

# Antelope User Group Meeting EarthScope USArray

Ljubljana, Slovenia  
10-11 November 2005

Frank Vernon  
UCSD



# EarthScope's Goal

**To understand the structure and evolution of the North American Continent – structure, deformation, and properties that control earthquakes and volcanic eruptions.**

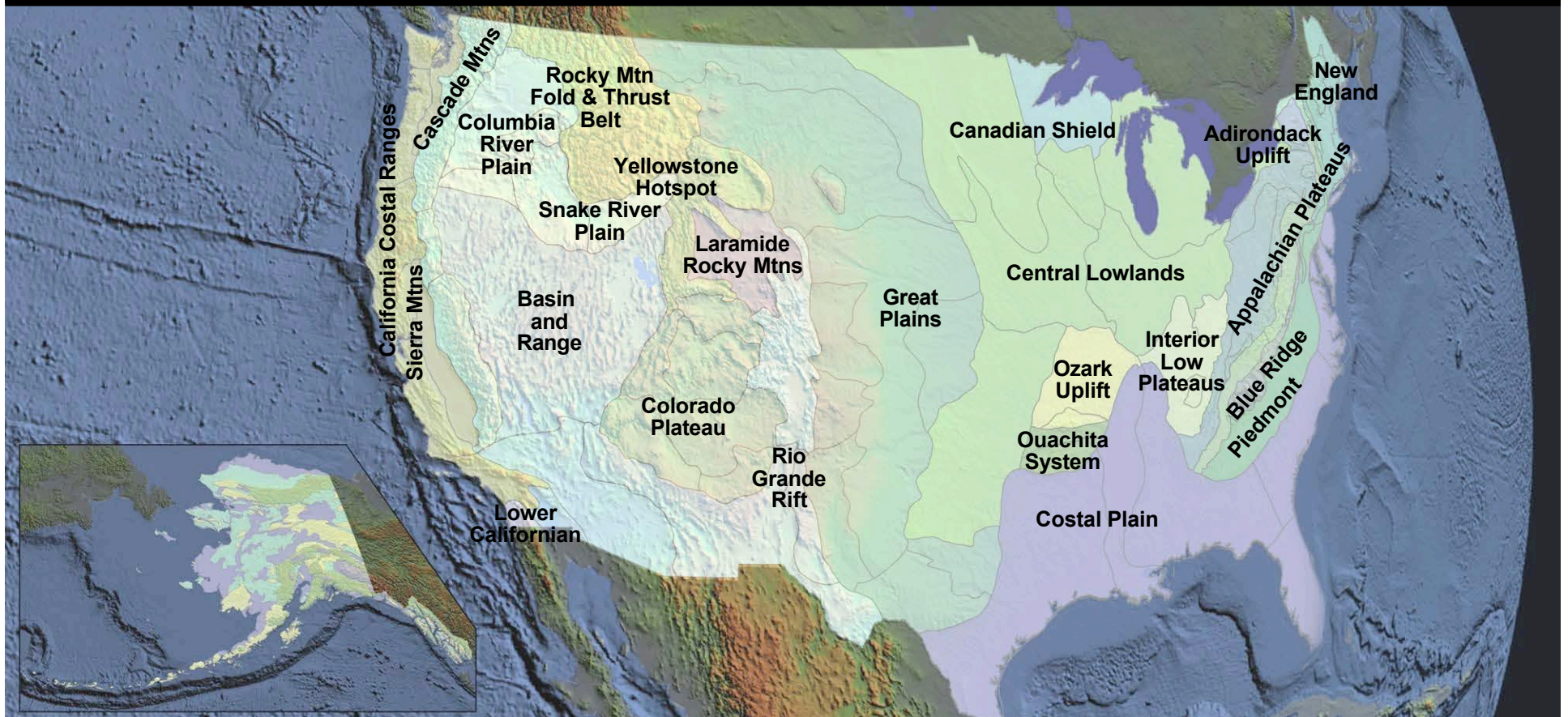


# Our Laboratory

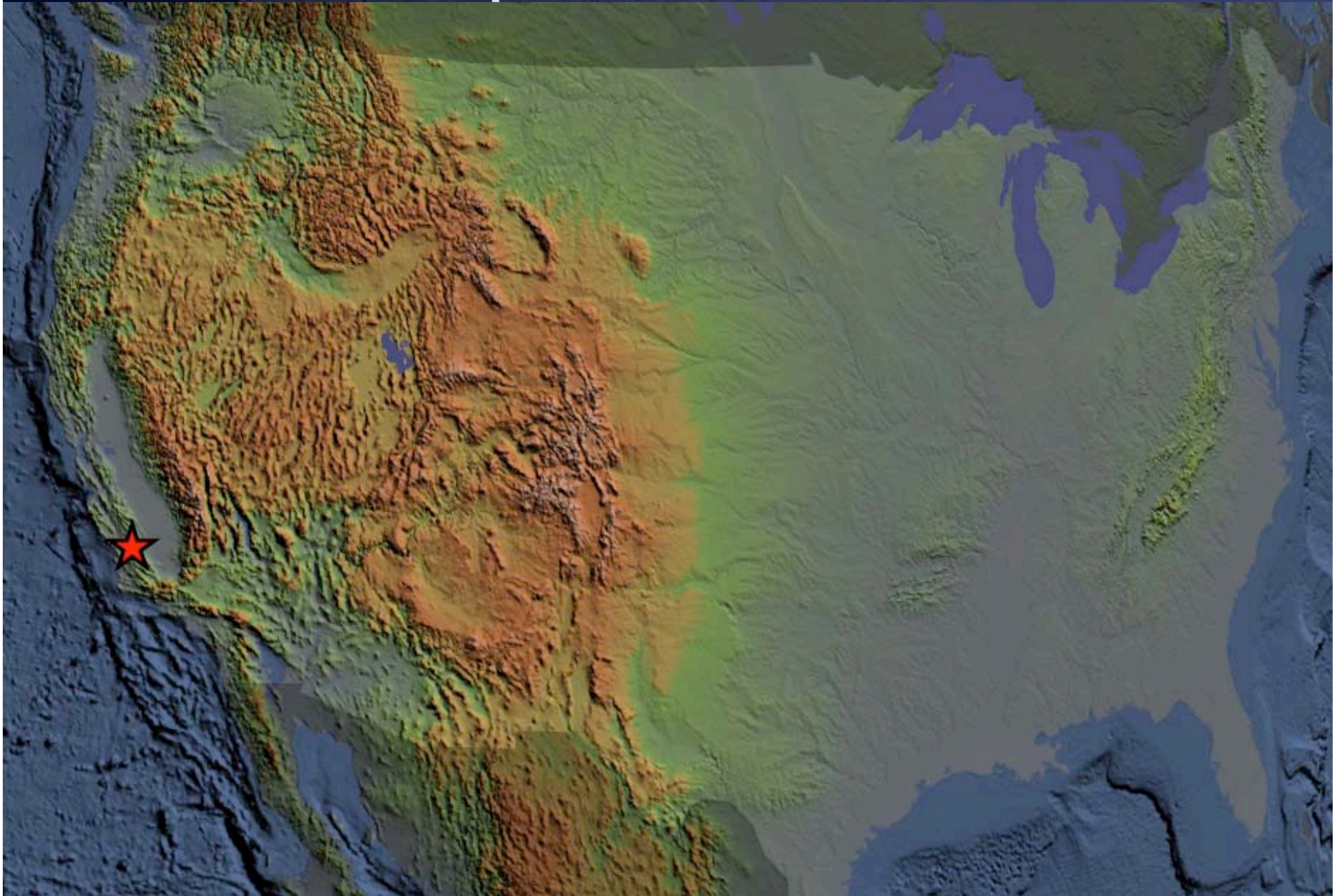
## Natural Geologic Laboratory

- Plate Boundary Processes
- Diversity of tectonic elements
- 3.5 billion year record of plate evolution

*Allows us to study the transition from plate-tectonic interactions to small-scale system level processes such as individual faults and volcanoes.*



# EarthScope SAFOD Drill Site

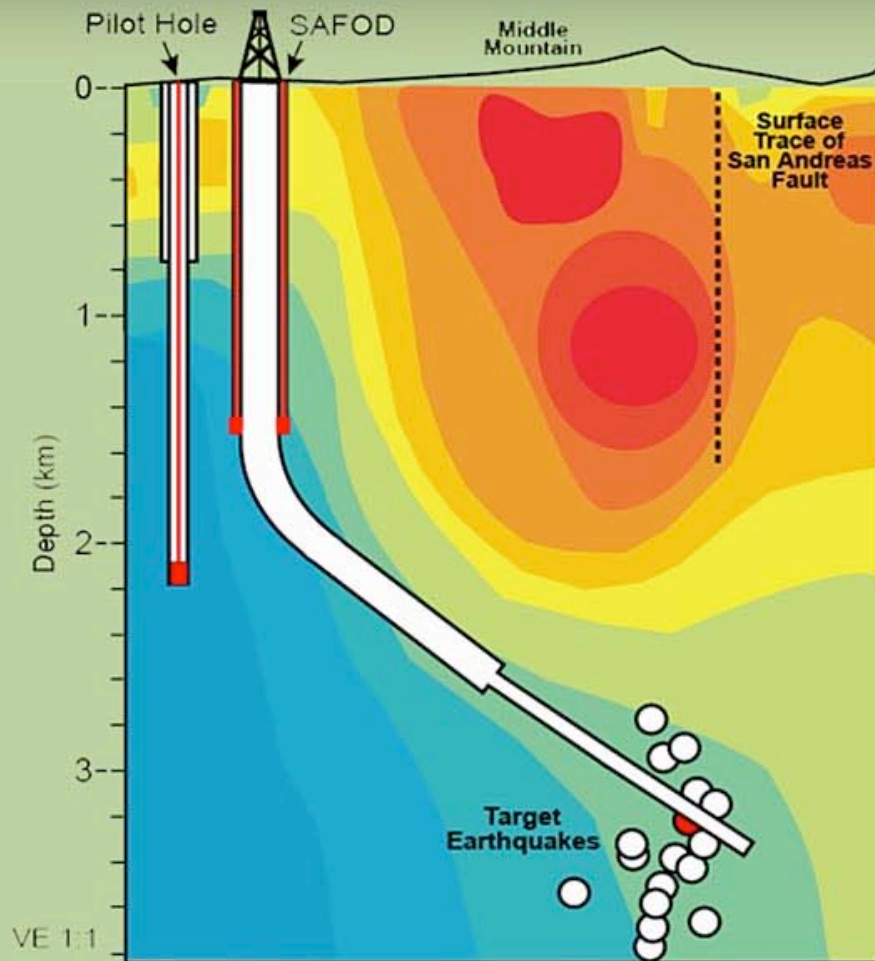




**San Andreas fault**

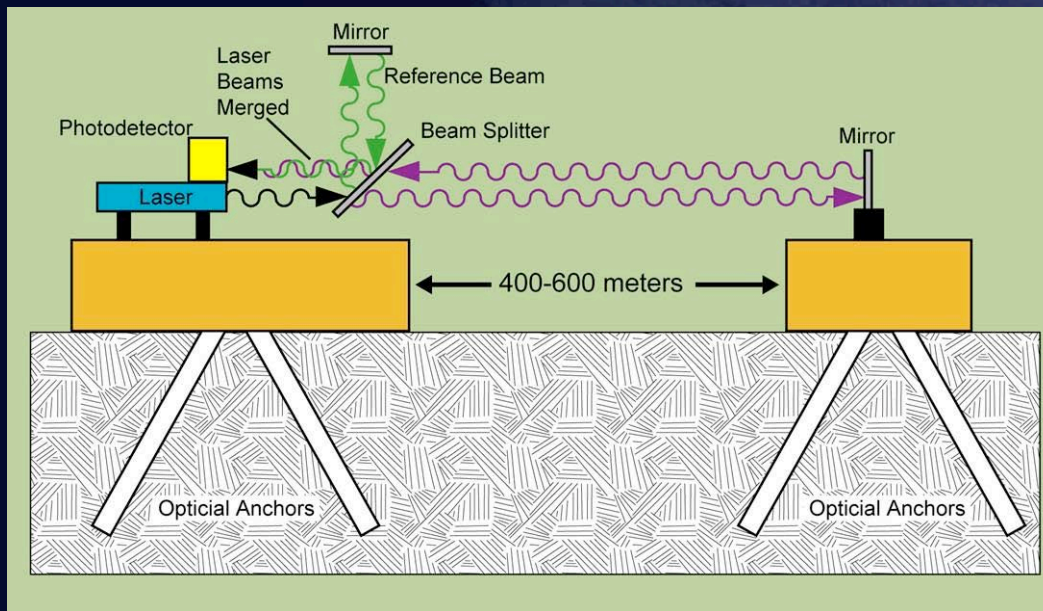
**SAFOD  
drill site**

# Phase 2- Drilling Through Fault Zone

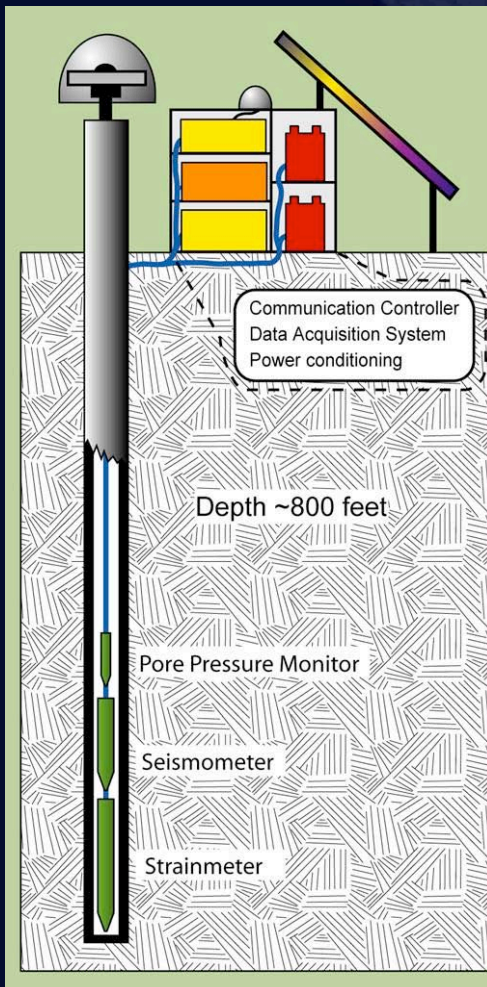


- Drill with full logging-while-drilling suite of measurements
- Down-hole measurements of seismic velocity.
- One 10 m spot core at bottom of casing.
- Up to 74 side-wall cores in open hole.
- Conduct permeability test, fluid sampling, and hydrofracs

