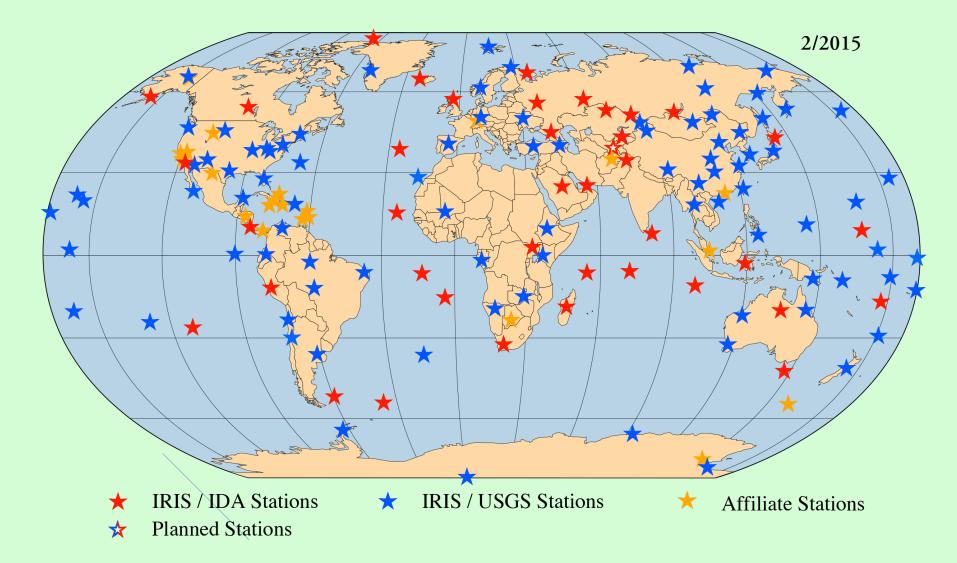
IDA GSN Overview

PROJECT

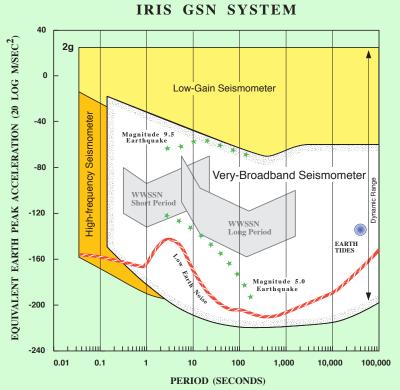
Carl Ebeling, IGPP INTERNATIONAL DEPLOYMENT OF ACCELEROMETERS

The Global Seismographic Network



Design Goals of the GSN:

- Distribute stations at 2000 km intervals globally in as uniform a pattern as possible
- Be able to record on-scale a Mw 9.5 earthquake at a distance of 30 degrees
- Provide timing accurate to > 0.01s

