## **Systems Architecture Description**

## **COLOR KEY** National Science Foundation (NSF) GOES-3 National Aeronautics and Space Administration (NASA) Department of Defense (DoD) 1.544/1.024 Mbps To/From SP GOES 9m L/S-Band **PSTN USAP** Denver **Antenna** 256/128 kbps **TDRS** Office **Private** To/From SP F4-F6 T1 (Back-up only) Satcomm Circuit **QWEST** Network and Network **ISDN PRIs Equipment Equipment GOES Backup** 20m L/S-Band VolP VTC 3m L/S-Band Antenna **Phones** Antenna **University of Miami** Richmond Heights, FL Internap S-Band (Ops Traffic) < 5 Mbps Bidirectional **USAP T3** Commodity **Enterprise** Ku-Band (Science Data) 150 Mbps From SP Internet Network Access Satcomm Internet **South Pole** Network 7 Mbps To SP and email **Equipment Equipment** LAN **Private GigEthernet via T3** OC-48 Circuit Network Network **Satcomm** Big and **Equipment Equipment** 18.2m Ku-Band Equipment Little Internet 2 Antenna SPTR-2 Science 4.2m S-/Ku-Band Data **NASA White Sands Complex NM Antenna** Researchers' **IRIDIUM Satellites** Home Institutions Iridium 28.8 kbps - 12 circuit L-Band **Antennas** Satcomm Multichannel email link Iridium Commercial and Network **PSTN** Equipment **Phone Lines** Ka-Band Equipment **Antenna** Voice and Single Channel Data (2.4 kbps) Dial-up Service **DoD Iridium Gateway** Wahiawa, HI **Iridium Handsets**