# Long-baseline Laser Strainmeters

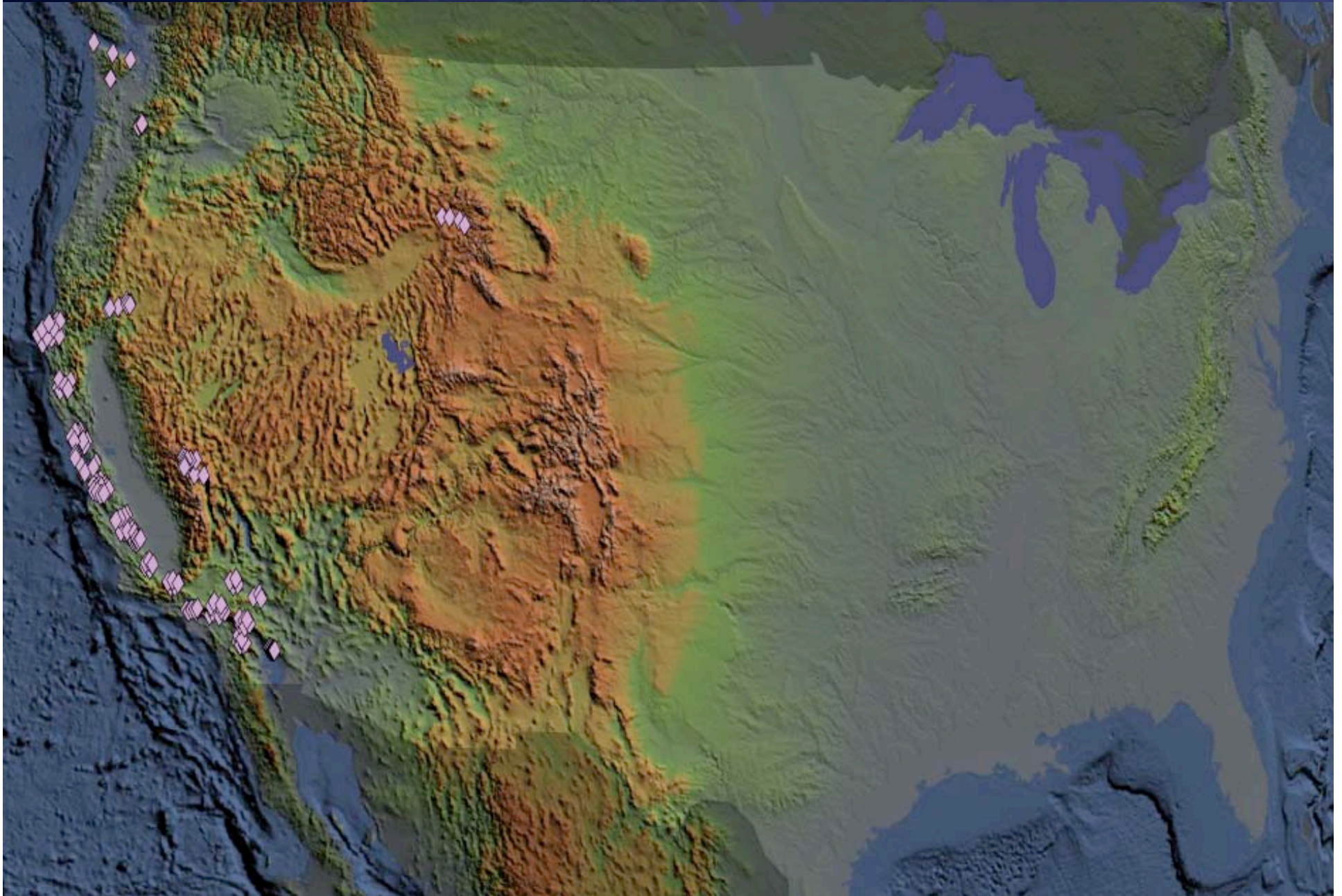


# Borehole Strainmeters & Seismometers

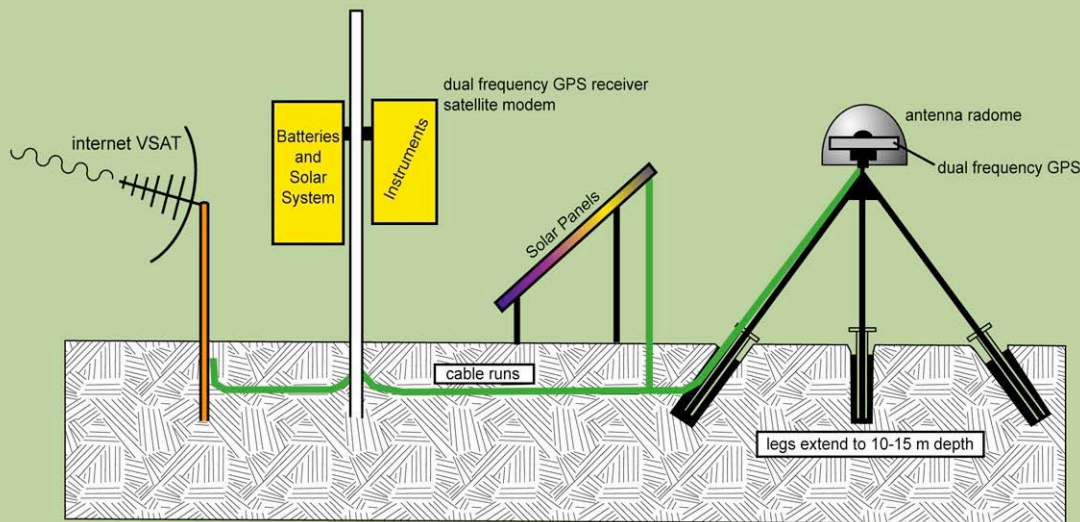




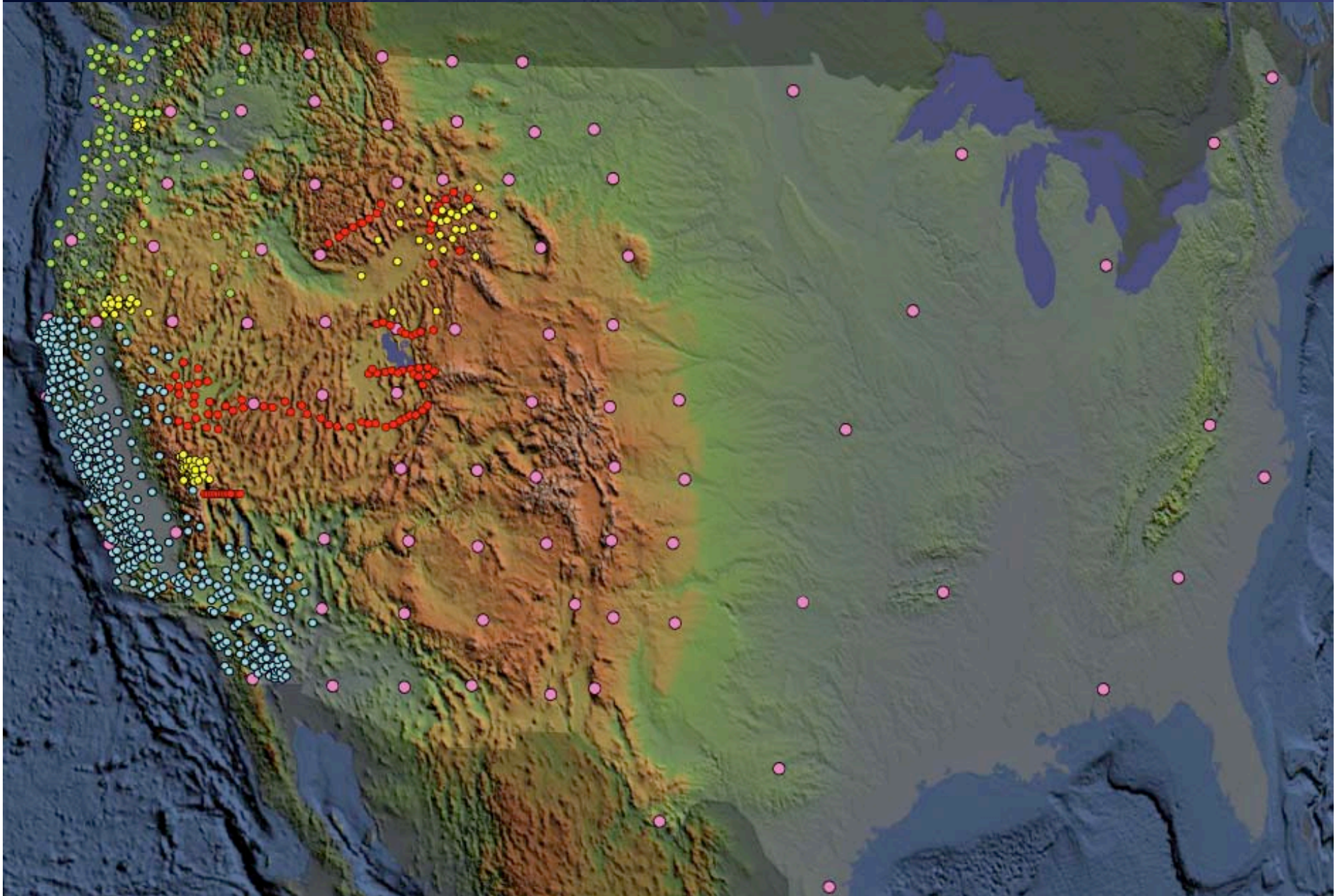
# Borehole Strainmeters & Seismometers



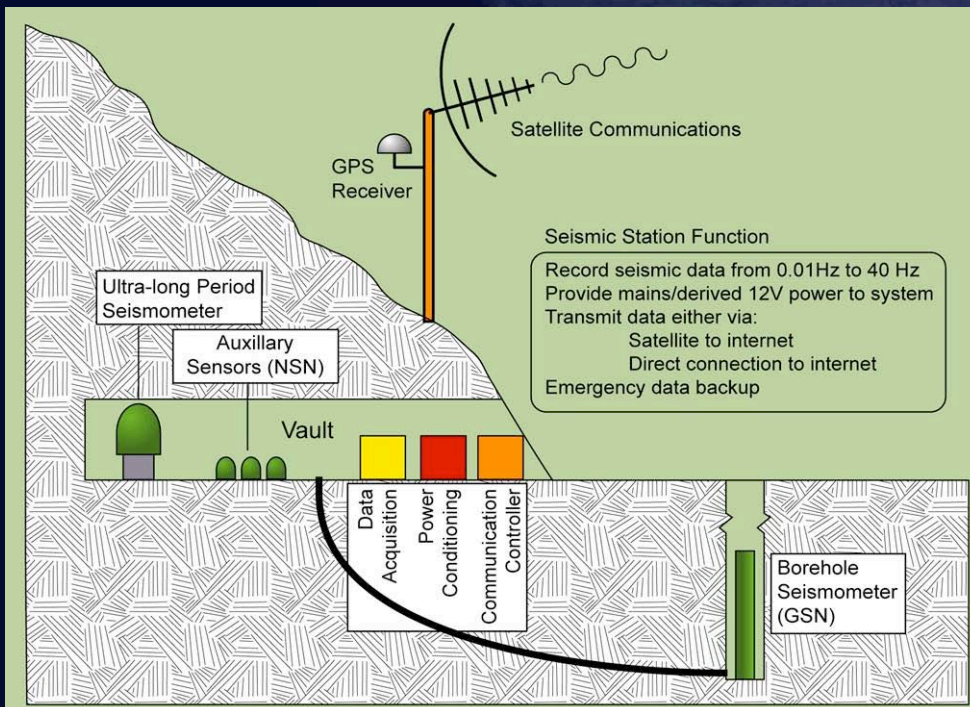
# Permanent GPS Stations



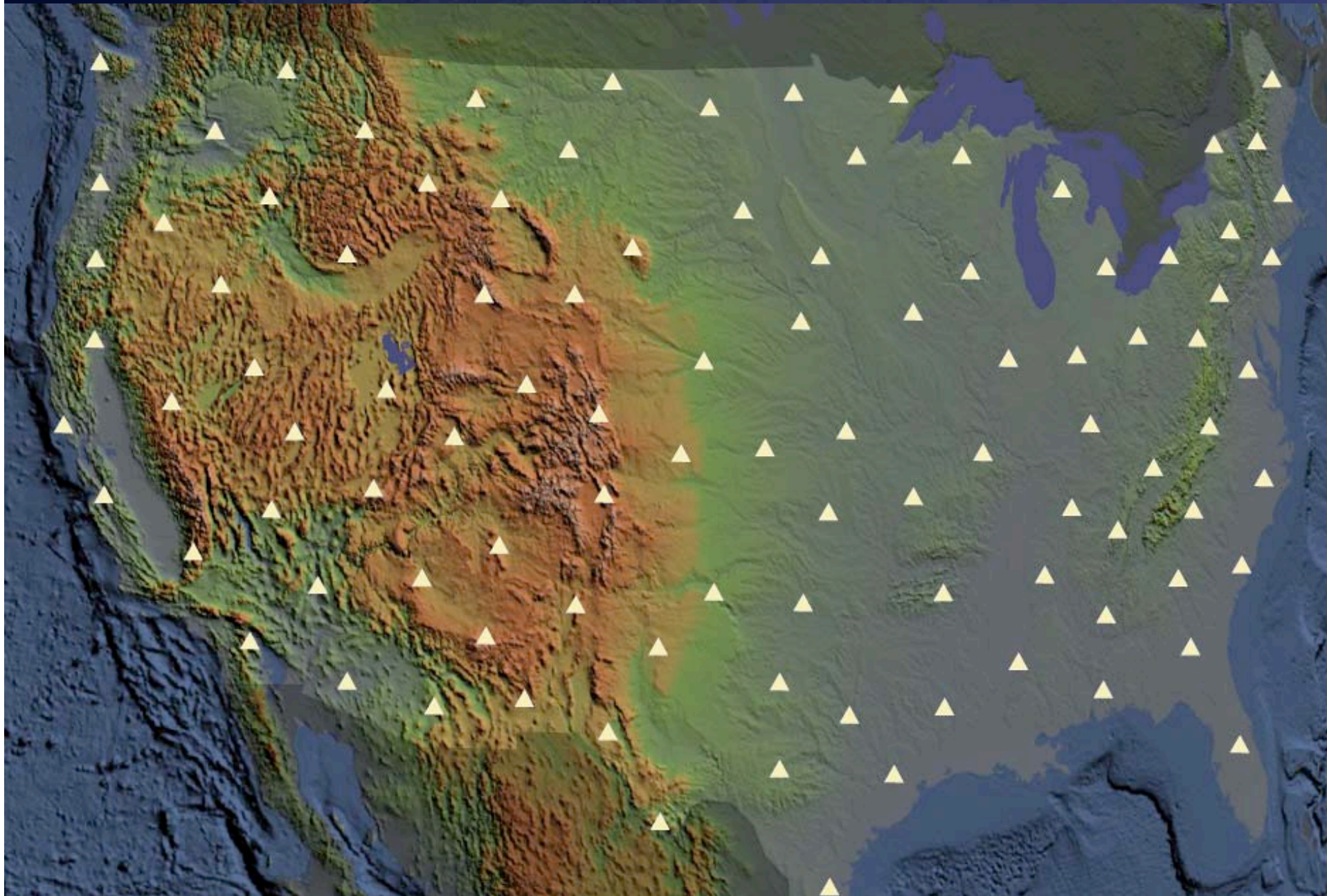
# GPS - Backbone



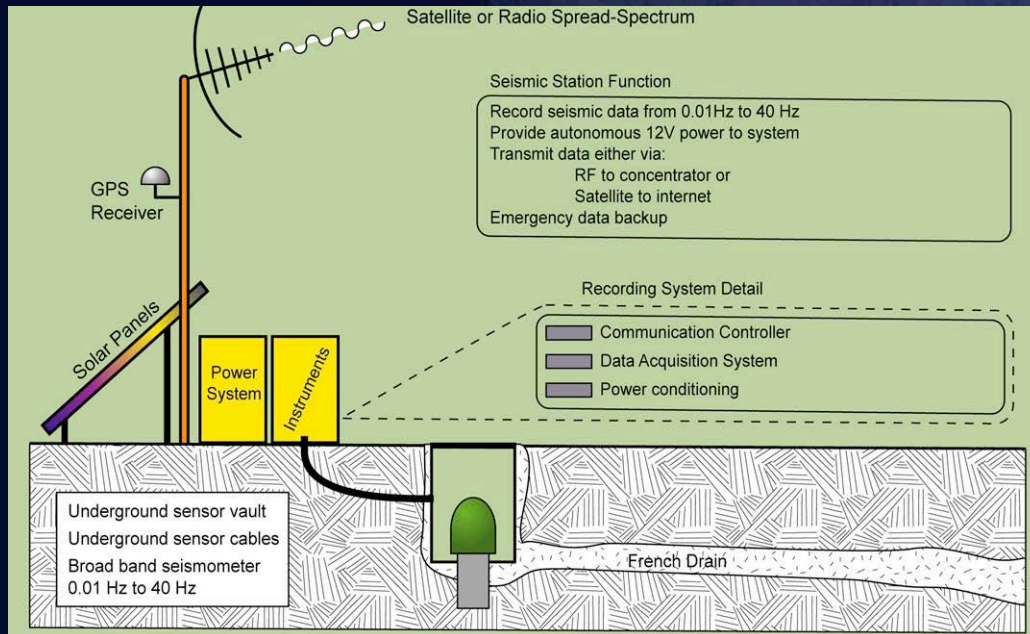
# ANSS Backbone Stations



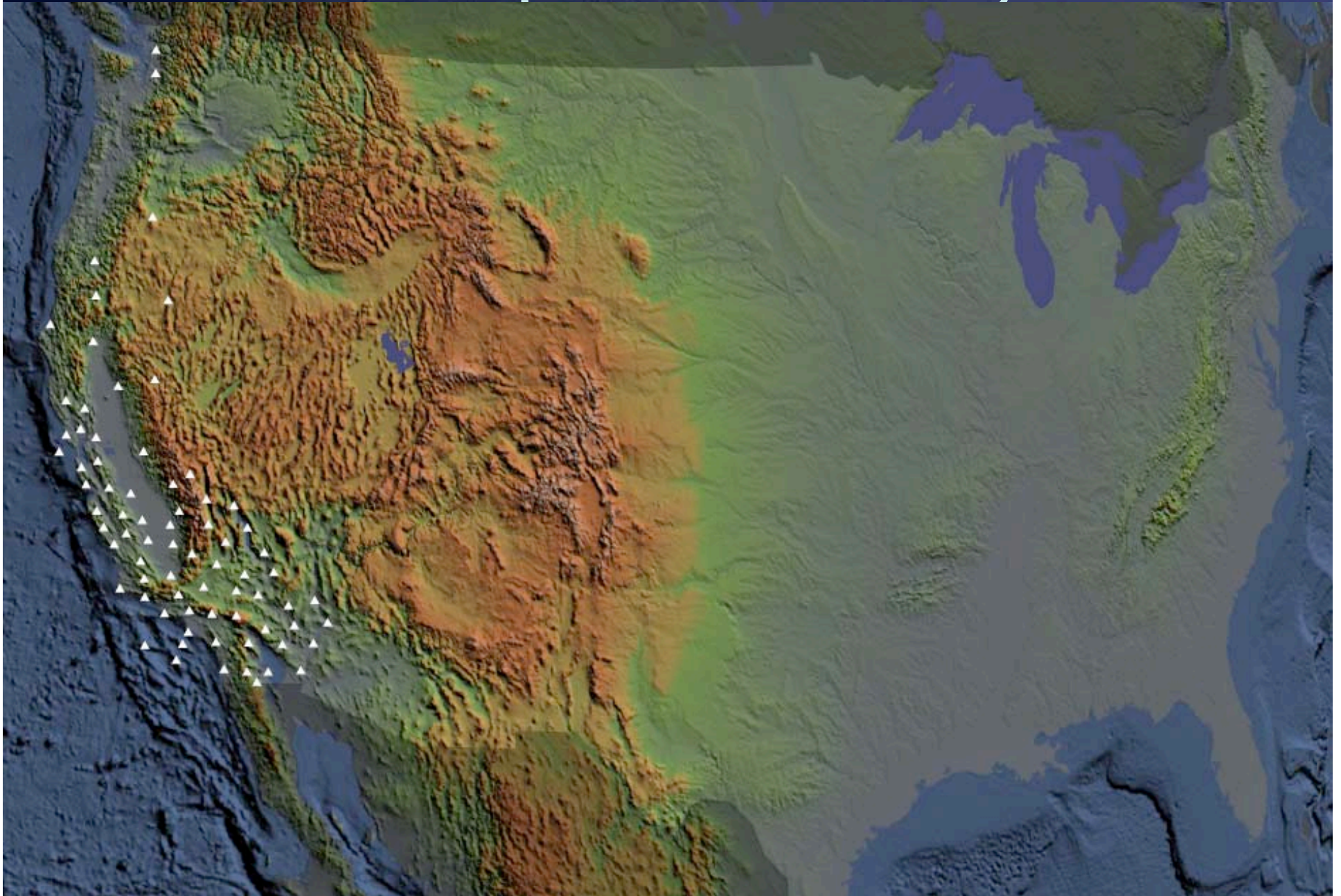
# ANSS Backbone Stations



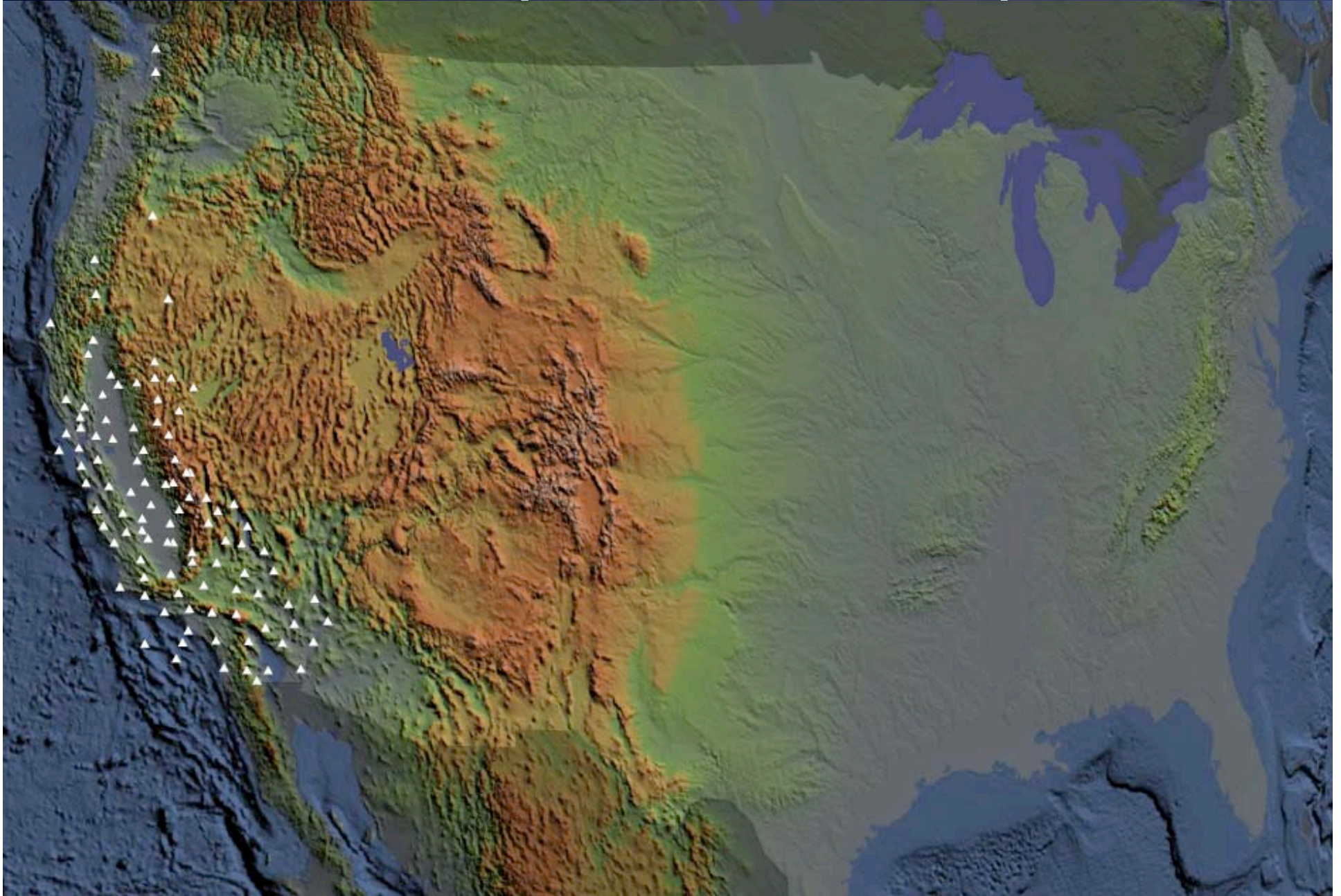
