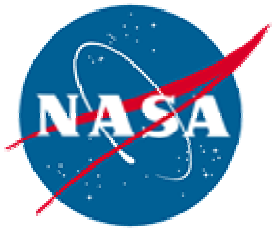


Space Environment Testbed Breakout Session Charge

Ken LaBel, NASA/GSFC

LWS/SET Project Technologist

11 September 2003

Purpose of Breakout Sessions

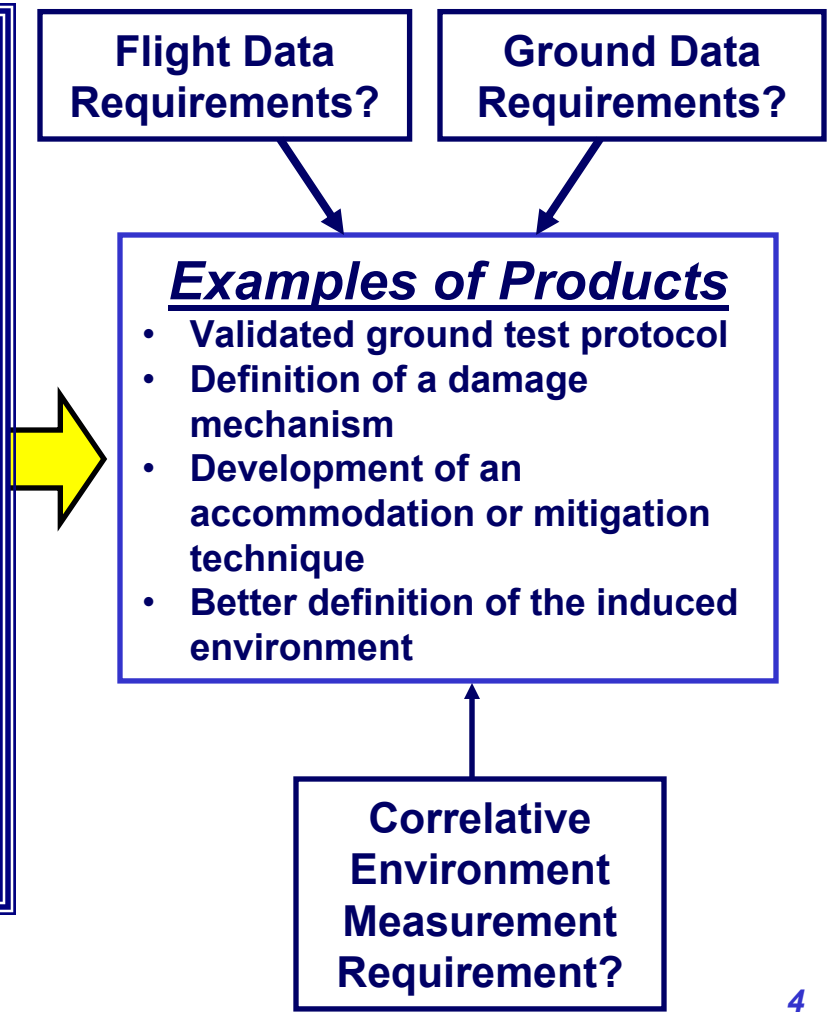
Prioritize topics for the next NRA

Suggested Breakout Session Agenda

- Introductions
- Review focus of Breakout Session
  - SET Goal & Objectives
  - Examples of SET Products
  - List of past & current NRA Awards
  - Criteria for inclusion in SET-2 NRA
- List candidate topics using:
  - Presentations
  - Brainstorming
- Discuss appropriateness of topics for SET Project
- Discuss data collection requirements
- Prepare data sheets (in package)
- Summarize and prioritize group inputs
- Prepare report
- Present report to Workshop

SET Goal & Objectives

- ***Goal***
  - Improve the capability to accommodate or mitigate the effects of solar variability on spacecraft and instrument design and operations
- ***Objectives***
  - Define the mechanisms for space environment and effects
  - Reduce uncertainties in the definitions of the induced environment and effects on spacecraft and their payloads
  - Improve design and operations guidelines and test protocols



Criteria for Inclusion in Next NRA

SET Space Flight

- **Technology that requires space flight for performance characterization or validation**
- **Technology candidates applicable to more than one mission or to a LWS mission**
- **Technology whose performance changes due to the effects of solar variability**
  - **Performance changes cannot be minimized by changing the spacecraft design**

Information for Flight Investigation

- **A description of the preliminary requirements for an investigation**
- **A description of how your suggested investigations can address the preliminary requirements**
- **An assessment of the readiness for flight of your investigation in the 2007-2008 timeframe**
- **A description of the scenario for data collection in space to support their suggested investigations**
- **An estimate of the cost for providing the investigation including the cost of the flight experiment**
- **An identification of approaches for partnering to support the investigation**

Data Sheet for Flight Investigations

Living with a Star/Space Environment Testbeds Workshop – September 11 -12, 2003
Technology Breakout Session: _____

Experiment Concept Collateral Environment Measurement	Title:
Background:	
Description of Technology Requirements for On-Orbit Testing:	
Timeframe Technology is Needed: Timeframe for Technology Maturity:	Benefiting Missions: Benefits to LWS Applications Areas:
Flight Requirements: *(if known)* Orbit: Altitude: Inclination: Power: Weight (kg): Size (cm):	 Name: Phone: Email: Organization:
Telemetry: Environment Measurement:	