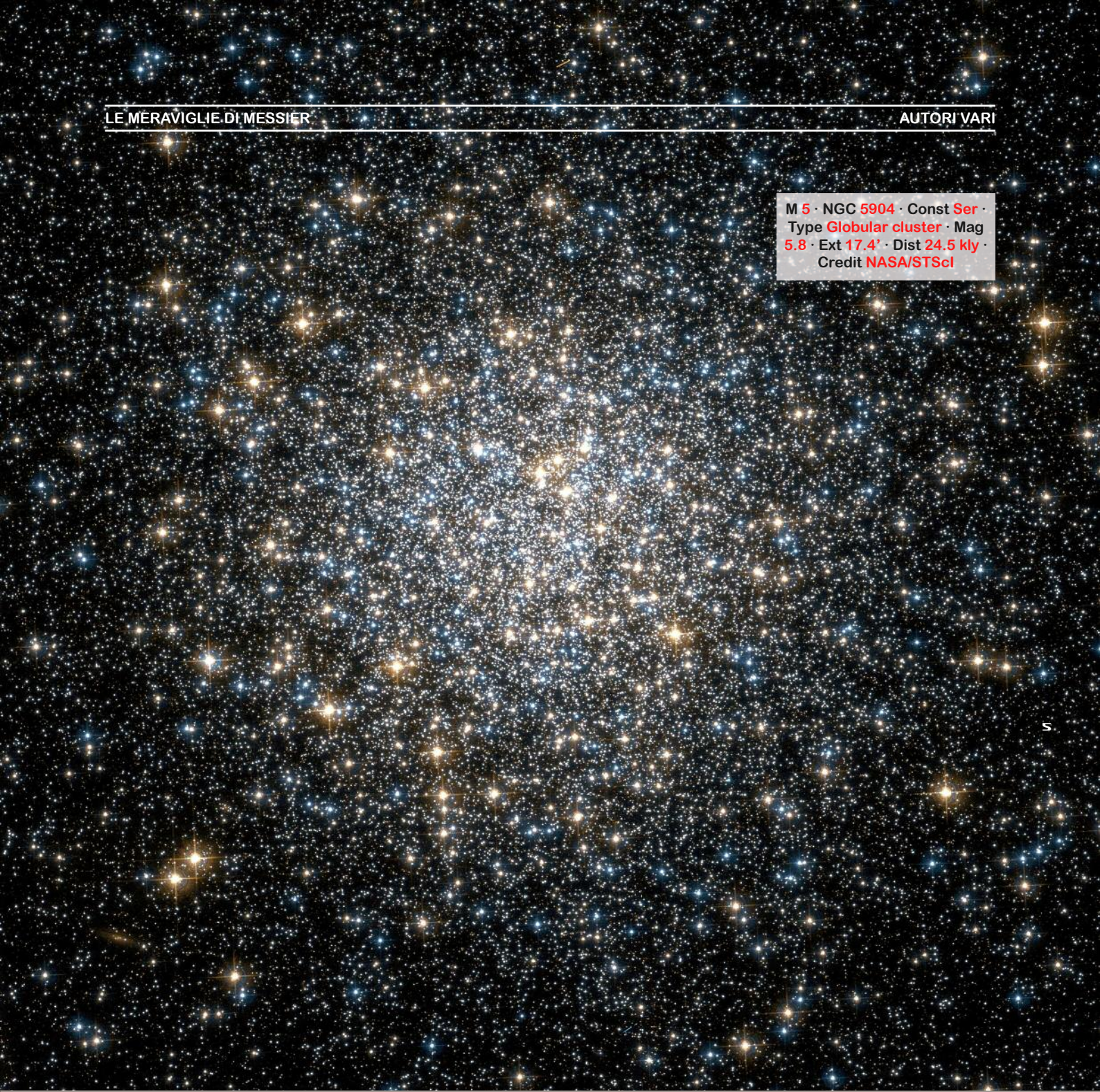


M 2 · NGC 7089 ·
Const Aqr · Type
Globular cluster ·
Mag 6.5 · Ext
12.9' · Dist 37.5
kly · Credit
NASA/STScI



M 3 · NGC 5272 · Const CVn ·
Type Globular cluster · Mag
6.4 · Ext 16.2' · Dist 33.9 kly ·
Credit Hunter Wilson

M 4 · NGC 6121 · Const
Sco · Type Globular
cluster · Mag 5.9 · Ext
26.3' · Dist 7.2 kly ·
Credit NASA/STScI



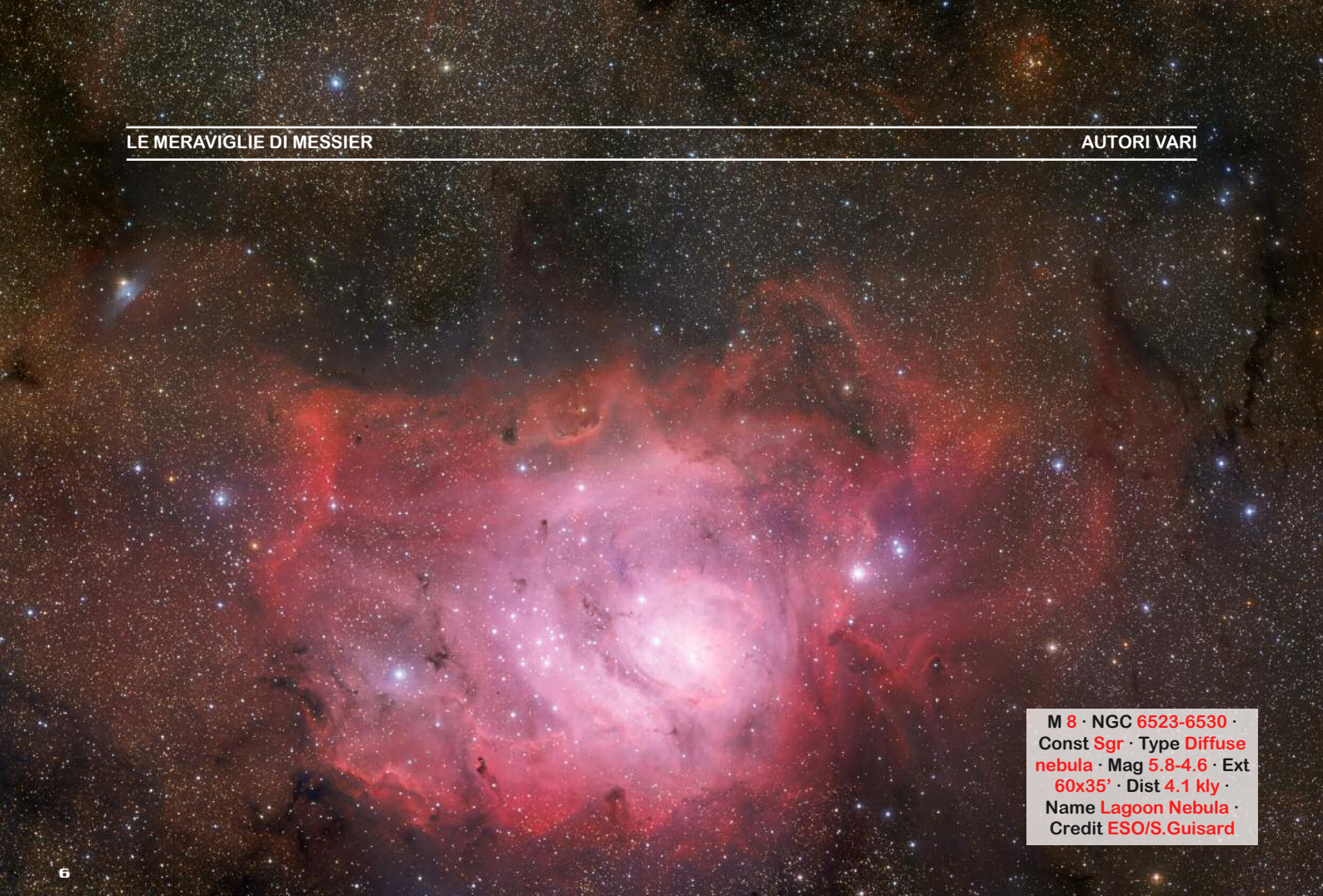
M 5 · NGC 5904 · Const Ser ·
Type Globular cluster · Mag
5.8 · Ext 17.4' · Dist 24.5 kly ·
Credit NASA/STScI



M 6 · NGC 6405 · Const Sco · Type Open cluster
· Mag 4.2 · Ext 15' · Dist 1.6 kly · Name Butterfly
Cluster · Credit Dean Jacobsen

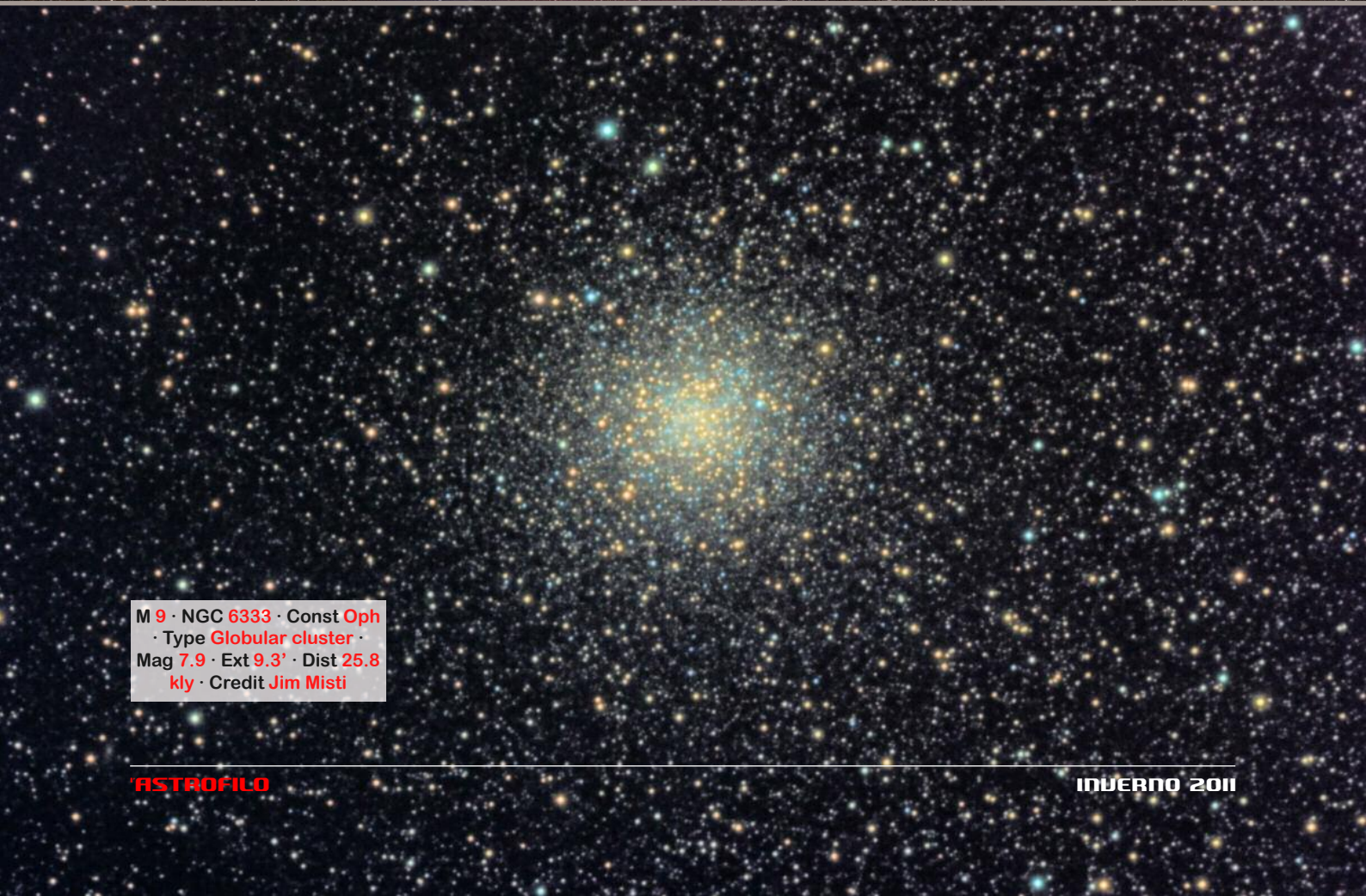


M 7 · NGC 6475 · Const Sco · Type Open cluster ·
Mag 3.3 · Ext 80' · Dist 800 ly · Credit Dean Jacobsen