# Transportable Seismic Stations



# Transportable Array

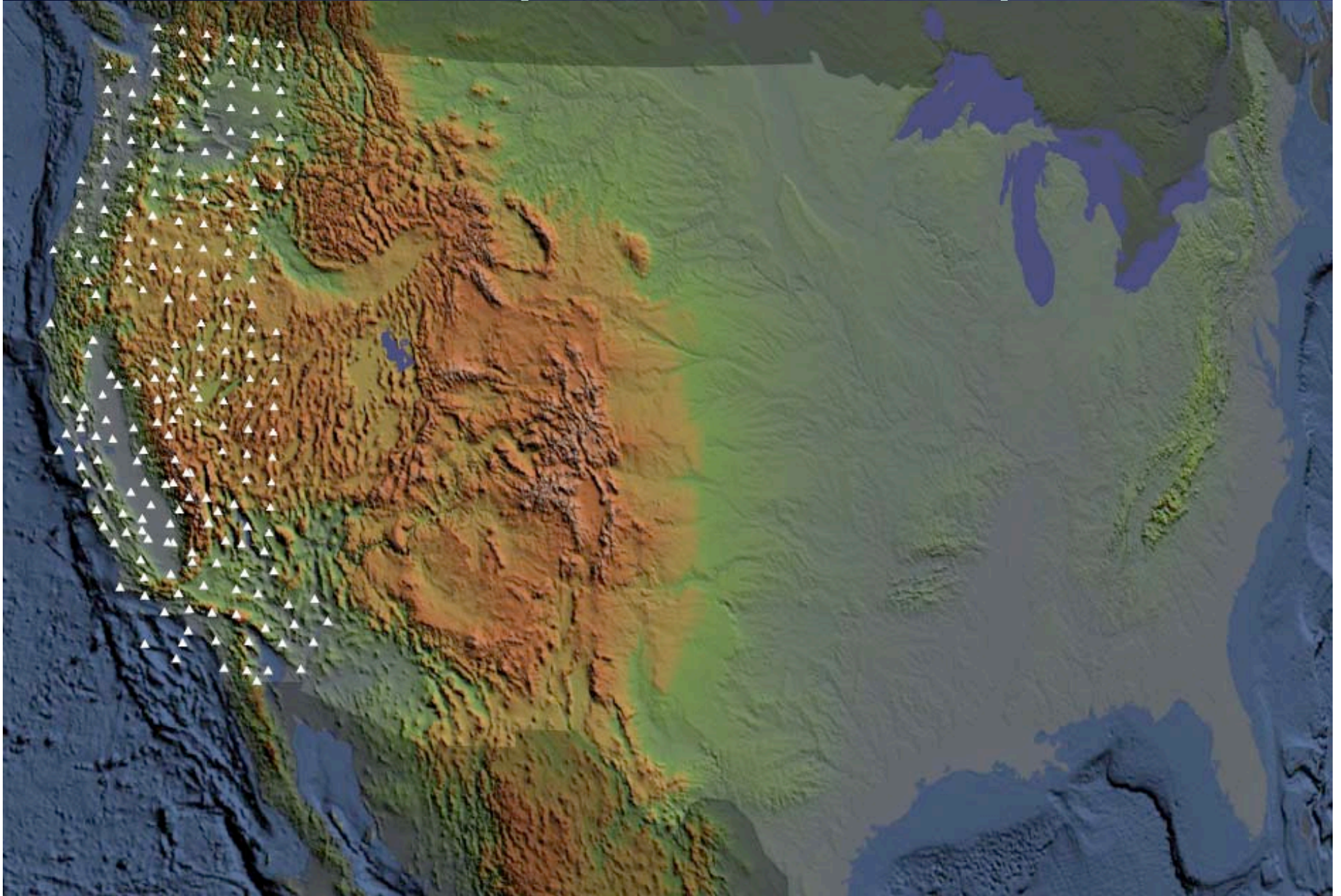


# Transportable Array

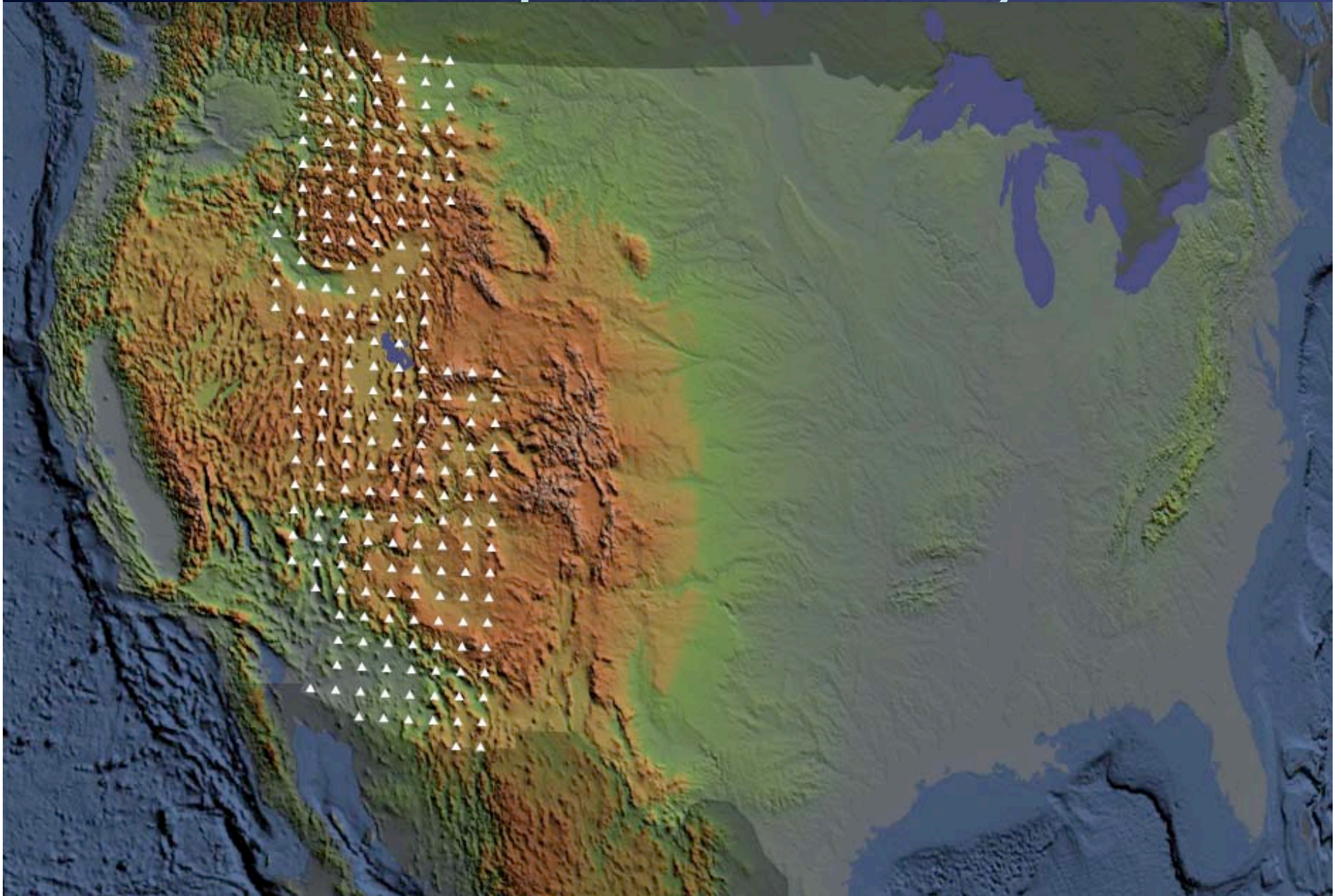




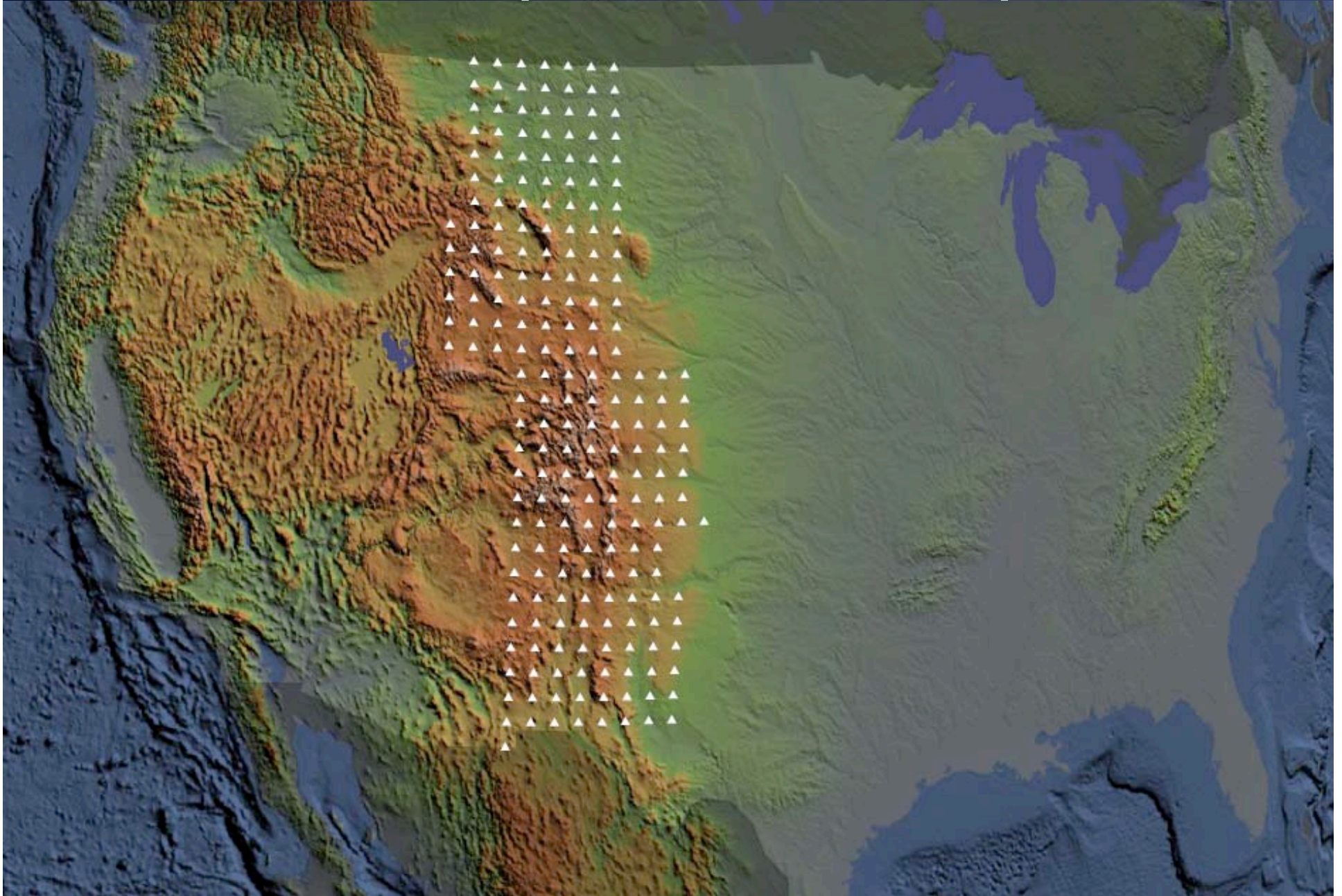
# Transportable Array



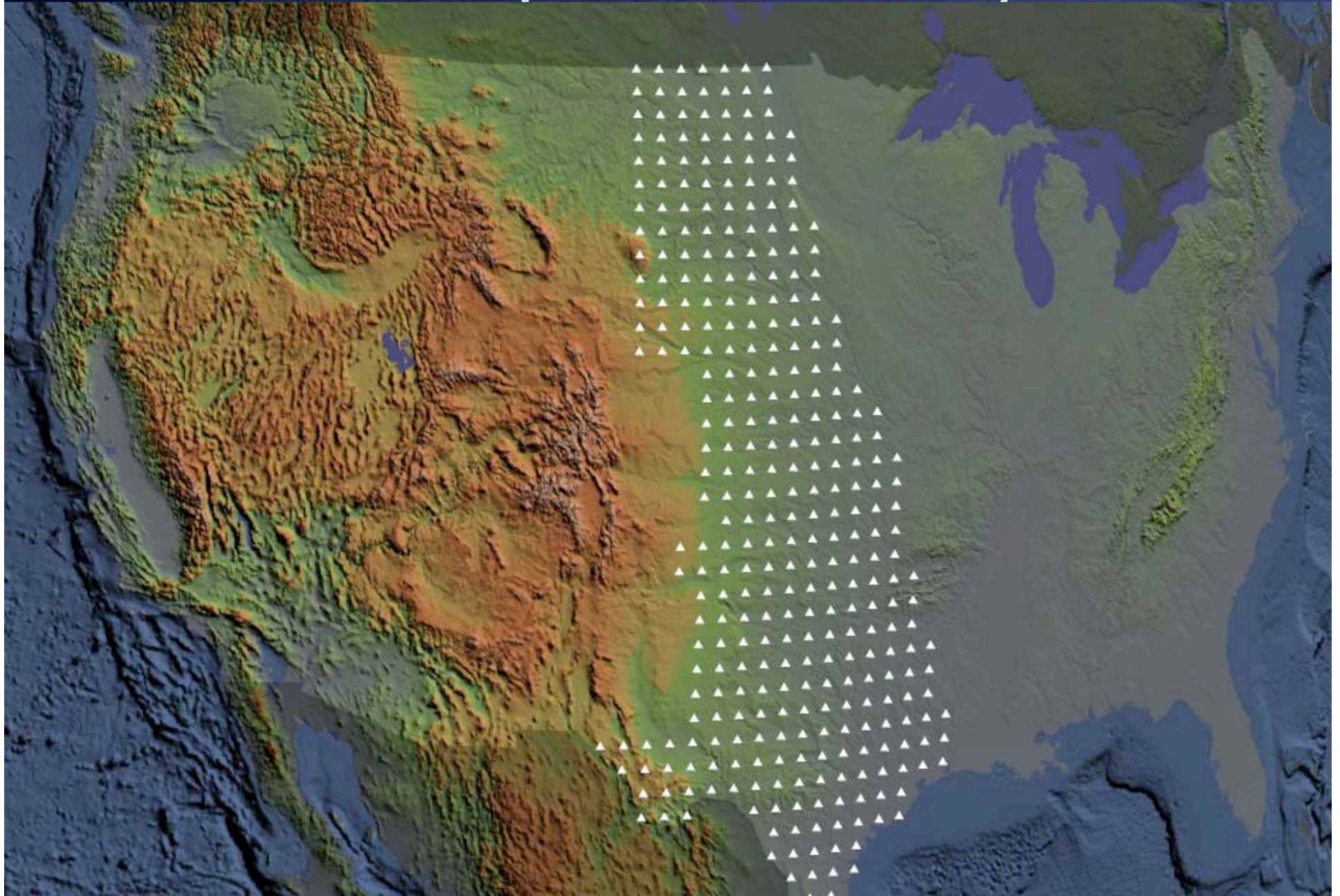
# Transportable Array



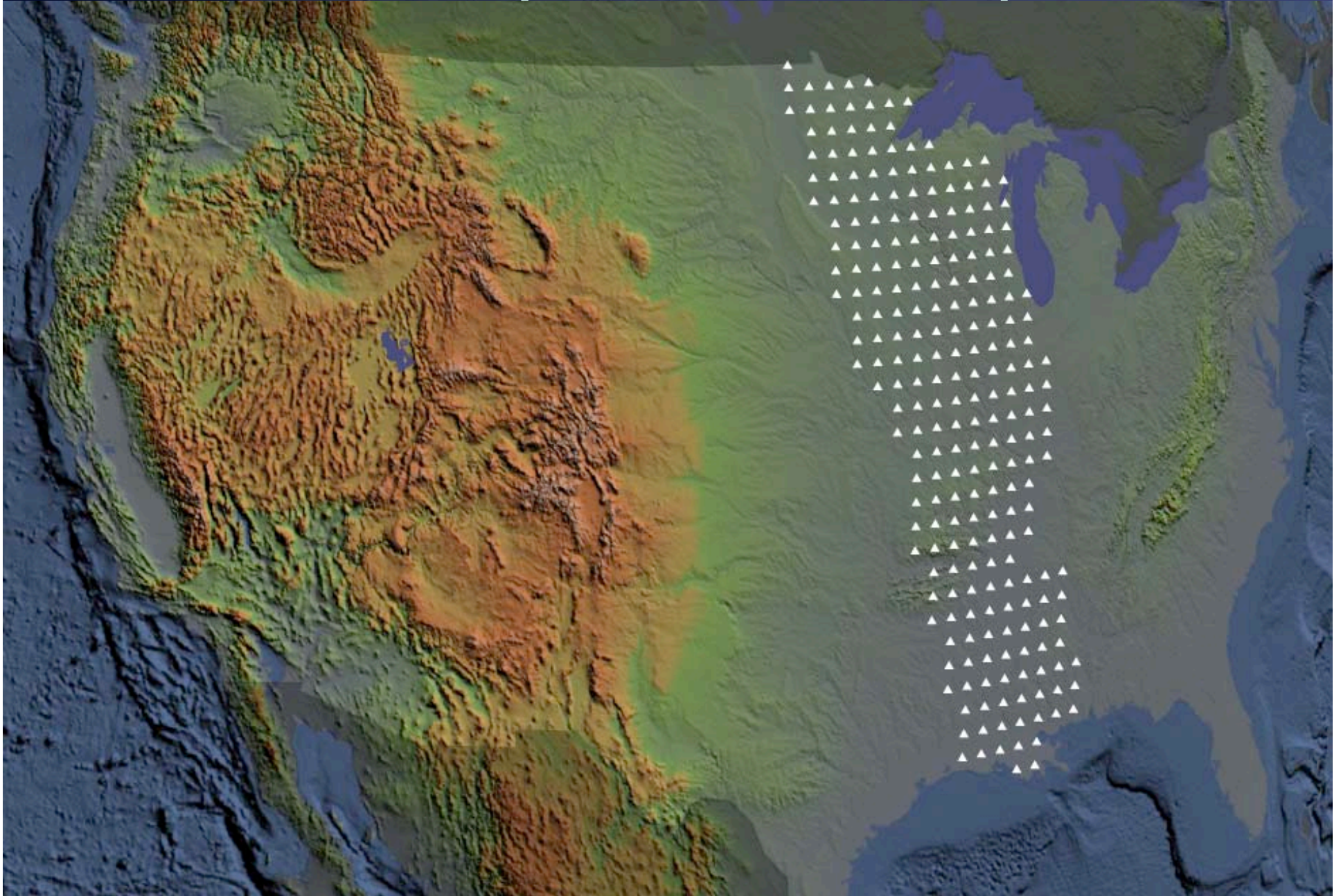
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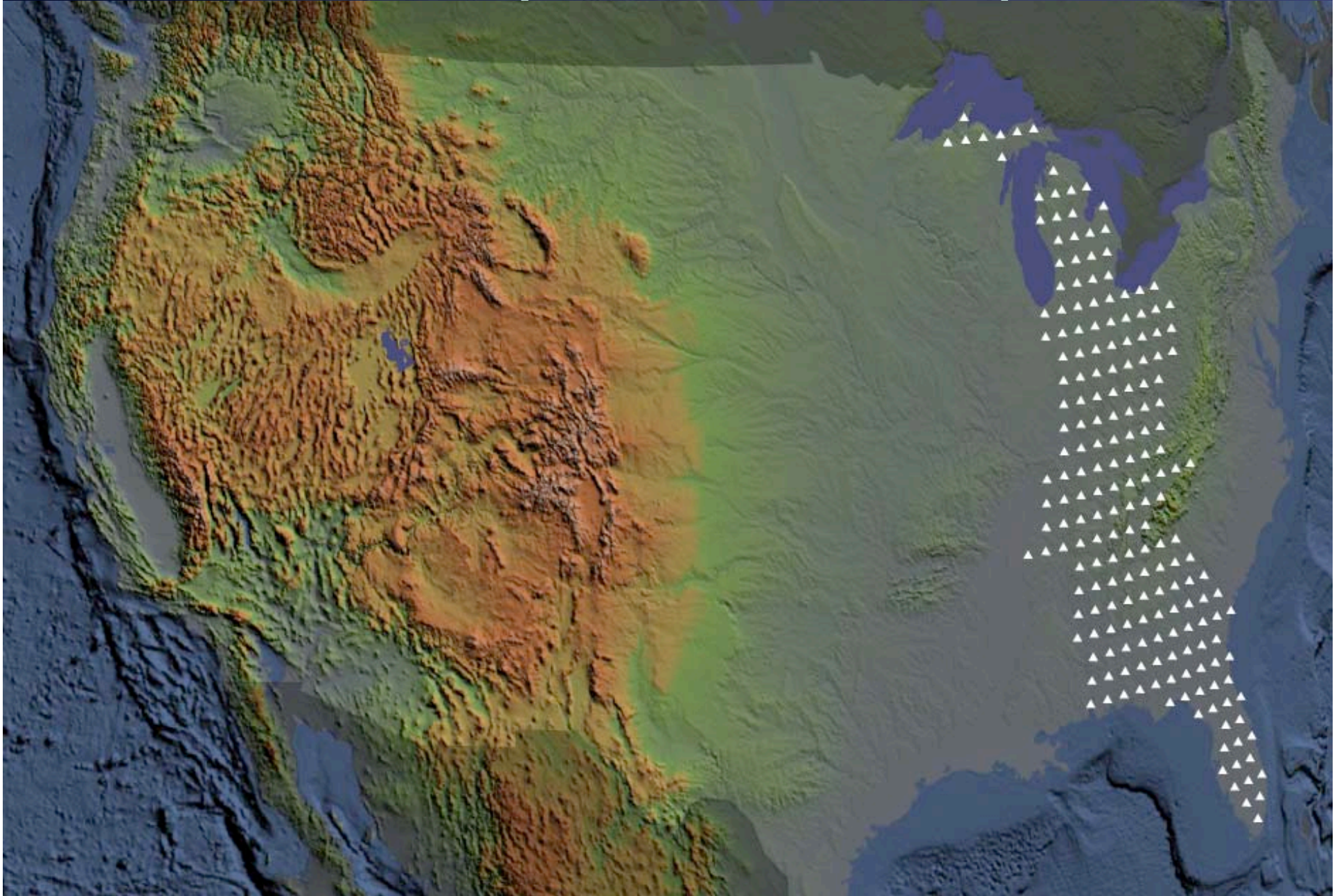
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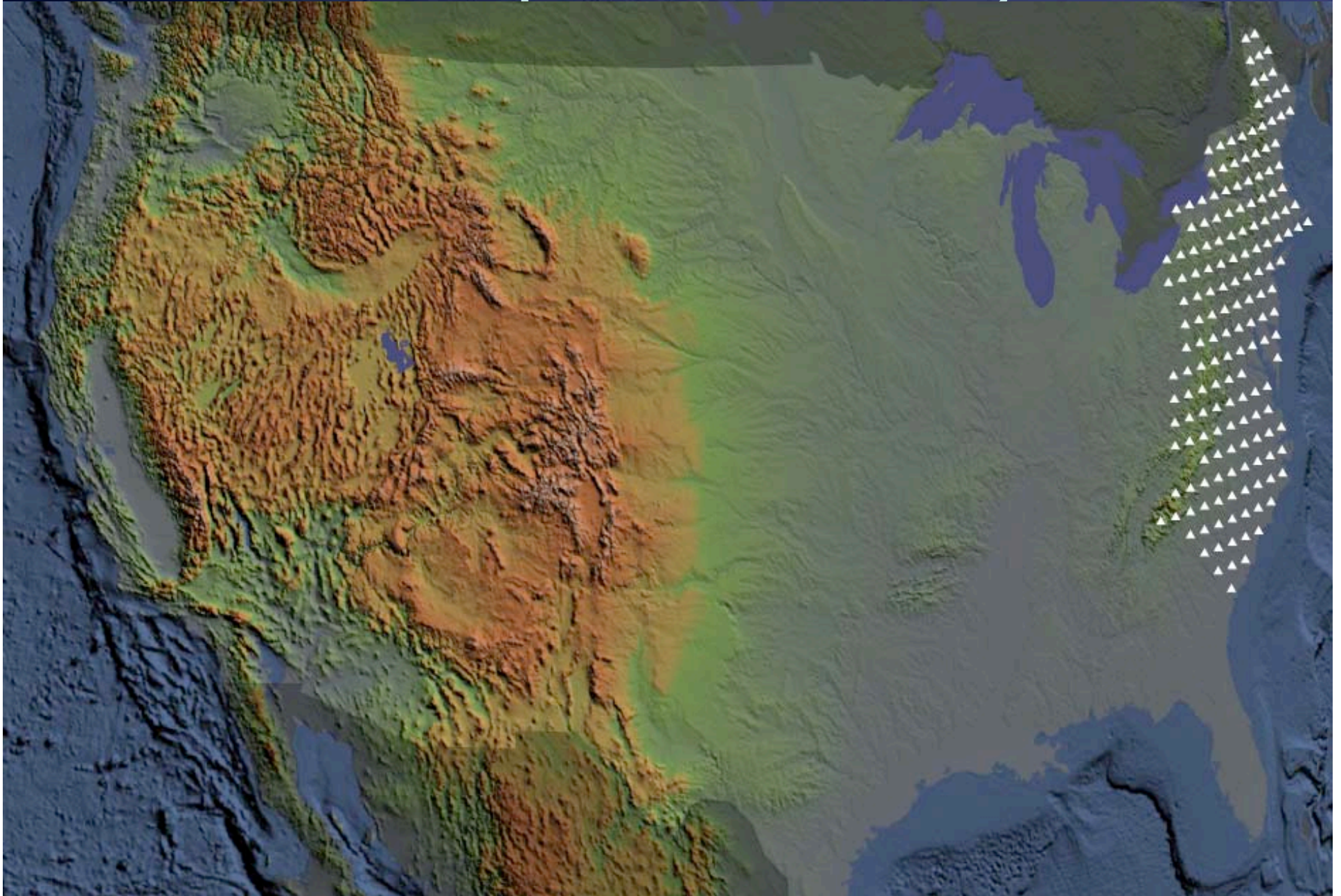
# Transportable Array