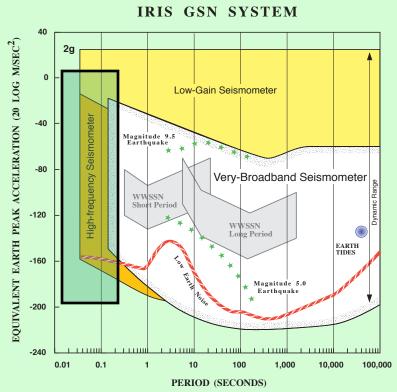




Streckeisen STS-1



Teledyne KS-54000-I







STS 2 / 2.5





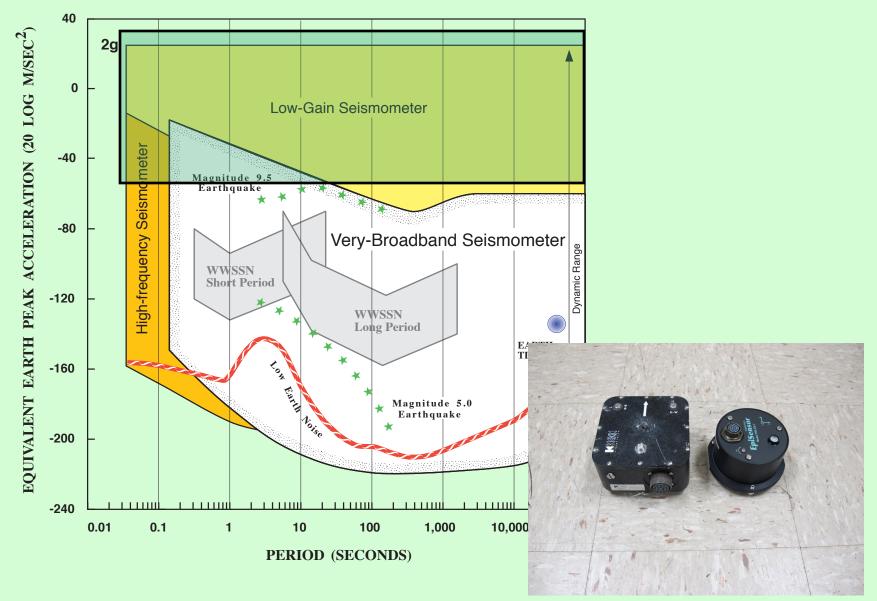


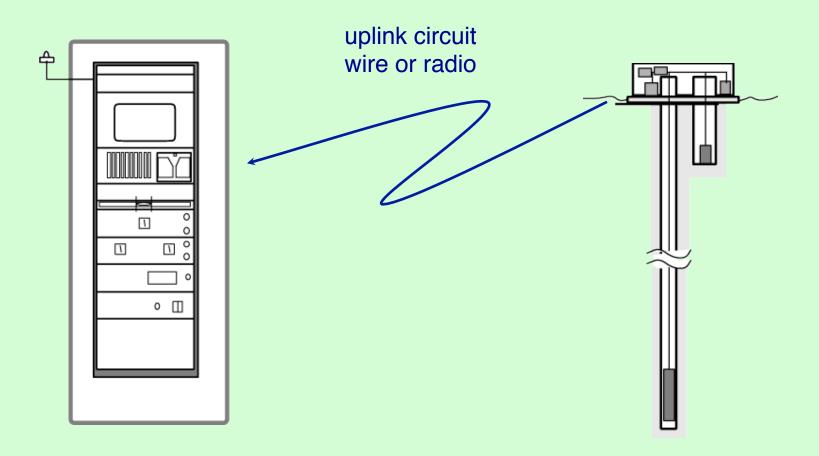
CMG-3T

Trillium 120PH

Trillium 240

IRIS GSN SYSTEM





Recording Room

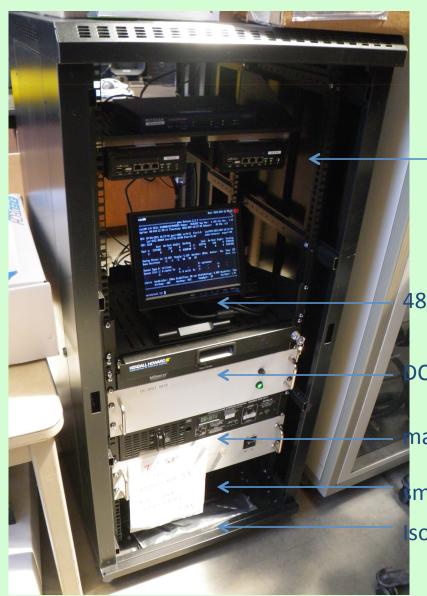
Seismometer Borehole



Recording room rack (A/C power)

dual station computers

- 48-54 VDC total system power supply
- DC bus
- mains input (120-240 VAC, 50-60 Hz)
 - smart UPS
- Isolation transformer, 120 VAC output



Recording room rack (A/C power)

dual station computers

48-54 VDC total system power supply

DC bus

mains input (120-240 VAC, 50-60 Hz)

mart UPS

solation transformer, 120 VAC output





Wellhead at COCO (Cocos-Keeling, Australia)





Todd Johnson aligns STS1s at UOSS (Sharjah, U.A.E.)



UOSS **all buttoned up**



Photoelectric array EFI (East Falkland Island)

Power:

Thermoelectric generator KDAK (Kodiak, Alaska)

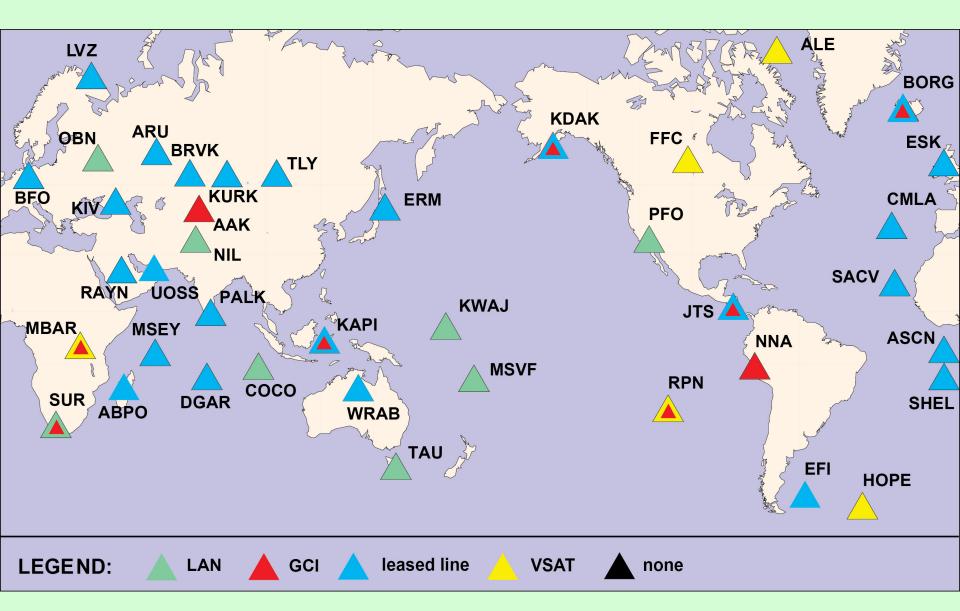


Telemetry links:

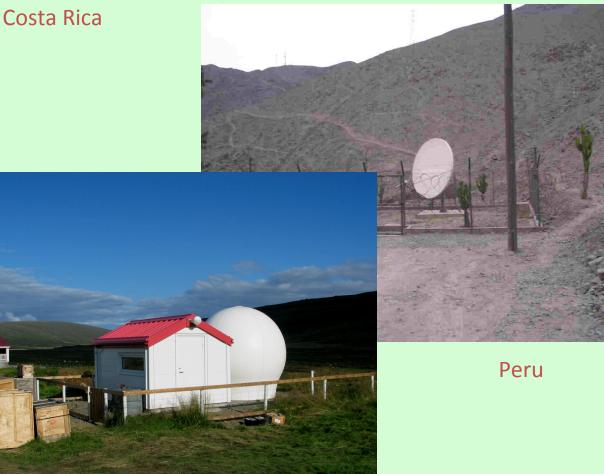
- LAN
- leased lines / VSATs
- Iocal ISP



IRIS/IDA Telemetry Topology – March 2015







Iceland

