

CAWSES (Climate and Weather of the Sun-Earth System) Science: Progress thus far and the next steps

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Climate and Weather of the Sun Earth System (CAWSES) is the current program of Scientific Committee for Solar Terrestrial Physics (SCOSTEP) for 2004 - 2008. The main aim of CAWSES is to bring together scientists from various nations to address the coupled and global nature of the Sun-Earth System phenomena. Towards that end CAWSES provides a platform for international cooperation in observations, data analysis, theory and modeling. There has been active international participation thus far with endorsement of the national CAWSES programs in some countries and many scientists around the globe actively volunteering their time in this effort. The CAWSES Science Steering Group has organized the CAWSES program into five Themes for better execution of its science: Solar Influence on Climate, Space Weather: Science and Applications, Atmospheric Coupling Processes, Space Climatology and Capacity Building and Education. CAWSES will cooperate with International programs that focus on the Sun-Earth system science and at the same time compliment the work of programs whose scope is beyond the realm of CAWSES. This talk will briefly review the science goals of CAWSES, provide salient results from different Themes with emphasis on those from the Space Weather Theme. This talk will also indicate the next steps that are being planned in this program and solicit inputs from the community for the science efforts to be carried out in the future.