# Transportable Array

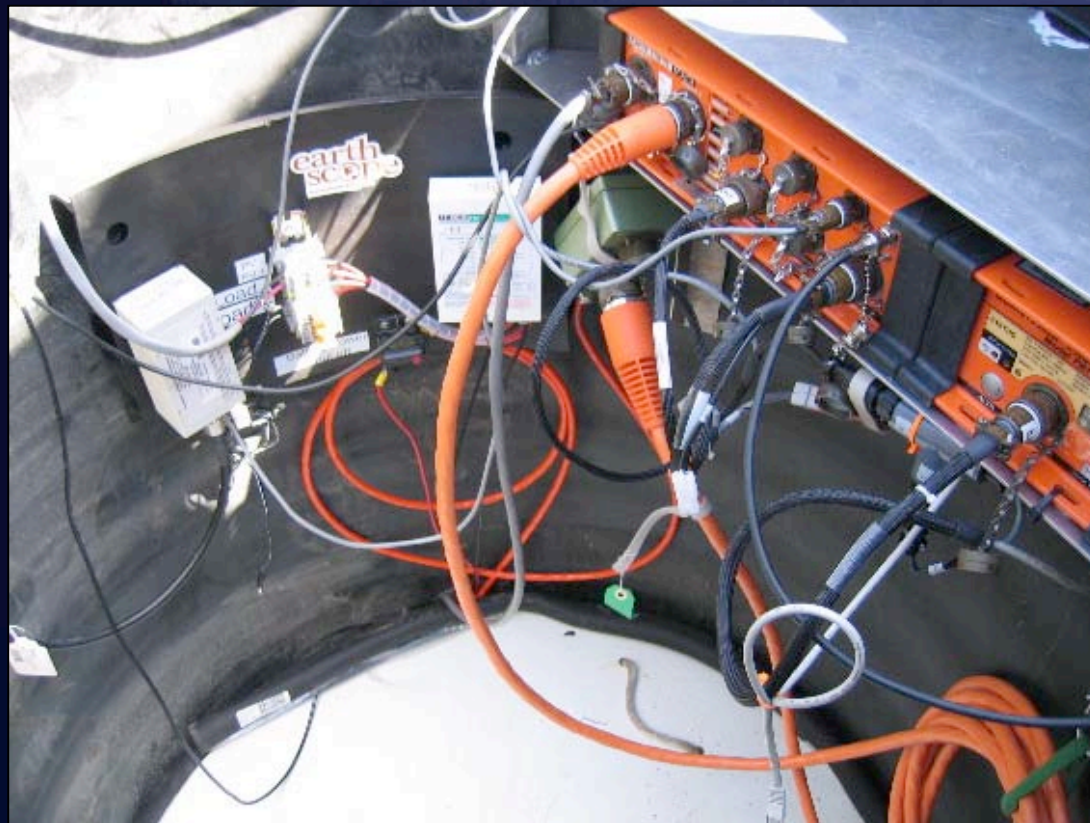


# Transportable Array



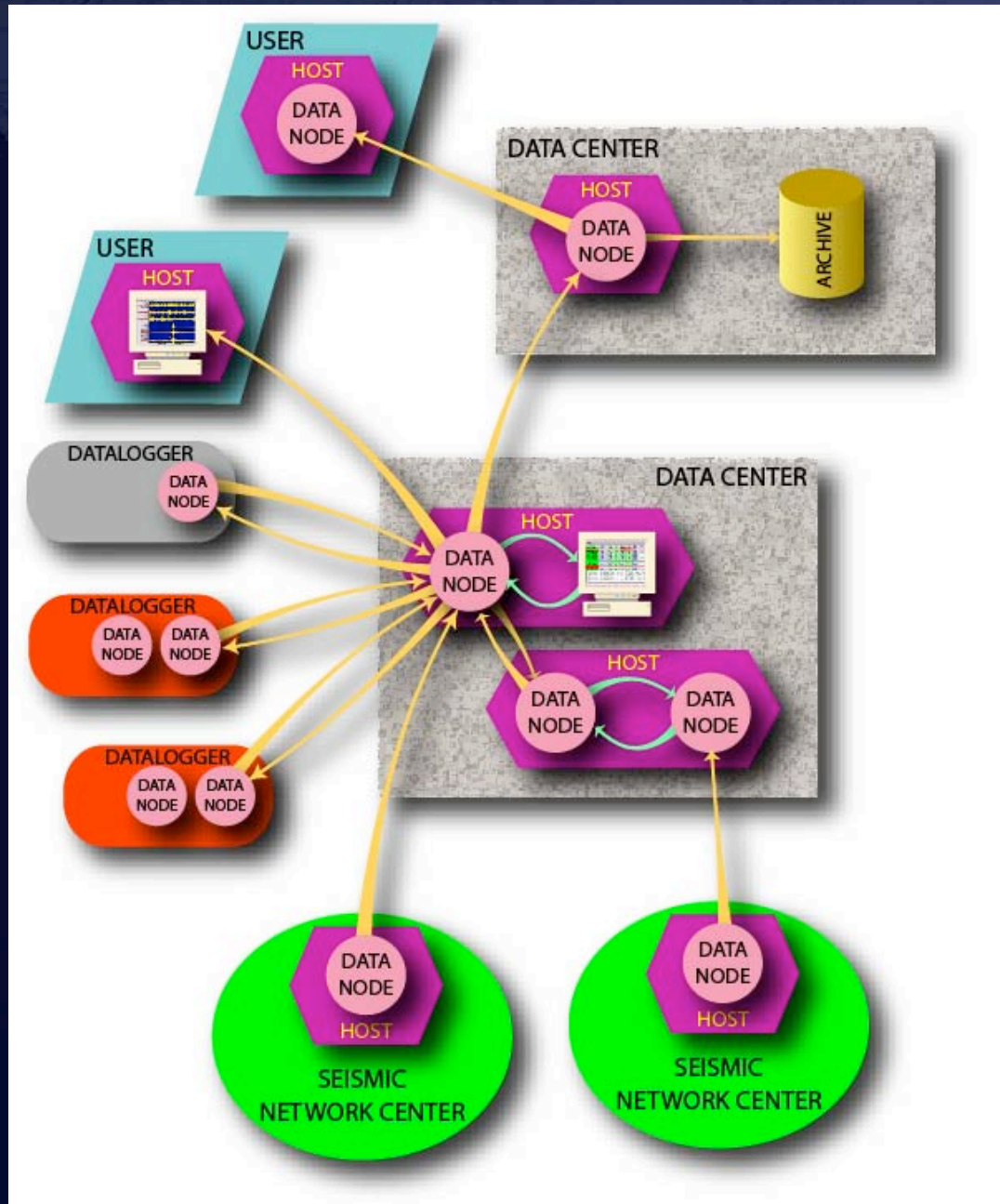
# Plus...

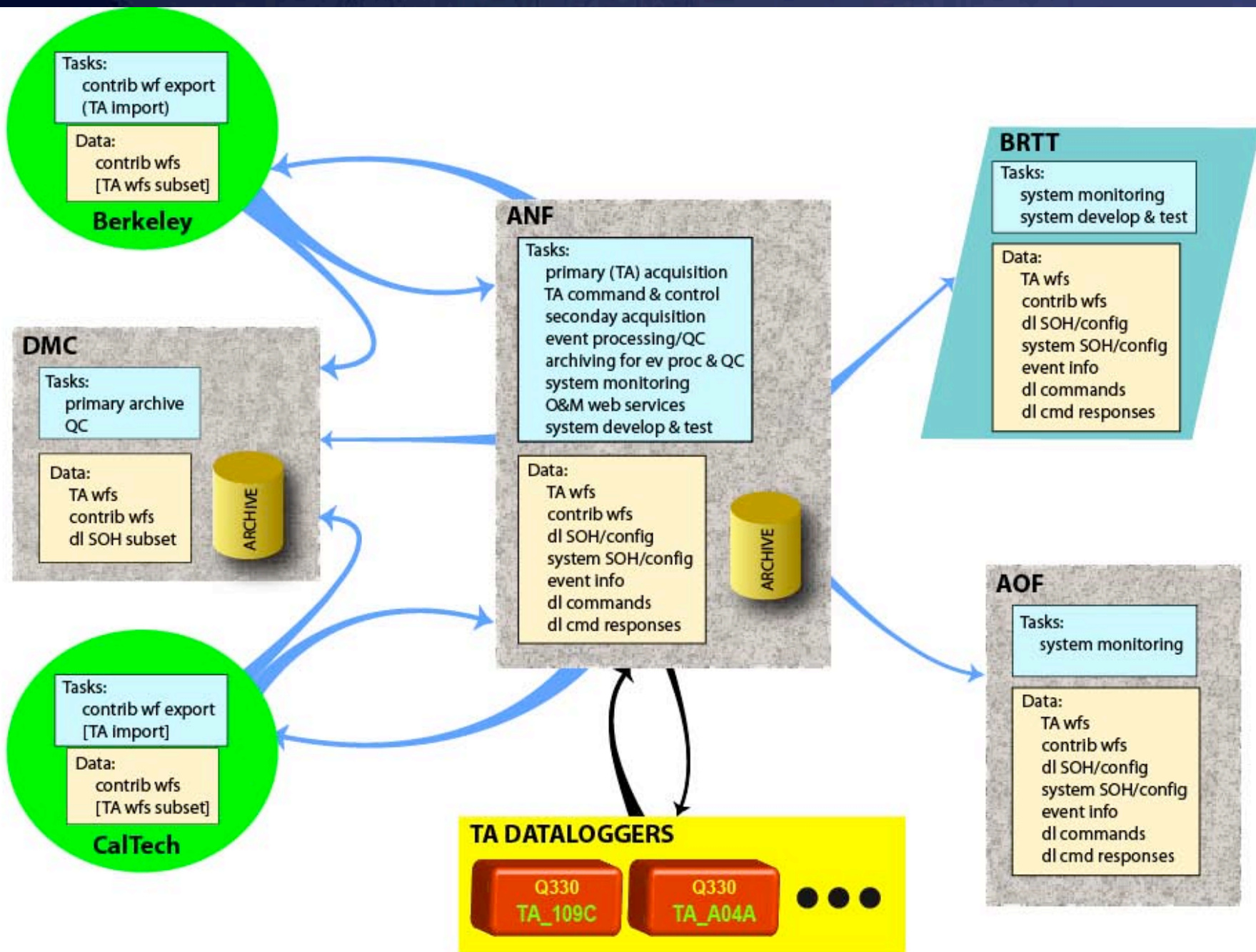
**A pool of 100 GPS receivers and 2400 seismic stations will also be available for PI-funded experiments.**



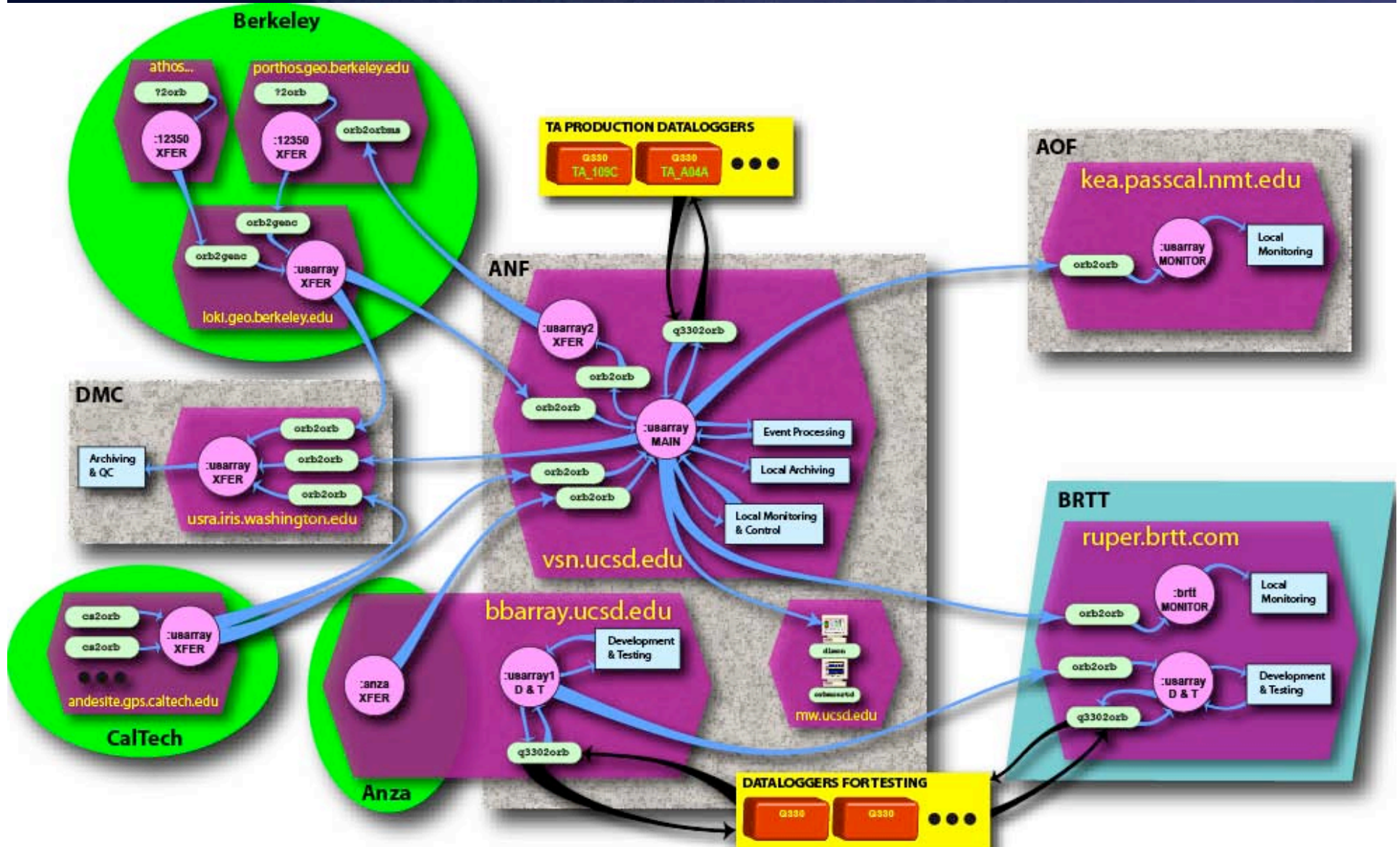


# Antelope Real-Time System: store-and-forward model





# USArray Real Time System



# USArray comm table

- Wireless
  - FreeWave
  - WiLan
- CDMA POC
- VSAT
  - Hughes
  - SpaceNet
  - Wild Blue
- Internet



usarray comm

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0	sta	time	commtyp	provider
	M04C	8/12/2005 (224) 0:00:00.00000	DSL	Cal_ore tel
	M02C	8/12/2005 (224) 0:00:00.00000	DSL	Siskiyou tel
	R05C	8/05/2005 (217) 0:00:00.00000	DSL	Volcano Telco
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	BNLO	4/20/2005 (110) 0:00:00.00000	cdma poc	verizon
	C03A	10/20/2005 (293) 22:58:00.00000	cdma poc	verizon
	C04A	10/22/2005 (295) 22:00:00.00000	cdma poc	verizon
	D04A	10/24/2005 (297) 19:40:00.00000	cdma poc	verizon
	F04A	10/25/2005 (298) 20:27:00.00000	cdma poc	verizon
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	M05C	6/29/2005 (180) 0:00:00.00000	cdma poc	verizon
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	003C	4/19/2005 (109) 0:00:00.00000	cdma poc	verizon
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	005C	4/20/2005 (110) 0:00:00.00000	cdma poc	verizon
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	P05C	6/07/2005 (158) 0:00:00.00000	cdma poc	verizon
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	R07C	8/03/2005 (215) 0:00:00.00000	cdma poc	verizon
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	T05C	2/14/2005 (045) 0:00:00.00000	cdma poc	verizon
	T06C	12/07/2004 (342) 0:00:00.00000	cdma poc	verizon
	V03C	2/23/2005 (054) 0:00:00.00000	cdma poc	verizon
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	D03A	9/16/2004 (260) 2:45:00.00000	regular internet	
	HATC	5/18/2005 (138) 0:00:00.00000	regular internet	
	S08C	8/02/2005 (214) 0:00:00.00000	regular internet	
	U05C	1/05/2005 (005) 0:00:00.00000	regular internet	
	Y12C	11/17/2004 (322) 19:10:00.00000	regular internet	
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	I05A	3/16/2005 (075) 0:00:00.00000	vsat	Hughes
	M03C	8/10/2005 (222) 0:00:00.00000	vsat	Hughes
	R06C	8/04/2005 (216) 0:00:00.00000	vsat	Hughes
	T09C	5/04/2004 (125) 23:00:00.00000	vsat	spacenet
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	U04C	7/13/2005 (194) 0:00:00.00000	vsat	spacenet
	Y22C	5/07/2004 (128) 0:00:00.00000	vsat	spacenet
	E04A	10/27/2005 (300) 22:55:00.00000	vsat	Wild Blue
	E05A	10/29/2005 (302) 7:45:00.00000	vsat	Wild Blue
	S06C	10/10/2005 (283) 9:40:00.00000	vsat	

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# USArray Deployment

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usarray deployment

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# USArray Deployment

**Time of first/last data at DMC**  
(should be same as comm table prior to resend of old data)

**Time data is transferred from prelim to production orb**  
(about the time that new dataless is made on vsn and email is sent)

usarray deployment

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95	net	snet	sta	time	endtime	equip_install	equip_remove	cert_time	decert_time	pdcc	sdcc	lddate
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	_US-TA	TA	M06C	6/28/2005 (179) 20:57:00.00000	12/31/2599 (365) 23:59:59.00000	6/28/2005 (179) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	6/30/2005 (181) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/01/2005 (213) 19:49:24.07398
	_US-TA	TA	N05C	6/29/2005 (180) 20:50:00.00000	12/31/2599 (365) 23:59:59.00000	6/29/2005 (180) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	6/30/2005 (181) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/01/2005 (213) 19:49:24.07928
	_US-TA	TA	N04C	6/13/2005 (225) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	6/20/2005 (171) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/16/2005 (228) 17:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/16/2005 (228) 21:27:18.63895
	_US-TA	TA	N02C	6/13/2005 (225) 21:29:00.00000	12/31/2599 (365) 23:59:59.00000	6/30/2005 (181) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/16/2005 (228) 17:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/16/2005 (228) 21:28:53.86812
	_US-TA	TA	N02C	7/31/2005 (212) 23:14:00.00000	12/31/2599 (365) 23:59:59.00000	6/29/2005 (180) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/16/2005 (228) 17:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		11/01/2005 (305) 19:54:40.26573
	_US-TA	TA	U04C	12/05/2004 (340) 8:53:00.00000	12/31/2599 (365) 23:59:59.00000	12/04/2004 (339) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	6/13/2005 (164) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/02/2005 (214) 18:25:33.01411
	_US-TA	TA	SUTB	5/17/2005 (137) 21:23:00.00000	12/31/2599 (365) 23:59:59.00000	5/16/2005 (136) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	7/12/2005 (193) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		9/22/2005 (265) 17:41:32.11891
	_US-TA	TA	S08C	8/02/2005 (214) 22:52:36.00000	12/31/2599 (365) 23:59:59.00000	8/02/2005 (214) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/05/2005 (217) 23:48:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/05/2005 (217) 23:38:13.02900
	_US-TA	TA	R05C	8/11/2005 (223) 4:15:00.00000	12/31/2599 (365) 23:59:59.00000	8/05/2005 (217) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/16/2005 (228) 17:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/16/2005 (228) 21:29:21.40315
	_US-TA	TA	R06C	8/06/2005 (210) 10:13:00.00000	12/31/2599 (365) 23:59:59.00000	8/04/2005 (216) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/16/2005 (228) 17:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		11/01/2005 (305) 19:55:01.77383
	_US-TA	TA	R07C	8/03/2005 (215) 23:20:00.00000	12/31/2599 (365) 23:59:59.00000	8/03/2005 (215) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/06/2005 (218) 7:15:00.00000	12/31/2599 (365) 0:00:00.00000	IRIS DMC		8/06/2005 (218) 7:13:18.91859
	_US-TA	TA	M03C	7/31/2005 (212) 22:35:00.00000	12/31/2599 (365) 23:59:59.00000	7/12/2005 (193) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/16/2005 (228) 17:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		11/01/2005 (305) 19:55:25.83652
	_US-TA	TA	002C		12/31/2599 (365) 23:59:59.00000	7/20/2005 (201) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000		12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/16/2005 (228) 21:25:36.61869
	_US-TA	TA	P01C	8/24/2005 (236) 21:27:00.00000	12/31/2599 (365) 23:59:59.00000	8/24/2005 (236) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/25/2005 (237) 18:30:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/25/2005 (237) 18:31:32.22897
	_US-TA	TA	001C		12/31/2599 (365) 23:59:59.00000	8/24/2005 (236) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000		12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/31/2005 (243) 22:50:08.16463
	_US-TA	TA	S06C	10/10/2005 (283) 9:40:00.00000	12/31/2599 (365) 23:59:59.00000	10/08/2005 (281) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	10/17/2005 (290) 19:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		10/17/2005 (290) 19:21:27.99795
	_US-TA	TA	C03A	10/20/2005 (293) 22:58:00.00000	12/31/2599 (365) 23:59:59.00000	10/20/2005 (293) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	10/25/2005 (298) 18:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		10/25/2005 (298) 18:28:32.83550
	_US-TA	TA	ED4A	10/21/2005 (294) 21:05:00.00000	12/31/2599 (365) 23:59:59.00000	10/21/2005 (294) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	10/25/2005 (298) 18:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		10/25/2005 (298) 18:28:24.66812
	_US-TA	TA	D04A	10/24/2005 (297) 19:48:00.00000	12/31/2599 (365) 23:59:59.00000	10/24/2005 (297) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	10/25/2005 (298) 18:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		10/25/2005 (298) 18:28:40.67611
	_US-TA	TA	F04A	10/25/2005 (298) 20:27:00.00000	12/31/2599 (365) 23:59:59.00000	10/25/2005 (298) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	11/01/2005 (305) 18:30:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		10/25/2005 (298) 18:28:40.67611
	_US-TA	TA	ED4A	10/27/2005 (300) 22:55:00.00000	12/31/2599 (365) 23:59:59.00000	10/27/2005 (300) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	11/01/2005 (305) 18:30:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		10/25/2005 (298) 18:28:40.67611
	_US-TA	TA	ED5A	10/29/2005 (302) 7:45:00.00000	12/31/2599 (365) 23:59:59.00000	10/28/2005 (301) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	11/01/2005 (305) 18:30:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		10/25/2005 (298) 18:28:40.67611

121

Dismiss

**Time seismometer is installed/removed**  
(should be same as site table ondate/offdate)





# Nagios - System SOH

Browser window: Nagios  
Address bar: http://mercalli.ucsd.edu/nagios/

## Nagios®

### General

- Home
- Documentation

### Monitoring

- Tactical Overview
- Service Detail
- Host Detail
- Hostgroup Overview
- Hostgroup Summary
- Hostgroup Grid
- Servicegroup Overview
- Servicegroup Summary
- Servicegroup Grid
- Status Map
- 3-D Status Map
- PerfData Graphs
- Service Problems
- Host Problems
- Network Outages

Show Host:

### Reporting

- Comments
- Downtime
- Process Info
- Performance Info
- Scheduling Queue

### Configuration

- View Config

### Network Map For All Hosts

Last Updated: Fri Aug 20 18:06:31 PDT 2004  
Updated every 90 seconds  
Nagios® - [www.nagios.org](http://www.nagios.org)  
Logged in as *lv*

[View Status Detail For All Hosts](#)  
[View Status Overview For All Hosts](#)

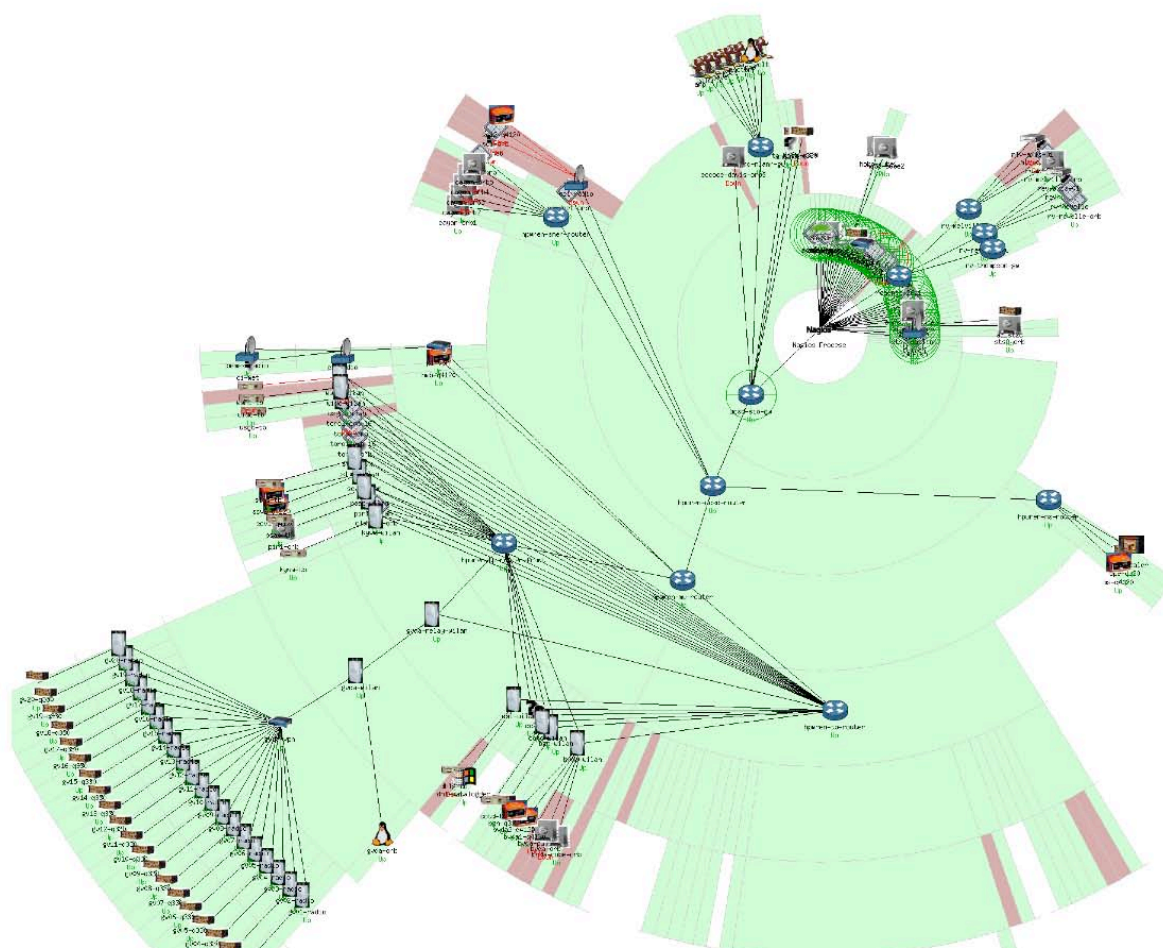
**Layout Method:**  
Circular (Marked Up)

