



CRaTER Pre-Environmental Review
(I-PER)

Spacecraft I&T
Mike Golightly

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Cosmic RAY Telescope for the Effects of Radiation



I&T Support

- CRaTER team will retain the expertise necessary to address any issues that arise during I&T, launch, and initial operations:
 - Digital electronics, spacecraft interfaces, instrument simulator, embedded software: MIT/B. Goeke, D. Gordon
 - Analog electronics: Aerospace Corp/B. Crain
 - MOC-CRaTER SOC interface: MIT/P. Ford, BU/E. Wilson, BU/D. Bradford
 - Assembly Q&A, safety: MIT/B. Klatt



I&T Support

- Support during I&T activities at Goddard and KSC
 - One team member on the road
 - System experts remain on-call at home institutions to trouble-shoot problems
- Basis for I&T support strategy
 - Instrument and its operation are extremely simple and straightforward
 - Instrument data available in real-time via Internet
 - Secondary Science & Housekeeping data flows real-time
 - Primary Science available *via scp* file copy
- CRaTER Hardware support
 - EM and Flight Spare units located at MIT
 - Spacecraft simulator gives real-time internet access for testing



Delivered Simulators

- Electrical simulator
 - First instrument electrical simulator check at Goddard in December 2006—no problems
 - S/N 11 simulator delivered to GSFC (Jun 2006)
 - Verified R/T data flow from Goddard to MIT for housekeeping and secondary science packets
- Mass simulator
 - Delivered to GSFC (Jan 2007)