

Table of Contents

Table of Contents	iii
Acknowledgments	vii
Introduction	xi
A Wonder Like No Other	xi
Chamaeleon	1
The Chamaeleon Molecular Cloud.....	4
Notable Stars in Chamaeleon.....	8
Alpha (α) Chamaeleontis.....	8
Delta (δ) 1 and 2 Chamaeleontis	10
Epsilon (ε) Chamaeleontis.....	11
Galactic Objects in Chamaeleon	19
IC 2884.....	19
IC 2631.....	20
NGC 3195	22
Extragalactic Objects in Chamaeleon	24
NGC 2915	24
NGC 3620	28
Looking toward Chamaeleon through the Milky Way	29
Looking through Chamaeleon: The Extragalactic View	30
Circinus	31
Notable Stars in Circinus	36
Alpha (α) Circini	36
Beta (β) Circini.....	38
Gamma (γ) Circini.....	40
Galactic Objects in Circinus.....	42
Circinus Molecular Cloud	42
NGC 5715	45
NGC 5823	47
NGC 5288	48
NGC 5315	49
Pismis 20.....	51
Paris Marie Pişmiş: Research Astronomer and Role Model....	54
Extragalactic Objects in Circinus.....	57
ESO 97-13	57
Looking toward Circinus through the Milky Way	64
Looking through Circinus: The Extragalactic View	65

Columba	67
Notable Stars in Columba	73
Phact, Alpha (α) Columbae.....	73
Wazn, Beta (β) Columbae	75
Mu (μ) Columbae.....	77
Galactic Objects in Columba	80
NGC 1851	80
Extragalactic Objects in Columba.....	88
NGC 2188	88
NGC 1808 and NGC 1792	94
NGC 2090	102
Looking toward Columba through the Milky Way	107
Looking through Columba: The Extragalactic View.....	108
Coma Berenices	109
Notable Stars in Coma Berenices	117
Diadem, Alpha (α) Comae Berenices.....	117
Beta (β) Comae Berenices	119
Gamma (γ) Comae Berenices.....	123
35 Comae Berenices	124
Olin Chaddock Wilson: Moving Stellar Astrophysics into the Modern Age.....	127
2 Comae Berenices and 24 Comae Berenices	133
FK Comae Berenices	135
Variable Stars of Interest in Coma Berenices	143
R Comae Berenices, RZ Comae Berenices, and 40 Comae Berenices	143
Galactic Objects in Coma Berenices.....	148
Melotte 111	148
NGC 5053	152
M53.....	158
NGC 4147	169
Extragalactic Objects in Coma Berenices.....	171
M64.....	172
NGC 4565	177
NGC 4725	185
M98.....	188
M99	192
NGC 4450	198
M91.....	201
M100.....	204
M85	210
M88.....	217
NGC 4839	221

NGC 4676, The Mice	222
The Coma Cluster	227
NGC 4889 and NGC 4874	228
Overall Structure	234
Morphological and Gaseous Inventory	238
NGC 4921	240
Ultradiffuse Galaxies: A New Class of Objects	240
Dragonfly 44	243
Maximilian Franz Joseph Wolf	243
"Uncle John" Brashear: Scientist, Telescope Maker, Educator ...	247
A Brief History of Mapping Large-Scale Structure	
in the Universe	257
Looking toward Coma Berenices through the Milky Way	258
Looking through Coma Berenices: The Extragalactic View	259
Galaxy Classification Symbols in Brief	261
Corona Australis.....	271
Notable Stars in Corona Australis	275
Alfecca Meridiana, Alpha (α) Coronae Australis	275
Beta (β) Coronae Australis	277
Gamma (γ) Coronae Australis	278
Epsilon (ϵ) Coronae Australis	279
Kappa (κ) Coronae Australis	283
R and T Coronae Australis	284
Galactic Objects in Corona Australis	284
The Corona Australis Molecular Cloud	284
NGC 6726/6727 and NGC 6729	284
ESO 281-24	293
IC 1297	295
NGC 6541	297
Extragalactic Objects in Corona Australis	301
NGC 6768	301
Looking toward Corona Australis through the Milky Way	303
Looking through Corona Australis: The Extragalactic View....	304
Figure Acknowledgments	305
Index	311



Dedicated to Ernst Johannes Hartung, author of *Astronomical Objects for Southern Telescopes*. After a long career teaching chemistry and leading research at the University of Melbourne, E. J. Hartung (1893–1970) retired to the countryside, built an observatory with a 30-cm telescope, and recorded observations of 4,000 southern objects. In 1968, Melbourne University Press published his comprehensive observer's guide, still in print and a singular amateur reference. Hartung's circa 1935 portrait reflects his curiosity and discipline. (Courtesy University of Melbourne, Colin Sach Collection, University of Melbourne Archives, 1985.0025.00011.)