JET Roadmap Workshop

International Networking Status and Plans

April 14, 2004

International Networking

Algeria	Colombia	Indonesia	Panama	Uruguay
Antarctica	Ecuador	Italy	Peru	Venezuela
Argentina	England	Japan	Russia	Vietnam
Australia	France	Korea	Saudi Arabia	
Brazil	Germany	Mexico	Singapore	
Bermuda	Greece	Micronesia	South Africa	
Bolivia	GUAM*	New Zealand	South Korea	
Canada	Honduras	Nigeria	Spain	
Chile	Hong Kong	Norway	Taiwan	
China	India	Pakistan	Thailand	

International Networking - Characterization

- Connectivity to 42 countries
- Connectivity to 63 cities/locations
- The majority of the data that is sent and received is:
    - Search and Rescue Information – SARSAT Program (X.25 PSDN)
        - http://www.sarsat.noaa.gov/
            - **COSPAS-SARSAT Rescues as of March 31, 2004:**
                - Worldwide – **Over 17,000+** Persons Rescued *(since 1982)*
                - United States – **4,717** Persons Rescued *(since 1982)*
                - Number of Persons Rescued To Date in the United States in 2004: **60**
                - - Rescues at sea: **54** lives saved in **16** incidents
                - - Aviation rescues: **0**
                - - PLB rescues: **6** lives saved in **4** incidents (all in Alaska)

International Networking - Characterization

- Weather Satellite data and imagery
  - T1 – OC3
  - FY08 – Will establish 10 T3 connections to 10 Countries

International Networking

- Types of Users we connect to:
  - Weather and Climate organizations and researchers
  - Search and Rescue organizations

- Issues we expect to face:
  - Ever expanding use of observational data
  - Anticipate increased international data and model sharing in the Climate arena
  - Collaboration – Visualization
  - Security

- Can JET help ?
  - NOAA is very interested in continuing to participate in JET activities
  - As International Climate Modeling advances, we expect increasing requirements for bandwidth

- Other FedNets ?
  - NASA, DoD, and DoE