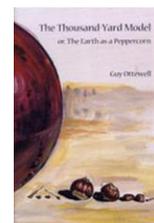


About Guy Ottewell

Universal Workshop publishes the works of Guy Ottewell, author of several astronomy and human rights titles. Guy currently resides in England and has lived and worked on several continents. His interest in astronomy came from sleeping out under the stars in the Middle East and, later, learning traditional starlore among the Navajo Indians of Arizona. He is the founder of the Amnesty International groups of Greenville, South Carolina, and Lyme Regis, England.

The Thousand-Yard Model or The Earth as a Peppercorn

Author- Guy Ottewell



Description: 8.5 x 9.5 in., 16 pages, color painting on cover, illustrations. 1989; 5th printing with revisions 2004. **Club Cost: \$12.95 plus shipping**

Instructions for using common objects such as nuts to make a solar-system model, over a distance of 1000 yards. It could be called a Model, Walk, or Happening. Tested many times with groups of children, who invariably are spellbound by the incredible distances. Since it also leads to a vivid grasp of light-years, star sizes, etc., it is an ideal opener to any astronomy course.

This description was twice printed in magazines, and was revised and reprinted as a booklet because there are so many requests for copies of it. The exercise is now performed annually or monthly by some astronomy clubs and at the American Museum of Natural History, New York; has been proposed as an installation in the city of Portland, Oregon; and we know of it being done in Peru, Guadeloupe, Iceland, and along a kilometer of the Great Wall of China.



TO KNOW THE STARS – AUTHOR- GUY OTTEWELL

The long-awaited new edition of this classic book for young people is now available. It has been radically enlarged and improved — from 40 black-and-white pages to 90 pages enriched with many color illustrations (including cartoons!).

Club Cost :18.00 plus shipping

An introduction to the night sky and the universe, for children, teenagers, and indeed any beginner.

At the outset you are encouraged to go outside and set about viewing the stars. The “dome” picture helps in understanding how the sky rolls from east to west.

Four pages for each month take you through the night skies of the year. For each month

there is an evening-sky map, and the stories of a few of the constellations make them stick in your memory. Other concepts are woven in: the Milky Way, leap-days, the ecliptic and zodiac, meteor showers, the Pole, midsummer, changing clocks, dark trenches in the sky, "silly little constellations.".. A quiz in September is one of the ways of making it fun.

After these monthly pages, there are pages to turn to for "More Explanations." They amount to a gentle but rather thorough guide to astronomy, a light-hearted and accessible textbook. The usually confusing business of the sky's changing appearance is cleared by starting from the simplest scene — you alone in space with the far-off stars — and only then adding the things that complicate it: Sun, Earth, Earth's motions and atmosphere and curvature. There are new pages on the Moon, eclipses, each planet, asteroids, rings, comets. A list of the Top Twenty stars (with their personalities) leads into more about stars: their color, distances, sizes. There are sections on telescopes, light pollution, astronomy vs. astrology, Greek letters, distances and angles, the pronunciation of names, exoplanets, the universe.

ASTRONOMICALCALENDAR 2017

Author- **Guy Ottewell**

-- Description: 11 x 15 in., 84 pages, many illustrations. **Club Cost: TBD**

This famous atlas-sized annual book is the most widely used and most attractive guide to what will happen in the night sky throughout the year.

Each page is the size of three or four of an ordinary book, allowing large spreads of mixed diagrams and text.

The *Astronomical Calendar* has been published continuously since 1974, and is used by about 20,000 (amateurs, telescope-owners, clubs, teachers, planetariums, libraries, enjoyers of the sky) in over 100 countries.

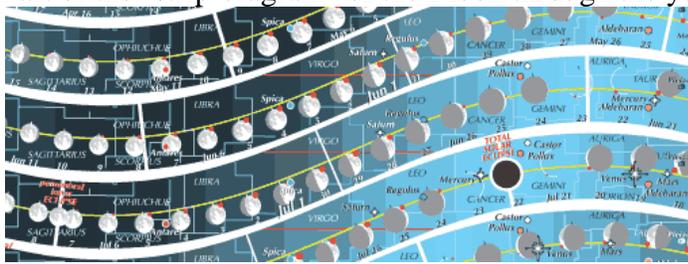
An introduction explains how to use the various components of the book and, if you are a beginner, what to select at first (since there are so many levels of information). For each month there is a large map of the evening sky; facing it, a diary of 40 or so events, many with paragraph-long descriptions.

