

For sale by the Superintendent of Documents, U.S. Government Printing Office Internet: bookstore.gpo.gov Phone: toll free (866) 512-1800; DC area (202) 512-1800 Fax: (202) 512-2104 Mail Stop: IDCC, Washington, DC 20402-0001

ISBN 978-0-16-08308-8

This book was made possible by NASA Living With a Star grant number NNG06EC631

The graphic image of the Sun on the cover and in the text is a detail from a much larger woodcut created by Albrecht Dürer (1471-1528) to illustrate the prophecies of the Apocalypse in an early book printed in Germany in 1498.

Dear Reader,

The enclosed work represents a loving and dedicated effort on the part of my beloved late husband, John A. Eddy, known to most of us as Jack. With the exception of a few minor administrative details, the book was only just completed, and the final, final version signed off on, when our three-year battle with cancer took him from us on June 10th 2009. And although Jack, sadly, did not get to see the final printed version, all of the words, illustrations, tables, graphs, covers, even the most minor details, were carefully and thoughtfully conceived, written, and edited by him over a multi-year period in our peaceful home office in Tucson, Arizona.

It was Jack's hope and goal to assemble in one place, through this book, concise explanations and descriptions—easily read and readily understood—of what we now know of the chain of events and processes that connect the Sun to the Earth, with especial emphasis on space weather and Sun-Climate. As many know, Jack was extraordinarily gifted at teaching and illustrating and popularizing any subject, but particularly those in the realm of science. I believe he once again shared these gifts with us through his many years of work on this book.

For those of us who were blessed to know Jack, we will surely always remember his kind, gentle, soft-spoken and dignified nature as well as his magical sense of humor. And all will sense these traits within the thoughts and words that he has given us through this book. I am deeply proud and honored to have been his indirect and unspoken partner in this endeavor, as well as his wife, soul-mate, and life partner for nearly twenty years.

Barbara

Mrs. John A. Eddy Tucson, Arizona July 4th 2009