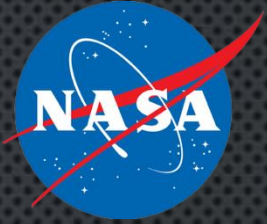


SEEING THROUGH THE NOISE: LANGLEY LEADS A QUANTUM REVOLUTION IN SPACE DATA



By pioneering entropy quantum computing software that instantly filters out sunlight interference from Light Detection and Ranging data, NASA Langley is successfully making future satellite missions significantly cheaper, lighter, and more energy efficient. This computing breakthrough enables scientists to quickly restore and uncover true atmospheric information previously obscured by solar background noise, driving the agency toward its goal of flying the first real-time quantum computer in low-Earth orbit. Complimenting these software advancements, NASA Goddard and NASA's Jet Propulsion Laboratory – guided by the Earth Science Technology Office—are simultaneously engineering ultra-precise quantum sensors to map Earth's gravity fields, locate underground aquifers, and monitor soil moisture for agricultural forecasting.