M 8 · NGC 6523-6530 ·
Const Sgr · Type Diffuse
nebula · Mag 5.8-4.6 · Ext
60x35' · Dist 4.1 kly ·
Name Lagoon Nebula ·
Credit ESO/S.Guisard

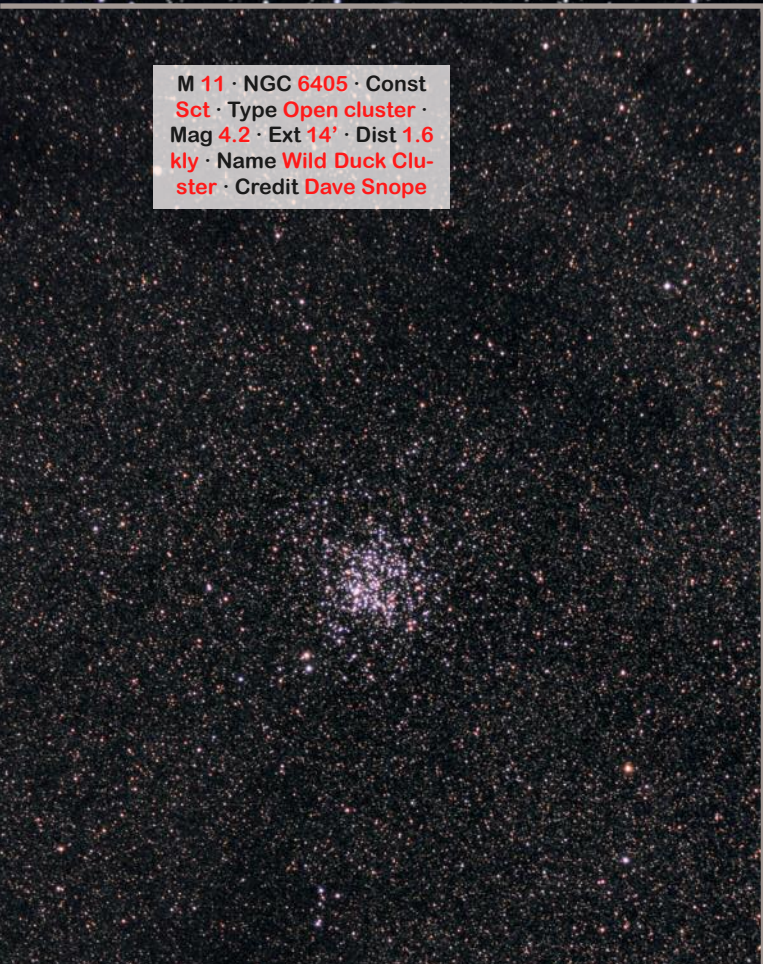
6



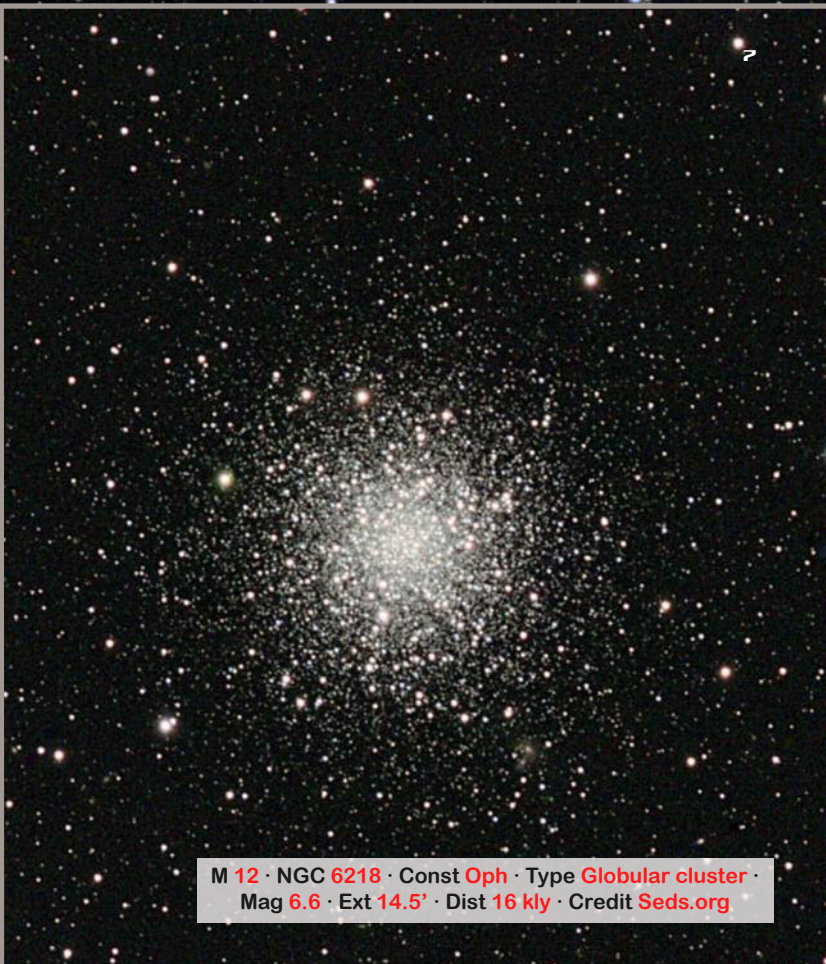
M 9 · NGC 6333 · Const Oph
· Type Globular cluster ·
Mag 7.9 · Ext 9.3' · Dist 25.8
kly · Credit Jim Misti



M 10 · NGC 6254 · Const **Oph** ·
Type **Globular cluster** · Mag
6.6 · Ext **15.1'** · Dist **14.3 kly** ·
Credit **Antihue Obs.**

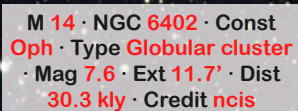


M 11 · NGC 6405 · Const
Sct · Type **Open cluster** ·
Mag **4.2** · Ext **14'** · Dist **1.6**
kly · Name **Wild Duck Clu-**
ster · Credit **Dave Snope**



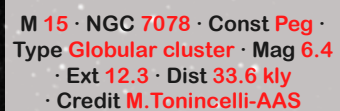
M 12 · NGC 6218 · Const **Oph** · Type **Globular cluster** ·
Mag **6.6** · Ext **14.5'** · Dist **16 kly** · Credit **Seds.org**

M 13 · NGC 6205 · Const **Her** ·
Type **Globular cluster** · Mag
5.9 · Ext **16.6'** · Dist **25.1 kly** ·
Credit **NASA/ESA**

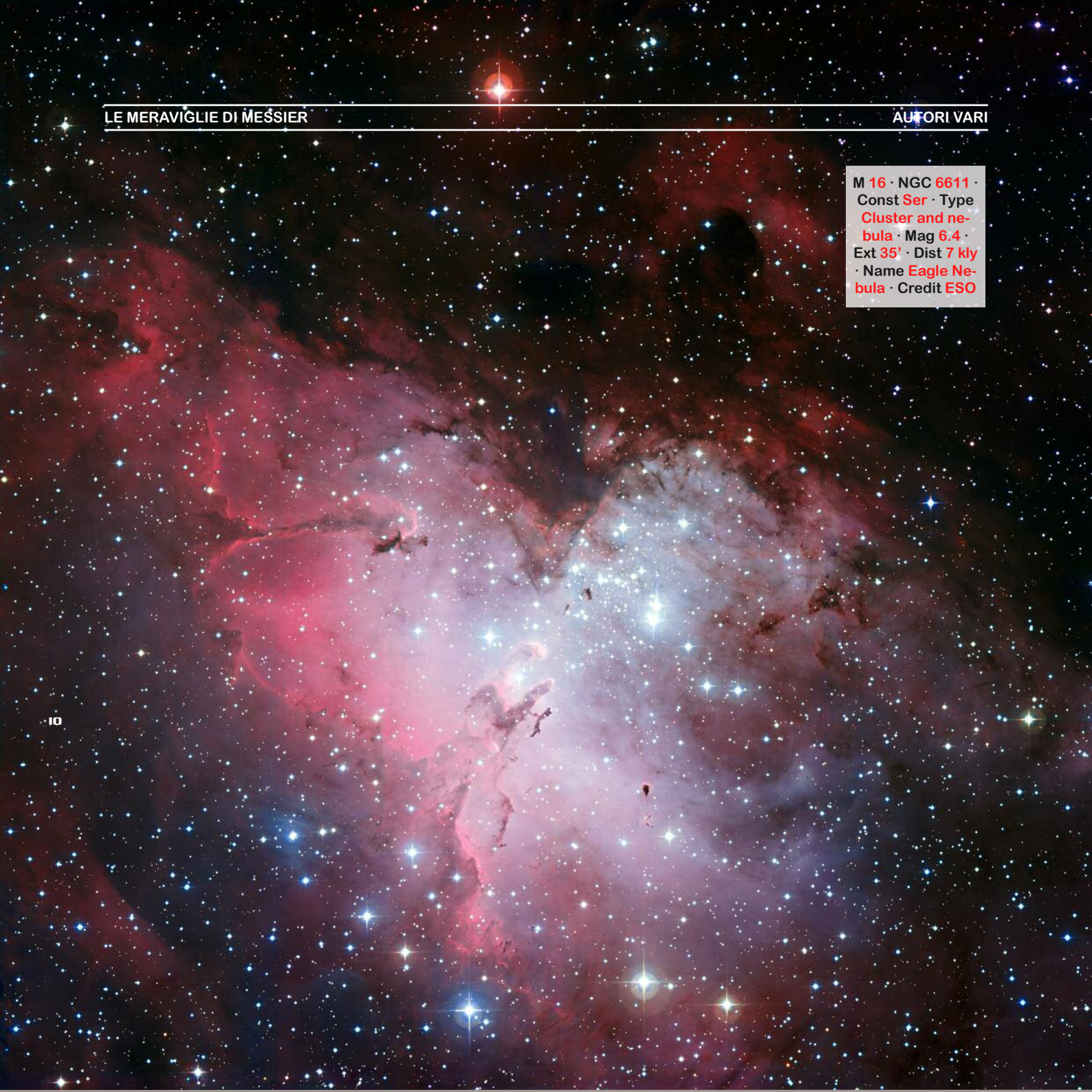
A large, dense, yellowish-white globular cluster of stars, centered in the upper half of the frame, surrounded by a field of smaller, distant stars.

