

SARAH E. GIBSON

Dr. Sarah Gibson is a Senior Scientist in the High Altitude Observatory (HAO) at the National Center for Atmospheric Research, and Section Head of HAO's Solar Frontiers Section. Dr. Gibson received her Bachelor's Degree in Physics from Stanford University, and her Masters and Doctoral Degrees in Astrophysics from the University of Colorado.

Dr. Gibson's research centers on solar drivers of the terrestrial environment, from short-term space weather drivers such as coronal mass ejections (CMEs), to long-term solar cycle variation.

Dr. Gibson uses theoretical models to understand the magnetic origins of CMEs and related space weather phenomena. Dr. Gibson has led International Space Science Institute (Switzerland) International Teams on the subjects of Prominence Cavities and Coronal Magnetism. She is the primary author of the FORWARD suite of SolarSoft IDL codes for model-data comparison, and is currently coordinating efforts to quantify the magnetic field of the Sun's atmosphere in the form of a Data-Optimized Coronal Field Model (DOCFM).

Dr. Gibson also led the international Whole Sun Month and Whole Heliosphere Interval coordinated observing and modeling efforts to characterize the three-dimensional, interconnected solar-heliospheric-planetary system at solar minimum, and an International Astronomical Union (IAU) Working Group on Comparative Solar Minimum to promote analyses of the degree and nature of variations within and between minima. She is currently involved in project to archive and analyze multi-decadal solar observational records.

Dr. Gibson was the recipient of the American Astronomical Society – Solar Physics Division 2005 Karen Harvey Prize. She was a Scientific Editor for the Astrophysical Journal and has served on many national and international committees. She is currently a member of Executive Committee of the National Academies' Space Studies Board and co-chair of its Committee on Solar and Space Physics, and is Vice President of the IAU Division E (Sun and Heliosphere).

Dr. Gibson is committed to education and public outreach. She gave the first of NCAR's 50th anniversary public lectures, participated in the NOVA episode "Secrets of the Sun" and NBC Learn's "When Nature Strikes: Space Weather" (NSF/TWC), and has written a blog post for the Huffington Post entitled "Living with Space Weather (Baby, It's Charged Outside)".