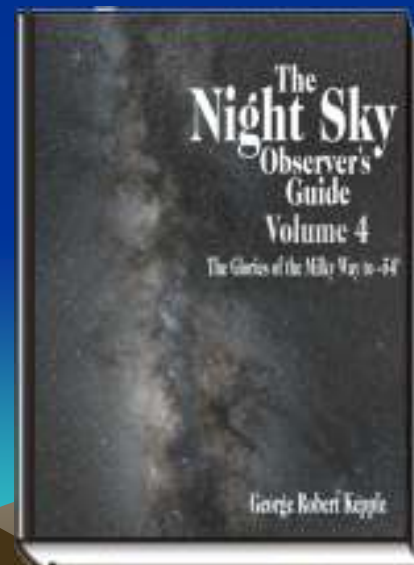
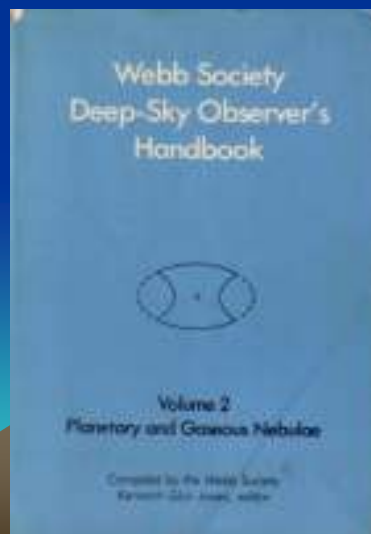
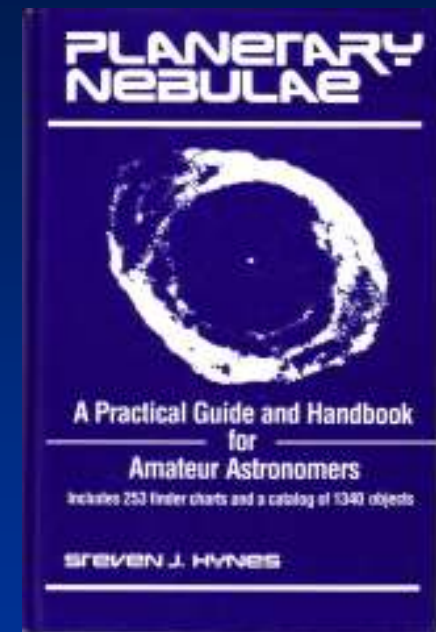