M 14 · NGC 6402 · Const
Oph · Type Globular cluster
· Mag 7.6 · Ext 11.7' · Dist
30.3 kly · Credit ncis

9

A large, dense, white globular cluster of stars, centered in the lower half of the frame, surrounded by a field of smaller, distant stars.

M 15 · NGC 7078 · Const Peg ·
Type Globular cluster · Mag 6.4
· Ext 12.3 · Dist 33.6 kly
· Credit M.Tonincelli-AAS



M 16 · NGC 6611 ·
Const Ser · Type
Cluster and ne-
bula · Mag 6.4 ·
Ext 35' · Dist 7 kly
· Name Eagle Ne-
bula · Credit ESO

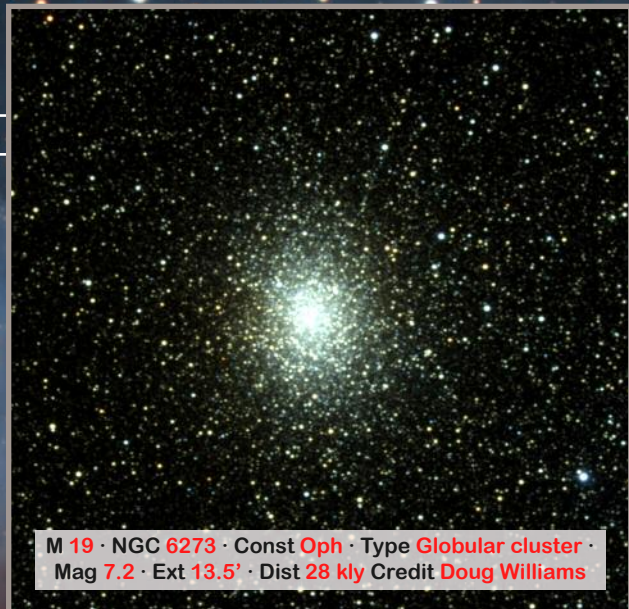
10



M 17 · NGC 6618 · Const Sgr · Type Cluster and nebula · Mag 7.0 ·
Ext 46' · Dist 5.5 kly · Name Omega Nebula · Credit Ole Nielsen



M 18 · NGC
6613 · Const
Sgr · Type
Open cluster ·
Mag 6.9 · Ext 9' ·
Dist 4.9 kly
Credit 2MASS



M 19 · NGC 6273 · Const **Oph** · Type **Globular cluster** ·
Mag **7.2** · Ext **13.5'** · Dist **28 kly** Credit **Doug Williams**

M 20 · NGC 6514 · Const **Sgr** · Type **Cluster and nebula** ·
Mag **6.3** · Ext **29'** · Dist **7.6 kly** ·
Name **Trifid Nebula** ·
Credit **NASA/ESA**



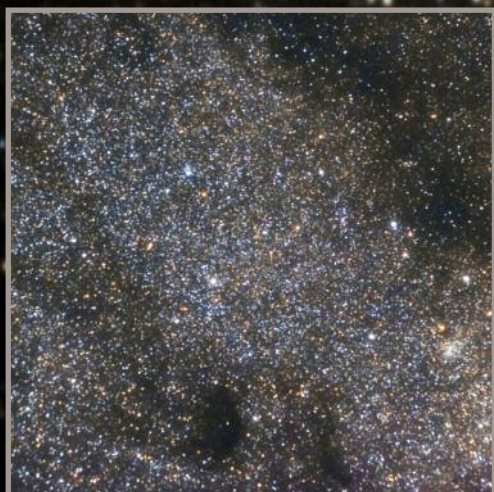
M 21 · NGC 6531 ·
Const Sgr · Type
Open cluster · Mag
5.9 · Ext 13' · Dist
4.2 kly · Credit REU
program/NOAO/
AURA/NSF



M 23 · NGC 6494 ·
Const Sgr · Type Open
cluster · Mag 5.5 · Ext
27' · Dist 2.1 kly · Cre-
dit N.A.Sharp, REU
program

12

M 22 · NGC 6656 ·
Const Sgr · Type Glo-
bular cluster · Mag 5.1 ·
Ext 24' · Dist 11 kly ·
Credit ncis



M 24 · near NGC
6603 · Const Sgr ·
Type Starcloud ·
Mag -- · Ext -- · Dist
4.1 kly · Credit ncis



M 25 · IC 4725 · Const
Sgr · Type Open cluster
· Mag 4.6 · Ext 32' · Dist
2 kly · Credit H.Mathis,
V.Harvey, REU program

M 26 · NGC 6694 · Const Sct · Type Open cluster · Mag 8.0 · Ext 15' · Dist 5 kly · Credit George Jacoby, WIYN/NSF

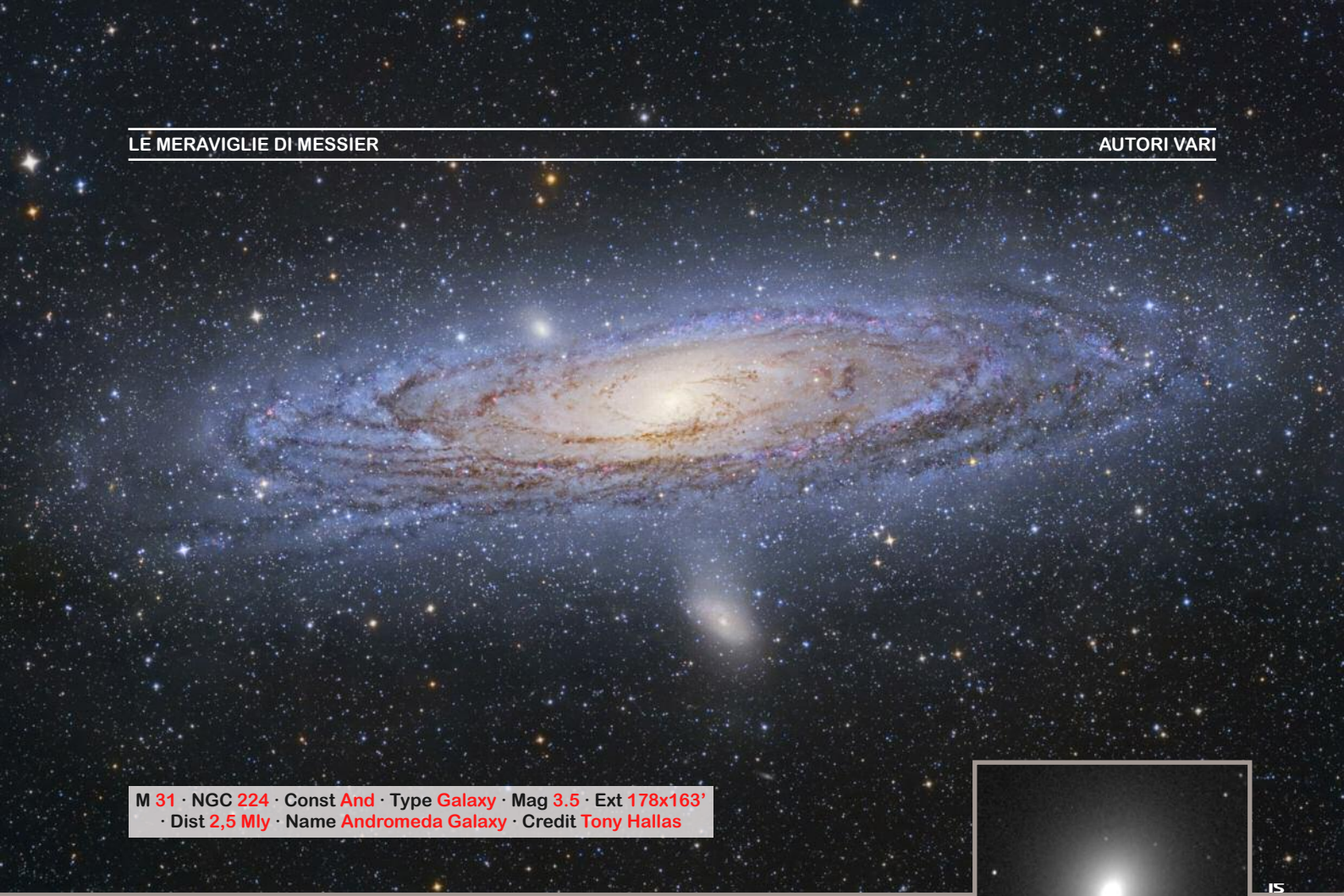
13

M 27 · NGC 6853 · Const
Vul · Type Planetary ne-
bula · Mag 8.1 · Ext
8.0x5.7' · Dist 1.3 kly ·
Name Dumbbell Nebula ·
Credit M.Tonincelli-AAS

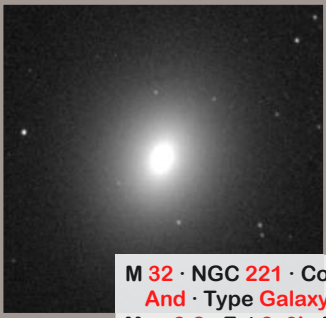
M 28 · NGC 6626 · Const Sgr ·
Type Globular cluster · Mag 6.9 ·
Ext 11.2' · Dist 18.3 kly · Credit
NOAO/AURA/NSF

M 29 · NGC 6913 · Const
Cyg · Type Open cluster ·
Mag 6.6 · Ext 7' · Dist 4 kly
· Credit 2MASS

