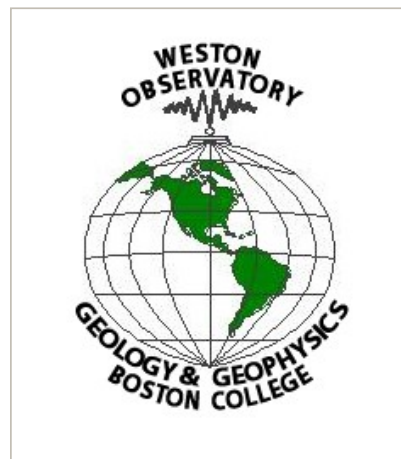
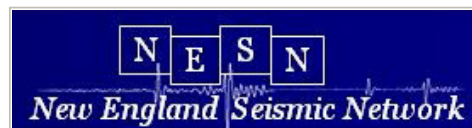


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A STUDY OF NEW ENGLAND SEISMICITY

Quarterly Earthquake Report

April - June, 2008



Weston Observatory
New England Seismic Network
381 Concord Road
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NEW ENGLAND SEISMIC NETWORK

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July, 2008

for
United States Geological Survey

Notice

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Quarterly Earthquake Report April - June, 2008

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Introduction

The New England Seismic Network (NESN) is operated by the Weston Observatory (WES) of Boston College. The mission of the NESN is to operate and maintain a regional seismic network with digital recording of seismic ground motions for the following purposes: 1) to determine the location and magnitude of earthquakes in and adjacent to New England and report felt events to public safety agencies, 2) to define the crust and upper mantle structure of the northeastern United States, 3) to derive the source parameters of New England earthquakes, and 4) to estimate the seismic hazard in the area.

This report summarizes the work of the NESN for the period April-June, 2008. It includes a brief summary of the network's equipment and operation, and a short discussion of data management procedures. A list of participating personnel is given in Table 1. There were 18 earthquakes that occurred within or near the network during this reporting period. Phase information for these earthquakes is included in this report.

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Current Network Operation and Status

The New England Seismic Network of Weston Observatory of Boston College currently consists of 12 broadband three-component and 8 analog strong-motion stations. The coordinates of the stations are given in Table 2, and maps of the weak- and strong-motion networks are shown in Figures 1 and 2, respectively. The 12 stations consist of Guralp CMG-40T three-component sensors. Ground motions recorded by these sensors are digitized at 100 sps with 16-bit resolution. Additional gain-ranging provides 126 dB dynamic range. These stations are operated in dialup mode with waveform segments of suspected events transmitted in digital mode to Weston Observatory for analysis and archiving. Weston Observatory also maintains 8 SMA-1 strong-motion instruments in New England.

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Seismicity

There were 18 earthquakes that occurred in or adjacent to the NESN during this reporting period. A summary of the location data is given in Table 3. Figure 3 shows the locations of these events. Figure 4 shows the locations of all events since the beginning of network operation in October, 1975.

Table 4 gives the station phase data and detailed hypocenter data for each event listed in Table 3. In addition to NESN data, arrival time and magnitude data sometimes are contributed for seismic stations operated by the [Geological Survey of Canada \(GSC\)](#), the [Lamont-Doherty Cooperative Seismographic Network](#), and the [US National Seismic Network](#). Final locations for this section were computed using the program HYPO78. For regional events (those too far from the NESN to obtain accurate locations and magnitudes) phase data are given for NESN stations, but the entry in Table 3 lists the hypocenter and geographic location information adopted from the authoritative network. Accordingly, the epicenter is plotted on the maps using the entry from Table 3.

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Data Management

Recent event locations are available at http://aki.bc.edu/cgi-bin/NESN/recent_events.pl. Waveform data are saved in SAC, and SEED formats and are available by contacting, Anastasia Macherides Moulis, via email. Earthquake lists can be found at www.bc.edu/research/westonobservatory/northeast/eqcatalogs/. Currently available on the Weston Observatory web page is the full catalog of northeastern U.S. earthquake activity to the present time. This will be updated as new Northeastern U.S. Seismic Network Quarterly Earthquake Reports are produced. For more information on matters discussed in this report or general earthquake information (reports, maps, catalogs, etc.) consult our web site www.bc.edu/westonobservatory or contact:

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Explanation of Tables

Table 1: List of personnel operating the NESN

Table 2: List of Seismic and Strong Motion Stations

1. Code = station name
2. Lat = station latitude, degrees north
3. Long = station longitude, degrees west
4. Elev = station elevation in meters
5. Location = geographic location
6. Operator = network operator

Table 3: Earthquake Hypocenter List

1. Date = date event occurred, Yr (year)/Mo (month)/Dy (day)
2. Time = origin time of event, Hr (hour):Mn (minute):Sec (second) in UCT (Universal Coordinated Time, same as Greenwich Mean Time)
3. Lat = event location, latitude north in degrees
4. Long = event location, longitude west in degrees
5. Depth = event depth in kilometers
6. Mn = Nuttli Magnitude
7. Mc = Coda Magnitude
8. Int = event epicentral intensity
9. Location = event geographic location

Table 4: Earthquake detailed hypocenter and phase data list

1. Geographic location
2. DATE = date event occurred, yr/mo/dy (year/month/day)
3. ORIGIN = event origin time (UCT) in hours, minutes, and seconds
4. LAT N = latitude north in degrees and minutes
5. LONG W = longitude west in degrees and minutes
6. DEPTH = event depth in kilometers
7. MN = Nuttli Lg phase magnitude with amplitude divided by period
8. MC = signal duration (coda) magnitude

WES: $2.23 \text{ Log(FMP)} + 0.12 \text{ Log(Dist)} - 2.36$ (Rosario, 1979)
 MIT: $2.21 \text{ Log(FMP)} - 1.7$ (Chaplin *et al.*, 1980)

9. ML = local magnitude

WES: calculated from Wood-Anderson seismograms (Ebel, 1982)
 GSC (Geological Survey of Canada): Richter Lg magnitude

- 10. GAP = largest azimuthal separation, in degrees, between stations
- 11. RMS = root mean square error of travel time residual in seconds
- 12. ERH = standard error of epicenter in kilometers
- 13. ERZ = standard error of event depth in kilometers
- 14. Q = solution quality of hypocenter

- A = excellent
- B = good
- C = fair
- D = poor

Table Body: earthquake phase data

- 1. STN = station name
- 2. DIST = epicentral distance in kilometers
- 3. AZM = azimuthal angle in degrees measured clockwise between true north and vector pointing from epicenter to station
- 4. Description of onset of phase arrival

I = impulsive
 E = emergent

5. R = phase

P = first P arrival
 S = first S arrival

6. M = first motion direction of phase arrival

U = up or compression
 D = down or dilatation

7. K = weight of arrival

- 0 = full weight (1.0)
- 1 = 0.75 weight
- 2 = 0.50 weight
- 3 = 0.25 weight
- 4 = no weight (0.0)