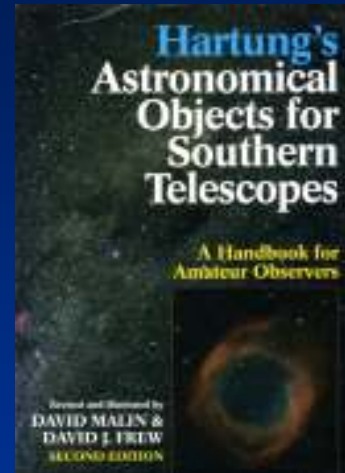
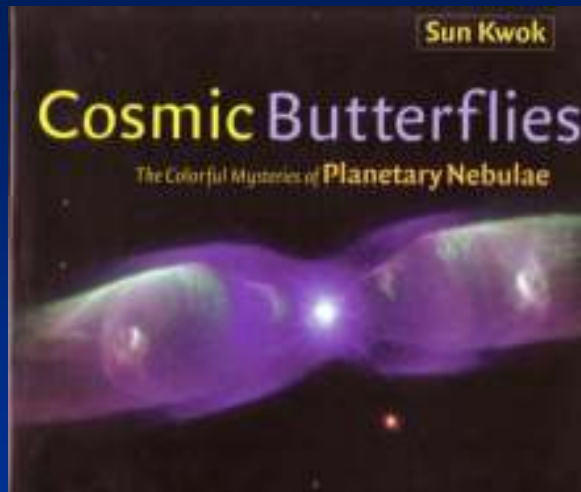
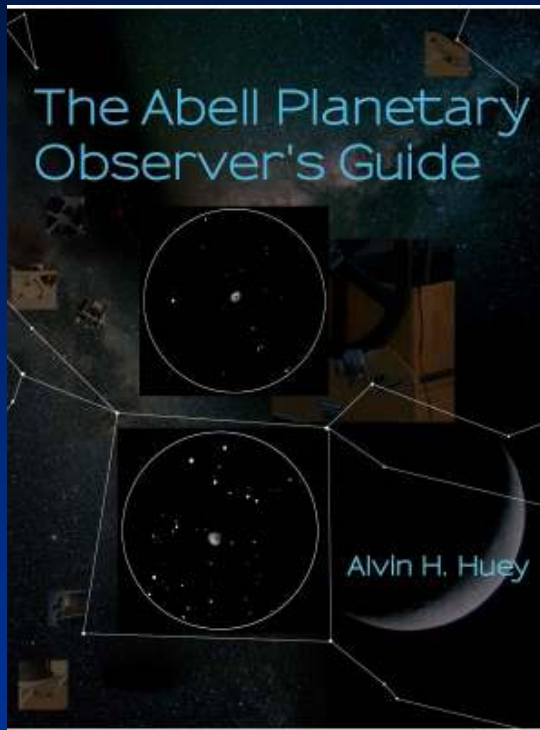
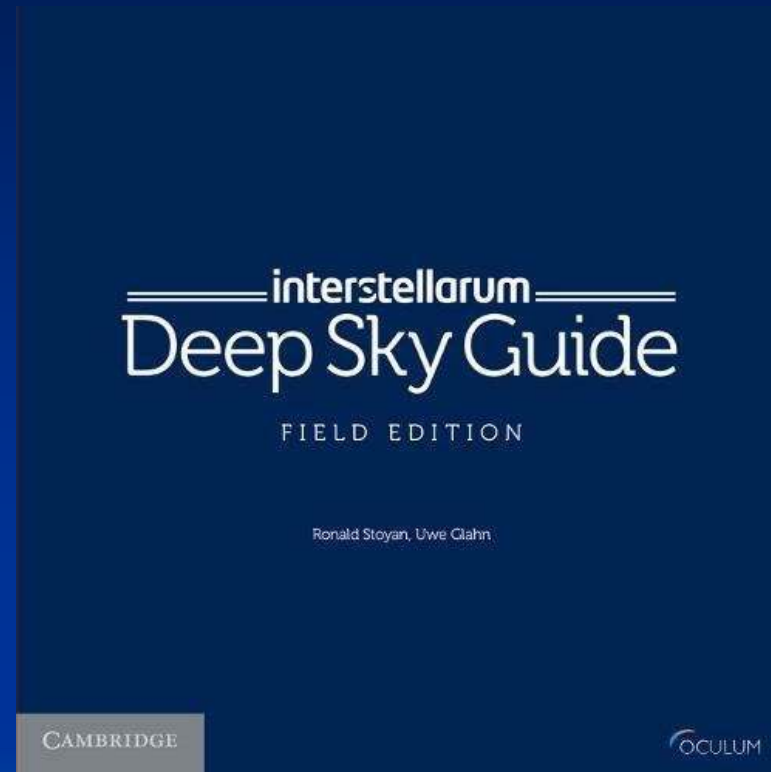