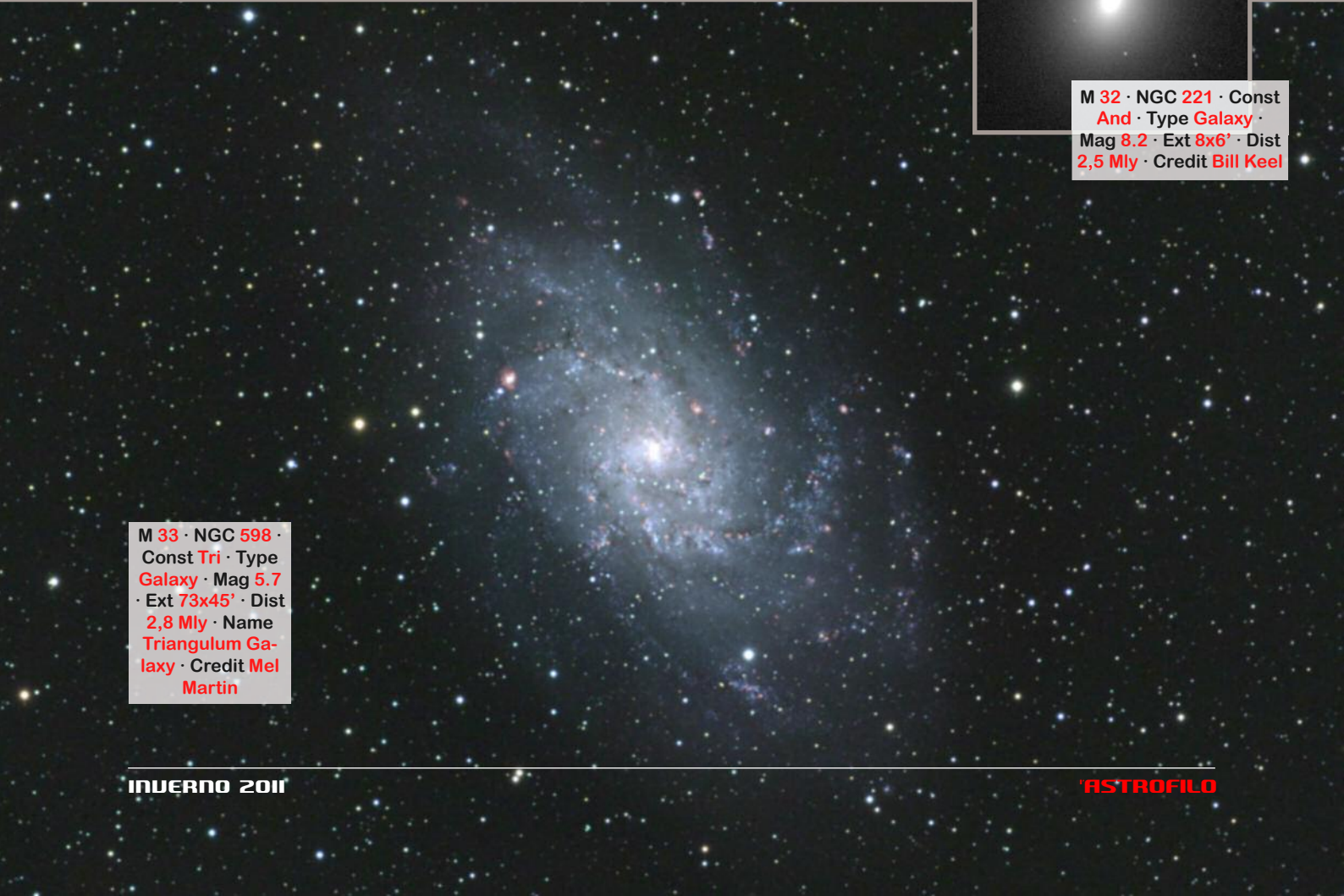
M 30 · NGC
7099 · Const
Cap · Type Glo-
bular cluster ·
Mag 7.5 · Ext
11' · Dist 26 kly ·
Credit Jim Misti



M 31 · NGC 224 · Const And · Type Galaxy · Mag 3.5 · Ext 178x163' · Dist 2,5 Mly · Name Andromeda Galaxy · Credit Tony Hallas



M 32 · NGC 221 · Const And · Type Galaxy · Mag 8.2 · Ext 8x6' · Dist 2,5 Mly · Credit Bill Keel



M 33 · NGC 598 · Const Tri · Type Galaxy · Mag 5.7 · Ext 73x45' · Dist 2,8 Mly · Name Triangulum Galaxy · Credit Mel Martin

M 34 · NGC
1039 · Const
Per · Type
Open cluster ·
Mag 5.2 · Ext
35' · Dist 1.5
kly · Credit
Bob Franke

16

M 35 · NGC 2168 · Const Gem
· Type Open cluster · Mag 5.1
· Ext 28' · Dist 2.8 kly · Credit
Astrophoton.com

M 36 · NGC 1960 ·
Const **Aur** · Type **Open**
cluster · Mag **6.0** · Ext
12' · Dist **4.1 kly** · Credit
Hannes Bachleitner

M 37 · NGC 2099 ·
Const **Aur** · Type **Open**
cluster · Mag **5.6** · Ext
24' · Dist **4.4 kly** · Credit
Hannes Bachleitner

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M 38 · NGC 1912 ·
Const **Aur** · Type
Open cluster · Mag
6.4 · Ext **21'** · Dist
4.2 kly · Credit
NOAO/AURA/NSF

LE MERAVIGLIE DI MESSIER

AUTORI VARI

M 39 · NGC
7092 · Const
Cyg · Type
Open cluster ·
Mag 4.6 · Ext
32' · Dist 800 ly
· Credit ncis

M 40 · WNC 4 · Const UMa ·
Type Pair of stars · Mag 10 · Ext
50" · Dist 510 ly · Credit ncis

18

M 41 · NGC
2287 · Const
CMa · Type
Open cluster ·
Mag 4.5 · Ext
38' · Dist 2.3
kly · Credit
NOAO/AURA/
NSF

M 43 · NGC
1982 · Const
Ori · Type **Dif-**
fuse nebula ·
Mag **9.0** · Ext
20x15' · Dist
1.6 kly · Credit
NASA/ESA

M 42 · NGC **1976** ·
Const **Ori** · Type **Dif-**
fuse nebula · Mag
4.0 · Ext **85x60'** ·
Dist **1.3 kly** · Name
Orion Nebula · Cre-
dit **M.Tonincelli-AAS**

M 44 · NGC **2632** ·
Const **Cnc** · Type
Open cluster · Mag
3.1 · Ext **95'** · Dist
577 ly · Name **Bee-**
hive Cluster · Credit
Dogwood Ridge Obs.

M 45 · Const **Tau** ·
Type **(very) Open**
cluster · Mag --- ·
Ext 110' · Dist 440
ly · Name **Pleiades**
· Credit **Dave Miller**

M 46 · NGC 2437 ·
Const **Pup** · Type
Open cluster · Mag
6.1 · Ext 27' · Dist 5.4
kly · Credit **Jim Misti,**
Robert Gendler

M 47 · NGC 2422 · Const **Pup** · Type
Open cluster · Mag 4.4 · Ext 30' · Dist
1.6 kly · Credit **NOAO/AURA/NSF**

20

M 48 · NGC 2548 ·
Const **Hya** · Type
Open cluster · Mag
5.8 · Ext 54' · Dist
1.5 kly · Credit
NOAO/AURA/NSF

M 49 · NGC 4472 · Const
Vir · Type **Galaxy** · Mag
8.4 · Ext 9x7.5' · Dist 56
Mly · Credit **Sid Leach**

M 50 · NGC 2323 ·
Const **Mon** · Type
Open cluster · Mag
5.9 · Ext 16' · Dist
3.2 kly · Credit **Sven**
Kohle, Till Credner

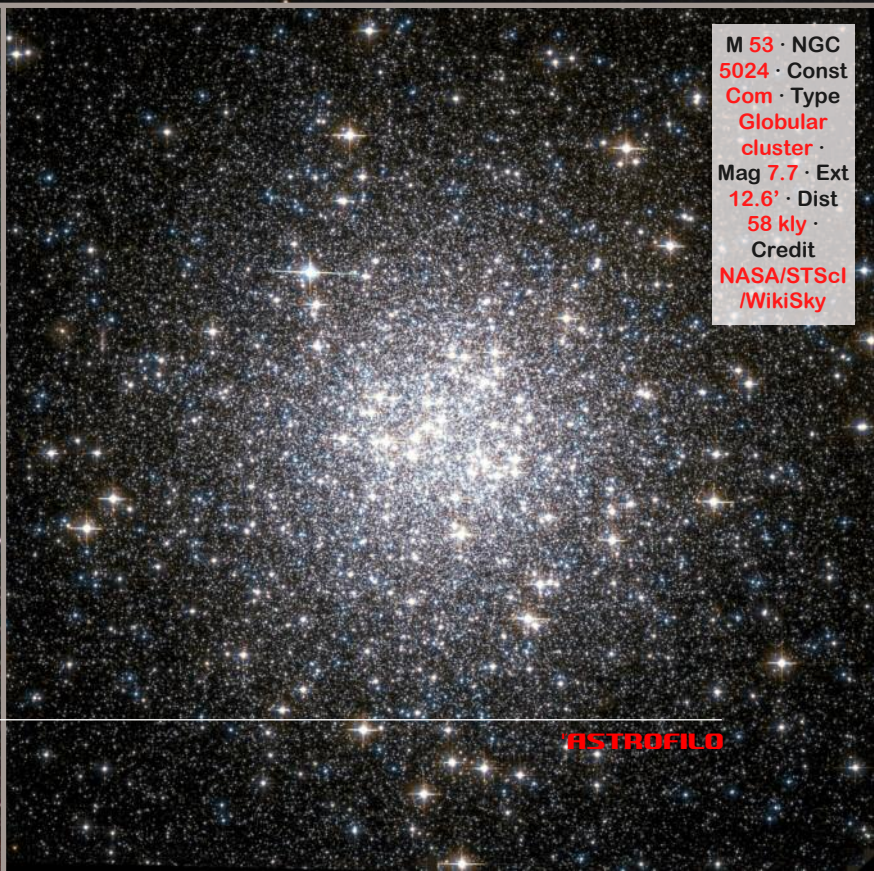
M 51 · NGC 5194 · Const
CVn · Type Galaxy · Mag
8.4 · Ext 11x7' · Dist 23 Mly
· Name Whirlpool Galaxy ·
Credit M.Tonincelli-AAS

