

Overview of the NASA Solar Irradiance Science Team (SIST) Program

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Solar irradiance data sets, both total and spectrally resolved, are a key input parameter for understanding the forcing mechanisms that act on the Earth's climate and atmosphere. The spectral coverage and temporal duration needed for such data sets exceeds the measurement capabilities and lifetime of any single satellite instrument. NASA requested "...the development of consistent multi-instrument/multi-platform space-based data sets of solar irradiance" in Fall 2014, and recently selected 7 proposals to comprise the Solar Irradiance Science Team (SIST). This presentation will briefly review the research planned for the highly complementary SIST investigations, and also discuss the goals of the SIST project. We hope to build on the work currently under way in related efforts, such as the European SOLar Irradiance Data Exploitation (SOLID) project.