**Scaling factor:**  
0.6

**Drawing Layers:**  
ANZA equipment  
GVDA Equipment  
Glen Offfield equipment  
HPWREN equipment

**Layer mode:**  
 Include  
 Exclude

**Suppress popups:**



ROADNet



# Orbmonrtd - Data SOH

Earthscope USArray ANF Website :: Online Tools :: Real-time USArray Data Monitor - 1 hour display

http://anf.ucsd.edu/tools/orbmon/orbmonrtd.php

Apple .Mac Amazon News USE Credit Union HPWREN Cameras RT Image ANF Tools

**earthscope**  
USArray

**Earthscope USArray ANF Website**

**Online Tools > Real-time USArray Data Monitor - 1 hour display**

Image created: 2004-11-25 20:43:17

The image below is a snapshot of the data the ANF is currently receiving from USArray stations. The page is auto-refreshed every 150 seconds to reflect the latest data recorded. You can keep the focus on a particular station by clicking the station name hyperlink at the left-side of the page:

Station	File	View	amp	Time
<a href="#">TA_109C_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">TA_Y22C_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">TA_HAST_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">TA_V04C_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">TA_D03A_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">TA_A04A_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">AZ_MONP_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">AZ_PFO_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">BK_CMB_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">BK_CVS_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">BK_FARB_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">BK_HOPS_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">BK_HUMO_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">BK_JCC_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">BK_JRSC_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">BK_KCC_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">BK_MNRC_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">BK_MOD_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">BK_ORV_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">BK_PACP_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">BK_PKD_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">BK_POTR_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">BK_WDC_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">BK_WENL_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">BK_YBH_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">CI_ARV_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">CI_BBR_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">CI_BC3_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">CI_BCC_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">CI_BEL_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">CI_BFS_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">CI_CIA_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">CI_CWC_BHZ</a>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Orbmonrtd - Data SOH

Earthscope USArray ANF Website :: Online Tools :: Real-time USArray Data Monitor - 24 hour display

http://anf.ucsd.edu/tools/orbmon/orbmonrtd24.php

Apple Mac Amazon News USE Credit Union HPWREN Cameras RT Image ANF Tools

**earthscope**  
USArray

**Earthscope USArray ANF Website**

**Online Tools > Real-time USArray Data Monitor - 24 hour display**

Image created: 2004-11-25 20:47:34

The image below is a snapshot of the last 24 hours of data the ANF is currently receiving from USArray stations. The page is auto-refreshed every 150 seconds to reflect the latest data recorded. You can keep the focus on a particular station by clicking the station name hyperlink at the left-side of the page:

Station	File	View	Amp	Time
<a href="#">TA_109C_BHZ</a>	<input type="checkbox"/>	<a href="#">TA_109C_LHZ</a>		
<a href="#">TA_Y22C_BHZ</a>	<input type="checkbox"/>	<a href="#">TA_Y22C_LHZ</a>		
<a href="#">TA_HAST_BHZ</a>	<input type="checkbox"/>	<a href="#">TA_HAST_LHZ</a>		
<a href="#">TA_V04C_BHZ</a>	<input type="checkbox"/>	<a href="#">TA_V04C_LHZ</a>		
<a href="#">TA_D03A_BHZ</a>	<input type="checkbox"/>	<a href="#">TA_D03A_LHZ</a>		
<a href="#">TA_A04A_BHZ</a>	<input type="checkbox"/>	<a href="#">TA_A04A_LHZ</a>		
<a href="#">AZ_MONP_BHZ</a>	<input type="checkbox"/>	<a href="#">AZ_MONP_LHZ</a>		
<a href="#">AZ_PFO_BHZ</a>	<input type="checkbox"/>	<a href="#">AZ_PFO_LHZ</a>		
<a href="#">BK_CMB_BHZ</a>	<input type="checkbox"/>	<a href="#">BK_CMB_LHZ</a>		
<a href="#">BK_CVS_BHZ</a>	<input type="checkbox"/>	<a href="#">BK_CVS_LHZ</a>		
<a href="#">BK_FARB_BHZ</a>	<input type="checkbox"/>	<a href="#">BK_FARB_LHZ</a>		
<a href="#">BK_HOPS_BHZ</a>	<input type="checkbox"/>	<a href="#">BK_HOPS_LHZ</a>		
<a href="#">BK_HUMO_BHZ</a>	<input type="checkbox"/>	<a href="#">BK_HUMO_LHZ</a>		
<a href="#">BK_JCC_BHZ</a>	<input type="checkbox"/>	<a href="#">BK_JCC_LHZ</a>		
<a href="#">BK_JRSC_BHZ</a>	<input type="checkbox"/>	<a href="#">BK_JRSC_LHZ</a>		
<a href="#">BK_KCC_BHZ</a>	<input type="checkbox"/>	<a href="#">BK_KCC_LHZ</a>		
<a href="#">BK_MNRC_BHZ</a>	<input type="checkbox"/>	<a href="#">BK_MNRC_LHZ</a>		
<a href="#">BK_MOD_BHZ</a>	<input type="checkbox"/>	<a href="#">BK_MOD_LHZ</a>		
<a href="#">BK_ORV_BHZ</a>	<input type="checkbox"/>	<a href="#">BK_ORV_LHZ</a>		
<a href="#">BK_PACP_BHZ</a>	<input type="checkbox"/>	<a href="#">BK_PACP_LHZ</a>		
<a href="#">BK_PKD_BHZ</a>	<input type="checkbox"/>	<a href="#">BK_PKD_LHZ</a>		
<a href="#">BK_POTR_BHZ</a>	<input type="checkbox"/>	<a href="#">BK_POTR_LHZ</a>		
<a href="#">BK_WDC_BHZ</a>	<input type="checkbox"/>	<a href="#">BK_WDC_LHZ</a>		
<a href="#">BK_WENL_BHZ</a>	<input type="checkbox"/>	<a href="#">BK_WENL_LHZ</a>		
<a href="#">BK_YBH_BHZ</a>	<input type="checkbox"/>	<a href="#">BK_YBH_LHZ</a>		
<a href="#">CI_ARV_BHZ</a>	<input type="checkbox"/>	<a href="#">CI_ARV_LHZ</a>		
<a href="#">CI_BBR_BHZ</a>	<input type="checkbox"/>	<a href="#">CI_BBR_LHZ</a>		
<a href="#">CI_BC3_BHZ</a>	<input type="checkbox"/>	<a href="#">CI_BC3_LHZ</a>		
<a href="#">CI_BCC_BHZ</a>	<input type="checkbox"/>	<a href="#">CI_BCC_LHZ</a>		
<a href="#">CI_BEL_BHZ</a>	<input type="checkbox"/>	<a href="#">CI_BEL_LHZ</a>		
<a href="#">CI_BFS_BHZ</a>	<input type="checkbox"/>	<a href="#">CI_BFS_LHZ</a>		
<a href="#">CI_CIA_BHZ</a>	<input type="checkbox"/>	<a href="#">CI_CIA_LHZ</a>		
<a href="#">CI_CWC_BHZ</a>	<input type="checkbox"/>	<a href="#">CI_CWC_LHZ</a>		



# Q330 Comms Status

## orbpf2db



- admin home
- station
- updates email
- archive
- site photos
- viewer
- state-of-health site
- comments editor
- q330 communications
- preliminary q330 communications
- anf.ucsd.edu site statistics
- update password
- logout

**Earthscope ANF Website**

**Administration Section > Most recent Q330 communications**

You are currently logged in as Jennifer Eakins.

Number of stations in the database: 50

Database last updated: Mon, 07 Nov 2005 10:49:33 -0800

Datalogger Station	Station	INP			SS Ident	ID Tag	Latitude	Longitude	Elevation	Throttle	
		TCP/UDP	IP	Port							Logical Port
TA_109C		UDP	148.71.139.34	5332	L1	01000008E9048F13	635	-0	-0	-0	56000
TA_A04A		UDP	69.7.36.237	5332	L1	010000044DC70B55	777	-0	-0	-0	56000
TA_A04A		UDP	69.7.36.237	5332	L1	0100000A287A1DFA	875	48.7197	-122.707	0.0106	56000
TA_B04A		UDP	166.159.115.82	5332	L1	010000044D89A73F	720	-0	-0	-0	56000
TA_BNLO		UDP	166.139.29.255	5332	L1	0100000A1B8D11B0	1143	-0	-0	-0	56000
TA_C03A		UDP	166.159.115.105	5332	L1	0100000B6A110867	1110	-0	-0	-0	56000
TA_D03A		UDP	169.204.137.15	5332	L1	0100000A1B877DB3	921	47.1161	-123.7714	0.029	56000
TA_D04A		UDP	166.159.115.117	5332	L1	0100000B6A2105A9	1121	-0	-0	-0	56000
TA_E04A		UDP	Cell modem (not transmitting)	5332	L1	010000044D8E571C	0	-0	-0	-0	56000
TA_E05A		UDP	67.54.168.32	5332	L1	010000044DB4FFD8	737	-0	-0	-0	56000
TA_ELF5		UDP	67.44.228.10	5332	L1	0100000A27985AC9	1106	40.6184	-120.7279	1.557	56000
TA_F04A		UDP	166.159.115.118	5332	L1	0100000B6A211BE1	1153	-0	-0	-0	56000
TA_HAST		UDP	66.82.64.43	5332	L1	0100000A27AC2132	1005	-0	-0	-0	56000
TA_HATC		UDP	65.241.164.136	5332	L1	0100000A1B887713	1107	40.8161	-121.4613	1.0129	56000
TA_HELL		UDP	66.82.245.234	5332	L1	0100000B69D6FA80	1111	-0	-0	-0	56000
TA_I05A		UDP	67.45.111.110	5332	L1	010000044D82AA05	770	44.1626	-121.2675	1.009	56000
TA_LAVA		UDP	148.71.139.50	5332	L1	010000044DDE30CF	791	-0	-0	-0	56000
TA_M02C		UDP	65.170.243.13	5332	L1	010000044DAF4772	725	41.3921	-122.8538	0.9632	56000
TA_M03C		UDP	67.46.69.30	5332	L1	010000044D8E0F93	783	41.2742	-122.122	1.0663	56000
TA_M04C		UDP	216.7.117.14	5332	L1	010000044DC36D3B	751	41.7827	-121.8393	1.3866	56000
TA_M05C		UDP	166.139.136.21	5332	L1	010000044D82AB32	754	-0	-0	-0	56000
TA_M06C		UDP	166.139.136.16	5332	L1	0100000B6A212FD0	1123	-0	-0	-0	56000
TA_N02C		UDP	67.44.239.238	5332	L1	0100000B69D67804	1120	40.8224	-123.3056	0.7059	56000
TA_O03C		UDP	166.139.16.34	5332	L1	0100000A1B9DF38B	1136	-0	-0	-0	56000
TA_O04C		UDP	166.139.28.254	5332	L1	010000044D920C97	752	-0	-0	-0	56000
TA_O05C		UDP	166.139.136.19	5332	L1	0100000B6A21D086	1129	-0	-0	-0	56000
TA_P01C		UDP	166.139.136.18	5332	L1	0100000A28774ABD	862	-0	-0	-0	56000
TA_P05C		UDP	166.139.15.118	5332	L1	010000044D9D8E7C	795	-0	-0	-0	56000
TA_Q03C		UDP	166.139.15.117	5332	L1	010000044DC2D92D	784	-0	-0	-0	56000
TA_Q04C		UDP	166.139.20.47	5332	L1	010000044D9FB784	766	-0	-0	-0	56000
TA_R04C		UDP	148.71.139.114	5332	L1	0100000A27A42AF4	778	-0	-0	-0	56000
TA_R05C		UDP	65.165.167.240	5332	L1	010000044DF25409	774	-0	-0	-0	56000
TA_R06C		UDP	67.46.82.202	5332	L1	010000044DA9BF3D	773	38.5227	-119.4509	1.7018	56000
TA_R07C		UDP	166.139.27.252	5332	L1	010000044D980057	722	-0	-0	-0	56000
TA_S04C		UDP	166.139.18.254	5332	L1	01000006FB2EBBAC	450	-0	-0	-0	56000
TA_S05C		UDP	166.139.136.20	5332	L1	010000044D999BD3	748	-0	-0	-0	56000

- admin home
- station updates email archive
- site photos viewer
- state-of-health site comments editor
- q330 communications preliminary q330 communications
- anf.ucsd.edu site statistics
- update password
- logout



## Earthscope ANF Website

### Administration Section > Most recent preliminary Q330 communications (prelim ORB)

You are currently logged in as Jennifer Eakins.

Number of stations in the database: 19

Database last updated: Mon, 07 Nov 2005 10:54:03 -0800

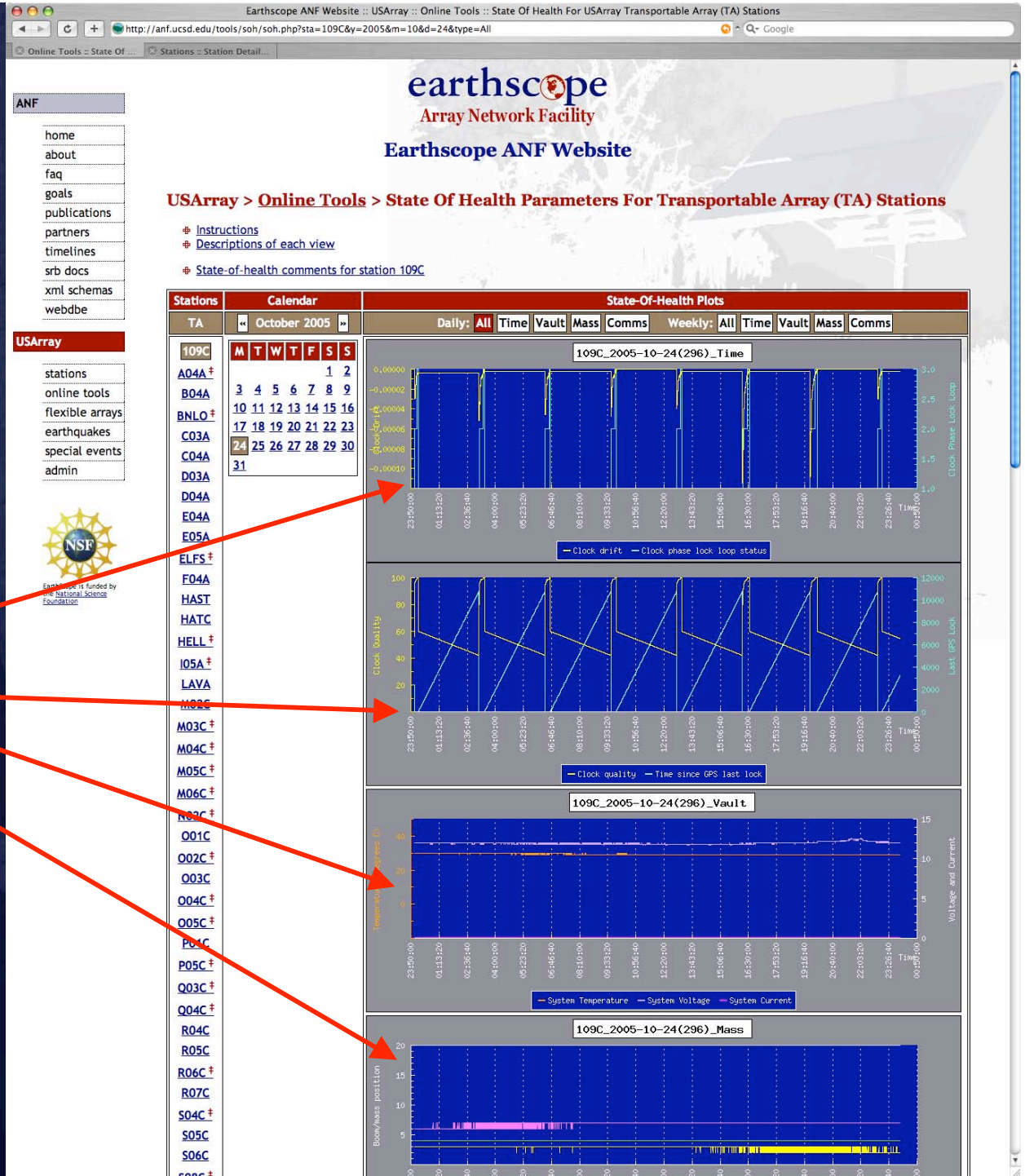
Datalogger Station ↑ ↓	INP ↑ ↓				SS Ident	ID Tag	Latitude	Longitude	Elevation	Throttle
	TCP/UDP	IP	Port	Logical Port						
BB_TQT2	UDP	148.70.236.26	5334	L2	01000008E9118E8A	505	-0	-0	0	56000
BB_TQT3	UDP	67.143.137.78	5332	L1	01000006FB4A7D8F	582	42.5426	-71.5751	0.0739	56000
BB_TRTC	UDP	67.54.129.216	5332	L1	0100000A287265FD	992	-0	-0	-0	56000
TA_B04A	UDP	166.159.115.82	5332	L1	010000044D89A73F	720	-0	-0	-0	56000
TA_C03A	UDP	166.159.115.105	5332	L1	0100000B6A110867	1110	-0	-0	-0	56000
TA_C04A	UDP	166.159.115.119	5332	L1	010000044D93E357	761	-0	-0	-0	56000
TA_D04A	UDP	166.159.115.117	5332	L1	0100000B6A2105A9	1121	-0	-0	-0	56000
TA_E03A	UDP	67.54.168.23	5332	L1	010000044D97C54C	0	-0	-0	-0	56000
TA_E04A	UDP	Cell modem (not transmitting)	5332	L1	010000044D8E571C	0	-0	-0	-0	56000
TA_E05A	UDP	67.54.168.32	5332	L1	010000044DB4FFD8	737	-0	-0	-0	0
TA_F04A	UDP	166.159.115.118	5332	L1	0100000B6A211BE1	1153	-0	-0	-0	0
TA_F05A	UDP	67.54.168.16	5332	L1	0100000A8BD6685B	0	-0	-0	-0	56000
TA_F05A	UDP	67.54.168.16	5332	L1	0100000A1BD6685B	0	-0	-0	-0	56000
TA_O01C	UDP	192.168.33.2	5332	L1	010000044DB0814C	0	-0	-0	-0	56000
TA_O02C	UDP	Cell modem (not transmitting)	5332	L1	010000044D9DD041	0	-0	-0	-0	56000
XX_AABB	UDP	Cell modem (not transmitting)	5332	L1	0100000AABAABBAA	0	-0	-0	-0	56000
XX_PFO2	UDP	172.23.34.44	5332	L1	010000069A405663	208	33.6104	-116.4555	1.2721	56000
XX_TEST	UDP	Cell modem (not transmitting)	5332	L1	0100000AAAAA	0	-0	-0	-0	56000
ZZ_ZZZZ	UDP	166.139.15.117	5332	L1	010000044DC2D92D	784	-0	-0	-0	0

Last updated: 01/25/05



# Datalogger SOH

~~System~~  
Position



# Comms SOH



Earthscope ANF Website :: USArray :: Online Tools :: State Of Health For USArray Transportable Array (TA) Stations

http://anf.ucsd.edu/tools/soh/soh.php?sta=M05C&y=2005&m=11&d=02&type=Comms

Earthscope ANF Website

USArray > Online Tools > State Of Health Parameters For Transportable Array (TA) Stations

- Instructions
- Descriptions of each view
- State-of-health comments for station M05C

Stations	Calendar	State-Of-Health Plots
TA	November 2005	Daily: All Time Vault Mass Comms Weekly: All Time Vault Mass Comms
109C	M T W T F S S	M05C_2005-11-02(305)_Communications
A04A †	1 2 3 4 5 6	% Packet Buffer Full / Total I/O Data Rate
B04A	7 8 9 10 11 12 13	Data Latency (sec.)
BNLO †	14 15 16 17 18 19 20	Overall Communication Efficiency (%) / Current Data Latency (sec.)
C03A	21 22 23 24 25 26 27	Total Bytes Read (Last 24 hrs) / Total Bytes Written (Last 24 hrs)
C04A	28 29 30	Com. Link Cycles / Data Logger Reboots
D03A		
D04A		
E04A		
E05A		
ELFS †		
F04A		
HAST		
HATC		
HELL †		
I05A †		
LAVA		
M02C		
M03C †		
M04C †		
<b>M05C</b>		
M06C †		
N02C †		
O01C		
O02C †		
O03C		
O04C †		
O05C †		
P01C		
P05C †		
Q03C †		
Q04C †		
R04C		
R05C		
R06C †		
R07C		
S04C †		
S05C		
S06C		
S08C †		
SUTB †		
T05C †		
T06C		

USArray

- stations
- online tools
- flexible arrays
- earthquakes
- special events
- admin

NSF  
EarthScope is funded by the National Science Foundation

### Active station table

Stations are colored according to each specific network. See the network table below to see how many stations from each network are contributing to the USArray experiment. Click a station to see location and status details. To the right of each **Network:Station** code there is a status flag. The status flag is colored by the level of data latency for each station as per the key below.

