



**On the cover:**  
S&T illustrator  
Casey Reed  
depicts a planet-  
size body lurking  
within the frigid  
depths of the  
far outer solar  
system.

**THIS MONTH'S SKY**

**ALSO IN THIS ISSUE**

**FEATURES**

**20 What Else Is Out There?**

**COVER  
STORY**

Planets and other large objects  
could be lurking far beyond  
Neptune, but they'll be very  
difficult to find.  
*By David Jewitt*

**26 Shedding Light  
on Dark Stars**

Bizarre stars powered by dark  
matter may have been the first to  
form after the Big Bang.  
*By Ker Than*

**30 Digitizing History**

Amateurs help scan a century  
of photographic plates.  
*By Stephen Lieber*

**36 Observatories  
on the Web**

You can rent time to observe from  
home with top-notch telescopes  
and CCD cameras around the  
world. How well does this work?  
*By Andy Macica*

**73 Double Stars in  
and Around Leo**

The Lion is a treasure house of  
bright, rewarding visual binaries.  
*By Richard Jaworski*

**42 Northern Hemisphere's Sky**

*By Fred Schaaf*

**43 March's Sky at a Glance**

**45 Binocular Highlight**

*By Gary Seronik*

**46 Planetary Almanac**

**48 Sun, Moon, and Planets**

*By Fred Schaaf*

**51 Exploring the Moon**

*By Charles A. Wood*

**55 Celestial Calendar**

*By Alan MacRobert*

**61 Deep-Sky Wonders**

*By Sue French*

**66 Going Deep**

*By Ken Hewitt-White*

**6 Spectrum**

*By Robert Naeye*

**8 Letters**

**8 50 & 25 Years Ago**

*By Leif J. Robinson*

**12 News Notes**

**18 Cosmic Relief**

*By David Grinspoon*

**58 New Product Showcase**

**68 Telescope Workshop**

*By Gary Seronik*

**70 Astro Q&A**

**76 Gallery**

**86 Focal Point**

*By Jacob Haqq-Misra  
& Seth D. Baum*



LIGHTBUCKETS

SKY & TELESCOPE (ISSN 0037-6604) is published monthly by Sky & Telescope Media, LLC, 90 Sherman St., Cambridge, MA 02140-3264, USA. Phone: 800-253-0245 (customer service/subscriptions), 888-253-0230 (product orders), 617-864-7360 (all other calls). Fax: 617-864-6117. Website: SkyandTelescope.com. © 2010 Sky & Telescope Media, LLC. All rights reserved. Periodicals postage paid at Boston, Massachusetts, and at additional mailing offices. Canada Post Publications Mail sales agreement #40029823. Canadian return address: 2744 Edna St., Windsor, ON, Canada N8Y 1V2. Canadian GST Reg. #R128921855. POSTMASTER: Send address changes to Sky & Telescope, PO Box 171, Winterset, IA 50273. Printed in the USA.