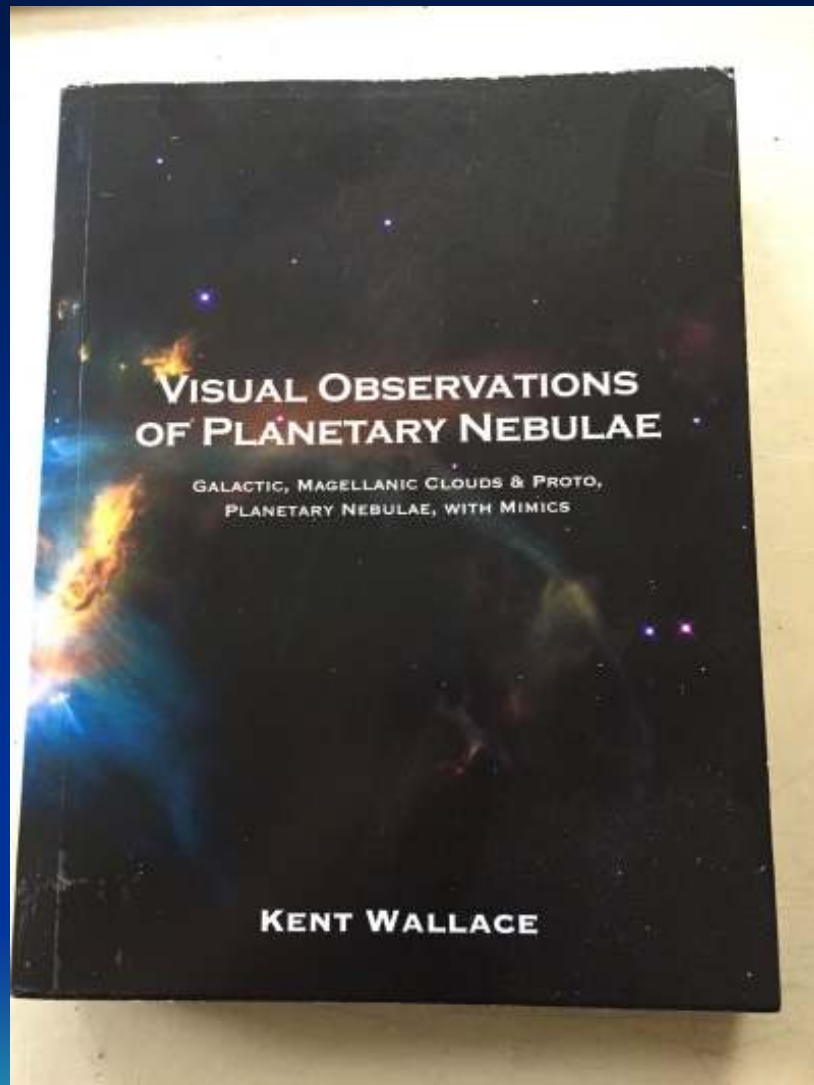
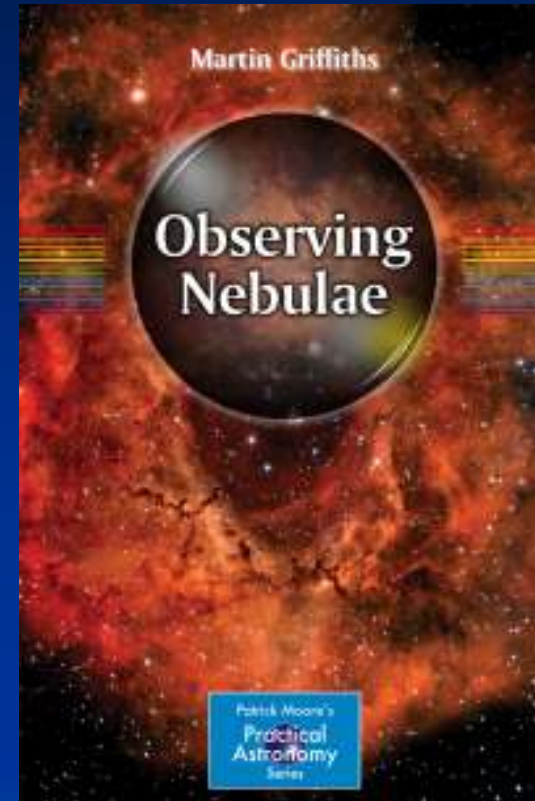
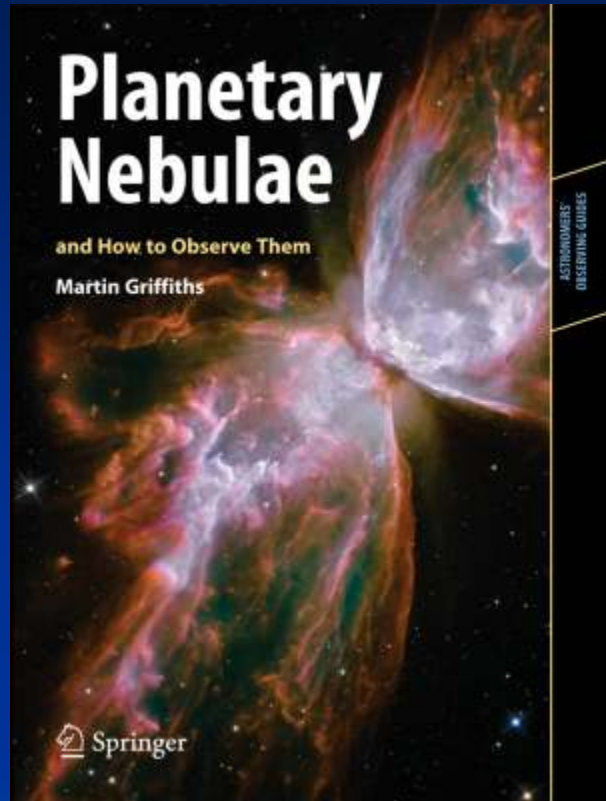