- 8. HRMN = hour and minute of phase arrival
- 9. SEC = second of phase arrival
- 10. TCAL = calculated travel time of phase in seconds
- 11. RES = travel time residual (error) of phase arrival
- 12. WT = weight of phase used in hypocentral solution
- 13. AMX = peak-to-peak ground motion, in millimicrons, of the maximum envelope amplitude of vertical-component signal, corrected for system response
- 14. PRX = period in seconds of the signal from which amplitude was measured
- 15. XMAG = Nuttli magnitude recorded at station
- 16. FMP = signal duration (coda), in seconds, measured from first P arrival
- 17. FMAG = coda magnitude recorded at station

Table 5: Microearthquakes and other non-locatable events

- 1. Date = date event occurred, Yr (year)/Mo (month)/Dy (day)
- 2. Sta = nearest station recording event
- 3. Arrival Time = phase arrival time, Hr (hour):Mn (minute):Sec (second)

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TABLE 1

WESTON OBSERVATORY PERSONNEL

Name	Position	voice phone	email address
John E. Ebel	Observatory Director, Seismologist, Principal Investigator	617-552-8319	ebel@bc.edu
Alan Kafka	Research Seismologist	617-552-8300	kafka@bc.edu
Anastasia Macherides Moulis	Seismologist, Analyst	617-552-8325	macherid@bc.edu
Dina Smith	Associate Director of Operations, Seismologist	617-552-8335	dina.smith.1@bc.edu
Michael Hagerty	New England Seismic Network Manager, Seismologist	617-552-8337	hagertmb@bc.edu
Weston Observatory		617-552-8300 617-552-8388 (FAX)	

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TABLE 2

SEISMIC STATIONS OF THE NEW ENGLAND SEISMIC NETWORK

Code	Lat	Long	Elev (m)	Location	Operator
BCX *	42.3350	-71.1705	61.0	Chestnut Hill, MA	WES
BRYW	41.9199	-71.5342	107	Smithfield, RI	WES
FFD	43.4700	-71.6539	131	Franklin Falls Dam, NH	WES
HNH	43.7051	-72.2865	180	Hanover, NH	WES
QUA2	42.2790	-72.3521	168	Belchertown, MA	WES
TRY	42.7305	-73.6658	131	Troy, NY	WES
EMMW	44.7101	-67.4580	34	Machias, ME	WES

VT1	44.3317	-72.7536	125	Waterbury, VT	WES
WES	42.3848	-71.3218	60	Weston, MA	WES
WVL	44.5648	-69.6575	85	Waterville, ME	WES
YLE	41.3165	-72.9209	10	New Haven, CT	WES
PQI	46.6701	-68.0133	175	Presque Isle, ME	WES

* = not in operation during this quarter

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TABLE 3

EARTHQUAKE HYPOCENTER LIST

DATE	TIME(UTC)	LAT	LONG	DEPTH(KM)	Mn	Mc	LOCATION
4/15/2008	06:54:17.1	44.60	-69.7	5.26	1.2	1.7	ME, 6.3KM NW OF WATERVILLE
4/15/2008	07:12:55.6	44.62	-69.68	2.51	1.8	2.2	ME, 6.7KM NW OF WATERVILLE
4/15/2008	20:00:14.0	45.17	-72.12	1.99		2.5	PQ, 26.9KM SW OF SHERBROOKE
4/19/2008	21:22:10.5	46.04	-66.12	13.58		2.8	NB, 4.5KM SW OF MINTO
4/29/2008	23:37:18.2	47.79	-66.01	0.03	2.2	2.8	NB, 19.9KM W OF PETIT ROCHER
5/06/2008	19:04:07.3	43.49	-71.53	0.04	2.2	2.4	NH, 3.7KM E OF SANBORNTON
5/13/2008	23:44:12.0	45.90	-65.75	14.53	2.5	2.9	NB, 26 KM SE OF MINTO
5/19/2008	12:59:20.7	46.66	-67.93	2.64		2.4	ME, 6KM ESE OF PRESQUE ISLE
5/24/2008	00:02:00.3	44.44	-68.14	5.63	1.1	2.4	ME, 7KM NE OF BAR HARBOR
5/28/2008	22:39:05.8	43.51	-73.50	5.00	1.8	2.7	NY, 39.9KM NNE OF SARATOGA SPRINGS
5/29/2008	04:33:13.4	44.47	-69.45	2.79	1.7	2.4	ME, 14.4KM SE OF WATERVILLE
5/30/2008	06:59:05.5	44.47	-68.13	4.41		2.4	ME, 9.1KM NE OF BAR HARBOR
6/01/2008	01:14:43.7	45.11	-74.01	5.00		2.4	PQ, 1.5KM SW OF ORMSTOWN
6/01/2008	03:42:24.9	45.62	-68.88	5.45	1.4	2.3	ME, 32KM NNE OF MILO
6/01/2008	12:35:55.4	43.71	-73.32	5.00	0.8	2.4	VT, 26.5KM WNW OF RUTLAND
6/08/2008	21:41:32.4	42.36	-65.58	0.04		2.9	ATLANTIC OCEAN, 365KM E OF BOSTON
6/11/2008	04:36:34.5	45.64	-75.42	16.82	2.4	3.2	PQ, 4KM N OF BUCKINGHAM
6/20/2008	05:28:44.90	45.88	-69.80	0.08	1.3	2.2	ME, 11.6KM NW OF SKOWHEGAN

* indicates magnitude as calculated by Lamont Doherty Earth Observatory

^ indicates magnitude as calculated by Earthquakes Canada (Natural Resources Canada)

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TABLE 4

EARTHQUAKE PHASE DATA LIST
NEW ENGLAND AND ADJACENT REGIONS
April-June, 2008

Run Hyp2000: Phase File: [26.X] Vel Mod: [12] ==> XX-File: 26.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Apr 15 13:27:36 2008 RUN LABEL=
CRUST MODEL 1: 12. NORTHWEST MAINE CRUSTAL ST

DATE	ORIGIN	LAT N	LONG W	DEPTH	MN	MC	ML	GAP	RMS	ERH	ERZ	Q
200804150654	ME, 6.3KM NW OF WATERVILLE	44-36.28	69-41.78	5.26	1.2	1.7		94	0.39	1.1	1.3	

NSTA NPHS DMIN N.XMG N.FMG
5 10 8.60 1 2

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
WVL	8.6	164	EPC0	654	18.81	1.69	1.69	-0.01	1.45	1.6	.10	1.2	28	1.0	120
			S 0	654	20.04	2.92	3.01	-0.11	1.45						
PKME	80.0	23	EPC0	654	30.63	13.51	13.00	0.49	1.38						72
			S 0	654	39.83	22.71	23.14	-0.47	1.38						
EMMW	177.9	85	EPC0	654	46.95	29.83	28.40	1.42	0.02						47
			S 0	655	7.79	50.67	50.55	0.10	1.11						
LBNH	182.1	258	EPC0	654	46.71	29.59	28.91	0.62	1.09				76	2.4	47
			S 0	655	8.04	50.92	51.46	-0.65	1.09						
MOQ	216.6	293	EPC0	654	51.79	34.67	33.17	1.36	0.06						47
			S 0	655	16.64	59.52	59.04	0.23	0.96						

Run Hyp2000: Phase File: [29.X] Vel Mod: [12] ==> XX-File: 29.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Apr 15 14:09:52 2008 RUN LABEL=
CRUST MODEL 1: 12. NORTHWEST MAINE CRUSTAL ST

