Title: Sofia Civilian solar System
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SOFIA is an airborne observatory that will study the universe in the infrared spectrum.

SOFIA probes planetary atmospheres and outgassing of comets, especially mid-IR water lines, hyrdrides, and D-bearing lines that are difficult or impossible to do from the ground (HDO, ...

In 1986, the observatory analyzed the chemical composition of Halley"s Comet, providing insights into the makeup of early solar system materials. In 1988, the observatory ...

OverviewFacilityProject developmentScientific research and observationsAirborne Astronomy Ambassadors Program (AAA)External linksThe Stratospheric Observatory For Infrared Astronomy (SOFIA) was an 80/20 joint project of NASA and the German Aerospace Center (DLR) to construct and maintain an airborne observatory. NASA awarded the contract for development of the aircraft, operation of the observatory and management of the American part of the project to the Universities Space Research Association (USRA) in 1...

Comets like Catalina could have been an essential source of carbon on planets like Earth and Mars during the early formation of the solar system. New results from SOFIA, a joint ...

I will present highlights of SOFIA studies of Solar System objects, including observations of water in the lunar south pole region, measurements of the D/H ratio in water in the atmosphere of ...

SOFIA is a powerful, general-purpose infrared observatory used to study the birth of new stars, planetary nebulas and supernova remnants, the ...

SOFIA was the successor to the Kuiper Airborne Observatory. During 10-hour, overnight flights, it observed celestial magnetic fields, star-forming regions, comets, nebulae, and the Galactic ...

During 10-hour, overnight flights, SOFIA observed the solar system and beyond at mid- and far-infrared wavelengths, gathering data to study: Visible (left) and infrared (right) ...

For at least the next decade, SOFIA will be the only facility that provides regular access to the far-infrared sky. Unlike space missions, SOFIA can repair, upgrade, and replace its instruments ...

SOFIA is making observations of new solar systems, complex molecules in space, and planets in our own Solar System.

SOFIA is a powerful, general-purpose infrared observatory used to study the birth of new stars, planetary nebulas and supernova remnants, the atmospheres of Solar System objects, and ...

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