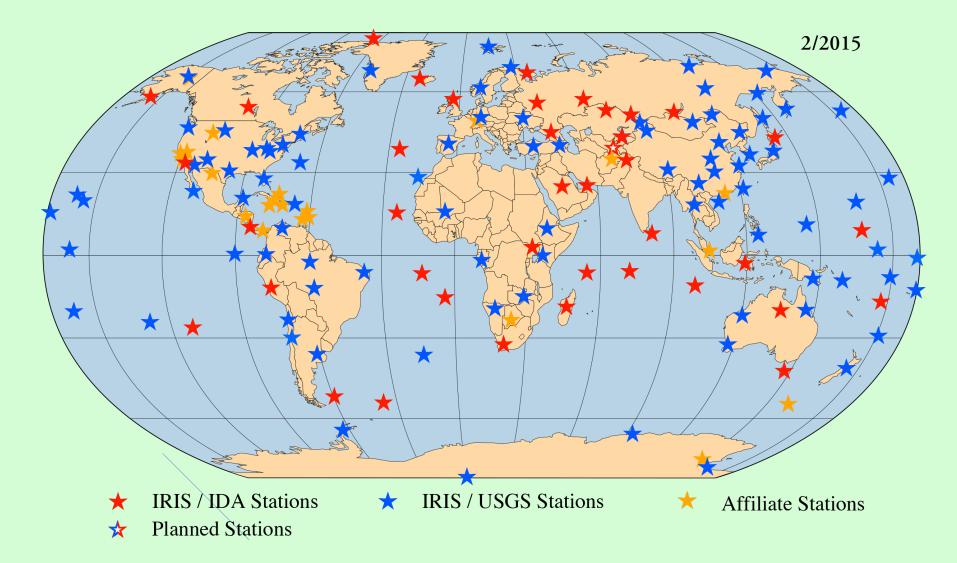
# IDA GSN Overview

PROJECT

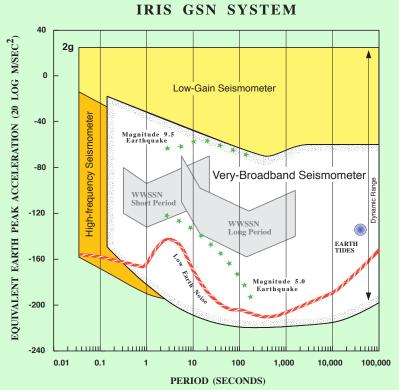
#### UCSD-SIO-IGPP INTERNATIONAL DEPLOYMENT OF ACCELEROMETERS

## 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

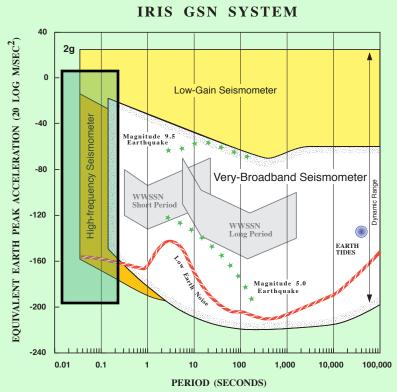




Streckeisen STS-1



#### Teledyne KS-54000-I







STS 2 / 2.5





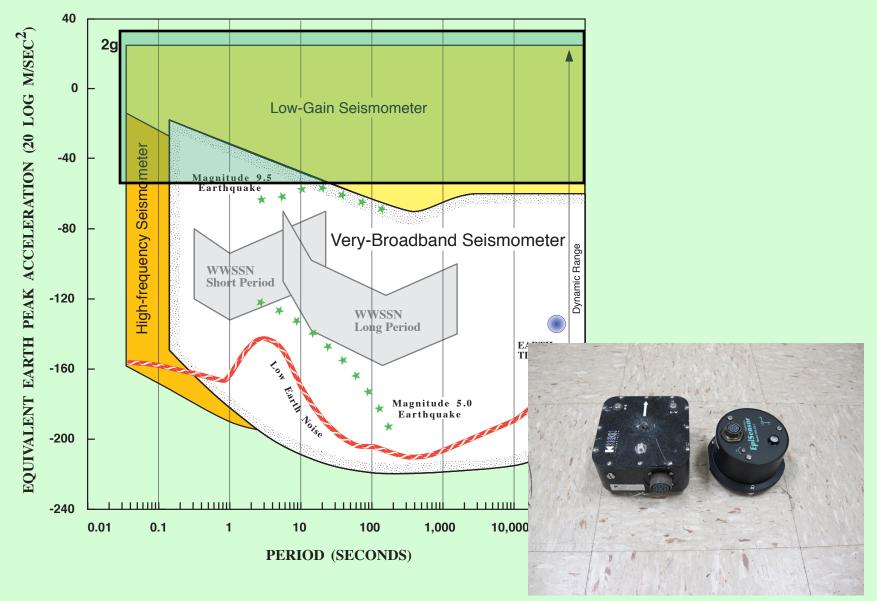


CMG-3T

Trillium 120PH

Trillium 240

IRIS GSN SYSTEM









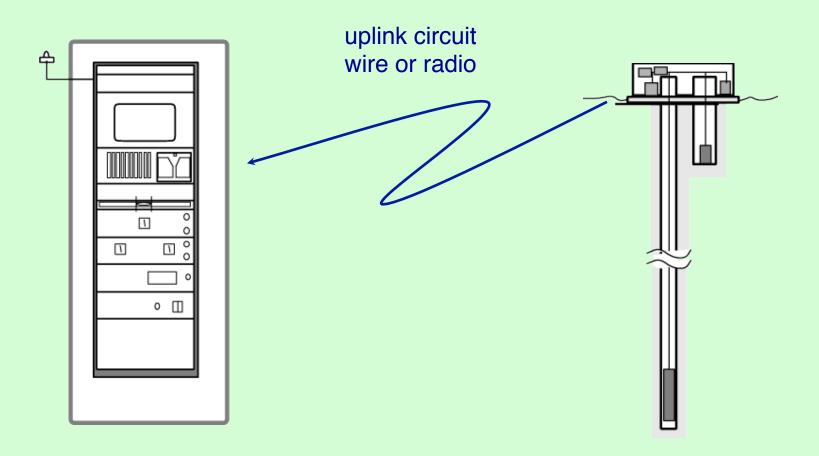