DATE	ORIGIN	LAT N	LONG W	DEPTH	MN	MC	ML	GAP	RMS	ERH	ERZ	Q
200804150712	ME, 6.7KM NW OF WATERVILLE	44-37.04	69-41.09	2.51	1.8	2.2		91	0.38	1.2	2.1	

NSTA NPHS DMIN N.XMG N.FMG
8 16 9.80 2 3

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
WVL	9.8	171	EPC0	712	57.23	1.59	1.71	-0.13	1.69	4.2	.10	1.7	33	1.2	101
			S 0	712	58.63	2.99	3.04	-0.07	1.69						
PKME	78.3	23	EPC0	713	9.11	13.47	12.88	0.57	1.61				113	2.6	72
			S 0	713	18.12	22.48	22.93	-0.48	1.61						
EMMW	176.9	85	EPC2	713	23.62	27.98	28.53	-0.56	0.65	0.2	.10	2.0			72
			S 1	713	46.83	51.19	50.78	0.39	0.97						
LBNH	183.3	258	EPC0	713	25.10	29.46	29.37	0.03	1.27				109	2.7	47
			S 0	713	46.40	50.76	52.28	-1.63	0.00						
FFD	202.9	232	EPC3	713	29.42	33.78	31.78	1.98	0.00						47
			S 1	713	51.98	56.34	56.57	-0.26	0.89						
MOQ	216.9	292	EPC2	713	30.50	34.86	33.52	1.20	0.15						47
			S 2	713	55.24	59.60	59.67	-0.31	0.56						
HNH	231.5	245	EPC1	713	31.71	36.07	35.32	0.72	0.79						47

	S	2	713	59.80	64.16	62.87	1.24	0.10											
GGN 233.0	75	EPC4	713	34.76	39.12	35.50	3.61	0.00											47
	S	2	714	1.16	65.52	63.19	2.31	0.00											

Run Hyp2000: Phase File: [32.X] Vel Mod: [2] ==> XX-File: 32.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Thu Apr 17 10:51:29 2008 RUN LABEL=
CRUST MODEL 1: 2. HUGHES AND LUETGERT NH

DATE	ORIGIN	LAT N	LONG W	DEPTH	MN	MC	ML	GAP	RMS	ERH	ERZ	Q
200804152000	14.01	45-10.14	72- 7.03	1.99		2.5		120	0.26	1.1	1.8	

PQ, 26.9KM (16.7mi) SW OF SHERBROOKE

NSTA	NPHS	DMIN	N.XMG	N.FMG
7	14	19.20	0	5

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
MOQ	19.2	326	EPC0	2000	17.59	3.58	3.32	0.12	1.87				51	1.7	93
			S	1	2000	20.01	6.00	5.91	-0.16	1.40					
LBNH	104.3	171	EPC1	2000	31.47	17.46	17.47	-0.07	1.29				96	2.5	73
			S	2	2000	47.28	33.27	31.10	2.07	0.00					
MDV	155.1	214	EPC2	2000	41.01	27.00	25.43	1.55	0.00						66
			S	2	2000	58.47	44.46	45.27	-0.84	0.61					
MRHQ	182.1	297	EPC2	2000	42.92	28.91	29.54	-0.70	0.70						46
			S	2	2001	4.94	50.93	52.58	-1.78	0.00					
LONX	204.1	254	EPC1	2000	46.70	32.69	32.26	0.36	0.98				101	2.7	46
			S	2	2001	11.80	57.79	57.42	0.24	0.65					
NCB	213.6	233	EPC1	2000	47.60	33.59	33.43	0.06	0.95				109	2.7	46
			S	2	2001	13.65	59.64	59.51	-0.04	0.63					
PKME	222.2	86	EPC1	2000	48.53	34.52	34.49	0.01	0.91				122	2.8	46
			S	2	2001	13.37	59.36	61.39	-2.07	0.00					

Run Hyp2000: Phase File: [34.X] Vel Mod: [12] ==> XX-File: 34.XX

HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Apr 22 12:56:16 2008 RUN LABEL=
CRUST MODEL 1: 12. NORTHWEST MAINE CRUSTAL ST

DATE	ORIGIN	LAT N	LONG W	DEPTH	MN	MC	ML	GAP	RMS	ERH	ERZ	Q
200804192122	10.51	46- 2.54	66- 7.35	13.58		2.8		109	0.03	0.6	1.3	

NB, 4.5KM SW OF MINTO

NSTA	NPHS	DMIN	N.XMG	N.FMG
6	11	104.30	0	4

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
LMN	104.3	101	EPC1	2122	27.47	16.96	16.91	-0.01	1.45				95	2.5	95
			S	4	2122	43.04	32.53	30.10	2.32	0.00					
GGN	116.4	209	EPC1	2122	29.36	18.85	18.83	0.01	1.42				160	2.9	94
			S	4	2122	43.47	32.96	33.52	-0.58	0.00					
BATG	137.3	1	EPC1	2122	32.71	22.20	22.14	0.00	1.35				184	3.1	93
			S	4	2122	49.07	38.56	39.41	-0.96	0.00					
EMMW	181.3	216	EPC1	2122	38.52	28.01	27.98	0.02	1.20						51
			S	3	2123	0.82	50.31	49.80	0.49	0.00					
PKME	261.8	252	EPC2	2122	48.33	37.82	37.91	-0.11	0.57				136	2.9	51
			S	4	2123	23.24	72.73	67.48	5.21	0.00					
LBNH	498.8	249	EPC3	2123	17.84	67.33	67.17	0.10	0.01						51

Run Hyp2000: Phase File: [43.X] Vel Mod: [12] ==> XX-File: 43.XX

HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue May 13 13:36:52 2008 RUN LABEL=
CRUST MODEL 1: 12. NORTHWEST MAINE CRUSTAL ST

DATE	ORIGIN	LAT N	LONG W	DEPTH	MN	MC	ML	GAP	RMS	ERH	ERZ	Q
200804292337	18.15	47-47.33	66- 0.38	0.03	2.2	2.8		249	0.20	4.0	5.1	

NB, 19.9KM W OF PETIT ROCHER, FELT

NSTA	NPHS	DMIN	N.XMG	N.FMG
4	8	234.00	1	2

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
LMN	234.0	156	EPC0	2337	54.05	35.90	35.91	-0.07	1.35				110	2.8	44
			S	0	2338	22.22	64.07	63.92	0.04	1.35					
GGN	303.5	193	EPC3	2338	5.39	47.24	44.50	2.73	0.00				118	2.9	44
			S	0	2338	37.08	78.93	79.21	-0.30	0.92					
LMQ	325.7	267	EPC0	2338	5.61	47.46	47.23	0.16	0.79						44
			S	0	2338	39.69	81.54	84.07	-2.65	0.00					
EMMW	360.1	199	EPC0	2338	12.89	54.74	51.48	3.25	0.00	0.1	.19	2.2			44
			S	0	2338	50.39	92.24	91.63	0.59	0.59					

Run Hyp2000: Phase File: [41.X] Vel Mod: [2] ==> XX-File: 41.XX

HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Wed May 7 12:07:12 2008 RUN LABEL=
CRUST MODEL 1: 2. HUGHES AND LUETGERT NH