Other features on the monthly pages are diagrams of where the planets are in their orbits, "Constellation Clues," "Telescopic Tour", "Observer's Highlights," and sketches of the most striking sky scenes.

Supplementary sections include Highlights of the Year, The Sun, The Moon, Special Moons, Young Moon and Old Moon, Eclipses, Occultations, each of the planets, Asteroids, Comets, Meteor Showers, Spaceflight, Deep-Sky Profiles, Light Pollution, Glossary, Magnitude and Elongation, Rising and Setting, Quick Reference, and a colored centerfold all-sky map. Some features are contributed by

experts Fred Schaaf, Clifford Cunningham, Alastair McBeath, Alan Hale, Joe Rao, and Richard Nugent.

Part of the "strip-diagram" of the Moon through the year



Part of the "All the Sky" chart



Our planet at 6 hours Universal Time on January 1—midnight on the Mississippi, dawn twilight for

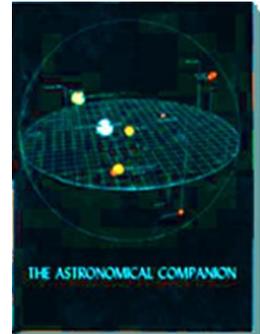


Europe

The Astronomical Companion

Description : 11 x 15 in, 73 pages, illustrations. Rich in 3-D diagrams 2010. **Club Cost: \$29.95 plus shipping**

A general guide to astronomy; some say it should be called the *Astronomical Treasury*. Same large page-size as the *Astronomical Calendar*. Begins with an "Overview of Astronomy" and pictures that almost force you to understand coordinate systems and orientation in space.



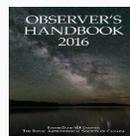
A strand running through the book is the series of 30 ten-inch-diameter diagrams showing expanding spheres of space, from the Moon's orbit and the domains of planets and comets out through the nearest stars, the brightest stars, the neighboring regions of our Milky Way galaxy, the whole galaxy, the Local Group of galaxies, the Virgo Super cluster, the domain of the quasars, and on to the eerie limit of the universe.

Among many other features are a map and catalogue of star names with their derivations; the seasons (including their linking with traditional dates such as Beltane, Halloween, St. Lucy's Day); the world's calendars; precession and its many consequences; "Moonlight" and "Earthlight" and "Moon as Signpost"; comparative distances; a comprehensive Hertzsprung-Russell Diagram (the graph that relates all the kinds of star by color and brightness); and pages on constellations, meteor showers, double stars, variable stars. . .

This is a NEW EDITION of the book first published in 1979 and reprinted 18 times. The major illustrations (including covers) are redone with clearer plotting and modern data. Distances are expressed in light-years (as well as the more technical parsecs). Besides overall updating and corrections, some added features are timeline-tables of nearly 200 astronomers, charts of some coming eclipses, a new chronology of space exploration (by Clifford Cunningham), and a full index.

2017 OBSERVERS HANDBOOK

\$26.95



The *Observer's Handbook* is a 352-page guide published annually since 1907 by The Royal Astronomical Society of Canada. Through its long tradition and the expertise of more than 60 contributors, the *Observer's Handbook* has come to be regarded as the standard North American reference for data on the sky. The material in the Handbook is of interest to professional and amateur astronomers, scientists, teachers at all levels, students, science writers, campers, Scout and Guide leaders, as well as interested general readers. The *Observer's Handbook* is an integral part of many astronomy courses at the secondary and university levels, and it should be on the reference shelf of every library. The various sections in the *Observer's Handbook* are of two kinds:

Upcoming Astronomical Events

Sections dealing with astronomical events that occur during the current year. Information includes:

- times of sunrise and sunset;
- moonrise and moonset (for latitudes 20° to 60° N);
- Moon phases and other lunar phenomenon;
- conjunctions, elongations, etc. of the planets;
- eclipses and transits;
- location of the planets and dwarf and minor planets;
- returns of periodic comets;
- times of meteor showers;
- predictions of occultations by the Moon and by planetary bodies;
- the orbital positions of the brighter satellites of both Jupiter and Saturn; and
- predictions of the cycles of many variable stars.

