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1. T6.02: Space Weather

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:GSFCParticipating Center(s):JSCRadiation hazards constitute one of the most serious risks to future human and robotic missions beyond Low-Earth Orbit, and particularly to long-duration, long-distance space missions. The main contributors to space radiation are Galactic Cosmic Rays (GCRs) and Solar Particle Events (SPEs). The latter is the more unpredictable of the two and is associated ...

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2. T6: Human Health, Life Support and Habitation Systems

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Human Health, Life Support and Habitation Systems, includes technologies necessary for supporting human health and survival during space exploration missions and consists of five technology subareas: environmental control and life support systems and habitation systems; extravehicular activity systems; human health and performance; environmental monitoring, safety, and emergency response; and radi ...

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3. T8.01: Technologies for Planetary Compositional Analysis and Mapping

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:JPLParticipating Center(s):LaRC,GSFCThis subtopic is focused on developing and demonstrating technologies for both orbital and in situ compositional analysis and mapping that can be proposed to future planetary missions. Technologies that can increase instrument resolution, precision and sensitivity or achieve new and innovative scientific measurements are solicited. For example missio ...

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4. T8.02: Visible to Far-Infared Absolute Radiance Developments

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:LaRCParticipating Center(s):GSFCThis solicitation seeks to advance the state of the art in absolute radiance measurements in the visible through the far-infrared (0.3 - 50 µm wavelength). Technologies to increase accuracy, precision, and sensitivity of absolute radiance measurements are desired. These wavelengths are of specific interest to remote sensing applications for both Earth s ...

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5. T8: Science Instruments, Observatories and Sensor Systems

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Science Instruments, Observatories, and Sensor Systems addresses technologies that are primarily of interest for missions sponsored by NASA s Science Mission Directorate and are

primarily relevant to space research in Earth science, heliophysics, planetary science, and astrophysics. This topic consists of three Level 2 technology subareas: □ Remote sensing instruments/sensors. □ Observatories. ...

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6. T9.01: Navigation and Hazard Avoidance Sensor Technologies

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:LaRCParticipating Center(s):JSCMissions to solar systems bodies must meet increasingly ambitious objectives requiring highly reliable “soft landing”, “precision landing”, and “hazard avoidance” capabilities. Robotic missions to the Moon and Mars demand landing at pre-designated sites of high scientific value near hazardous terrain features, such as escarpments, craters, slo ...

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7. T9: Entry, Descent and Landing Systems

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Entry, Descent, and Landing, consists of four sub-technology areas: aeroassist and entry, descent, landing, and vehicle systems technology. Entry, Descent and Landing (EDL) is a critical technology that enables many of NASA□s landmark missions,including Earth reentry, Moon landings, and robotic landings on Mars. The EDL topic defines entry as the phase from arrival through hypersonic flight, with ...

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8. A1.01: Structural Efficiency-Hybrid Nanocomposites

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:LaRC Two of the primary goals of the Advanced Air Vehicles program are safety and efficiency, which can be achieved simultaneously through designer materials tailored for future aircraft structures. The SOA for lightweight structures are carbon fiber reinforced polymeric composites which make up approximately 50% of the weight of Boeing's 787. Adoption of all-carbon nanotube (CNT) com ...

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9. A1.02: Aerodynamic Efficiency Drag Reduction Technology

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:LaRC The challenge of energy-efficient flight has at its foundation aerodynamic efficiency, and at the foundation of aerodynamic efficiency is low drag. Drag can be broadly decomposed into four components: viscous or skin friction drag, lift-induced drag, wave or compressibility drag, and excrescence drag due to various protruding items such as antennae, wipers, lights, etc. The relat ...

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10. A1.03: Low Emissions Propulsion and Power

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:GRCParticipating Center(s):AFRC,ARC,LaRCProposals are sought which support electric propulsion of transport aircraft, including turboelectric propulsion (turbine prime mover with electric distribution of power to propulsors) and various hybrid electric concepts, such as gas turbine engine and battery combinations.Turboelectric propulsion for transport aircraft applications will require ...

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