DATE	ORIGIN	LAT N	LONG W	DEPTH	MN	MC	ML	GAP	RMS	ERH	ERZ	Q
200805061904	7.27	43-29.52	71-32.10	0.04	2.2	2.4		191	0.33	1.3	3.7	

NH, 3.7KM (2.3mi) E OF SANBORNTON

NSTA	NPHS	DMIN	N.XMG	N.FMG
9	18	9.90	4	6

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
FFD	9.9	256	EPC1	1904	8.47	1.20	1.80	-0.62	1.37	20.3	.25	2.7	47	1.5	90
			S	2	1904	10.71	3.44	3.20	0.20	1.01					
HNH	65.1	292	EPC2	1904	18.09	10.82	11.16	-0.37	0.98	0.5	.20	1.8			68
			S	3	1904	26.62	19.35	19.86	-0.57	0.48					
LBNH	88.9	340	EPC0	1904	22.31	15.04	15.08	-0.10	1.90						63
			S	4	1904	35.71	28.44	26.84	1.49	0.00					
WES	124.2	171	EPC1	1904	28.15	20.88	20.81	0.06	1.34	0.9	.21	2.4	46	2.0	58
			S	3	1904	43.74	36.47	37.04	-0.59	0.42					
QUA2	150.4	207	EPC2	1904	32.25	24.98	24.87	0.08	0.84	0.2	.20	1.8			58
			S	4	1904	49.67	42.40	44.27	-1.92	0.00					
NCB	223.1	285	EPC2	1904	42.65	35.38	34.84	0.44	0.66				93	2.6	42
			S	4	1905	10.45	63.18	62.02	0.99	0.00					
PKME	266.0	41	EPC4	1904	51.67	44.40	40.14	4.24	0.00				95	2.7	42
			S	4	1905	21.50	74.23	71.45	2.75	0.00					
LONX	274.5	299	EPC2	1904	50.42	43.15	41.19	1.89	0.00				96	2.7	42
			S	4	1905	24.87	77.60	73.32	4.16	0.00					
GGN	417.3	62	EPC4	1905	24.88	77.61	58.82	18.78	0.00				86	2.9	42
			S	4	1905	47.28	100.01	104.70	-4.71	0.00					

Run Hyp2000: Phase File: [44.X] Vel Mod: [12] ==> XX-File: 44.XX

HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon May 19 14:20:26 2008 RUN LABEL=
CRUST MODEL 1: 12. NORTHWEST MAINE CRUSTAL ST

DATE ORIGIN LAT N LONG W DEPTH MN MC ML GAP RMS ERH ERZ Q
 200805132344 11.98 45-53.82 65-45.29 14.53 2.5 2.9 132 0.04 0.8 1.2
 NB, CANADA,20 KM NW OF STUDHOLM, 26 KM SE OF MINTO

NSTA NPHS DMIN N.XMG N.FMG
 7 12 73.80 2 4

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
LMN	73.8	93	EPC0	2344	24.16	12.18	12.13	-0.01	1.60						98
GGN	120.3	225	EPC0	2344	31.46	19.48	19.45	0.02	1.49						94
			S 2	2344	45.77	33.79	34.62	-0.85	0.00						
BATG	155.1	352	EPC0	2344	36.73	24.75	24.65	0.04	1.37				188	3.1	51
EMMW	187.7	226	EPC1	2344	40.72	28.74	28.68	0.05	0.93	1.0	.10	2.6	138	2.9	51
			S 2	2345	3.00	51.02	51.05	-0.05	0.62						
PQI	194.1	298	EPC1	2344	41.38	29.40	29.47	-0.10	0.91	0.5	.10	2.3	113	2.7	51
			S 2	2345	3.44	51.46	52.46	-1.05	0.00						
PKME	284.9	257	EPC0	2344	52.19	40.21	40.67	-0.48	0.07				167	3.1	51
			S 2	2345	22.53	70.55	72.39	-1.88	0.00						
LMQ	394.9	300	EPC1	2345	5.71	53.73	54.25	-0.59	0.00						51
			S 2	2345	47.80	95.82	96.56	-0.87	0.00						

Run Hyp2000: Phase File: [45.X] Vel Mod: [12] ==> XX-File: 45.XX
 HYP0INVERSE 2000 (10/2006 VERSION) RUN ON Mon May 19 14:19:11 2008 RUN LABEL=
 CRUST MODEL 1: 12. NORTHWEST MAINE CRUSTAL ST

DATE ORIGIN LAT N LONG W DEPTH MN MC ML GAP RMS ERH ERZ Q
 200805191259 20.69 46-39.39 67-55.67 2.64 2.4 346 0.11 0.0 0.0
 ME, 6KM ESE OF PRESQUE ISLE

NSTA NPHS DMIN N.XMG N.FMG
 6 12 7.70 0 3

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
PQI	7.7	286	EPC0	1259	21.95	1.26	1.37	-0.14	1.69				66	1.8	106
			S 0	1259	23.25	2.56	2.44	0.07	1.69						
BATG	157.5	63	EPC2	1259	47.49	26.80	25.44	1.30	0.00				120	2.7	72
			S 4	1260	5.61	44.92	45.28	-0.47	0.00						
PKME	187.5	216	EPC2	1259	52.13	31.44	29.87	1.55	0.00				107	2.7	47
			S 4	1260	16.19	55.50	53.17	2.30	0.00						
GGN	190.6	153	EPC3	1259	50.37	29.68	30.26	-0.59	0.00						47
			S 4	1260	17.55	56.86	53.86	2.98	0.00						
LMQ	208.3	300	EPC2	1259	53.10	32.41	32.44	-0.10	0.58						47
			S 4	1260	17.18	56.49	57.74	-1.38	0.00						
LMN	255.9	109	EPC2	1259	59.52	38.83	38.31	0.46	0.05						47
			S 4	1260	30.66	69.97	68.19	1.67	0.00						

Run Hyp2000: Phase File: [54.X] Vel Mod: [12] ==> XX-File: 54.XX
 HYP0INVERSE 2000 (10/2006 VERSION) RUN ON Thu May 29 17:31:49 2008 RUN LABEL=
 CRUST MODEL 1: 12. NORTHWEST MAINE CRUSTAL ST

DATE ORIGIN LAT N LONG W DEPTH MN MC ML GAP RMS ERH ERZ Q
 200805240002 0.25 44-26.63 68- 8.46 5.63 1.1 2.4 207 0.39 1.9 3.8
 ME, 7KM NE OF BAR HARBOR

NSTA NPHS DMIN N.XMG N.FMG
 6 12 61.80 2 1

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
EMMW	61.8	61	EPC0	2	9.90	9.65	10.11	-0.47	1.28	0.1	.09	0.9			90
			S 0	2	18.58	18.33	18.00	0.32	1.28						
WVL	121.7	276	EPC0	2	19.62	19.37	19.62	-0.26	1.17	0.1	.06	1.2			90
			S 4	2	29.46	29.21	34.92	-5.73	0.00						
GGN	128.4	53	EPC0	2	21.41	21.16	20.68	0.47	1.15						90
			S 0	2	36.69	36.44	36.81	-0.39	1.15						
PKME	128.8	316	EPC0	2	21.51	21.26	20.74	0.50	1.15				87	2.4	90
			S 0	2	37.00	36.75	36.92	-0.20	1.15						
LBNH	302.8	268	EPC0	2	44.66	44.41	43.77	0.58	0.56						51
			S 0	3	18.11	77.86	77.91	-0.16	0.56						
LMN	305.5	57	EPC0	2	44.09	43.84	44.10	-0.32	0.55						51
			S 3	3	17.18	76.93	78.50	-1.67	0.00						