There is a 24-page section called "The Sky Month By Month," which gives an extensive listing of events for each month of the year. **Astronomical Reference Information**

Sections dealing with astronomical data and other information that does not vary much from year to year (although revisions are made annually to ensure that the information is the best available). Information includes:

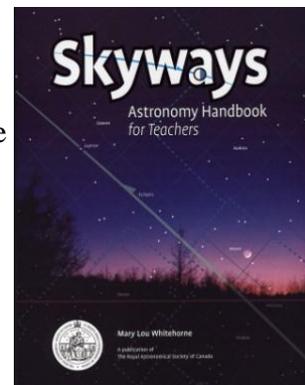
- a revised section on observing artificial satellites;
- this year's "feature starfield"—Milky Way Galaxy;
- orbital and physical data on the planets and their satellites;
- astronomical and physical constants;
- some optical properties of telescopes and binoculars;
- a section on the electromagnetic spectrum;
- information on filters for astronomical observing;
- light pollution and sky transparency;
- a description of the various systems of specifying time;
- information on the Sun including sunspots and aurorae;
- sections on solar and lunar observing;
- sections on astronomical sketching and digital photography
- essay on deep-sky objects
- section and observing list "Wide-Field Wonders"
- a list of meteorite craters in North and Central America;
- advice on using the *Observer's Handbook* for teaching astronomy;
- information on the Gegenschein and zodiacal light;
- a section on sky phenomena;
- 40 pages of authoritative tables dealing with stars, star clusters, nebulae, and galaxies; and
- maps of the Moon and of the entire stellar sky.

Skyways: Astronomy Handbook for Teachers

by Mary Lou Whitehorne Spiral Bound, 114 pages **Cost: \$31.00**

Skyways, the RASC's Astronomy Handbook for Teachers was written specifically for Canadian educators and meets the astronomy learning outcomes outlined in the *Common Framework of Science Learning Outcomes* (the "Pan-Canadian Protocol"). The book contains instructions for hands-on activities on a wide range of topics including Seasons, Stars, and the Solar System.

Skyways is also available in French under the title *Explorons l'astronomie – Guide pédagogique*.



Skyways is:

- Canadian curriculum-specific
- Pre-tested by Canadian teachers
- Hands-on, interactive
- Geared for grades 5-12
- Fun and easy to use
- Cost-effective

Skyways is complete with:

- Conceptual background
- Teacher information
- Student worksheets
- Resource lists

Skyways contains sections on:

- Seasons
- Moon Phases and Tides
- Solar System
- The Sun
- Stars
- Constellations
- Distance Determination
- The Milky Way, Galaxies and the Universe
- Telescopes
- Canadian Contributions to Astronomy
- FAQ's
- And more

2016 Deep Space Mysteries - - Astronomy Calendar

The Astronomy Calendar features breathtaking images of stars, planets, galaxies and other deep space wonders and includes a highly informative essay accompanying each photograph.

**The Cleveland Astronomical Society
cost is \$ 12.99**



Order page:

Name:

Phone:

E-Mail:

Title	No. of Copies	Total Cost
2017 Astronomy Calendar --\$12.99each <i>"Deep Space Mysteries"</i>		
Astronomy Magazine 1 year -- \$34.00 2 years -- \$60.00		
2016 Observers Handbook -- \$26.95 (For orders of 2-9)**		
Skyways -- \$19.95 plus shipping each		
<i>The Thousand-Yard Model or The Earth as a Peppercorn</i> -- \$112.95 plus shipping each		
<i>To Know The Stars</i> -- \$18 plus shipping each		
Astronomical Calendar 2016 -- Guy Ottewell - Cost: TBD		
The Astronomical Companion – Cost: \$29.95 plus shipping each		

**** As long as 2 or more copies of products are purchased by multiple members, everyone receives the multi-copy price.**

Thank you for your support.

Suzie Dills, Treasurer

suzieastro@yahoo.com or 440-670-1442 or bring to the meetings on Oct 1 or Nov 5, 2015. Items will be ordered after the Nov 5 meeting and distributed at the Dec 3 , meeting. Payment will be due at the time of distribution.