#### Todd Johnson aligns STS1s at UOSS (Sharjah, U.A.E.)



## UOSS \*\*all buttoned up\*\*

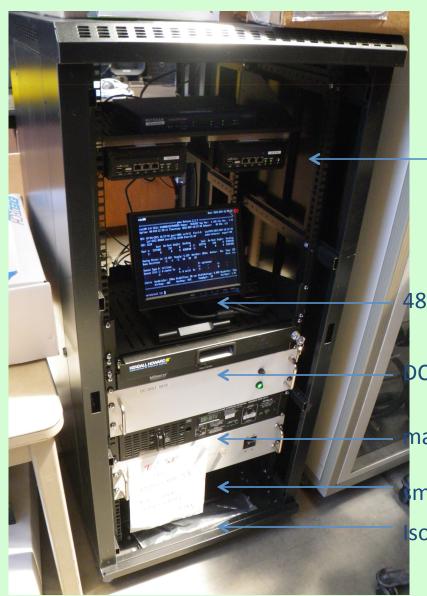


### Wellhead at COCO (Cocos-Keeling, Australia)



**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)

mart UPS

solation transformer, 120 VAC output



#### Photoelectric array EFI (East Falkland Island)

### **Power:**

#### Thermoelectric generator KDAK (Kodiak, Alaska)

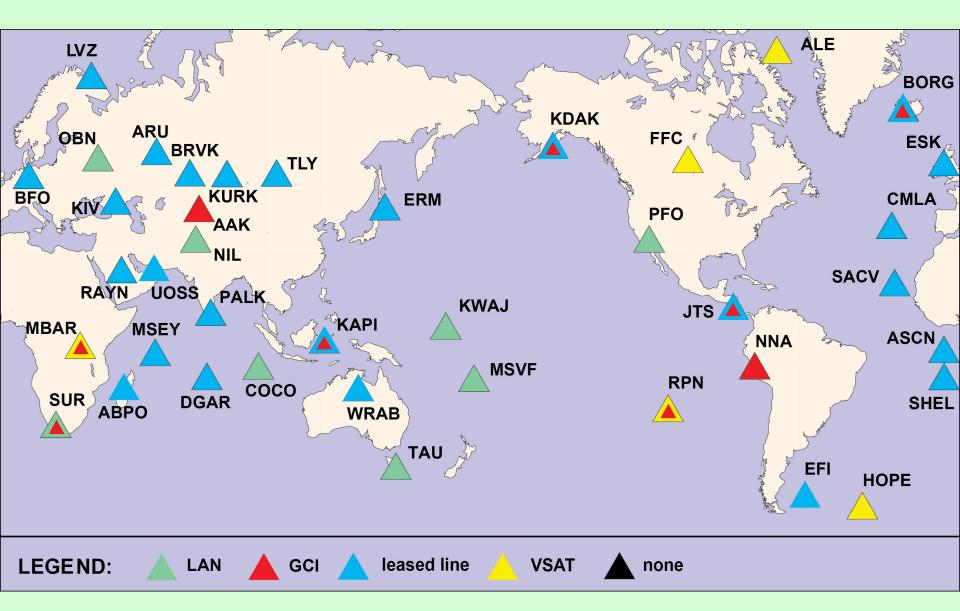


# Telemetry links:

- LAN
- leased lines / VSATs
- Iocal ISP



## IRIS/IDA Telemetry Topology – March 2015







Iceland