Run Hyp2000: Phase File: [49.X] Vel Mod: [6] ==> XX-File: 49.XX
 HYP0INVERSE 2000 (10/2006 VERSION) RUN ON Thu May 29 15:46:55 2008 RUN LABEL=
 CRUST MODEL 1: 6. NORTHERN NY AND ADIRONDACKS

DATE ORIGIN LAT N LONG W DEPTH MN MC ML GAP RMS ERH ERZ Q
 200805282239 5.79 43-30.30 73-30.24 5.00 1.8 2.7 124 0.15 0.8 17.4
 NY, 39.9KM NNE OF SARATOGA SPRINGS

NSTA NPHS DMIN N.XMG N.FMG
 9 18 77.90 5 8

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
NCB	77.9	313	EPC1	2239	17.98	12.19	12.07	0.02	1.59				133	2.7	90
			S 4	2239	31.82	26.03	21.48	4.37	0.00						
TRY	87.0	189	EPC2	2239	19.18	13.39	13.43	-0.09	1.05	0.2	.10	1.4	121	2.6	90
			S 4	2239	27.68	21.89	23.91	-2.10	0.00						
HNH	100.8	76	EPC2	2239	20.99	15.20	15.52	-0.35	1.03	0.3	.05	1.5	135	2.7	90
			S 3	2239	36.96	31.17	27.63	3.49	0.00						
FFD	149.7	90	EPC3	2239	28.80	23.01	22.93	0.06	0.46	1.9	.10	2.7	109	2.6	90
			S 3	2239	46.58	40.79	40.82	-0.06	0.46						
LBNH	150.9	56	EPC1	2239	29.10	23.31	23.10	0.15	1.39				129	2.8	90
			S 3	2239	45.55	39.76	41.12	-1.46	0.00						
LONY	151.0	326	EPC1	2239	28.92	23.13	23.13	-0.07	1.38				123	2.7	90
			S 3	2239	47.63	41.84	41.17	0.54	0.30						
QUA2	165.5	144	EPC1	2239	31.27	25.48	25.33	0.12	1.33	0.2	.10	1.7	94	2.5	90
			S 3	2239	49.01	43.22	45.09	-1.92	0.00						
WES	217.3	124	EPC3	2239	39.96	34.17	32.61	1.55	0.00	0.0	.15	1.5	90	2.6	54
			S 4	2240	2.69	56.90	58.05	-1.16	0.00						
BINY	249.8	236	EPC2	2239	44.29	38.50	36.62	1.80	0.00						54
			S 4	2240	11.41	65.62	65.18	0.29	0.00						

Run Hyp2000: Phase File: [53.X] Vel Mod: [11] ==> XX-File: 53.XX
 HYP0INVERSE 2000 (10/2006 VERSION) RUN ON Thu May 29 15:44:17 2008 RUN LABEL=
 CRUST MODEL 1: 11. SOUTHEAST MAINE CRUSTAL MO

DATE ORIGIN LAT N LONG W DEPTH MN MC ML GAP RMS ERH ERZ Q
 200805290433 13.40 44-28.38 69-27.30 2.79 1.7 2.4 185 0.05 0.9 1.5
 ME, 14.4KM SE OF WATERVILLE

NSTA NPHS DMIN N.XMG N.FMG
 7 13 18.00 3 5

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
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WVL	18.0	291	EPC0	433	16.49	3.09	3.06	0.02	2.09	5.3	.10	2.0	34	1.3	96
			S 3	433	18.59	5.19	5.45	-0.27	0.52						
PKME	88.9	8	EPC0	433	27.87	14.47	14.44	0.01	1.97				123	2.6	72
			S 3	433	38.42	25.02	25.70	-0.72	0.03						
EMMW	160.8	79	EPC0	433	39.23	25.83	25.85	-0.03	1.69	0.1	.10	1.7	103	2.6	47
			S 1	433	59.44	46.04	46.01	0.01	1.27						
LBNH	198.7	264	EPC1	433	44.72	31.32	30.53	0.73	0.04				130	2.8	47
			S 3	434	7.92	54.52	54.34	0.07	0.37						
FFD	208.7	239	S 3	434	8.81	55.41	56.55	-1.18	0.00						47
GGN	220.3	70	EPC3	433	48.50	35.10	33.20	1.89	0.00				105	2.7	47
			S 4	434	10.94	57.54	59.10	-1.57	0.00						
WES	276.9	214	EPC2	433	52.34	38.94	40.18	-1.25	0.00	0.0	.10	1.5			47
			S 3	434	18.47	65.07	71.52	-6.47	0.00						

Run Hyp2000: Phase File: [55.X] Vel Mod: [12] ==> XX-File: 55.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Fri May 30 14:00:34 2008 RUN LABEL=
CRUST MODEL 1: 12. NORTHWEST MAINE CRUSTAL ST

DATE	ORIGIN	LAT N	LONG W	DEPTH	MN	MC	ML	GAP	RMS	ERH	ERZ	Q
200805300659	5.53 44-28.17	68-	7.82	4.41		2.4		204	0.35	1.8	2.6	

ME, 9.1KM NE OF BAR HARBOR

NSTA NPHS DMIN N.XMG N.FMG
7 14 59.70 0 2

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
EMMW	59.7	63	EPC0	659	15.23	9.70	9.83	-0.14	1.36						72
			S 0	659	23.38	17.85	17.50	0.33	1.36						
GGN	126.1	54	EPC0	659	25.83	20.30	20.37	-0.08	1.23				85	2.4	72
			S 0	659	41.45	35.92	36.26	-0.36	1.23						
PKME	127.4	315	EPC0	659	26.65	21.12	20.57	0.53	1.23				90	2.5	72
			S 0	659	41.82	36.29	36.61	-0.36	1.23						
PQI	244.8	2	EPC0	659	44.00	38.47	36.74	1.70	0.00						47
			S 0	660	11.48	65.95	65.40	0.50	0.82						
LMN	303.2	58	EPC0	659	48.32	42.79	43.96	-1.23	0.00						47
			S 0	660	23.07	77.54	78.25	-0.82	0.36						
LBNH	303.8	267	EPC0	659	49.30	43.77	44.03	-0.32	0.59						47
			S 0	660	23.89	78.36	78.37	-0.12	0.59						
FFD	303.9	250	EPC4	659	44.09	38.56	44.03	-5.49	0.00						47
			S 4	660	20.80	75.27	78.37	-3.14	0.00						

Run Hyp2000: Phase File: [60.X] Vel Mod: [6] ==> XX-File: 60.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Jun 3 11:15:41 2008 RUN LABEL=
CRUST MODEL 1: 6. NORTHERN NY AND ADIRONDACKS