**Note:** This display is for appraisal only and should not be used for detailed station diagnostics.

- – Station returning data (data latency < 30mins)
- – Station warning (data latency > 30mins)
- – Station considered offline (data latency > 4hrs)

Station List										
AZ:MONP <span style="color: green;">■</span>	AZ:PFO <span style="color: green;">■</span>	BK:BDM <span style="color: green;">■</span>	BK:CMB <span style="color: green;">■</span>	BK:CVS <span style="color: green;">■</span>	BK:FARB <span style="color: green;">■</span>	BK:GASB <span style="color: green;">■</span>	BK:HOPS <span style="color: green;">■</span>	BK:HUMO <span style="color: green;">■</span>	BK:JCC <span style="color: green;">■</span>	
BK:JRSC <span style="color: green;">■</span>	BK:KCC <span style="color: green;">■</span>	BK:MNRC <span style="color: green;">■</span>	BK:MOD <span style="color: green;">■</span>	BK:ORV <span style="color: green;">■</span>	BK:PACP <span style="color: green;">■</span>	BK:PKD <span style="color: green;">■</span>	BK:WDC <span style="color: green;">■</span>	BK:WENL <span style="color: green;">■</span>	BK:YBH <span style="color: green;">■</span>	
CI:ARV <span style="color: red;">■</span>	CI:BBR <span style="color: green;">■</span>	CI:BC3 <span style="color: green;">■</span>	CI:BEL <span style="color: green;">■</span>	CI:BFS <span style="color: green;">■</span>	CI:CIA <span style="color: green;">■</span>	CI:CWC <span style="color: green;">■</span>	CI:DAN <span style="color: green;">■</span>	CI:DEC <span style="color: green;">■</span>	CI:DVT <span style="color: green;">■</span>	
CI:EDW2 <span style="color: green;">■</span>	CI:FMP <span style="color: green;">■</span>	CI:FUR <span style="color: green;">■</span>	CI:GLA <span style="color: green;">■</span>	CI:GRA <span style="color: green;">■</span>	CI:GSC <span style="color: green;">■</span>	CI:HEC <span style="color: green;">■</span>	CI:IRM <span style="color: green;">■</span>	CI:ISA <span style="color: green;">■</span>	CI:LGU <span style="color: green;">■</span>	
CI:LRL <span style="color: green;">■</span>	CI:MLAC <span style="color: green;">■</span>	CI:MPM <span style="color: green;">■</span>	CI:MPP <span style="color: green;">■</span>	CI:MUR <span style="color: red;">■</span>	CI:NEE <span style="color: green;">■</span>	CI:OSI <span style="color: green;">■</span>	CI:PDM <span style="color: green;">■</span>	CI:RCT <span style="color: green;">■</span>	CI:RRX <span style="color: green;">■</span>	
CI:SBC <span style="color: green;">■</span>	CI:SCI2 <span style="color: green;">■</span>	CI:SCZ2 <span style="color: green;">■</span>	CI:SDP <span style="color: green;">■</span>	CI:SHO <span style="color: green;">■</span>	CI:SMM <span style="color: green;">■</span>	CI:SNCC <span style="color: green;">■</span>	CI:SWS <span style="color: green;">■</span>	CI:TIN <span style="color: green;">■</span>	CI:TUQ <span style="color: green;">■</span>	
CI:VES <span style="color: green;">■</span>	TA:109C <span style="color: green;">■</span>	TA:A04A <span style="color: green;">■</span>	TA:B04A <span style="color: green;">■</span>	TA:BNLO <span style="color: green;">■</span>	TA:C03A <span style="color: green;">■</span>	TA:D03A <span style="color: green;">■</span>	TA:D04A <span style="color: green;">■</span>	TA:E04A <span style="color: red;">■</span>	TA:E05A <span style="color: red;">■</span>	
TA:ELFS <span style="color: green;">■</span>	TA:F04A <span style="color: green;">■</span>	TA:HAST <span style="color: yellow;">■</span>	TA:HATC <span style="color: green;">■</span>	TA:HELL <span style="color: green;">■</span>	TA:I05A <span style="color: green;">■</span>	TA:LAVA <span style="color: green;">■</span>	TA:M02C <span style="color: green;">■</span>	TA:M03C <span style="color: green;">■</span>	TA:M04C <span style="color: green;">■</span>	
TA:M05C <span style="color: green;">■</span>	TA:M06C <span style="color: green;">■</span>	TA:N02C <span style="color: green;">■</span>	TA:O01C <span style="color: red;">■</span>	TA:O02C <span style="color: red;">■</span>	TA:O03C <span style="color: green;">■</span>	TA:O04C <span style="color: green;">■</span>	TA:O05C <span style="color: green;">■</span>	TA:P01C <span style="color: green;">■</span>	TA:P05C <span style="color: green;">■</span>	
TA:Q03C <span style="color: green;">■</span>	TA:Q04C <span style="color: green;">■</span>	TA:R04C <span style="color: green;">■</span>	TA:R05C <span style="color: green;">■</span>	TA:R06C <span style="color: green;">■</span>	TA:R07C <span style="color: green;">■</span>	TA:S04C <span style="color: green;">■</span>	TA:S05C <span style="color: green;">■</span>	TA:S06C <span style="color: green;">■</span>	TA:S08C <span style="color: green;">■</span>	
TA:SUTB <span style="color: red;">■</span>	TA:T05C <span style="color: green;">■</span>	TA:T06C <span style="color: green;">■</span>	TA:U04C <span style="color: green;">■</span>	TA:U05C <span style="color: green;">■</span>	TA:V03C <span style="color: green;">■</span>	TA:V04C <span style="color: green;">■</span>	TA:V05C <span style="color: green;">■</span>	TA:Y12C <span style="color: green;">■</span>	TA:Y22C <span style="color: green;">■</span>	

### Number of stations in each network

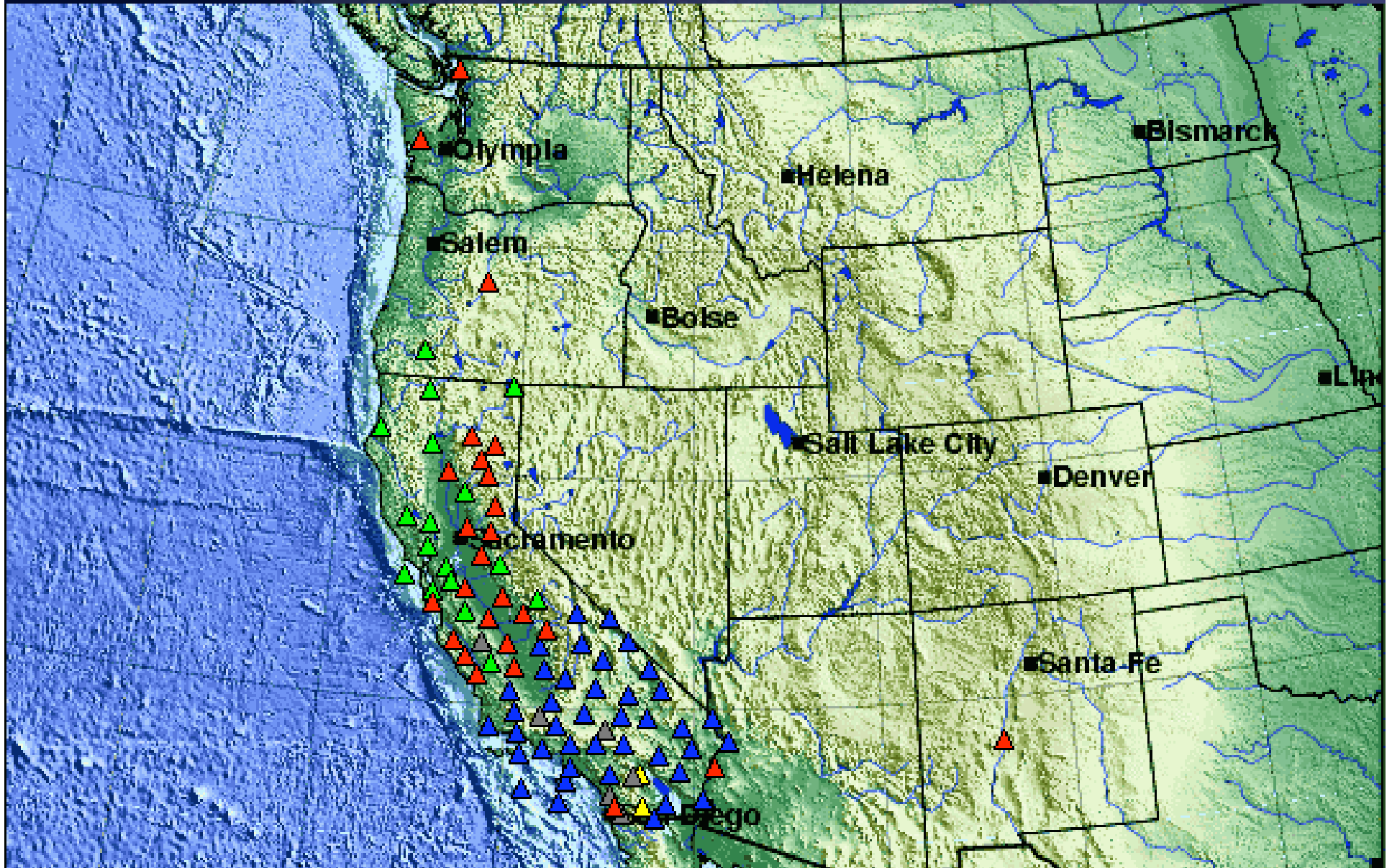
Network	Number of stations
AZ	2
BK	18
CI	41
TA	49
Network	Number of stations

Last updated: 2005-10-27 11:07:02 PDT

# Current USArray Deployment

87 Stations

<http://anf.ucsd.edu/stations.php>





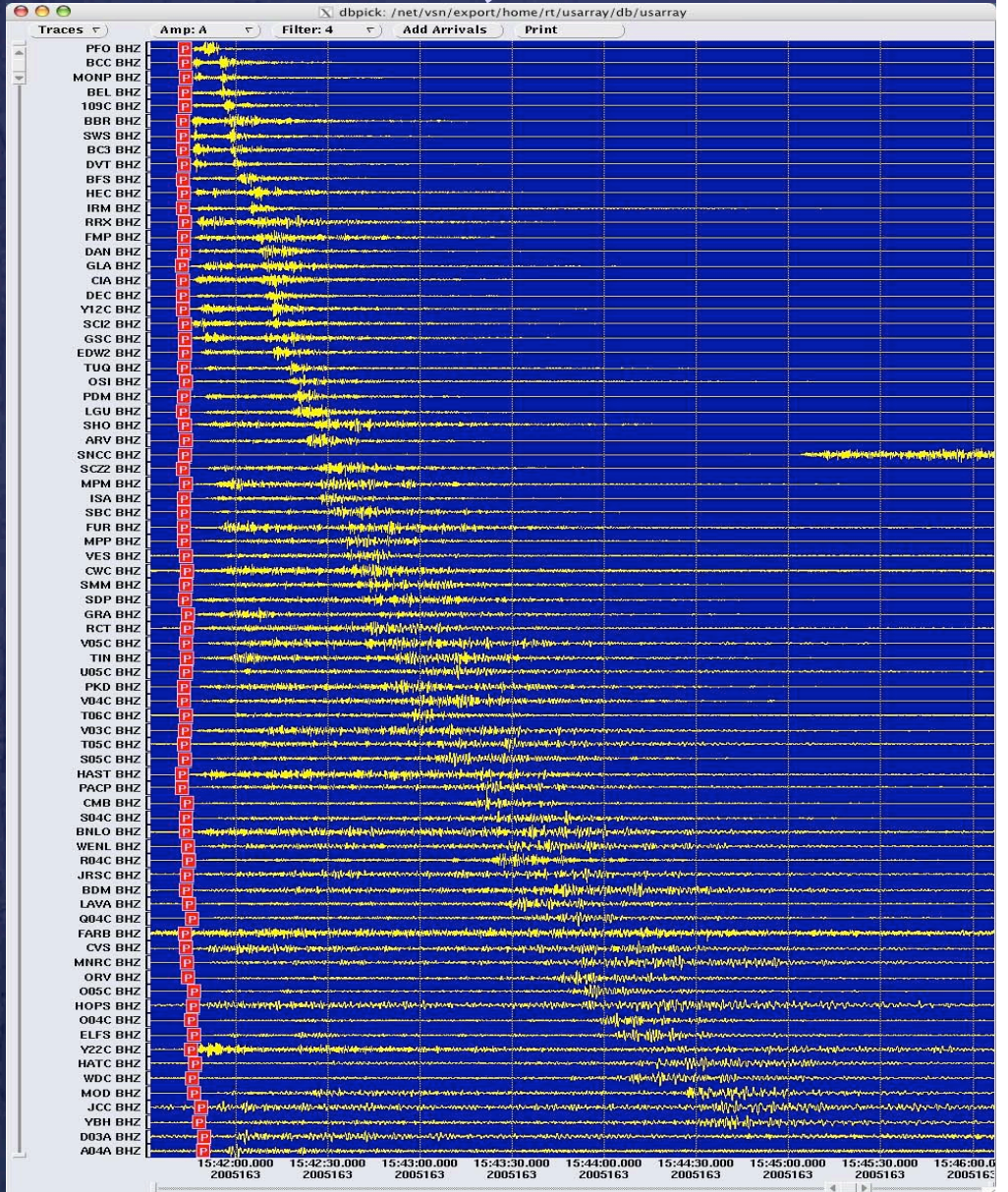
# Antelope Interface to PHP

- Datascope
  - Over 70 new functions added; fully fleshed out to match the Perl interface
  - Includes pre-defined constants (dbALL etc)
  - Special functions to bin trace data for plotting
- Sysinfo
  - New Antelope PHP module, mirrors Perl sysinfo
- Orb
  - New Antelope PHP module
  - Currently does orbopen, select/reject, pforbstat
  - Full orbread with proper packet querying will force a move to PHP5



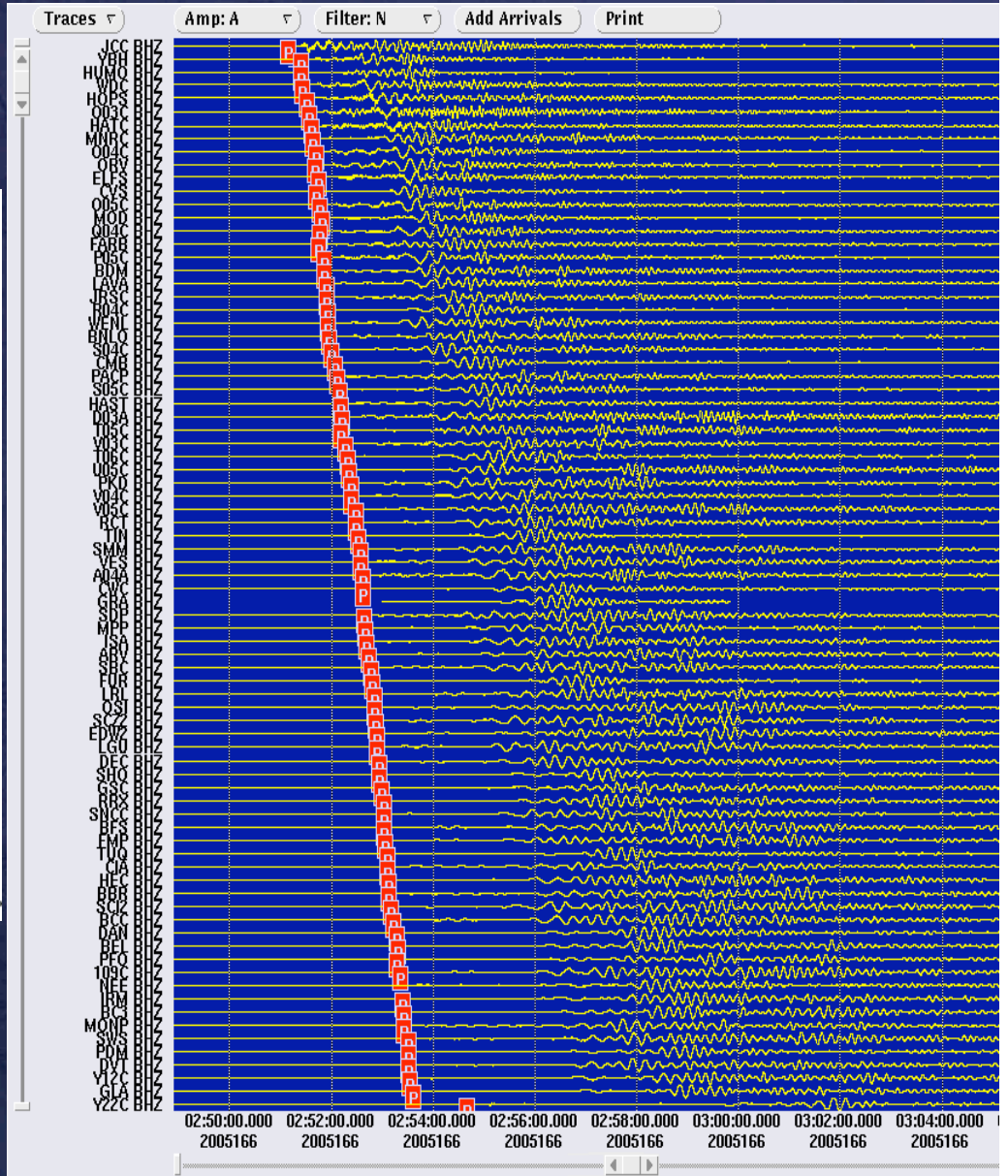
# Anza CA

# June 12, 2005



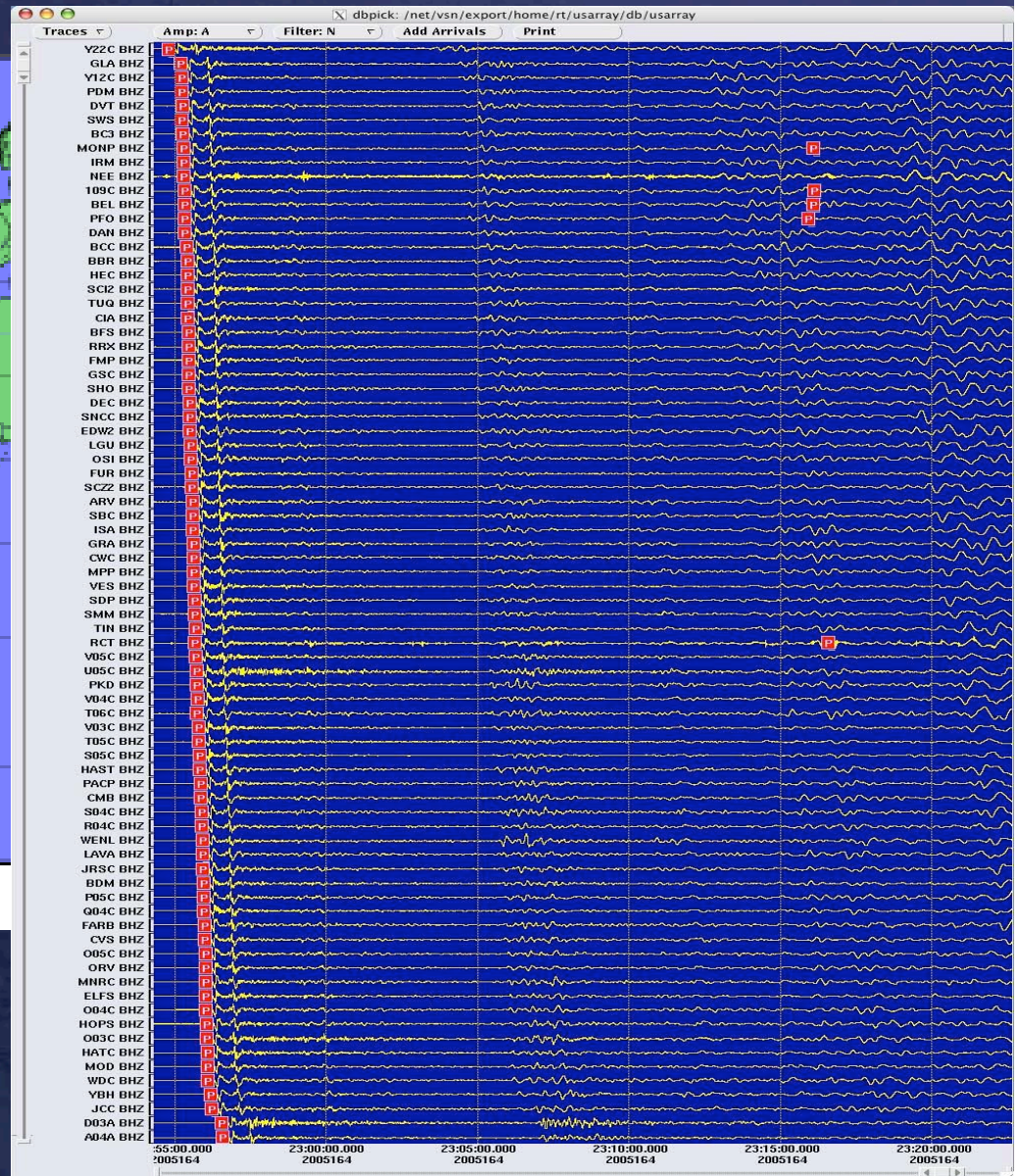
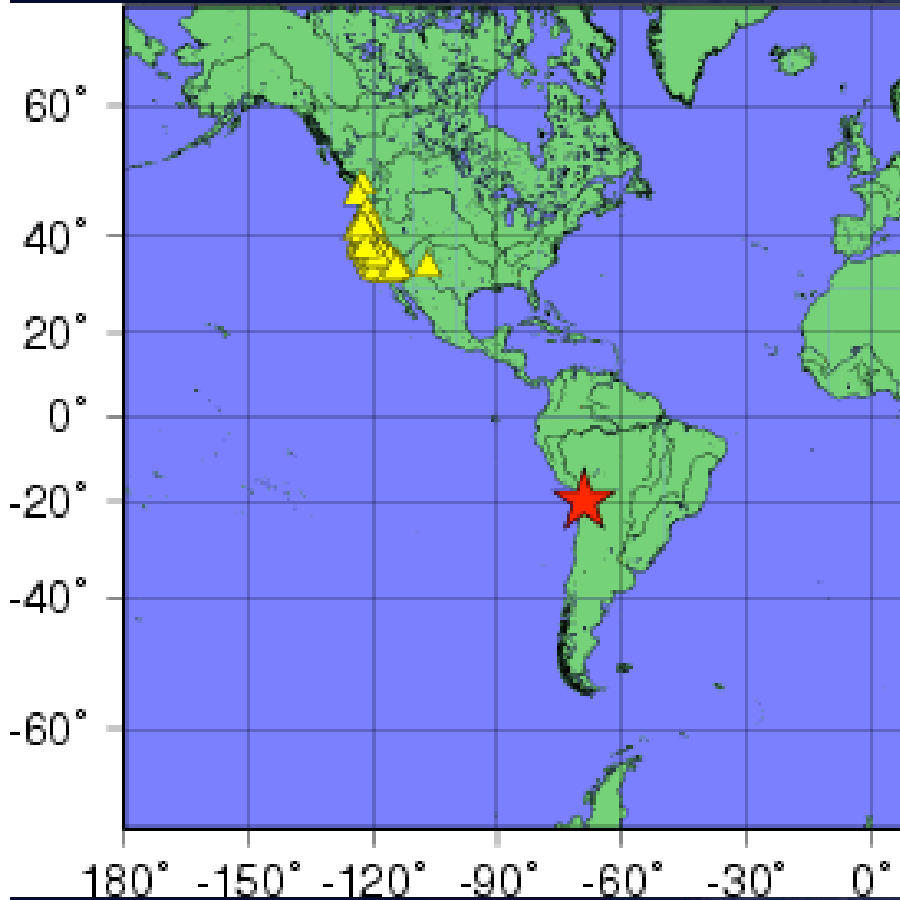
## Mw 5.2

