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Amy R. Winebarger is an astrophysicist in the Heliophysics and Planetary Science Office at NASA's Marshall Space Flight Center in Huntsville, Ala. She specializes in the analysis of observations of the solar corona and compares these observations with computer models of the solar corona. She also is involved in several instrument programs, including the High-Resolution Coronal Imager, or Hi-C, that studies the solar atmosphere.

Prior to joining NASA in 2010, Dr. Winebarger was an assistant professor at Alabama A&M University in Huntsville from 2006 to 2010. From 2001 to 2005, she was a research scientist at the Naval Research Laboratory in Washington. She was an astrophysicist from 1999 to 2001 at the Smithsonian Astrophysical Laboratory in Cambridge, Mass.

A native of Kingsport, Tenn., Dr. Winebarger received her doctorate in physics in 2000 from the University of Alabama in Huntsville. She also earned her master's degree in physics from UAHuntsville in 1997, and her bachelor's degree in physics in 1995 from King College in Bristol, Tenn.

She has received numerous awards throughout her career and has made significant contributions in the field of physics. She was principal investigator or coinvestigator on many National Science Foundation and NASA research grant projects. She is currently principal investigator on a grant project for NASA's Solar and Heliospheric Physics Program. The project, under way until 2014, uses temperatures and pressures measured in solar active regions as diagnostics for coronal heating. She also has contributed to more than 10 astrophysics journal publications.

Dr. Winebarger and her husband Michael Martin, formerly of Managua, Nicaragua, have three daughters and live in Madison, Ala.