DATE	ORIGIN	LAT N	LONG W	DEPTH	MN	MC	ML	GAP	RMS	ERH	ERZ	Q
200806010114	43.70 45- 6.85 74-	0.60	5.00			2.4		130	0.31	0.9	24.4	

CANADA, PQ, 1.5KM SW OF ORMSTOWN

NSTA NPHS DMIN N.XMG N.FMG
6 12 52.80 0 5

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
MNT	52.8	34	EPC0	114	51.69	7.99	8.25	-0.28	1.09						91
			S 0	114	58.06	14.36	14.68	-0.36	1.09						
LONY	71.2	220	EPC0	114	54.79	11.09	11.05	-0.03	1.07				78	2.2	90
			S 0	115	3.87	20.17	19.67	0.38	1.07						
MRHQ	87.3	350	EPC0	114	57.32	13.62	13.48	0.07	1.05				76	2.2	90
			S 0	115	8.09	24.39	23.99	0.27	1.05						
NCB	127.9	188	EPC0	115	2.87	19.17	19.62	-0.55	0.90				105	2.6	90
			S 0	115	18.53	34.83	34.92	-0.27	0.97						
MOQ	139.7	80	EPC0	115	5.32	21.62	21.41	0.07	0.95				69	2.3	90
			S 0	115	22.51	38.81	38.11	0.45	0.95						
LBNH	191.7	119	EPC0	115	15.05	31.35	29.29	2.00	0.00				80	2.5	90
			S 0	115	36.21	52.51	52.14	0.27	0.81						

Run Hyp2000: Phase File: [59.X] Vel Mod: [11] ==> XX-File: 59.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Jun 3 11:14:14 2008 RUN LABEL=
CRUST MODEL 1: 11. SOUTHEAST MAINE CRUSTAL MO

DATE	ORIGIN	LAT N	LONG W	DEPTH	MN	MC	ML	GAP	RMS	ERH	ERZ	Q
200806010342	24.94 45-37.16	68-52.64	5.45	1.4	2.3			248	0.02	1.5	1.1	

ME, 32KM NNE OF MILO

NSTA NPHS DMIN N.XMG N.FMG
3 6 51.10 1 1

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
PKME	51.1	220	EPC0	342	33.34	8.40	8.36	0.02	1.11				87	2.3	91
			S 0	342	39.85	14.91	14.88	-0.01	1.11						
EMMW	150.5	131	EPC0	342	49.07	24.13	24.14	-0.02	0.94	0.1	.10	1.4			90
			S 0	343	7.95	43.01	42.97	0.02	0.94						
GGN	170.4	108	EPC0	342	52.37	27.43	26.75	0.67	0.00						51
			S 0	343	12.58	47.64	47.61	0.01	0.89						

Run Hyp2000: Phase File: [57.X] Vel Mod: [6] ==> XX-File: 57.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Jun 3 11:12:04 2008 RUN LABEL=
CRUST MODEL 1: 6. NORTHERN NY AND ADIRONDACKS

DATE	ORIGIN	LAT N	LONG W	DEPTH	MN	MC	ML	GAP	RMS	ERH	ERZ	Q
200806011235	55.37 43-42.39	73-19.14	5.00	0.8	2.4			128	0.15	0.6	17.6	

VT, 26.5KM WNW OF RUTLAND

NSTA NPHS DMIN N.XMG N.FMG
5 10 78.50 1 3

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
NCB	78.5	293	EPC0	1236	7.65	12.28	12.16	0.02	1.04				87	2.3	90
			S 0	1236	17.23	21.86	21.64	0.04	1.04						
HNH	83.2	89	EPC0	1236	8.37	13.00	12.86	0.11	1.03	0.1	.05	0.8			90
			S 0	1236	18.35	22.98	22.89	0.04	1.03						
TRY	112.0	195	EPC0	1236	12.32	16.95	17.22	-0.32	0.98						90
			S 0	1236	26.26	30.89	30.65	0.15	0.98						
LBNH	126.5	61	EPC0	1236	14.98	19.61	19.42	0.13	0.95				86	2.4	90
			S 0	1236	29.87	34.50	34.57	-0.17	0.95						
LONY	143.2	316	EPC0	1236	18.42	23.05	21.95	1.03	0.00				91	2.5	90
			S 0	1236	33.68	38.31	39.07	-0.89	0.00						

Run Hyp2000: Phase File: [64.X] Vel Mod: [11] ==> XX-File: 64.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon Jun 16 13:25:10 2008 RUN LABEL=
CRUST MODEL 1: 11. SOUTHEAST MAINE CRUSTAL MO

DATE	ORIGIN	LAT N	LONG W	DEPTH	MN	MC	ML	GAP	RMS	ERH	ERZ	Q
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200806082141 32.40 42-21.51 65-34.78 0.04 2.0 2.9 289 0.33 12.5 11.4
 ATLANTIC OCEAN, 365KM E OF BOSTON

NSTA NPHS DMIN N.XMG N.FMG
 7 13 299.90 1 3

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
HAL	299.9	31	EPC0	2142	15.67	43.27	43.35	-0.09	1.67						44
			S 0	2142	49.75	77.35	77.16	0.17	1.67						
EMMW	302.2	331	EPC0	2142	16.52	44.12	43.63	0.48	1.64	0.1	.09	2.0	100	2.8	44
			S 0	2142	50.24	77.84	77.66	0.16	1.64						
GGN	322.4	343	EPC0	2142	16.69	44.29	46.12	-1.84	0.00				122	2.9	44
			S 0	2142	54.22	81.82	82.09	-0.29	1.42						
LMN	393.1	8	EPC0	2142	28.46	56.06	54.85	1.15	0.51				141	3.1	44
			S 0	2143	8.84	96.44	97.63	-1.30	0.30						
GBN	470.7	42	EPC0	2142	35.72	63.32	64.44	-1.13	0.14						44
			S 0	2143	20.48	108.08	114.70	-6.64	0.00						
BATG	547.9	357	EPC0	2142	45.88	73.48	73.96	-0.54	0.00						44
LBNH	556.2	295	EPC0	2142	42.59	70.19	74.98	-4.85	0.00						44
			S 0	2143	36.67	124.27	133.46	-9.30	0.00						

Run Hyp2000: Phase File: [62.X] Vel Mod: [6] ==> XX-File: 62.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon Jun 16 12:56:27 2008 RUN LABEL=
 CRUST MODEL 1: 6. NORTHERN NY AND ADIRONDACKS

DATE ORIGIN LAT N LONG W DEPTH MN MC ML GAP RMS ERH ERZ Q
 200806110436 34.50 45-38.20 75-25.19 16.82 2.4 3.2 264 0.19 1.2 1.3
 PQ, 4KM N OF BUCKINGHAM