Further reading









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[The Local Group](#) - Galaxies within our celestial backyard visible in the US (above about -50 dec). Associated globular clusters, H-II, OB regions and open clusters are marked and some cases labeled. (55 pages)

[Selected Small Galaxy Groups](#) - Small Galaxy Groups inspired by the Astronomical League Galaxy Clusters Observing Club with some additional selections. 60+ groups. 8" or larger scope. (151 pages)

[Galaxy Trios and Triple Systems](#) - Galaxy Trios inspired by Miles Paul's list and by Astronomical League Galaxy Groups Observing Club. Some lensed quasars are also included in this file, such as the Double Quasar in Ursa Major and Einstein's cross in Pegasus. 200 trios and triple systems. 8" or larger scope. (241 pages)

Updated (November 2011): A new updated version with over 80 new trios, 23 more trios to complete the Miles Paul list. About 60 more trios from a research papers and SDSS site.

[Selected Shapleyan Galaxy Groups](#) - Very **challenging** small galaxy groups, much more challenging than the Hickson Groups. Compact Groups of Compact Galaxies. 80+ groups. A large scope, 25" or larger is strongly recommended. You can try with a 16" or 20", but won't get very many, but fun. (76 pages)

[Abell Galaxy Clusters](#) - Selected Abell Galaxy Clusters for advanced observers with large telescopes. 80+ clusters. 16" or larger scope is recommended. (430 pages)

[Globular Clusters](#) - All globular clusters above -50 degrees declination. This list includes all Messier, NGC and Palomar and Terzans. There are a few "impossible" globulars, such as the two 2MASS globulars, in this list as well. 90+ globulars. Most are observable with an 8" scope. (111 pages)

[Planetary Nebulae](#) - Planetary nebulae, supernovae remnants and protoplanetaries that are observable above about -50 degrees declination. About 350+ objects are included. Many stellar planetaries are left out. (322 pages)

[The Rose Catalogue of Compact Galaxies](#) - A small collection of 33 northern and 5 southern very compact galaxy groups for large telescopes. This list is considered to be a bit more challenging than the Hickson Galaxy Groups. Recommend 18" or larger scope as most are very small and dim. (68 pages)

[Flat Galaxies](#) - A selection of 170+ Flat Galaxies from the Revised Flat Galaxy Catalogue. Many are dim and requires a large telescope. I recommend a 16" or larger scope to tackle the majority of objects in this list. Note: This is the first release. I am most likely to make revisions including adding new flat galaxies. The Revision History page will list the revisions. (192 pages)

[Ring Galaxies](#) - A selection of ring galaxies generated by a good friend, Jimi Lowry. He observes about 15 times a month with his 48" f4 reflector. Some of them are pretty tough and will require a very large telescope, such as Jimi's 48" reflector.




www.reinervogel.net/index_e.html/Plattform/Plattform_e.html

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Observing Reports

2014 *Object of the Week: Sharpless 157 in Cassiopeia/Cepheus* (Deepskyforum.com, July 2014)
Object of the Week: NGC 6240, the Rumpled Starfish (Deepskyforum.com, May 2014)
Object of the Week: Sharpless 261 - Lower's Nebula (Deepskyforum.com, March 2014)
Object of the Week: Abell 21, a large evolved PN in Gemini (Deepskyforum.com, January 2014)