# Mendocino, CA June 15, 2005



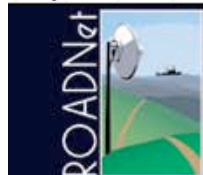
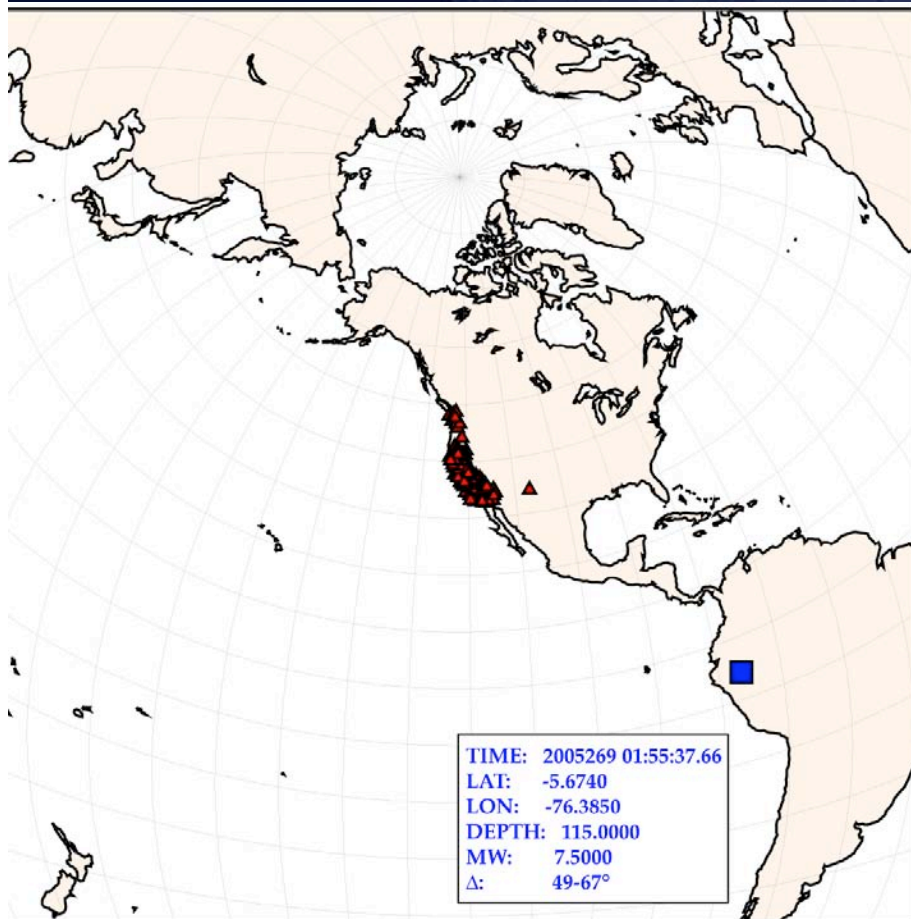
Mw 7.2

# Chile June 13, 2005

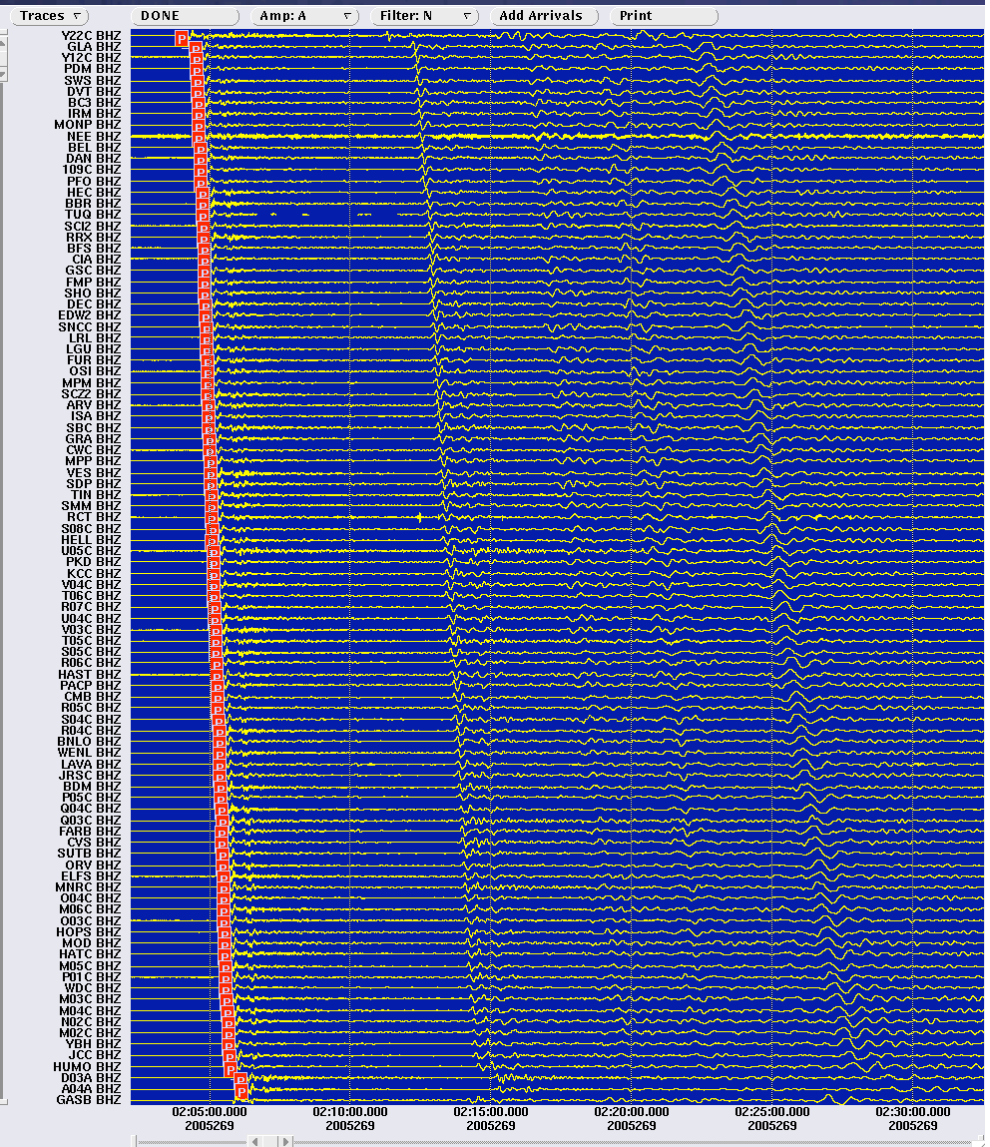


Mw 7.9

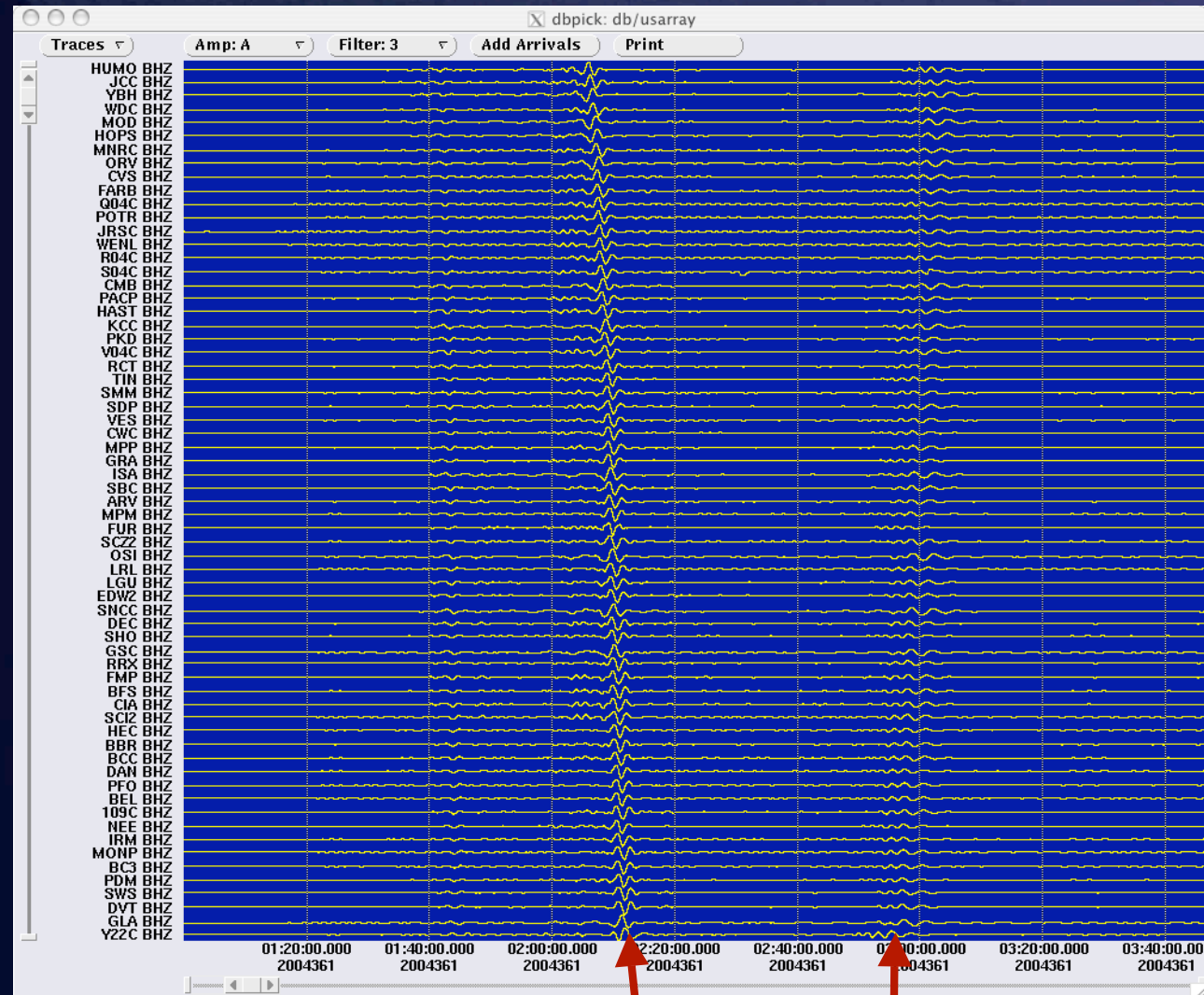
# Peru September 26, 2005



Mw 7.5



# Sumatra -USArray 0.01 Hz LP Filtered

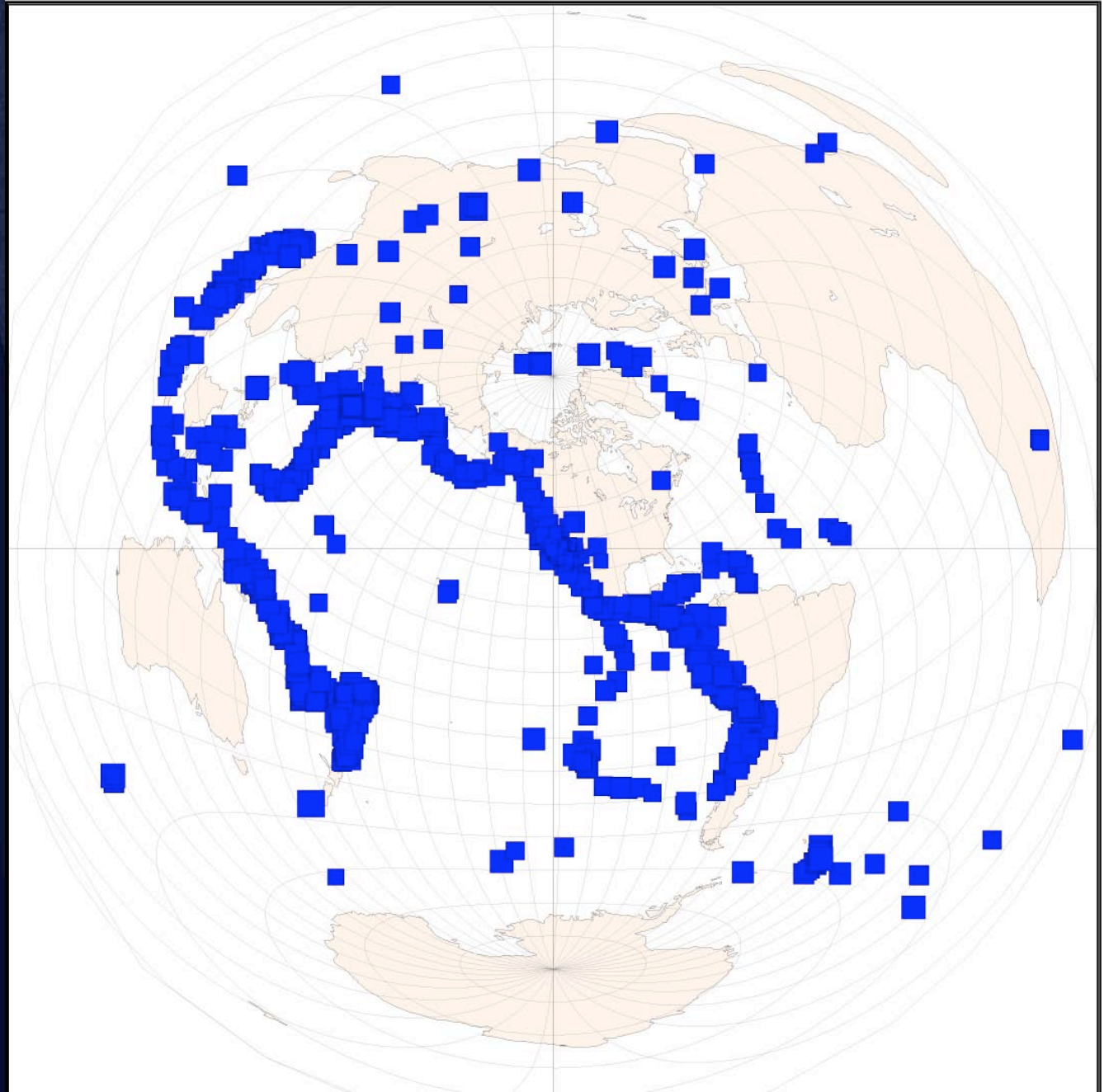


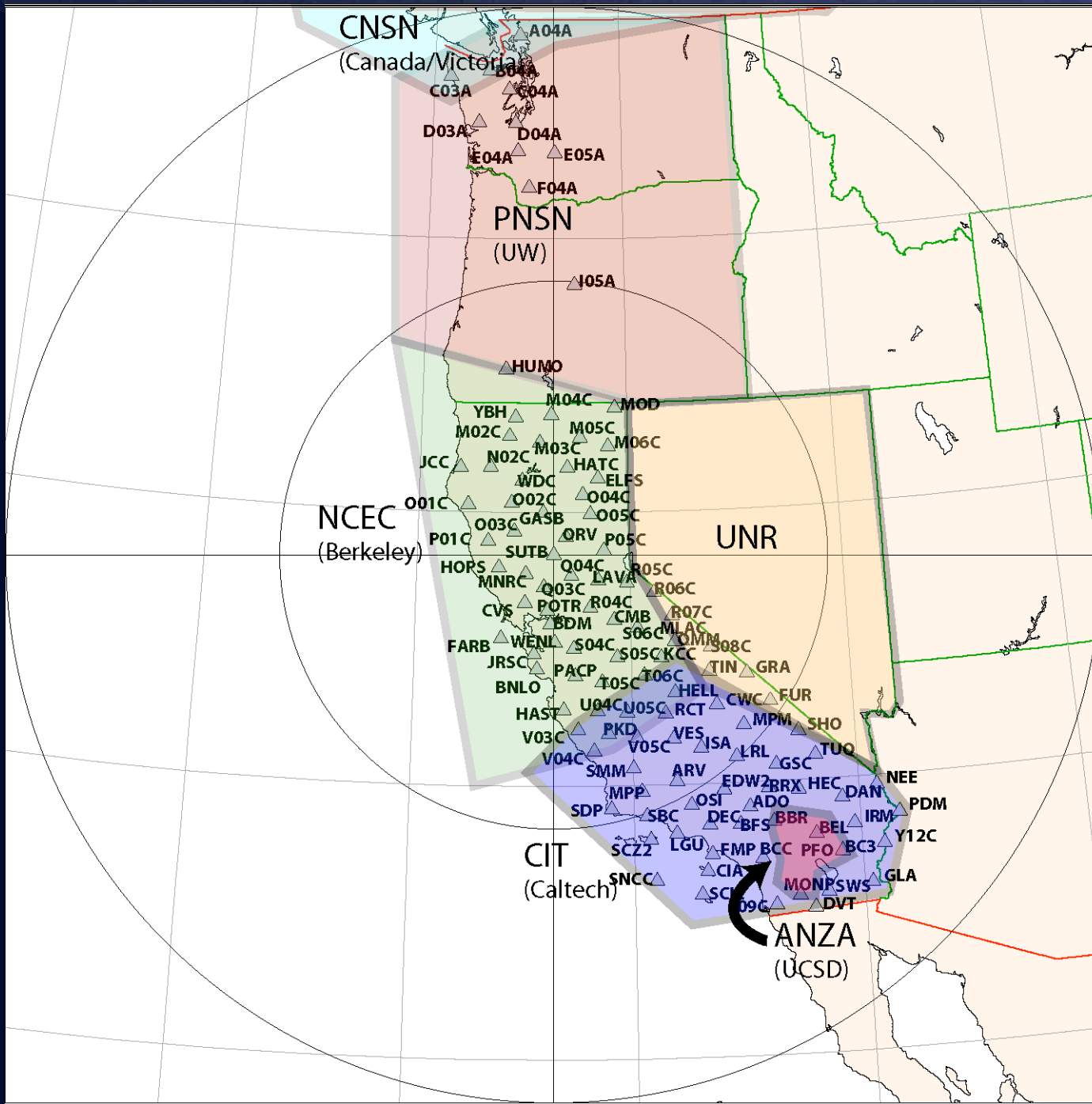
R1

R2

Events from USGS bulletin  
4338 events 4/2004-11/2005

# NEIC Global Events Recorded on TA

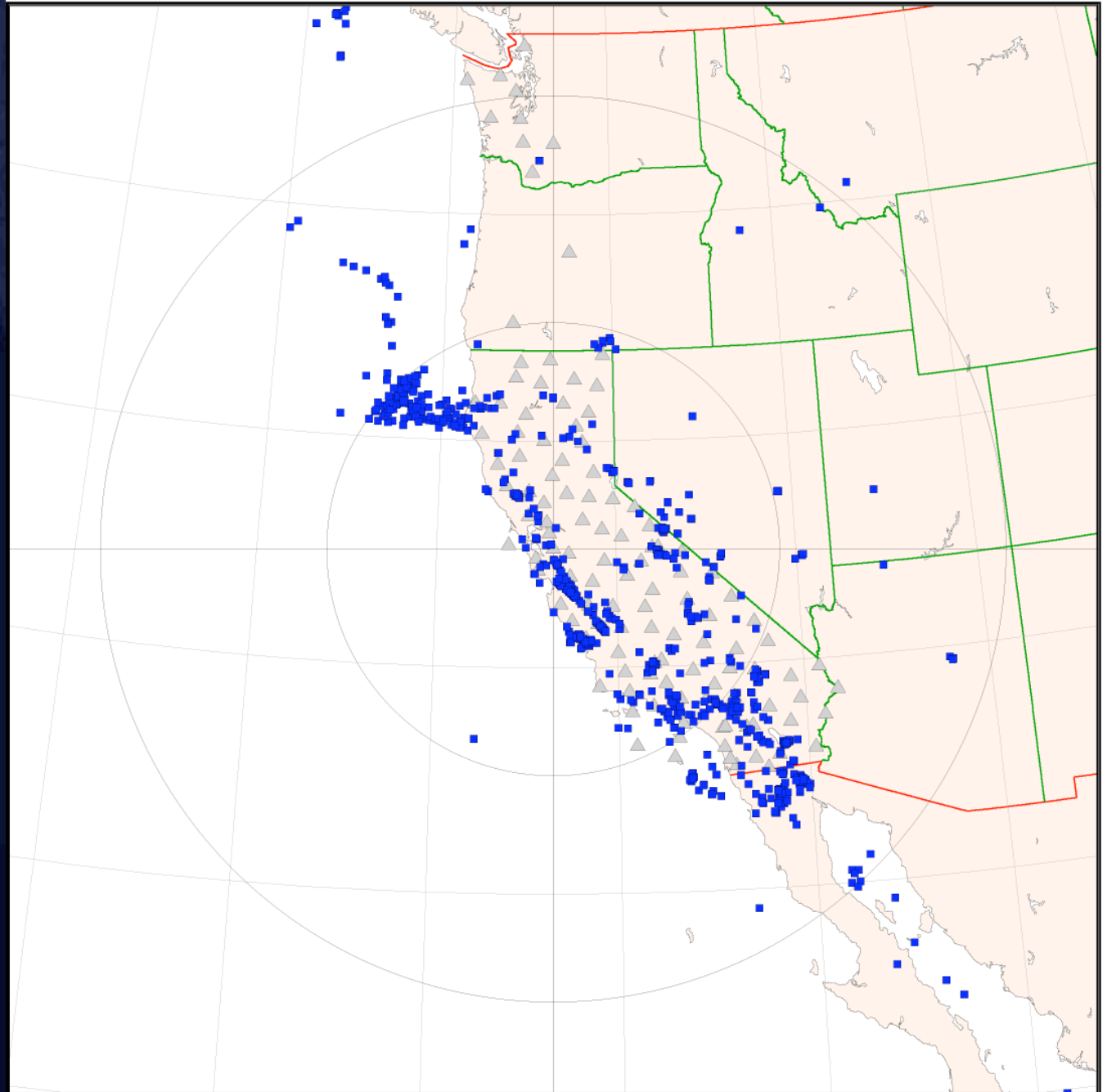






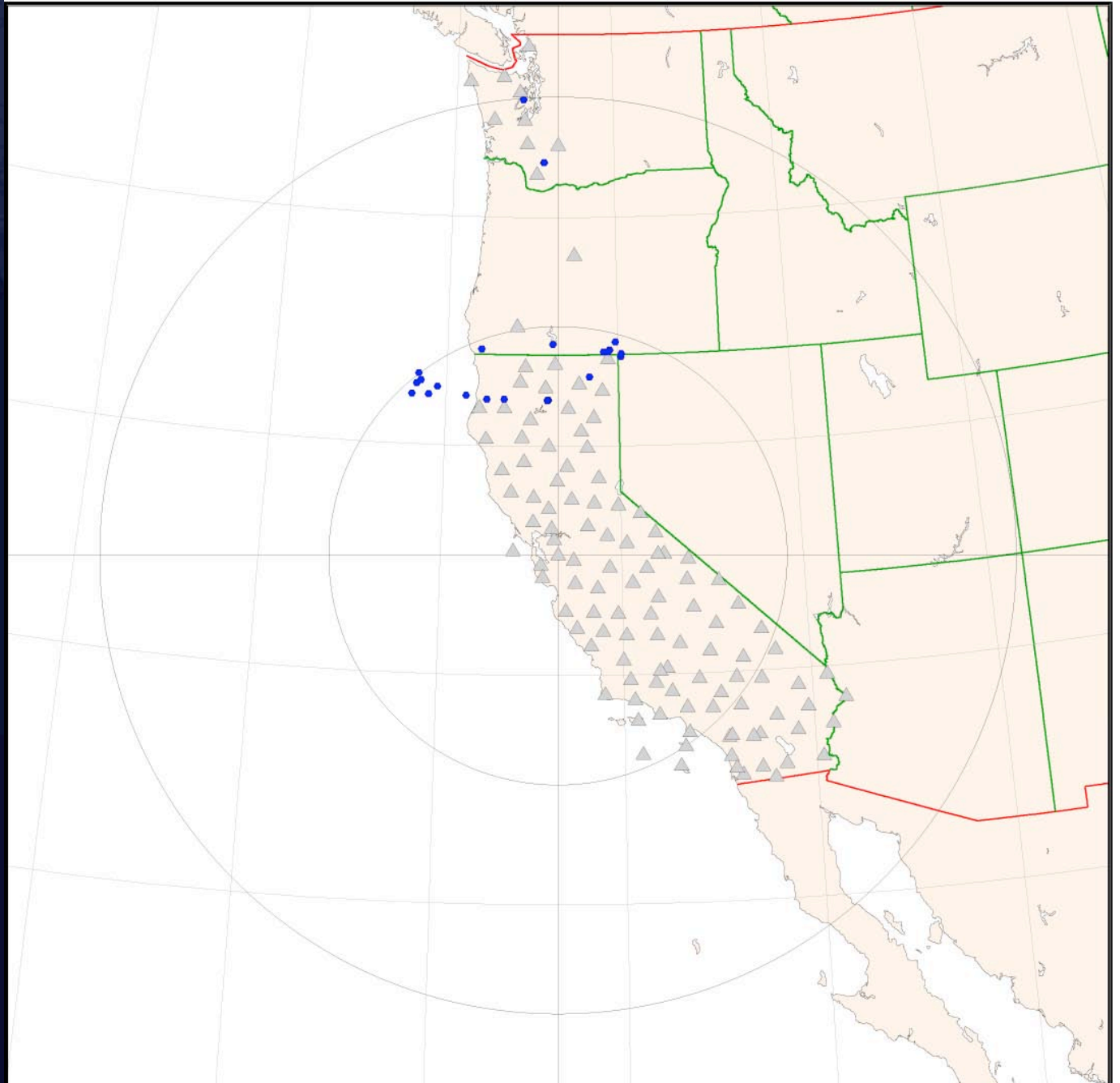
Events from USGS bulletin  
4338\* events 4/2004-11/2005