NSTA NPHS DMIN N.XMG N.FMG
 14 28 97.90 5 4

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
MRHQ	97.9	73	EPC0	436	49.70	15.20	15.23	-0.10	1.58				194	3.1	98
			S 0	437	1.74	27.24	27.11	0.01	1.58						
MNT	141.1	95	EPC0	436	56.02	21.52	21.72	-0.22	1.45				193	3.1	95
			S 0	437	13.36	38.86	38.66	0.16	1.45						
NCB	207.7	152	EPC0	437	5.30	30.80	30.39	0.31	1.17				216	3.3	54
			S 0	437	28.50	54.00	54.09	-0.27	1.17						
MOQ	250.2	97	EPC0	437	10.52	36.02	35.63	0.25	0.98						54
			S 0	437	38.09	63.59	63.42	-0.08	0.98						
LBNH	316.5	118	EPC0	437	18.58	44.08	43.82	0.20	0.65				242	3.4	54
			S 0	437	51.08	76.58	78.00	-1.53	0.00						
HNH	328.4	129	EPC1	437	21.59	47.09	45.29	1.77	0.00	0.2	.20	2.5			54
			S 0	437	54.39	79.89	80.62	-0.78	0.00						
TRY	352.1	155	EPC1	437	23.14	48.64	48.21	0.38	0.36	0.1	.20	2.3			54
			S 0	438	0.45	85.95	85.81	0.05	0.49						
BINY	385.3	187	EPC0	437	27.99	53.49	52.32	1.09	0.00						54
			S 0	438	6.46	91.96	93.13	-1.31	0.00						
LMQ	444.5	59	EPC0	437	34.06	59.56	59.63	-0.14	0.15						54
			S 0	438	18.89	104.39	106.14	-1.88	0.00						
QUA2	447.0	145	EPC2	437	43.58	69.08	59.94	9.11	0.00	0.1	.21	2.5			54
			S 0	438	26.36	111.86	106.69	5.11	0.00						
WES	488.5	136	EPC1	437	44.48	69.98	65.06	4.91	0.00	0.1	.16	2.4			54
			S 0	438	31.21	116.71	115.81	0.89	0.00						
BRYW	518.1	141	EPC2	437	45.29	70.79	68.71	2.02	0.00	0.1	.24	2.5			54
			S 1	438	35.77	121.27	122.30	-1.14	0.00						
GGN	676.9	91	EPC0	438	1.33	86.83	88.31	-1.49	0.00						54
			S 0	439	8.76	154.26	157.19	-2.95	0.00						
BATG	742.8	72	EPC0	438	9.57	95.07	96.45	-1.44	0.00						54
			S 0	439	21.13	166.63	171.68	-5.16	0.00						

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TABLE 5

MICROEARTHQUAKES AND OTHER NON-LOCATABLE EVENTS

Date	Sta	Arrival Time
Yr/Mo/Dy		Hr:Mn:Sec
None recorded this period.		

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NESN Station Map

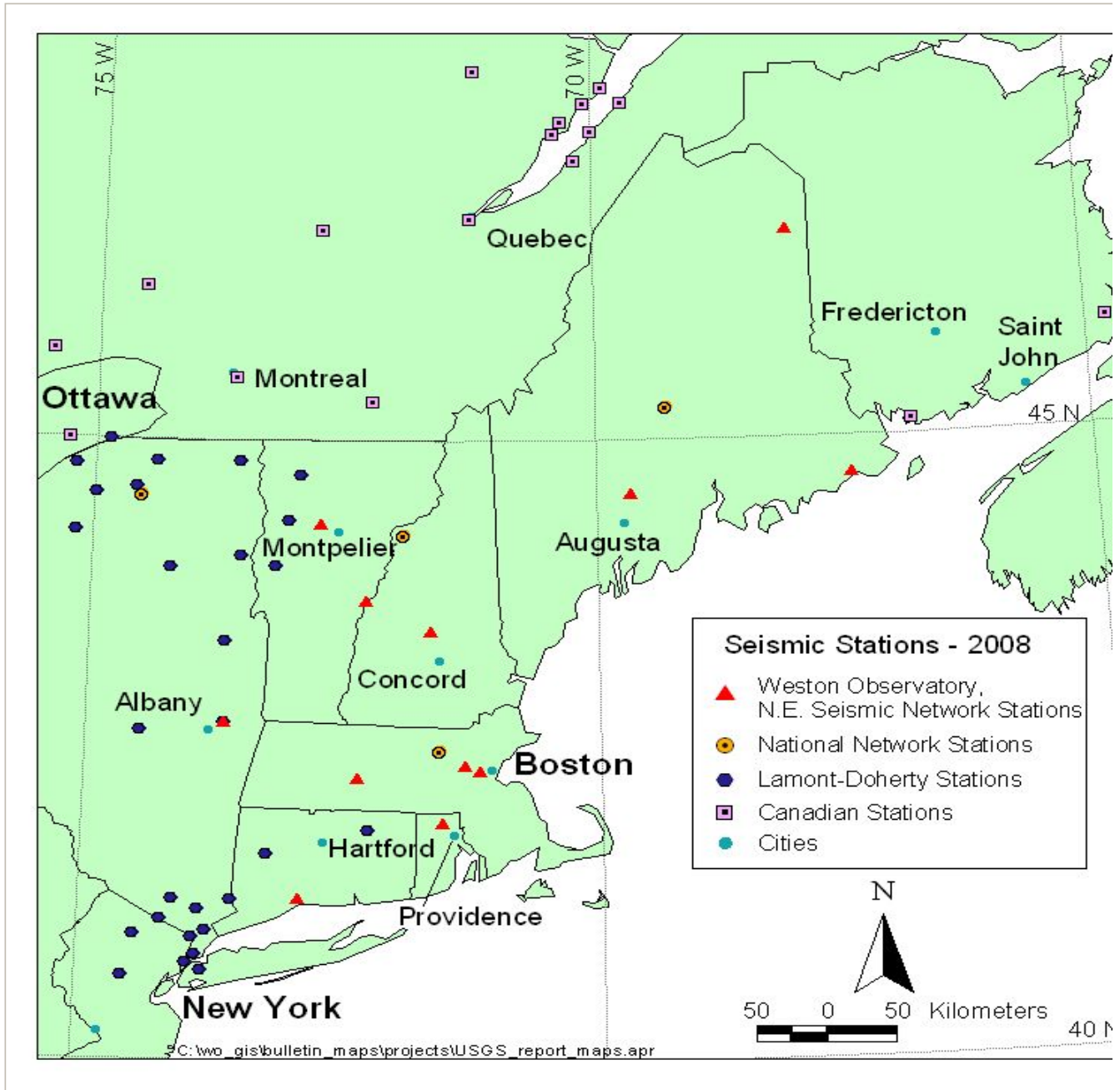


Figure 1: Map of stations of the New England Seismic Network (NESN) in operation during the period of this report. Also included are other Northeast U.S. and Canadian seismic stations in operation during this period.

