

# Natural orbital environment guidelines for use in aerospace vehicle development

George C. Marshall Space Flight Center - NASA



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The Phase II effort will concentrate on resolving several challenging issues inherent to high temperature sensors and in building a prototype system. The important criteria in this case is to discriminate the UV emission from the weapons against the solar background.

**Orbital Debris**

Benefit: Micrometeoroid protection minimizes the risk of impacts that can damage spacecraft systems and jeopardize flightworthiness. However, the average impact speed of OD with another space object will be approximately 10 kilometers per second.

**ISO 14200**

These assessment methods can also pinpoint areas of concern within a system that might not be obvious otherwise and can aid the design activity in improving overall system performance.

**Orbital Environment**

For example, one can smell odors from an overheated electrical wire.

**Orbital Debris**

Use of a properly controlled manufacturing process will result in the proper density, percent resin content, compressive strength, interlaminar shear strength, thermal conductivity, coefficient of thermal expansion, and tensile strength.

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