# NEIC Regional Events Recorded on TA



Events from PNSN bulletin  
26 events 4/2004-11/2005

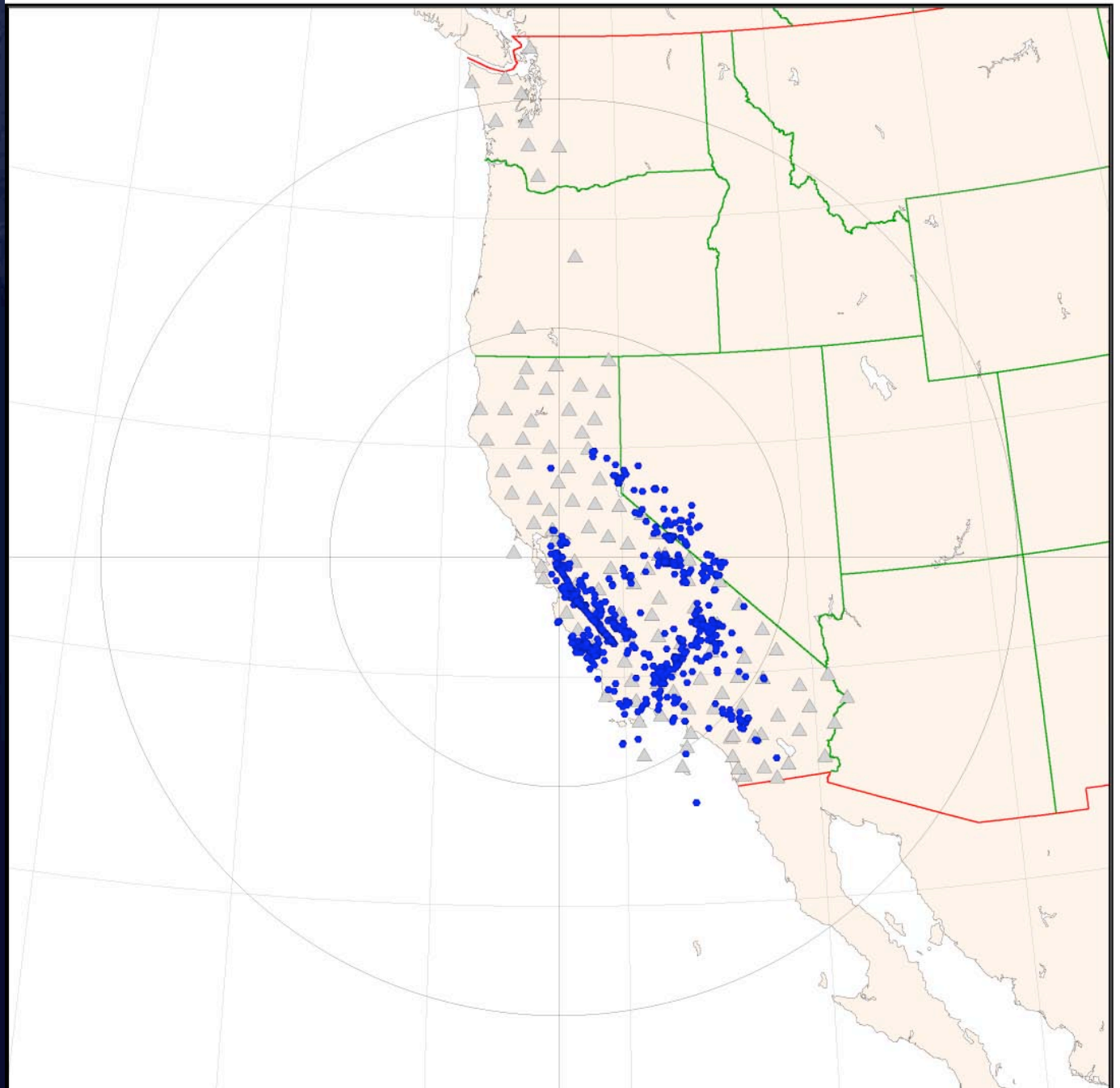
# PNSN Regional Events Recorded on TA



# NCSN Regional Events Recorded on TA

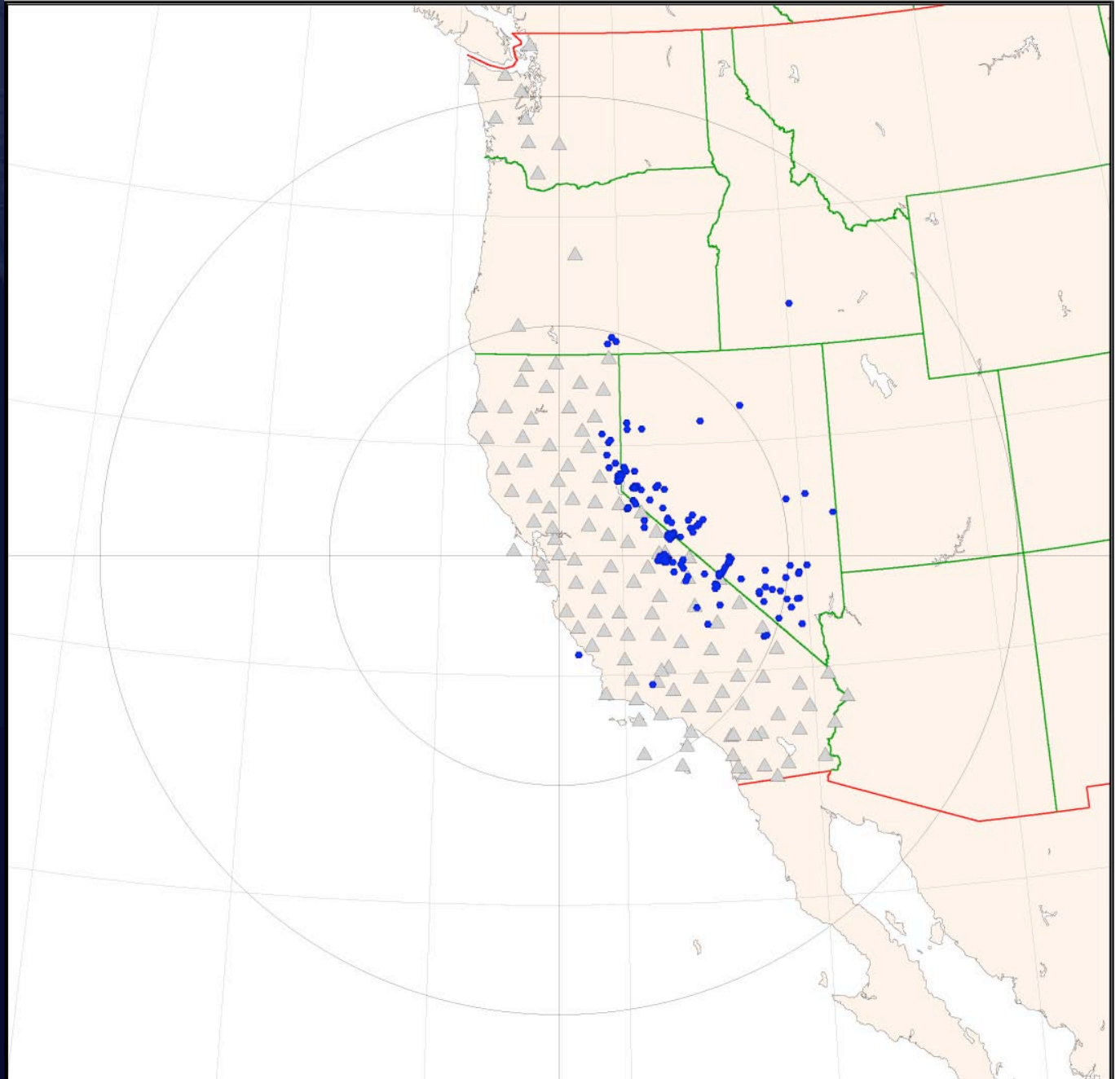


Events from NCSN bulletin  
2014 events 4/2004-11/2005



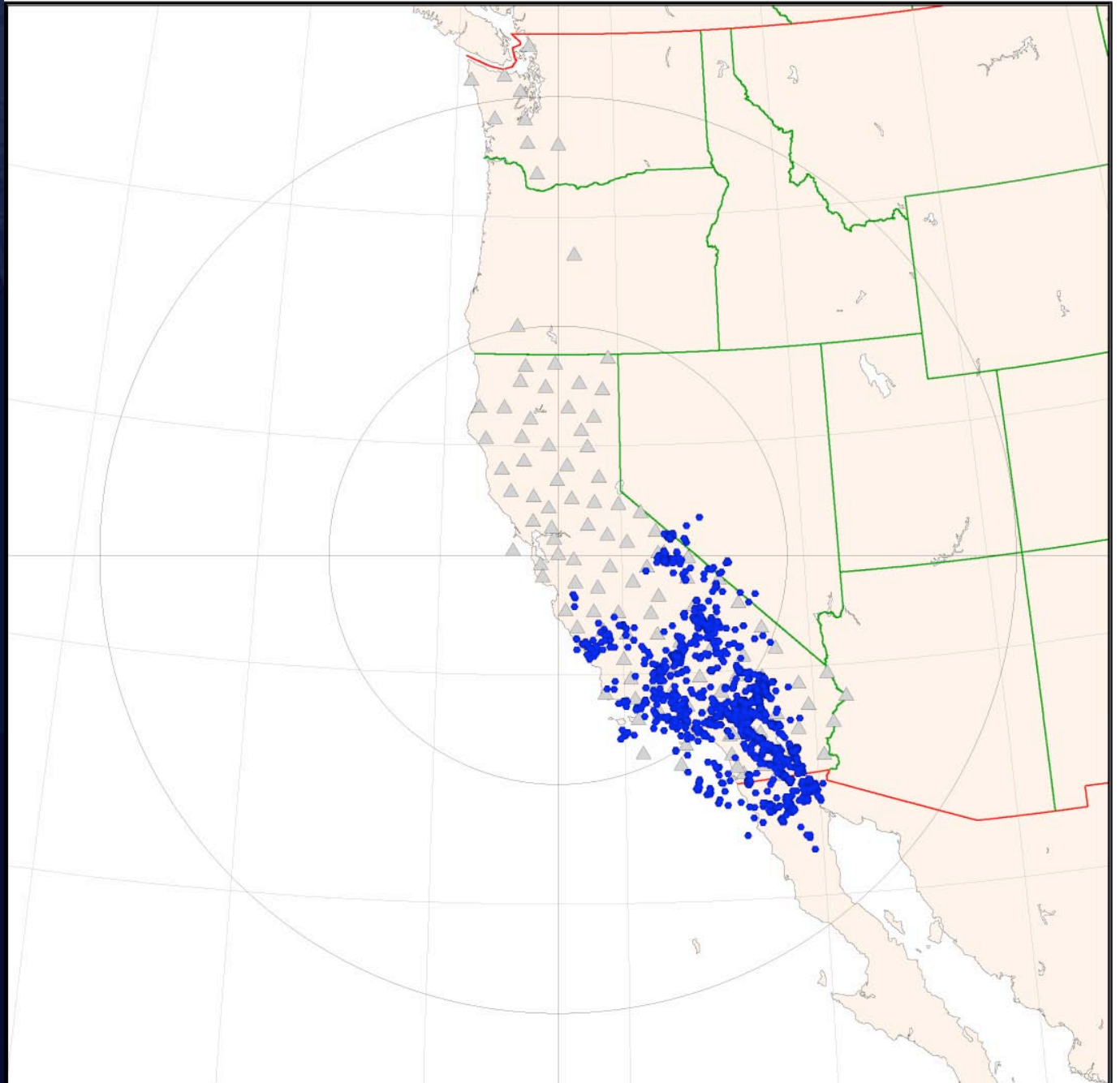
Events from UNRbulletin  
231 events 4/2004-11/2005

# UNR Regional Events Recorded on TA



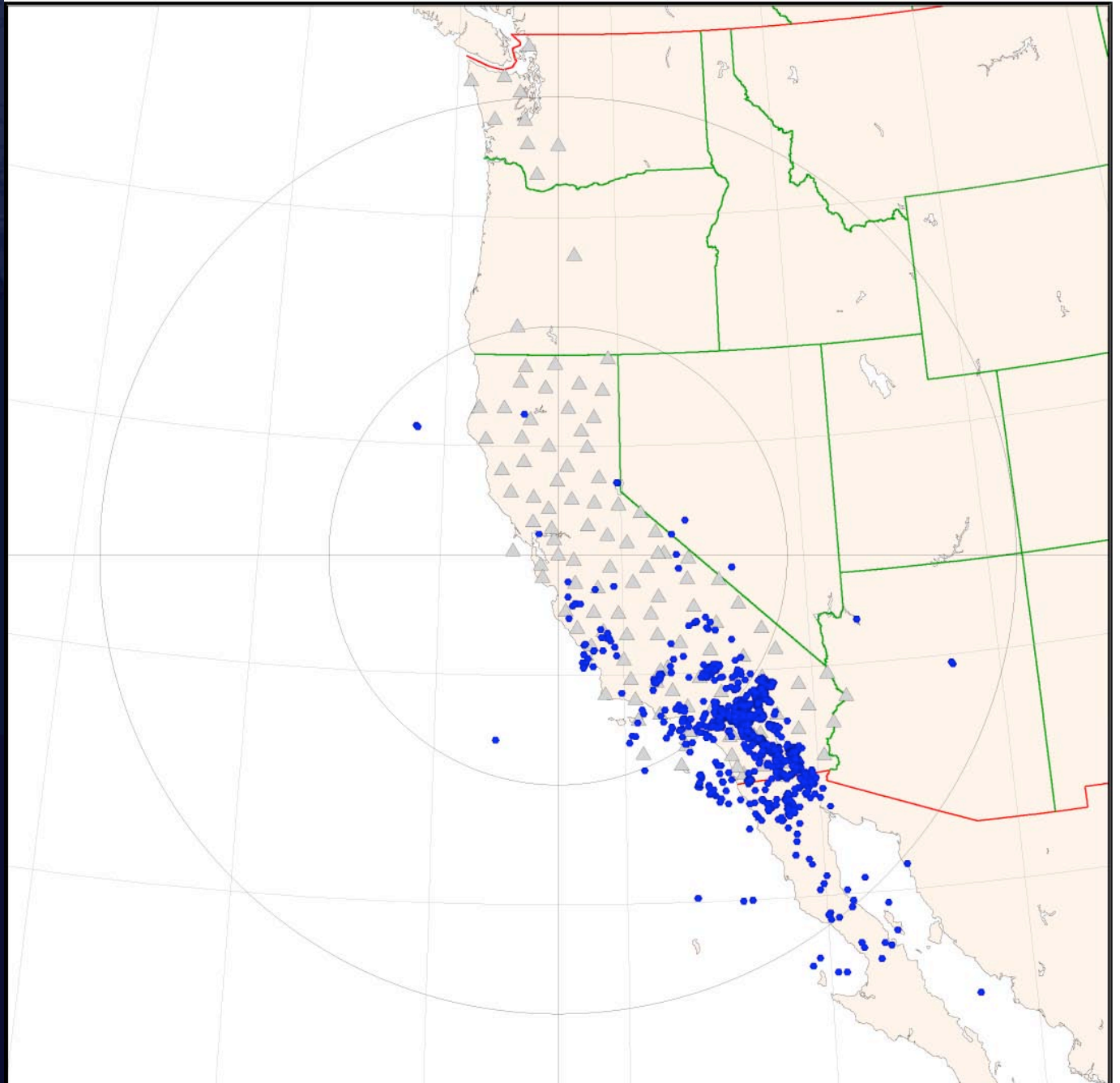
# SCSN Regional Events Recorded on TA

Events from SCEC bulletin  
3360 events 4/2004-11/2005



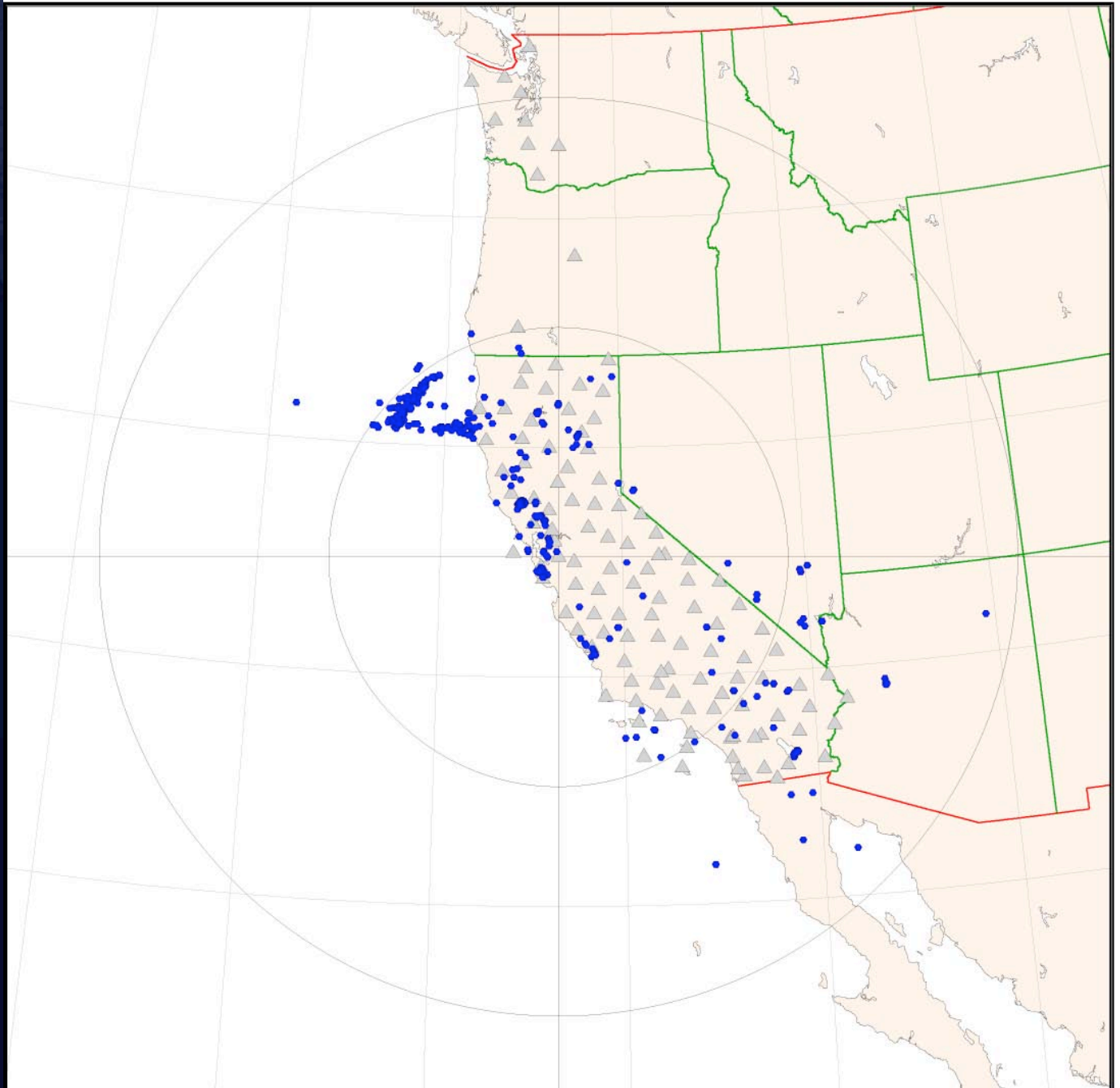
Events from Anza bulletin  
1583 events 4/2004-11/2005

# ANZA Regional Events Recorded on TA



Events with no external bulletin solution  
362 events 4/2004-11/2005

# TA only Regional Events



All events recorded by USArray Transportable Array  
4/2004 - 11/2005

# TA Regional Events

- 6700 Events
- 226758 arrivals