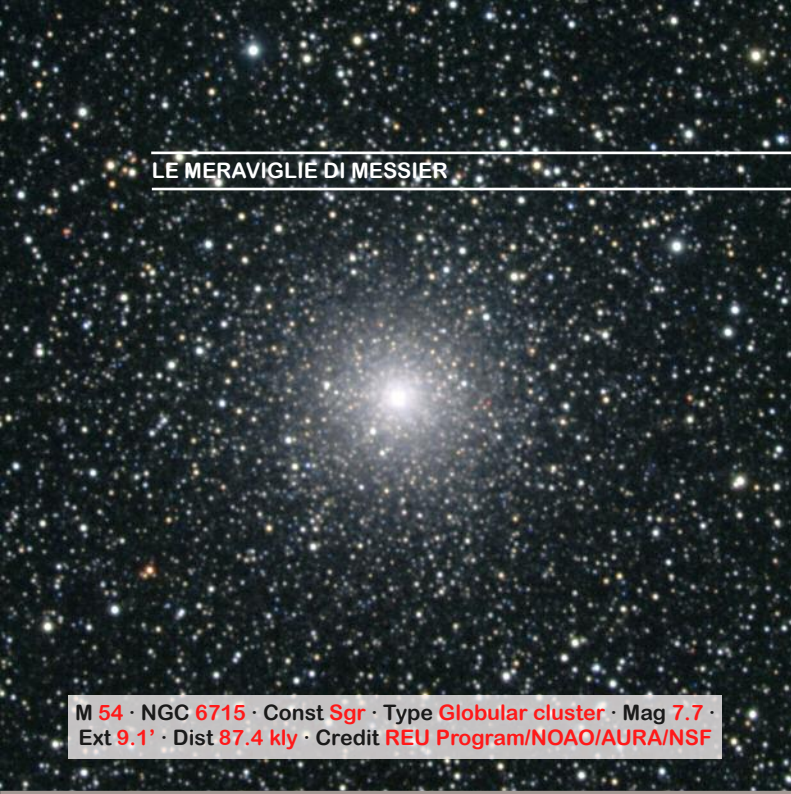


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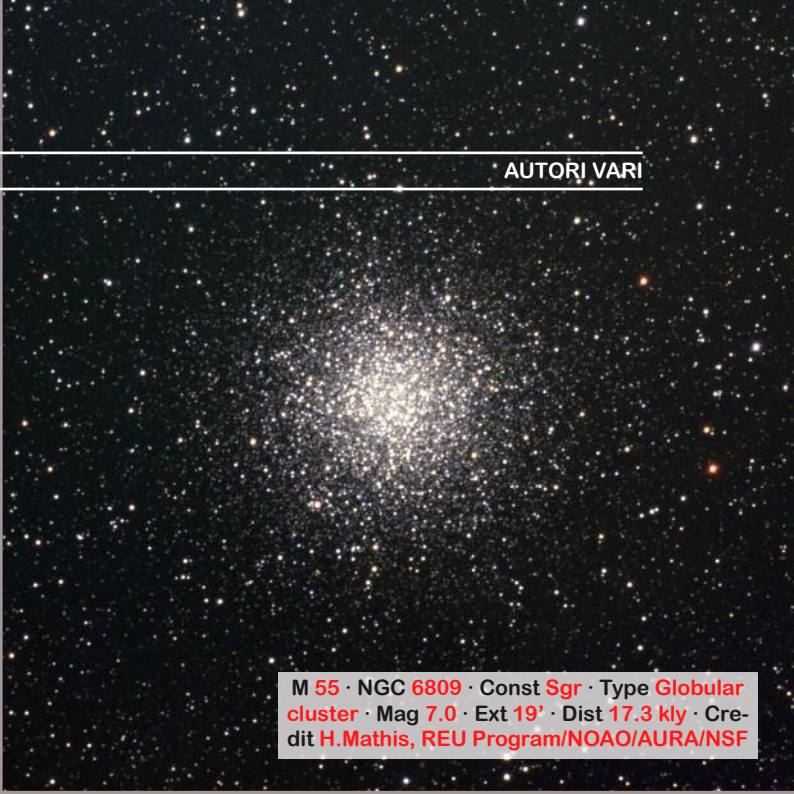
M 52 · NGC 7654 · Const Cas · Type Open cluster ·
Mag 6.9 · Ext 13' · Dist 5 kly · Credit Stuart Heggie

M 53 · NGC
5024 · Const
Com · Type
Globular
cluster ·
Mag 7.7 · Ext
12.6' · Dist
58 kly ·
Credit
NASA/STScI
/WikiSky



A deep-sky photograph of the globular cluster M 54, showing a dense, spherical collection of stars with a bright central core. The background is filled with numerous individual stars of varying brightness.

M 54 · NGC 6715 · Const Sgr · Type Globular cluster · Mag 7.7 · Ext 9.1' · Dist 87.4 kly · Credit REU Program/NOAO/AURA/NSF

A deep-sky photograph of the globular cluster M 55, showing a dense, spherical collection of stars with a bright central core. The background is filled with numerous individual stars of varying brightness.

M 55 · NGC 6809 · Const Sgr · Type Globular cluster · Mag 7.0 · Ext 19' · Dist 17.3 kly · Credit H.Mathis, REU Program/NOAO/AURA/NSF

22

A large, detailed deep-sky photograph of the globular cluster M 56, showing a very dense, spherical collection of stars with a bright central core. The background is filled with numerous individual stars of varying brightness.

M 56 · NGC 6779 · Const Lyr · Type Globular cluster · Mag 8.3 · Ext 7.1' · Dist 32.9 kly · Credit NASA/STScI/ WikiSky



M 57 · NGC 6720 · Const Lyr · Type Planetary nebula · Mag 9.0 · Ext 1.4x1.0' · Dist 2.3 kly · Name The Ring Nebula · Credit George Nor- mandin



M 59 · NGC 4621 · Const Vir · Type Galaxy · Mag 9.8 · Ext 5x3.5' · Dist 60 Mly · Credit AURA/NOAO/NSF



M 58 · NGC 4579 · Const Vir · Type Galaxy · Mag 9.8 · Ext 5.5x4.5' · Dist 62 Mly · Credit S.Mandel/A.Block/NOAO/AURA/NSF



M 60 · NGC 4649 · Const Vir · Type Galaxy · Mag 8.8 · Ext 7x6' · Dist 55 Mly · Credit NASA/STScI

M 61 · NGC 4303
 · Const Vir ·
 Type Galaxy ·
 Mag 9.7 · Ext 6' ·
 Dist 52 Mly ·
 Credit H.Mathis,
 N.A.Sharp/NOA
 O/AURA/NSF

M 62 · NGC
 6266 · Const
 Oph · Type
 Globular clu-
 ster · Mag 6.6
 · Ext 14.1' ·
 Dist 22.5 kly ·
 Credit
 NASA/STScI

24

M 63 · NGC 5055 ·
 Const CVn · Type
 Galaxy · Mag 8.6 ·
 Ext 10x6' · Dist 37
 Mly · Name Sun-
 flower Galaxy ·
 Credit B.Hugo,
 L.Gaul/A.Block
 /NOAO/AURA/NSF



M 64 · NGC 4826 · Const Com · Type Galaxy · Mag 8.5 · Ext 9.3x5.4' · Dist 24 Mly · Name Black Eye Galaxy · Credit Philip Perkins



M 65 · NGC 3623 · Const Leo · Type Galaxy · Mag 9.3 · Ext 8x3' · Dist 35 Mly · Credit Ewell Observatory



25

M 66 · NGC 3627 · Const Leo · Type Galaxy · Mag 9.0 · Ext 8x4' · Dist 36 Mly · Credit Ewell Observatory

LE MERAVIGLIE DI MESSIER

AUTORI VARI

M 67 · NGC 2682 ·
Const Cnc · Type
Open cluster ·
Mag 6.9 · Ext 30' ·
Dist 2.7 kly · Credit
2MASS

M 68 · NGC 4590
· Const Hya ·
Type Globular
cluster · Mag 8.2 ·
Ext 12' · Dist 33.3
kly · Credit Ewell
Observatory

M 70 · NGC 6681
· Const Sgr ·
Type Globular
cluster · Mag 8.1
· Ext 7.8' · Dist
29.3 kly · Credit
Paul and Liz
Downing

M 69 · NGC 6637 · Const Sgr · Type Globular
cluster · Mag 7.7 · Ext 7.1' · Dist 29.7 kly ·
Credit REU program/NOAO/AURA/NSF

M 71 · NGC 6838
· Const Sge ·
Type Globular
cluster · Mag 8.3
· Ext 7.2' · Dist
12 kly · Credit
Jim Misti



M 72 · NGC 6981 ·
Const Aqr · Type
Globular cluster ·
Mag 9.4 · Ext 5.9' ·
Dist 58 kly · Credit
NASA/ESA



M 73 · NGC
6994 · Const
Aqr · Type Open
cluster · Mag 9 ·
Ext 3' · Dist 2.5
kly · Credit ncis

27

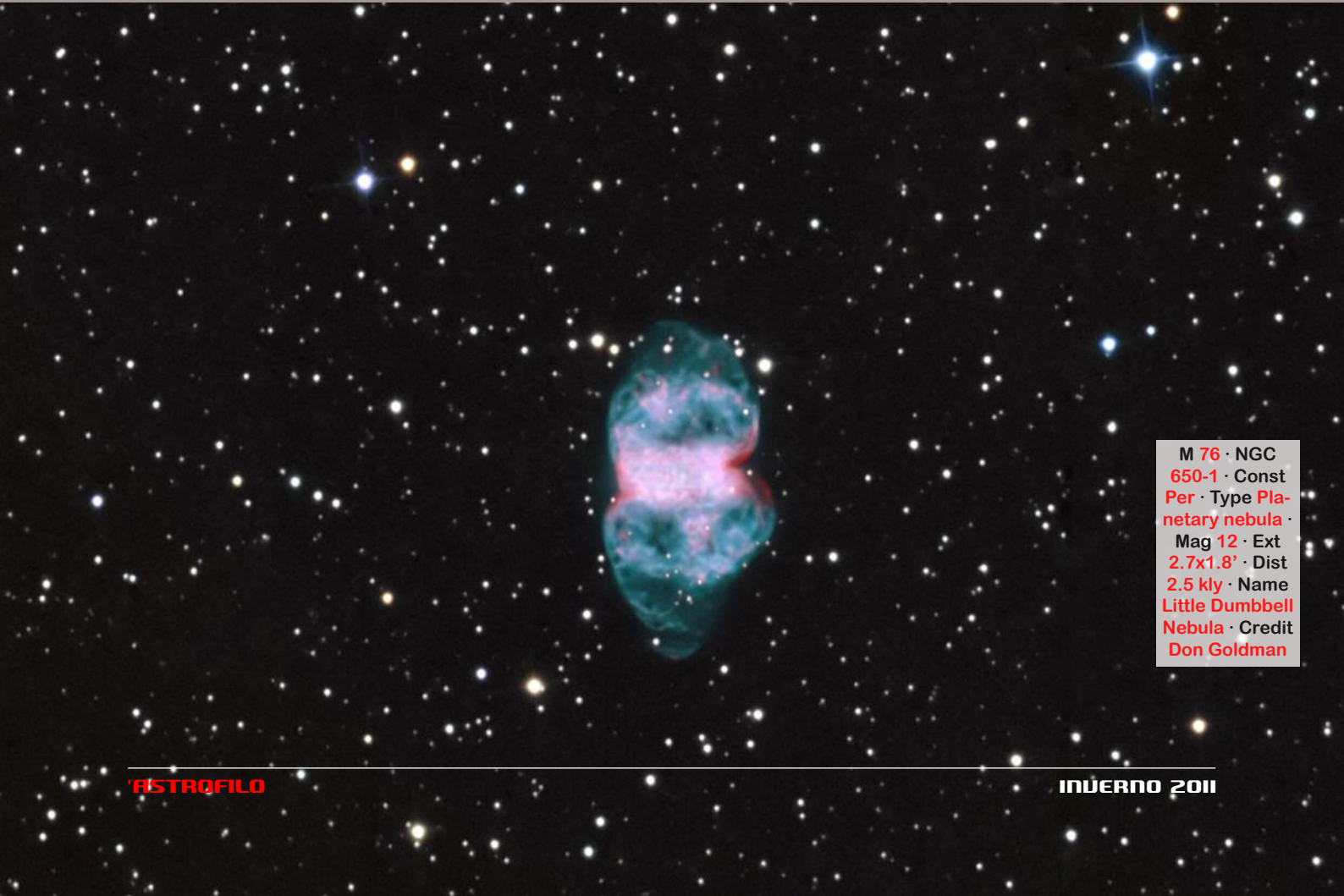


M 74 · NGC 628 · Const Psc · Type
Galaxy · Mag 9.2 · Ext 10.2x9.5' ·
Dist 30 Mly · Credit P.Mortfield,
D.Kupke, F.Haase/NOAO/AURA/NSF

A large, dense, spherical cluster of stars, appearing as a bright, fuzzy patch of light against a dark background filled with individual stars.