2013 *Object of the Week: The two Tadpoles of IC 410 in Auriga* (Deepskyforum.com, November 2013)
Object of the Week: Merope's and Barnard's Nebula (Deepskyforum.com, September 2013)
 100 Quadratgrad Himmel: *Mitten im Schwan* (Interstellarium 89, August 2013)
 Brightning of Gyulbudhagian's Nebula (PV Cep) (Deepskyforum, August 2013)
Object of the Week: Sharpless 174 - a moving planetary? (Deepskyforum.com, July 2013)
Object of the week: Markarian 205 and the red shift controversy (Deepskyforum.com, June 2013)
Object of the Week: A whiff of a Planetary: Longmore-Tritton 5 (Deepskyforum.com, April 2013)
 Ein "neuer" Nebel im Einhorn: *Thommes' Nebula* (Astrolreff, March 2013)
Object of the Week: A Wolf-Rayet ring nebula - Sharpless 308 (Deepskyforum.com, January 2013)



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Ray Cash, Mark Wagner, Missi Wagner, Jim Shields and Steve Gottlieb - Photo by Marsha Robinson

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Love your site. It's a great place to find photographic fields of interest. I'm always looking for information on new objects to shoot.

—Martin C. Germano

At the monthly star parties everyone now expects me to show up with another rarely observed gem, carefully culled from the pages of your web site. I guess it's time to come clean about where I've been getting the information

—Paul Abiang



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http://www.astro-visuell.de/astro/projekt/pn/index.html

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Einleitung

Frühjahrsstern

Südliche Sommermilchstraße

Nördliche Sommermilchstraße

Herbststern

Wintermilchstraße

PN-Übersicht

Berichte

Legende / Rechtliches

Die hellen Planetarische Nebel werden häufig auch als "Edelsteine des Himmels" bezeichnet, andere PN gelten mit ihren geringen Flächenhelligkeiten als "harte Brocken" und üben so einen besonderen Reiz aus. Eine weitere große Gruppe erscheint auf Fotografien und bei schwacher Vergrößerung stellar und verrät ihre wahre Natur nur durch Einsatz von Nebelfiltern - bei diesen Winzlingen ist es teilweise sogar möglich, mit hohen Vergrößerungen auf bislang nicht dokumentierte Strukturen zu stoßen. So bieten die Planetarische Nebel mit ihrer Vielzahl von beobachtbaren Formen, Strukturen, Größen, Helligkeiten und sogar Farben gerade für den visuellen Beobachter ein einzigartig abwechslungsreiches Betätigungsfeld.

Das Hauptziel dieses Projektes ist es, einen möglichst umfassenden Katalog an Zeichnungen und Beschreibungen dieser Objektklasse aufzubauen und dem Leser nützliche Informationen und Anregungen zum Durchführen eigener Beobachtungen zu bieten.

Uwe Glahn [Deepsky-visuell](#)
Daniel Restemeier [Astro-visuell](#)

Neuigkeiten

30.11.2009: neue Domain PN-visuell.de geht online
30.11.2009: Rubrik "Berichte" hinzugefügt
30.11.2009: Dengel-Hartl 1, Weinberger-Dengel 1
01.11.2009: NGC 6751, PM 1-133
27.10.2009: Halo von M 57, Weinberger-Sabaddin 1, Sharpless 2-176
28.09.2009: NGC 6807, IC 4846, IC 5117 und BD +303639 (Campbell's Hydrogen Star)
02.09.2009: NGC 6565, NGC 6567, NGC 6578, NGC 6741, NGC 6751, NGC 6790, Preite-Martinez 1-333 und Motch-Werner-Pakull 1

New PN

- <http://www.cielocean.fr/index.php?page=Decouvertes-amateurs>
- <https://skyhuntblog.wordpress.com/planetary-nebulae/planetary-nebulae-found-by-amateurs-online/>
- HASH database
<http://202.189.117.101:8999/gpne/dbMainPage.php>

