



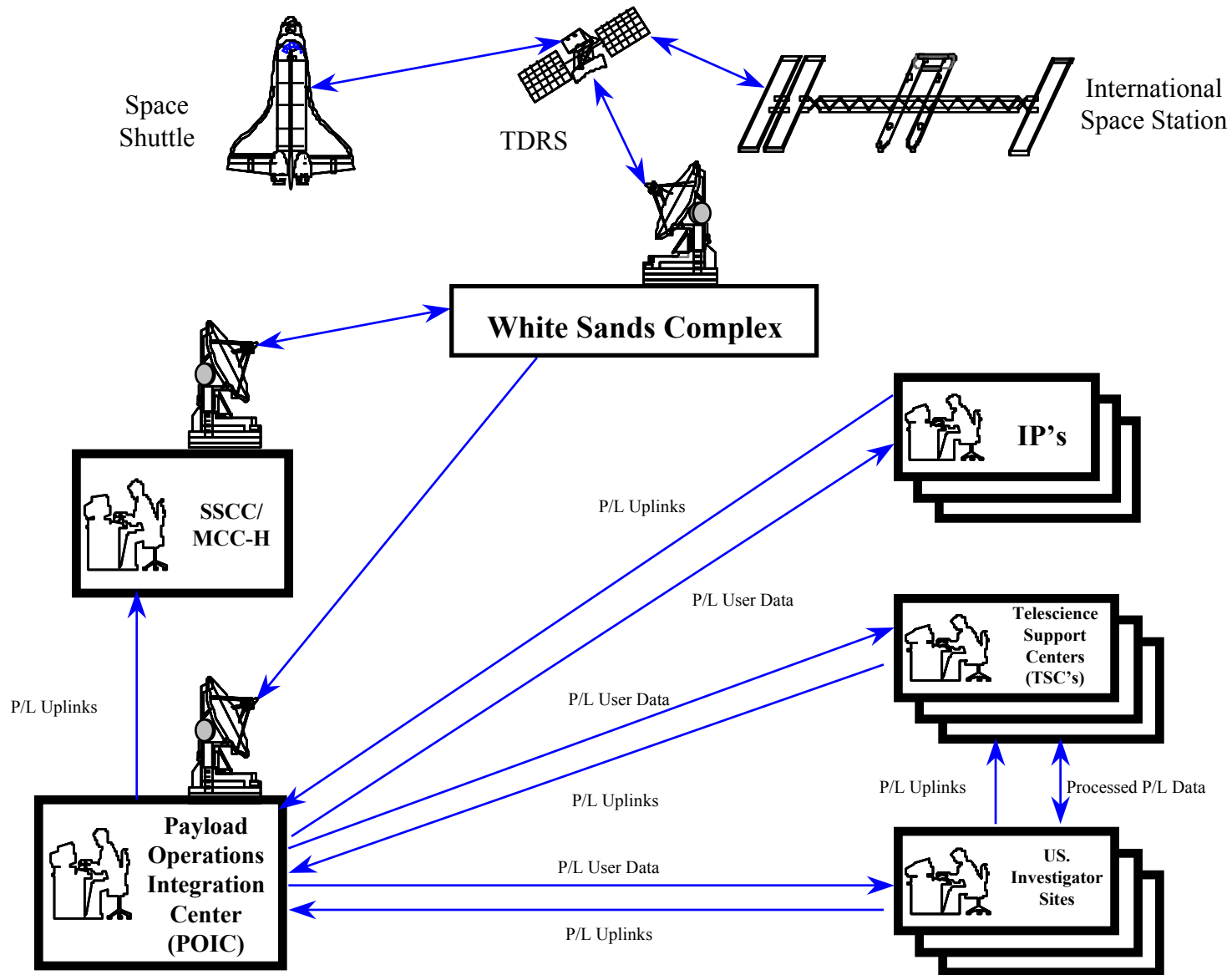
Telescience Resource Kit

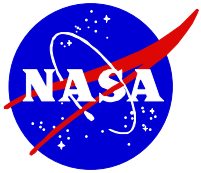


Michelle Schneider
NASA/MSFC/FD41
256-544-1535

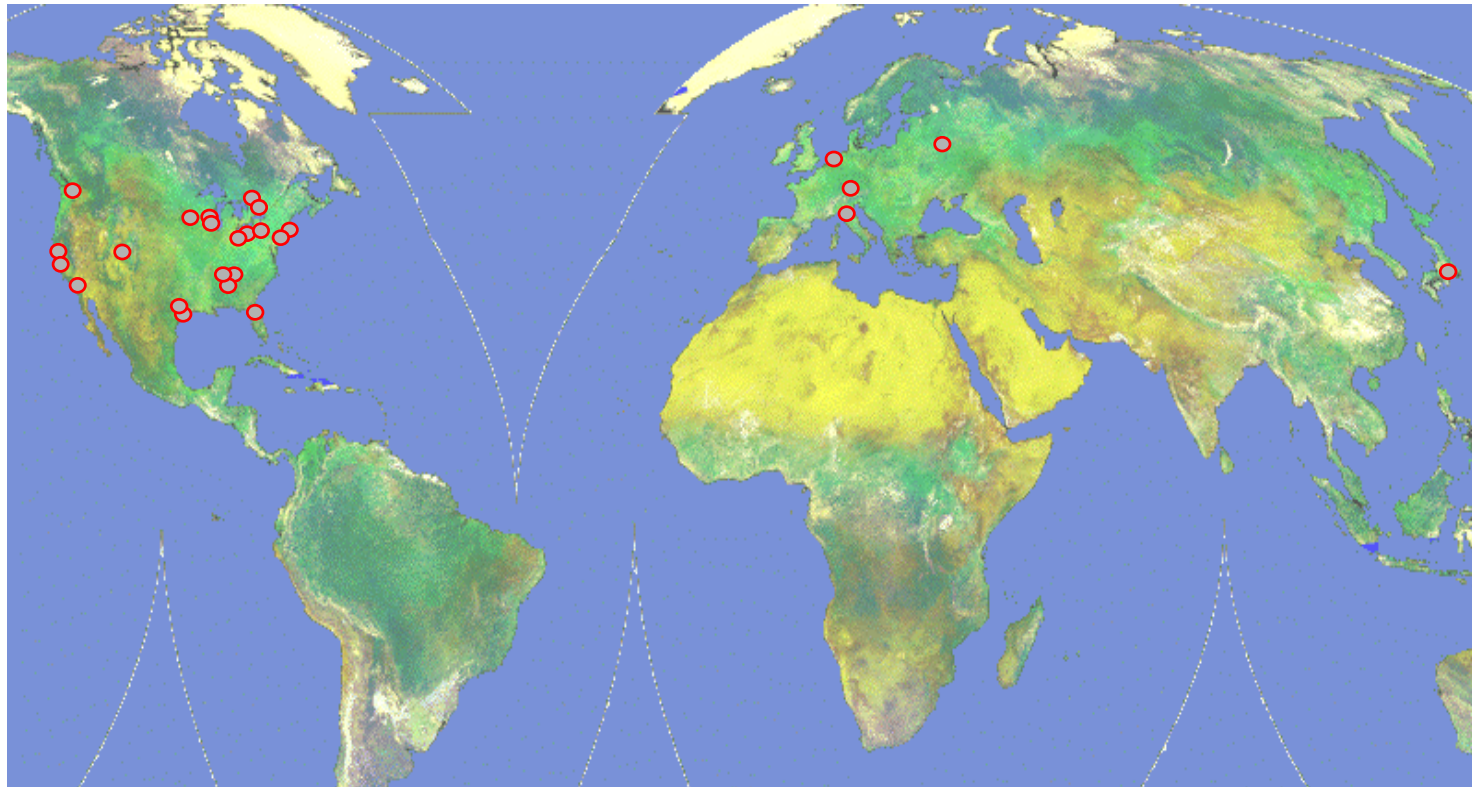
Michelle.Schneider@msfc.nasa.gov
<http://trek.msfc.nasa.gov>

ISS Payload Telemetry and Command Flow





Distributed Payload Operations Supported ISS Customer Distribution



- Indicates Location With One or More Payloads Supported Including
 - Remote Principal Investigator (RPI) Sites
 - International Partners and International Participants
 - NASA Telescience Support Centers (TSCs)