M 75 · NGC 6864
· Const Sgr ·
Type Globular
cluster · Mag 8.6
· Ext 6' · Dist 67.5
kly · Credit
NOAO/AURA/NSF

28

A small, irregularly shaped nebula with a complex, multi-lobed structure. It has a bright, pinkish-white central region surrounded by a translucent, greenish-blue outer shell. The background is a field of stars.

M 76 · NGC
650-1 · Const
Per · Type Pla-
netary nebula ·
Mag 12 · Ext
2.7x1.8' · Dist
2.5 kly · Name
Little Dumbbell
Nebula · Credit
Don Goldman



M 77 · NGC 1068
· Const **Cet** · Type
Galaxy · Mag 8.8 ·
Ext 7x6' · Dist 47
Mly · Name **Cetus**
A · Credit **Fran-**
cois and Shelley
Pelletier/A.Block/
NOAO/AURA/NSF



M 79 ·
NGC 1904
· Const
Lep · Type
Globular
cluster ·
Mag 8.0 ·
Ext 8.7' ·
Dist 41 kly
· Credit
A.Block/
NOAO/
AURA/NSF



M 78 · NGC 2068 · Const **Ori** · Type
Diffuse nebula · Mag 8 · Ext 8x6' ·
Dist 1.6 kly · Credit **Mike Halderman**

29



M 80 · NGC
6093 · Const
Sco · Type
Globular
cluster ·
Mag 7.2 ·
Ext 8.9' ·
Dist 32.6 kly
· Credit **Jim**
Misti

M 81 · NGC 3031 ·
Const **UMa** · Type
Galaxy · Mag 6.9 ·
Ext 21x13' · Dist
11.8 Mly · Name **Bo-**
de's Galaxy · Credit
M.Tonincelli-AAS

30

M 82 · NGC 3034 ·
Const **UMa** · Type
Galaxy · Mag 8.4 ·
Ext 11x5' · Dist 11.5
Mly · Name **Cigar**
Galaxy · Credit
NASA, ESA, Hubble
Heritage Team
(STScI/AURA)



31

M 83 · NGC
5236 · Const
Hya · Type Ga-
laxy · Mag 7.6 ·
Ext 11x10' · Dist
14.7 Mly · Name
Southern Pin-
wheel Galaxy ·
Credit ESO

M 84 · NGC 4374 · Const Vir
· Type Galaxy · Mag 9.3 · Ext
5' · Dist 60 Mly · Credit ncis

M 85 · NGC
4382 ·
Const
Com ·
Type
Galaxy
· Mag
9.2 ·
Ext 6' ·
Dist 60
Mly ·
Credit
NOAO/
AURA/
NSF

M 86 · NGC 4406 · Const
Vir · Type Galaxy · Mag 9.2
· Ext 7.5x5.5' · Dist 52 Mly ·
Credit Courtney Seligman

32

M 87 · NGC 4486 ·
Const Vir · Type
Galaxy · Mag 8.6 ·
Ext 7.2' · Dist 53
Mly · Name Virgo A
· Credit Jim Misti

M 89 · NGC 4552 · Const
Vir · Type Galaxy · Mag 9.8
· Ext 4.2' · Dist 50 Mly ·
Credit Paul Hunsberger

M 88 · NGC
4501 · Const
Com · Type
Galaxy · Mag
9.5 · Ext 7x4' ·
Dist 47 Mly ·
Credit Doug
Wheeland



M 90 · NGC 4569 · Const Vir ·
Type Galaxy · Mag 9.5 · Ext
9.5x4.5' · Dist 58 Mly · Credit
The Grasslands Observatory



M 91 · NGC 4548 · Const Com
· Type Galaxy · Mag 10.2 · Ext
5.4x4.4' · Dist 63 Mly · Credit
NOAO/AURA/NSF



M 92 · NGC 6341 ·
Const Her · Type
Globular cluster ·
Mag 6.5 · Ext 11.2' ·
Dist 26 kly · Credit
Stuart Heggie

M 93 · NGC
2447 · Const
Pup · Type
Open clu-
ster · Mag
6.2 · Ext 22'
· Dist 3.6 kly
· Credit Dan
Lessmann

M 94 · NGC 4736 · Const CVn · Type Galaxy · Mag
8.2 · Ext 11x6' · Dist 16 Mly · Credit Steve Cannistra

M 95 · NGC
3351 · Const
Leo · Type Ga-
laxy · Mag 9.7
· Ext 7.4x5' ·
Dist 33 Mly ·
Credit The
Grasslands
Observatory

M 96 · NGC
3368 · Const
Leo · Type Ga-
laxy · Mag 9.2 ·
Ext 7.1x5' · Dist
31 Mly · Credit
A.Block/NOAO/
AURA/NSF

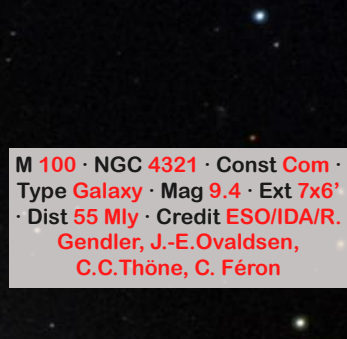
M 97 · NGC 3587
· Const UMa ·
Type Planetary
nebula · Mag
11.2 · Ext 3.3' ·
Dist 2.6 kly ·
Name Owl Ne-
bula · Credit ncis



M 98 · NGC 4192 · Const Com · Type Galaxy · Mag 10.1
· Ext 9.5x3.2' · Dist 54 Mly · Credit NOAO/AURA/NSF



M 99 · NGC 4254 · Const Com · Type Galaxy · Mag 9.8 · Ext
5.4x4.8' · Dist 50 Mly · Credit Johan Knapen, Nik Szymanek



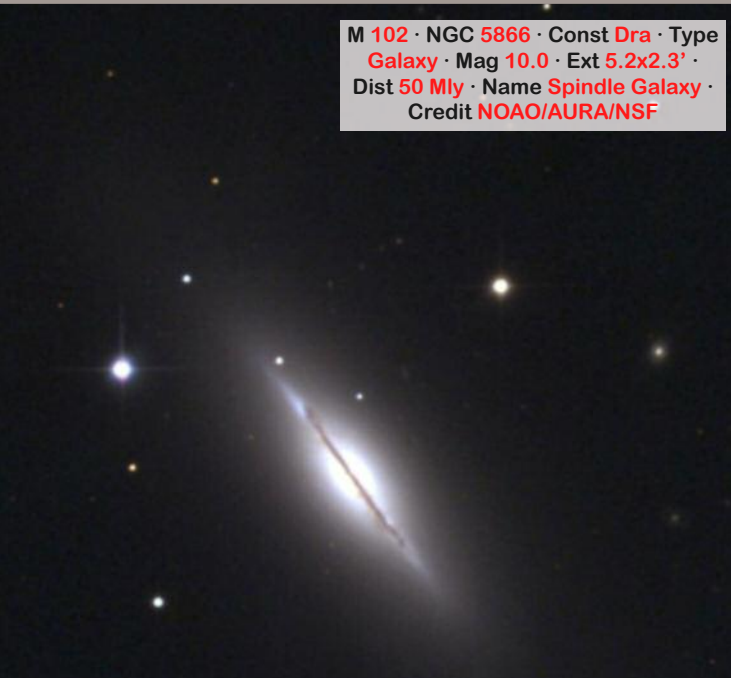
M 100 · NGC 4321 · Const Com ·
Type Galaxy · Mag 9.4 · Ext 7x6'
· Dist 55 Mly · Credit ESO/IDA/R.
Gendler, J.-E.Ovaldsen,
C.C.Thöne, C. Féron

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M 101 · NGC 5457 · Const UMa ·
Type Galaxy · Mag 7.7 · Ext 22' ·
Dist 23 Mly · Name Pinwheel
Galaxy · Credit Stuart Heggie

