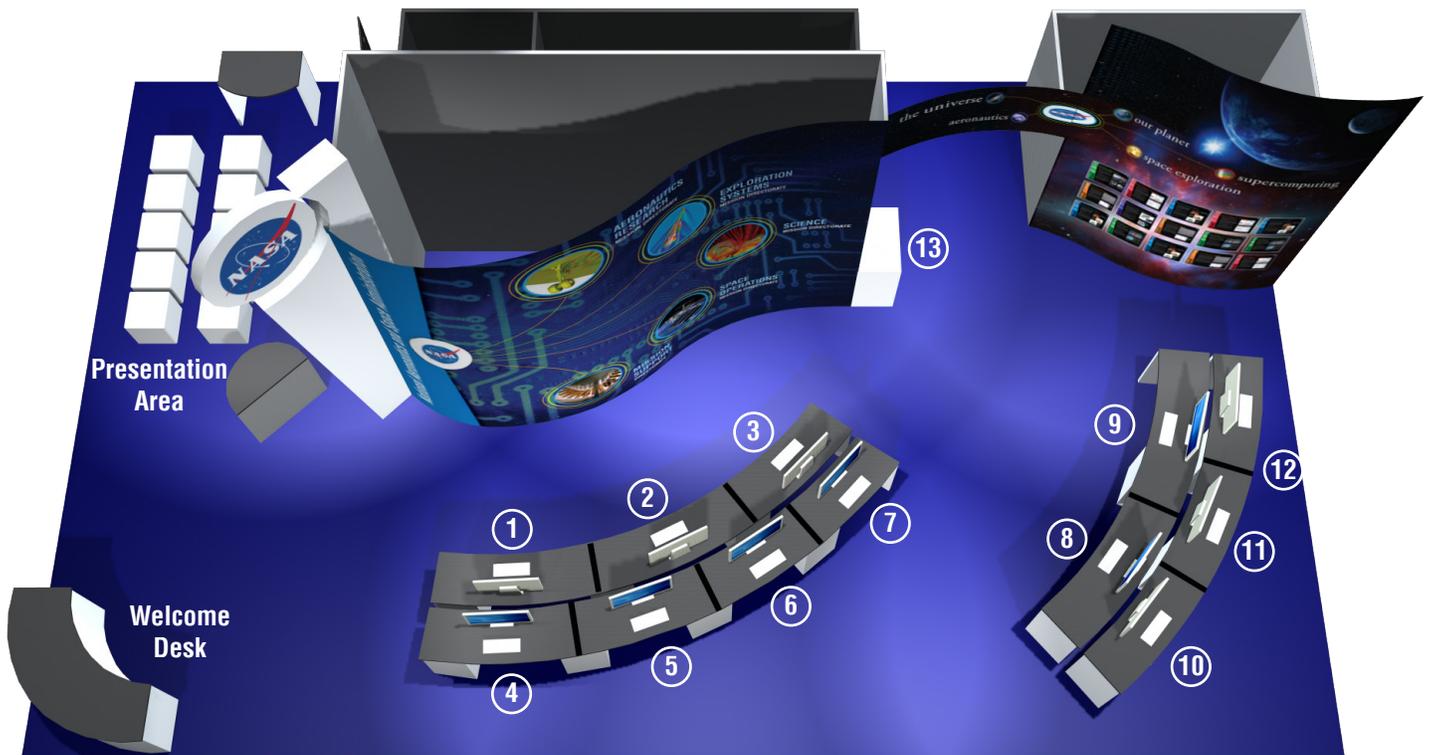


NASA BOOTH #3839 DIRECTORY



RESEARCH AREA DEMO TITLE

Aeronautics

Computational Scaling for an Unstructured-Grid CFD Solver
 High-Fidelity Simulations of Hypersonic Flows
 High-Fidelity Simulations of Landing Gear Noise
 High-Resolution Navier-Stokes Simulation of Rotorcraft Wakes
 High-Speed Turbulent Boundary Layers and Interactions with Shock Waves
 Prediction of Jet Engine Fan Noise Using Computational Aeroacoustics
 Supercomputing for Aircraft Fuel Injector Swirler Design

Our Planet

3D Global Hybrid Simulations of Earth's Magnetosphere
 Earth System Grid Data, Analysis, and Visualization Tools
 A Giga-Particle Atmospheric Trajectory Model (GTRAJ)
 High-End Ocean State Estimates: Application to Real-World Challenges
 The NASA Center for Climate Simulation: Data Supporting Science
 NCCS Climate Simulation Data Analysis
 Recent Advances in Global Hurricane Modeling after Katrina
 Toward GEOS-6, a Global Cloud System Resolving Atmospheric Model

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