Telescience Resource Kit



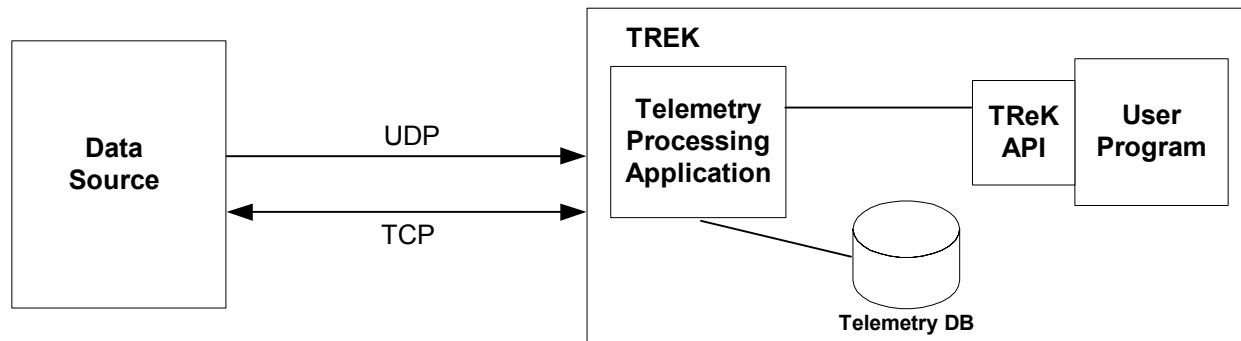
- TReK is a suite of software applications that provide local ground control system functions.
- The TReK software runs on a PC under the Windows 2000 operating system.
- The initial cost of a TReK solution is less than \$3500.
 - Initial cost includes a commercial PC and commercial software products.
 - Initial cost does not include network connectivity costs.
 - Yearly maintenance costs will include hardware and software upgrades.



Telemetry Capabilities



- * Receive, Process, Record, Forward, and Playback Telemetry Packets
- * Display, Record, and Monitor Telemetry Parameters
- * Extract Telemetry Parameters from Recorded Data Files
- * View Incoming Telemetry Packets (Hex/Text Format)
- * View/Record Telemetry Processing Statistics
- * Telemetry API
- * Telemetry Database

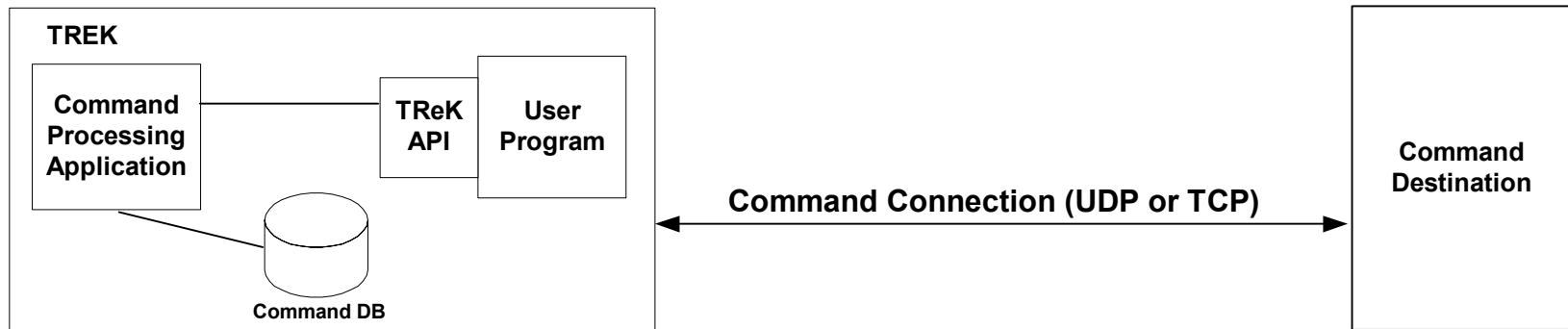




Command Capabilities



- * Command Build/Uplink
- * Command Updates
- * Command Responses
- * Command Session Recording/Viewing
- * Command Track
- * Command Statistics
- * Command API
- * Command Database





Training/Testing Capabilities



- TReK includes two training tools that can be used to simulate telemetry and command services. These tools require no external interfaces so they can be used for stand-alone training purposes and testing.
- TReK includes a full set of documentation (user guides, step-by-step tutorials) and on-line help.



Point of Contact



Name: Michelle Schneider
Phone: (256) 544-1535
Fax: (256) 544-9353
e-mail: Michelle.Schneider@msfc.nasa.gov
Address: Building 4610, FD41
Huntsville, AL 35812

TReK Web Site: <http://trek.msfc.nasa.gov>