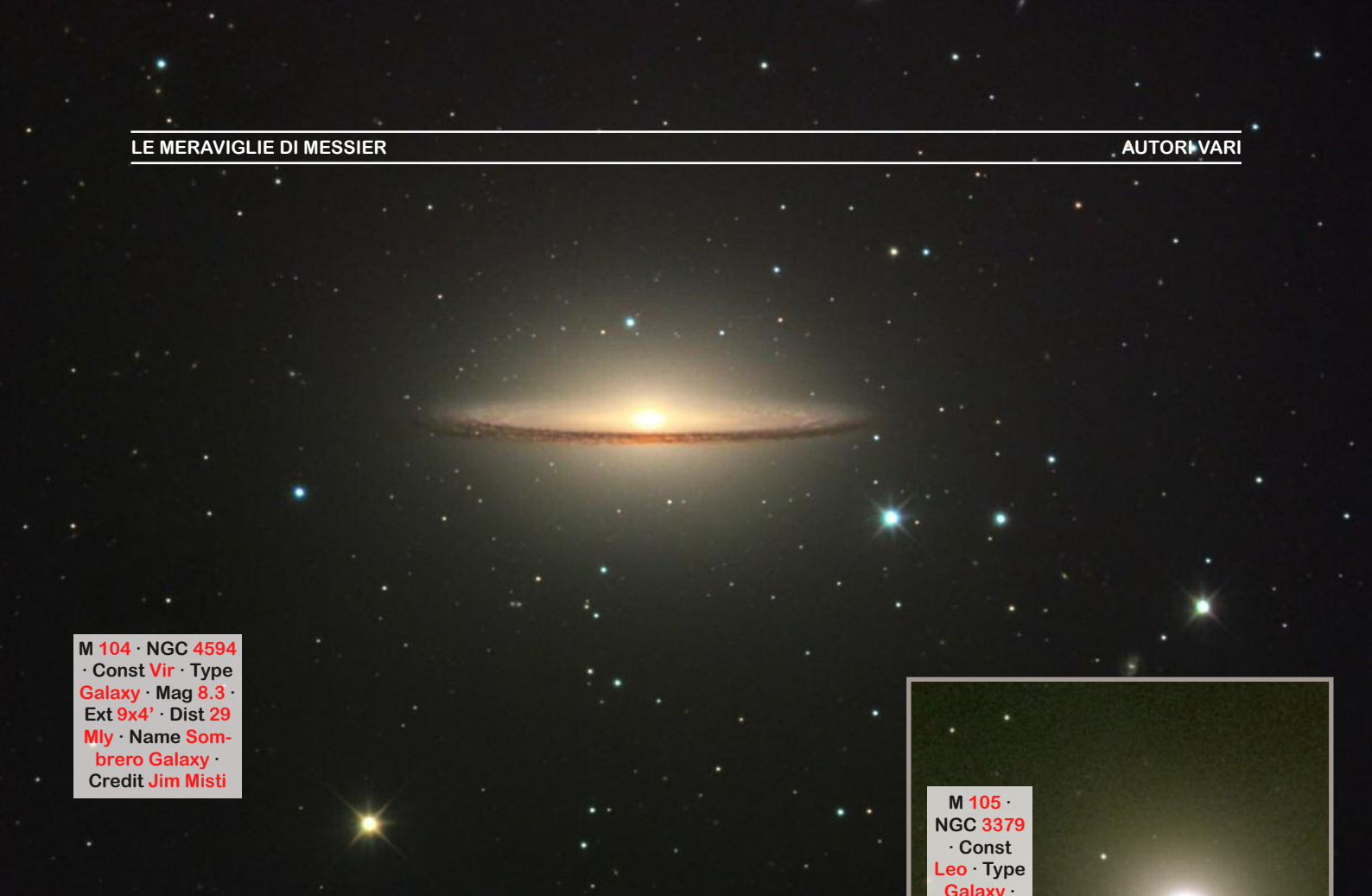
36



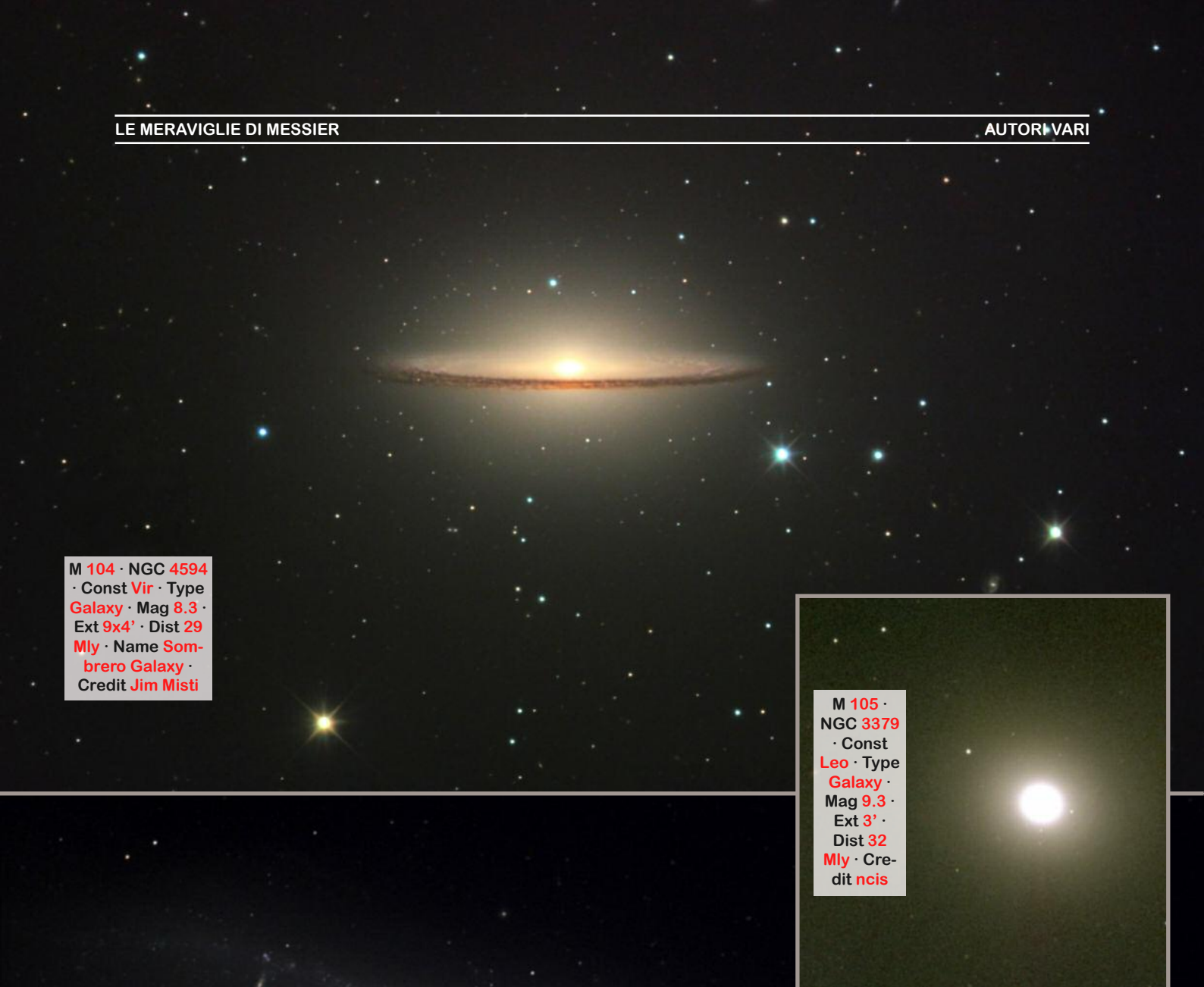
M 102 · NGC 5866 · Const Dra · Type
Galaxy · Mag 10.0 · Ext 5.2x2.3' ·
Dist 50 Mly · Name Spindle Galaxy ·
Credit NOAO/AURA/NSF



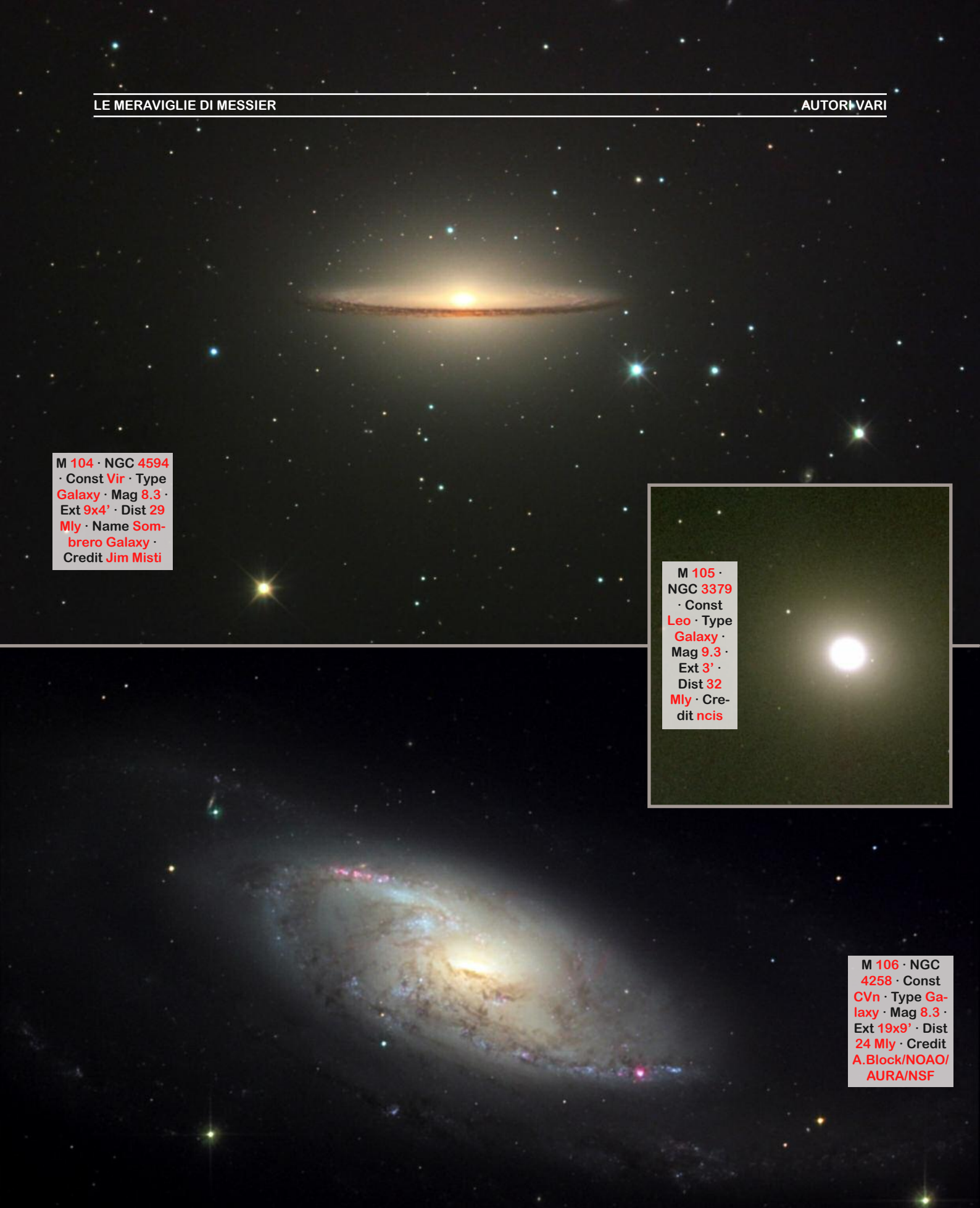
M 103 · NGC
581 · Const
Cas · Type
Open cluster
· Mag 7.4 ·
Ext 6' · Dist
10 kly · Cre-
dit H.Mathis,
N.A.Sharp/N
OAO/AURA/
NSF



M 104 · NGC 4594
· Const Vir · Type
Galaxy · Mag 8.3 ·
Ext 9x4' · Dist 29
Mly · Name Som-
brero Galaxy ·
Credit Jim Misti



M 105 ·
NGC 3379
· Const
Leo · Type
Galaxy ·
Mag 9.3 ·
Ext 3' ·
Dist 32
Mly · Cre-
dit ncis



M 106 · NGC
4258 · Const
CVn · Type Ga-
laxy · Mag 8.3 ·
Ext 19x9' · Dist
24 Mly · Credit
A.Block/NOAO/
AURA/NSF

38

M 107 · NGC 6171 · Const Oph · Type Globular cluster · Mag 8.1 · Ext 10' · Dist 20.9 kly · Credit B.Hugo, L.Gaul/A.Block/NOAO/AURA/NSF

M 108 · NGC 3556 · Const UMa · Type Galaxy · Mag 10.1 · Ext 8x2' · Dist 46 Mly · Credit Ken Crawford

