

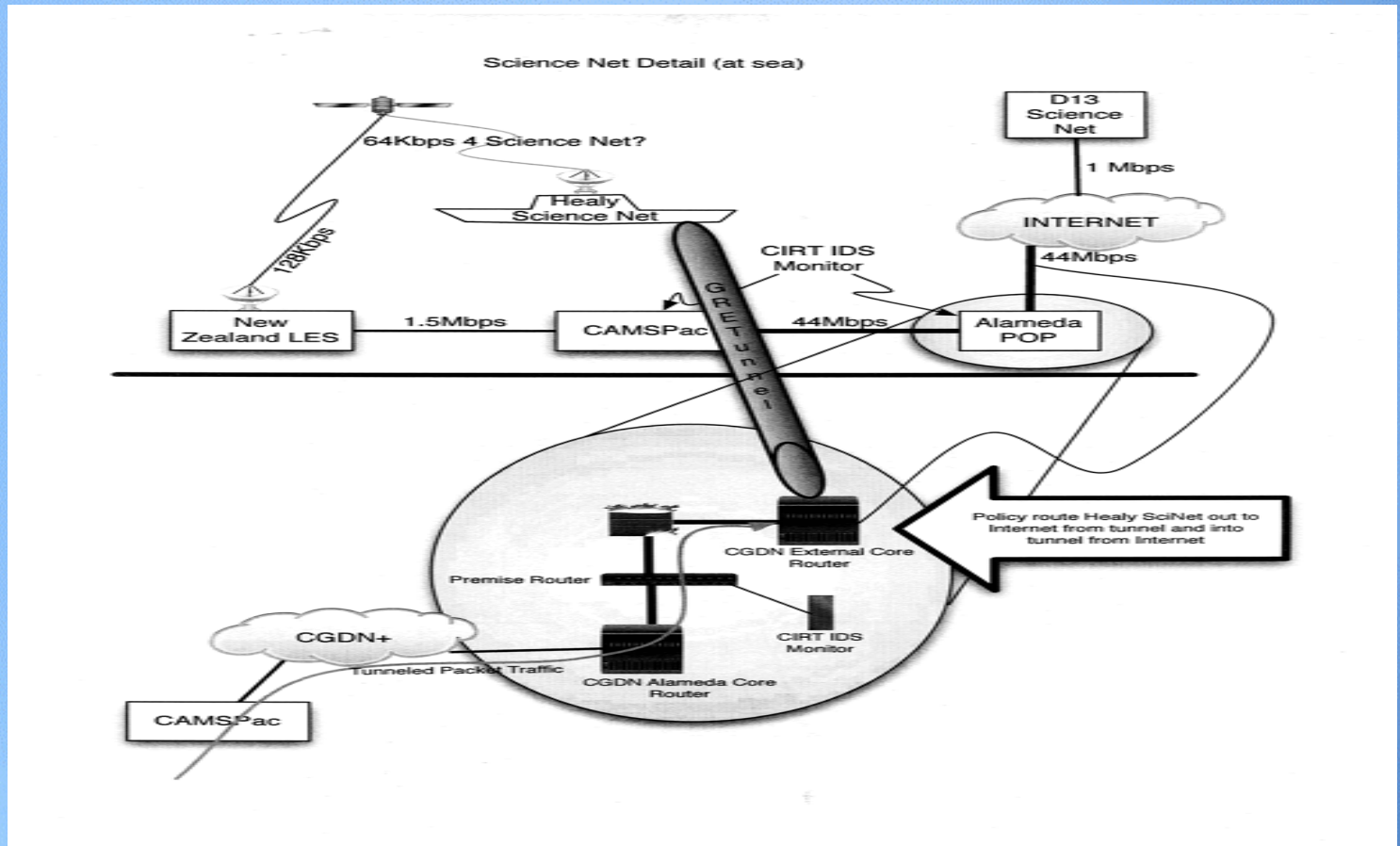


Satellite Connectivity at Sea

Science Network on Ice Breaker HEALY

James Wilson, U. S. Coast Guard

Our Connection



Science Network

- Access window server
- General Purpose Windows and Mac workstations
- Personal Laptops wire and wireless

Internet Access

- INMARSAT 24/ 7 low latitudes only
- IRIDIUM e-mail 24/7 low and high latitudes
 - No internet

INMARSAT B

- 128K
- Two antennas
- Software and hardware work in tandem
- 64K for Science Network and 64K for Coast Guard network
- Covers all of Alaska

IRIDIUM

- 9600 baud (4 channels or phones)
- 4 Antennas one for each channel
- Mounted on two stanchion
- 24/7 for Science Network
- High latitude coverage

Costs

- INMARSAT is a Navy leased line
 - Military satellites
- IRIDIUM SIMS purchased by the Coast Guard
 - No air time cost
 - Reachback equipment purchase from General Dynamics