
by Chaya Glaser
[Intentionally Left Blank]


# Amazing Rings 

$\therefore$

by Chaya Glaser

Consultant: Karly M. Pitman, PhD
Planetary Science Institute
Tucson, Arizona

## BEARPORT

\author{

- New York, New York
}


## Credits

Cover, © NASA/JPL/Space Science Institute; TOC, © NASA/JPL/Space Science Institute; 4-5, © NASA/JPL/Space Science Institute; 6-7, © Wikipedia \& NASA; 8, © NASA/JPL/ Space Science Institute; 9, © Juergen Faelchle/Shutterstock; 10-11, © NASA/JPL/
Space Science Institute; 12, © NASA and The Hubble Heritage Team (STScl/AURA)
Acknowledgment: R.G. French (Wellesley College), J. Cuzzi (NASA/Ames), L. Dones (SwRI), and J. Lissauer (NASA/Ames); 13, © image courtesy of CALTECH/NASA; 14, © NASA/ JPL; 15, © NASA/JPL/Space Science Institute; 16-17, © NASA/JPL-Caltech/SSI/Cornell;
18-19, © NASA/JPL/Space Science Institute; 19, © NASA/JPL/University of Colorado;
20-21, © Courtesy of NASA and Space Science Institute; 23TL, © iStock/Thinkstock; 23TR, © Wikipedia \& NASA; 23BL, © NASA/JPL; 23BR, © NASA/JPL.

Publisher: Kenn Goin
Editor: Jessica Rudolph
Creative Director: Spencer Brinker
Design: Deborah Kaiser
Photo Researcher: Michael Win

## Library of Congress Cataloging-in-Publication Data

Glaser, Chaya, author.
Saturn : amazing rings / by Chaya Glaser. pages cm . - (Out of this world)
Includes bibliographical references and index.
ISBN 978-1-62724-566-1 (library binding) - ISBN 1-62724-566-9 (library binding)

1. Planetary rings-Juvenile literature. 2. Saturn (Planet)-Juvenile literature. I. Title.

QB671.G53 2015
523.46-dc23

$$
2014034614
$$

Copyright © 2015 Bearport Publishing Company, Inc. All rights reserved. No part of this publication may be reproduced in whole or in part, stored in any retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from the publisher.
For more information, write to Bearport Publishing Company, Inc., 45 West 21 st Street, Suite 3B, New York, New York 10010. Printed in the United States of America.

## conTEnIS

## Saturn . . . . . . . . . . . . . . . . . . . . . . . . . 4

Saturn Versus Earth ..... 22
Glossary ..... 23
Index . ..... 24
Read More . ..... 24
Learn More Online ..... 24
About the Author ..... 24

## Which planet has many bright rings?



# Saturn is part of Earth's 

 Solar System.
## sun

## 5

## GATURI

## InAIIT5

## It's the sixth planet from the Sun.

color 10-11
Earth 6, 9, 12, 15, 22
moons 20-21, 22
orbit 16, 20
rings 4, 16, 18-19, 21
size $8-9,22$
spacecraft 14-15
temperature 22

RERD IIDRE

Lawrence, Mllen. Saturn:
The Ringed Wonder (Zoom Into Space). New York: Ruby Tuesday Books (2014).

Taylor-Butler, Christine.
Saturn (Scholastic News
Nonfiction Readers). New
York: Children's Press (2005).

LERRII IIDRE online
To learn more about Saturn, visit www.bearportpublishing.com/OutOfThisWorld

मBDUT THE RUTHDR
Chaya Glaser enjoys looking up at the stars and reading stories about the constellations. When she's not admiring the night sky, she can be found playing musical instruments.
[Intentionally Left Blank]

5 Amazing Rings $_{\text {AT }}^{\text {AT }}$

Which planet has 12 bright rings-and maybe more? Saturn! The planet's rings are made of pieces of ice and rock. Some pieces are as large as a house and some are as small as a grain of sand.

Look inside to discover these and other fascinating facts about Saturn.

EARTH: No Place Like Home
ICY COMETS: Sometimes Have Tails
JUPITER: The Biggest Planet
MARS: Red Rocks and Dust
MERCURY: The Smallest of All
GUR MODN: Brightest Object in the Night Sky

NEPTUNE: Far, Far Away
PLUTD: The Icy Dwarf Planet
SATURN: Amgzing Rings
THE SUN: A Super Star
URANUS: Cold and Blue
VENUS: Super Hot

## BEARPORT <br> PUBLISHING

www.bearportpublishing.com