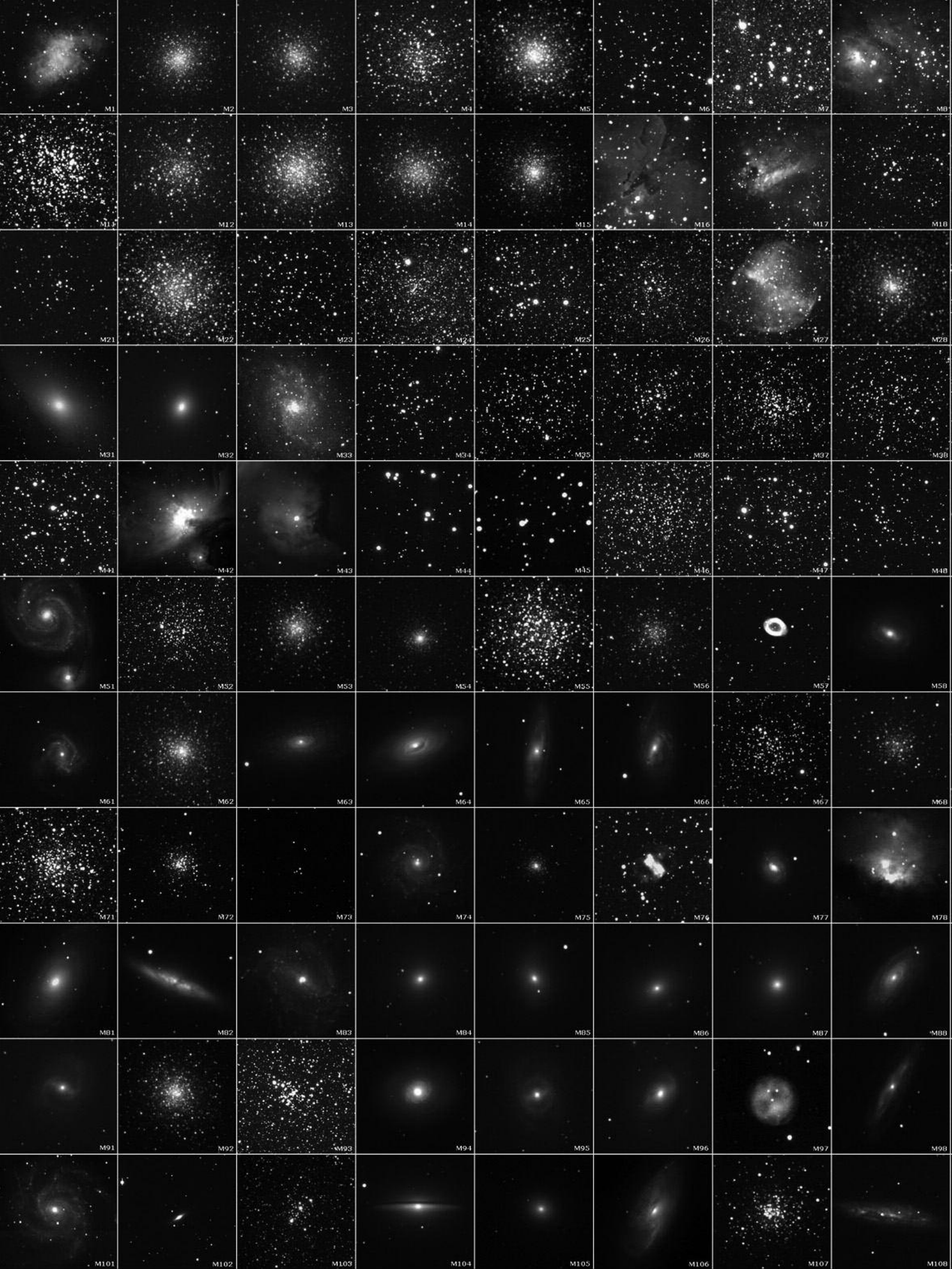
A detailed image of the spiral galaxy M109, also known as the Bode's Galaxy. It features a bright, yellowish-white central bulge and several distinct, blue-tinted spiral arms that curve around it. The galaxy is set against a dark, star-filled background.

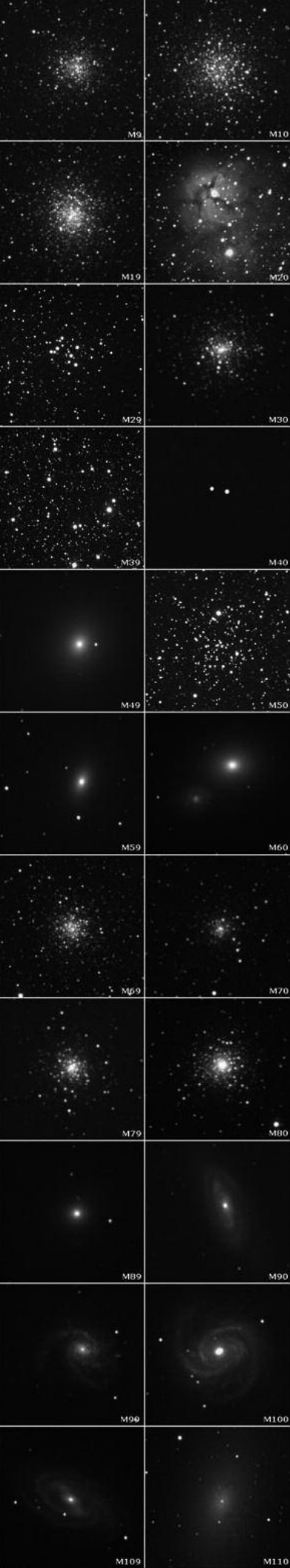
M 109 · NGC
3992 · Const
UMa · Type
Galaxy · Mag
9.8 · Ext 7x4'
· Dist 83 Mly
· Credit Jim
Misti

39

A detailed image of the elliptical galaxy M110, also known as the Coma Cluster. It is a large, diffuse, and elongated galaxy with a bright, yellowish-white central core. The galaxy is surrounded by a vast field of smaller, distant stars.

M 110 · NGC 205 · Const And · Type Ga-
laxy · Mag 8.0 · Ext 17x104' · Dist 2.7 Mly
· Credit Johannes Schedler/Panther





LE MERAVIGLIE DI MESSIER

AUTORI VARI

Sulla sinistra un riassunto in bianco e nero degli oggetti Messier ripresi da Pedro Ré

OBJECT	CONST.	R.A.	DEC.	MIDNIGHT CULMINAT.
M1	Tau	05:34.5	+22:01	Dec 14
M2	Aqr	21:33.5	-00:49	Aug 14
M3	CVn	13:42.2	+28:23	Apr 17
M4	Sco	16:23.6	-26:32	May 28
M5	Ser	15:18.6	+02:05	May 11
M6	Sco	17:40.1	-32:13	Jun 16
M7	Sco	17:53.9	-34:49	Jun 20
M8	Sgr	18:03.8	-24:23	Jun 22
M9	Oph	17:19.2	-18:31	Jun 11
M10	Oph	16:57.1	-04:06	Jun 5
M11	Sct	18:51.1	-06:16	Jul 4
M12	Oph	16:47.2	-01:57	Jun 3
M13	Her	16:41.7	+36:28	Jun 1
M14	Oph	17:37.6	-03:15	Jun 16
M15	Peg	21:30.0	+12:10	Aug 14
M16	Ser	18:18.8	-13:47	Jun 26
M17	Sgr	18:20.8	-16:11	Jun 27
M18	Sgr	18:19.9	-17:08	Jun 26
M19	Oph	17:02.6	-26:16	Jun 7
M20	Sgr	18:02.6	-23:02	Jun 22
M21	Sgr	18:04.6	-22:30	Jun 22
M22	Sgr	18:36.4	-23:54	Jun 30
M23	Sgr	17:56.8	-19:01	Jun 20
M24	Sgr	18:16.9	-18:29	Jun 26
M25	Sgr	18:31.6	-19:15	Jun 29
M26	Sct	18:45.2	-09:24	Jul 3
M27	Vul	19:59.6	+22:43	Jul 22
M28	Sgr	18:24.5	-24:52	Jun 27
M29	Cyg	20:23.9	+38:32	Jul 28
M30	Cap	21:40.4	-23:11	Aug 16
M31	And	00:42.7	+41:16	Oct 1
M32	And	00:42.7	+40:52	Oct 1
M33	Tri	01:33.9	+30:39	Oct 14
M34	Per	02:42.0	+42:47	Nov 1
M35	Gem	06:08.9	+24:20	Dec 23
M36	Aur	05:36.1	+34:08	Dec 15
M37	Aur	05:52.4	+32:33	Dec 19
M38	Aur	05:28.4	+35:50	Dec 13
M39	Cyg	21:32.2	+48:26	Aug 14
M40	UMa	12:22.4	+58:05	Mar 28
M41	CMa	06:46.0	-20:44	Jan 1
M42	Ori	05:35.4	-05:27	Dec 15
M43	Ori	05:35.6	-05:16	Dec 15
M44	Cnc	08:40.1	+19:59	Jan 30
M45	Tau	03:47.0	+24:07	Nov 17
M46	Pup	07:41.8	-14:49	Jan 15
M47	Pup	07:36.6	-14:30	Jan 14
M48	Hya	08:13.8	-05:48	Jan 24
M49	Vir	12:29.8	+08:00	Mar 30
M50	Mon	07:03.2	-08:20	Jan 6
M51	CVn	13:29.9	+47:12	Apr 14
M52	Cas	23:24.2	+61:35	Sep 11
M53	Com	13:12.9	+18:10	Apr 9
M54	Sgr	18:55.1	-30:29	Jul 5
M55	Sgr	19:40.0	-30:58	Jul 17

OBJECT	CONST.	R.A.	DEC.	MIDNIGHT CULMINAT.
M56	Lyr	19:16.6	+30:11	Jul 11
M57	Lyr	18:53.6	+33:02	Jul 5
M58	Vir	12:37.7	+11:49	Apr 1
M59	Vir	12:42.0	+11:39	Apr 2
M60	Vir	12:43.7	+11:33	Apr 2
M61	Vir	12:21.9	+04:28	Mar 28
M62	Oph	17:01.2	-30:07	Jun 6
M63	CVn	13:15.8	+42:02	Apr 10
M64	Com	12:56.7	+21:41	Apr 5
M65	Leo	11:18.9	+13:05	Mar 12
M66	Leo	11:20.2	+12:59	Mar 12
M67	Cnc	08:50.4	+11:49	Feb 2
M68	Hya	12:39.5	-26:45	Apr 1
M69	Sgr	18:31.4	-32:21	Jun 29
M70	Sgr	18:43.2	-32:18	Jul 2
M71	Sge	19:53.8	+18:47	Jul 20
M72	Aqr	20:53.5	-12:32	Aug 4
M73	Aqr	20:58.9	-12:38	Aug 6
M74	Psc	01:36.7	+15:47	Oct 15
M75	Sgr	20:06.1	-21:55	Jul 23
M76	Per	01:42.4	+51:34	Oct 17
M77	Cet	02:42.7	-00:01	Nov 1
M78	Ori	05:46.7	+00:03	Dec 18
M79	Lep	05:24.5	-24:33	Dec 12
M80	Sco	16:17.0	-22:59	May 26
M81	UMa	09:55.6	+69:04	Feb 18
M82	UMa	09:55.8	+69:41	Feb 18
M83	Hya	13:37.0	-29:52	Apr 16
M84	Vir	12:25.1	+12:53	Mar 28
M85	Com	12:25.4	+18:11	Mar 28
M86	Vir	12:26.2	+12:57	Mar 29
M87	Vir	12:30.8	+12:24	Mar 30
M88	Com	12:32.0	+14:25	Mar 30
M89	Vir	12:35.7	+12:33	Mar 31
M90	Vir	12:36.8	+13:10	Mar 31
M91	Com	12:35.4	+14:30	Mar 31
M92	Her	17:17.1	+43:08	Jun 10
M93	Pup	07:44.6	-23:52	Jan 16
M94	CVn	12:50.9	+41:07	Apr 4
M95	Leo	10:44.0	+11:42	Mar 3
M96	Leo	10:46.8	+11:49	Mar 3
M97	UMa	11:14.8	+55:01	Mar 10
M98	Com	12:13.8	+14:54	Mar 25
M99	Com	12:18.8	+14:25	Mar 27
M100	Com	12:22.9	+15:49	Mar 28
M101	UMa	14:03.2	+54:21	Apr 22
M102	Dra	15:06.5	+55:46	May 8
M103	Cas	01:33.2	+60:42	Oct 14
M104	Vir	12:40.0	-11:37	Apr 1
M105	Leo	10:47.8	+12:35	Mar 4
M106	CVn	12:19.0	+47:18	Mar 27
M107	Oph	16:32.5	-13:03	May 30
M108	UMa	11:11.5	+55:40	Mar 10
M109	UMa	11:57.6	+53:23	Mar 21
M110	And	00:40.4	+41:41	Oct 1