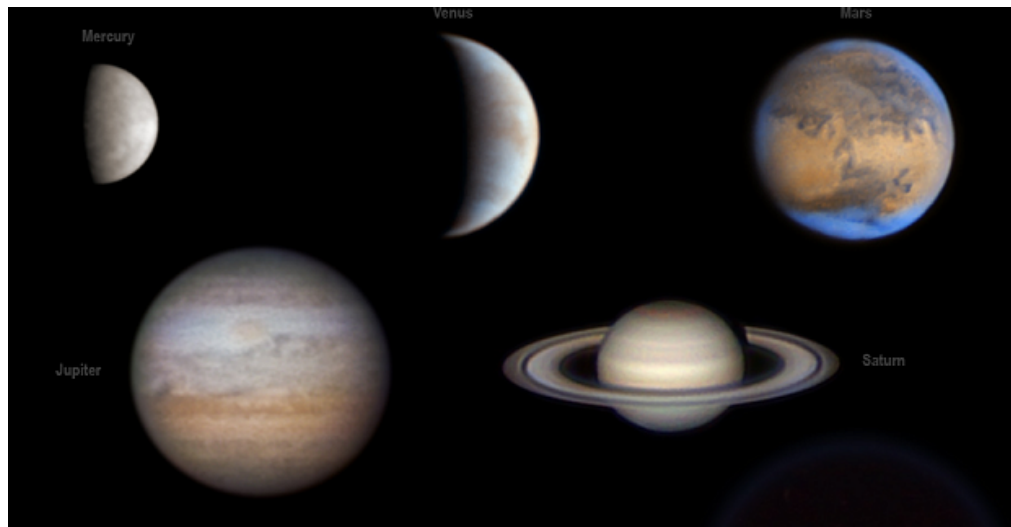


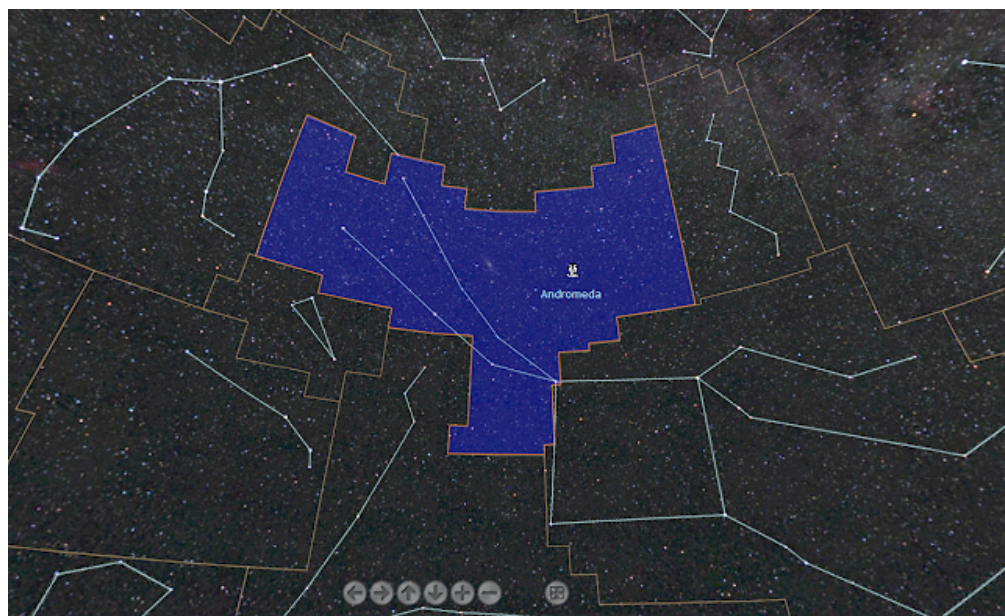


www.astronominsk.org - high-quality astrophotography

Planets



The Photographic Atlas of the Constellations



amateurs' guide to variable stars science

Variable Stars Observer

bulletin

January-February 2014 | Issue #4

ISSN 2309-5539

In this issue:

BL Lacertae objects, p.3

VV Cephei: an extraordinary binary system, p.7

Pulsating variable stars and the H-R diagram, p.9

Stellar associations: a variable stars nursery, p.14

Discovery of a **Second Radial Mode** in the star **NSVS 10590484**, p.16

Notable long-period eclipsing binaries, p.19

Eclipsing variable **TX UMa**, p.23

VS-COMPAS Project: variable stars research and data mining.

More at <http://vs-compas.belastro.net>

Variable Stars Observer Bulletin is all about variable stars science. It's made by amateurs and for amateurs. Here simplified contemporary data about different aspects of variable stars research is published.

The bulletin is available as a free PDF at VS-COMPAS project's website:
<http://www.vs-compas.belastro.net/bulletin>

Want to contribute an article? Feel free to contact us at:
<http://www.vs-compas.belastro.net/bulletin-contribute>

Issue #4

January-February 2014

Variable Stars Observer Bulletin **ISSN 2309-5539**

Published by the VS-COMPAS Project
<http://www.vs-compas.belastro.net/team>

Hrodna, 230005, Belarus

Editor: Ivan Adamin
ivan.adamin@gmail.com

Special thanks to Stefan Hümmerich (Germany) for his valuable help.

Front cover:

The Constellation of Orion
Sudak, Crimea (September 2012)

Image courtesy of Yuri Goryachko © 2012



www.astronominsk.org – high-quality astrophotography:
sky panoramas, planets, deep-sky objects,
the photographic atlas of the constellations, ISS
Right image: Mars (Dec 05, 2007)