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NESN Strong-Motion Station Map

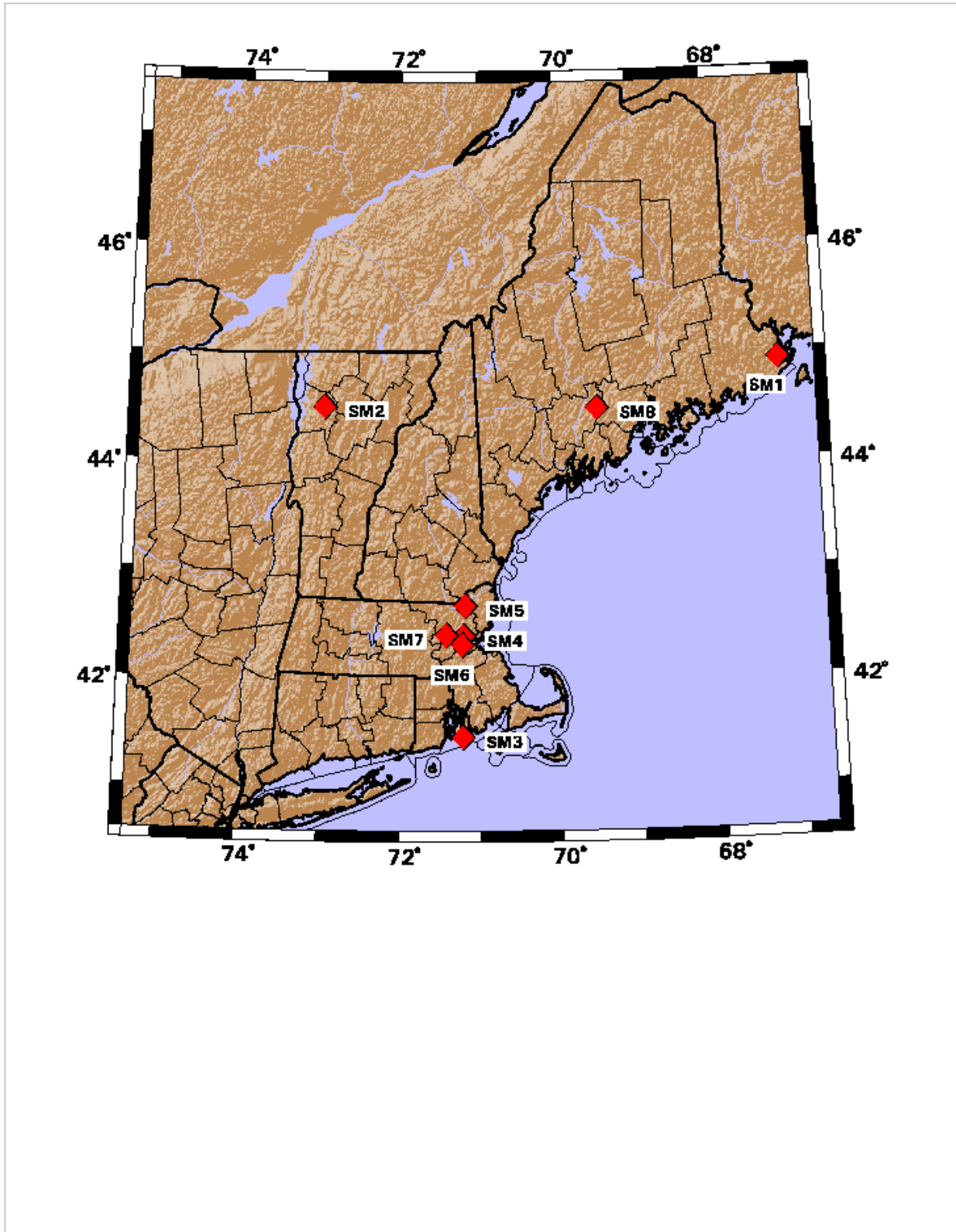


Figure 2: Map of strong-motion stations of the New England Seismic Network (NESN) in operation during the period of this report.

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NESN Quarterly Seismicity Map

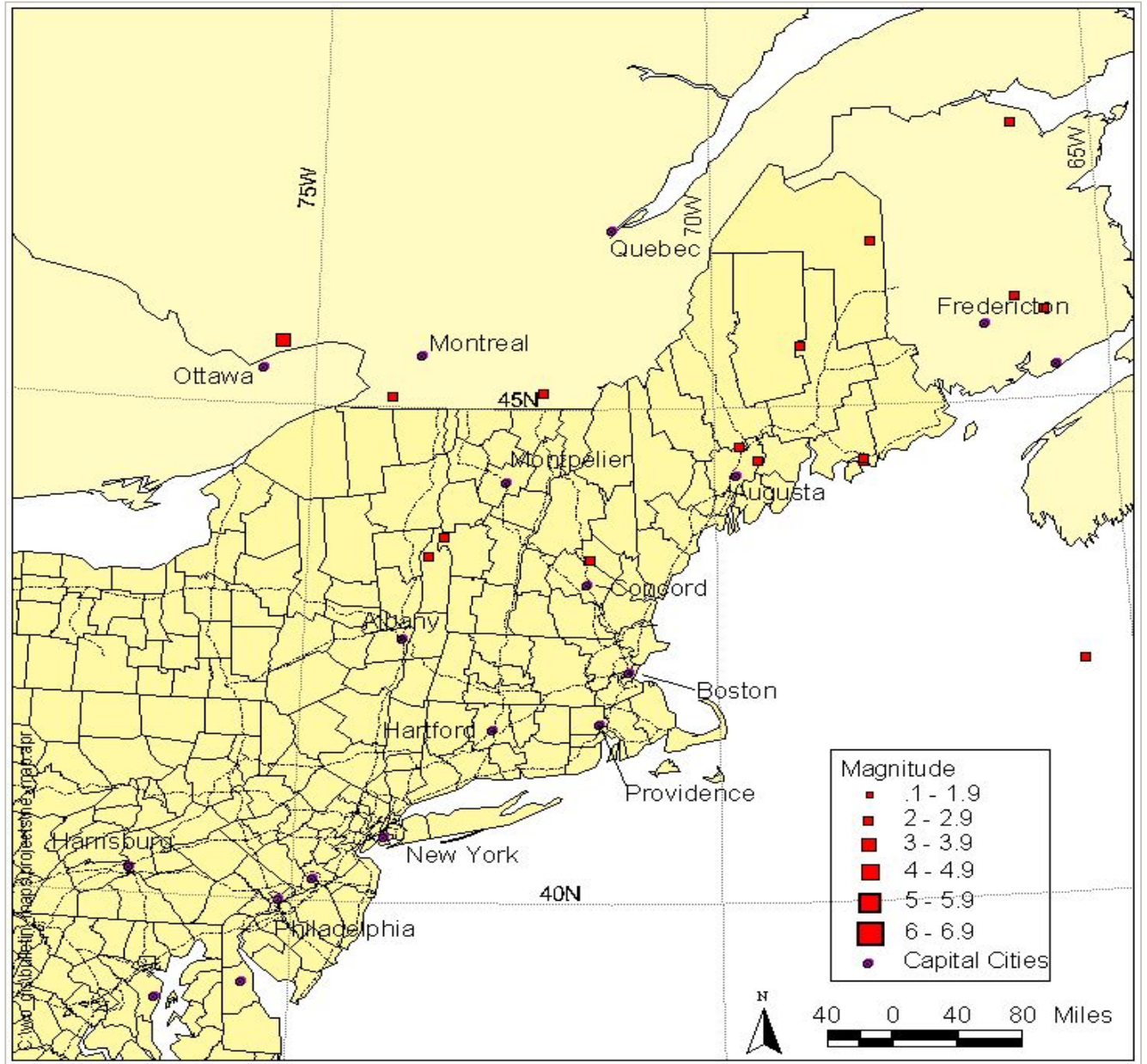


Figure 3: Earthquake epicenters located by the NESN during the period of this report.

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NESN Cumulative Seismicity Map

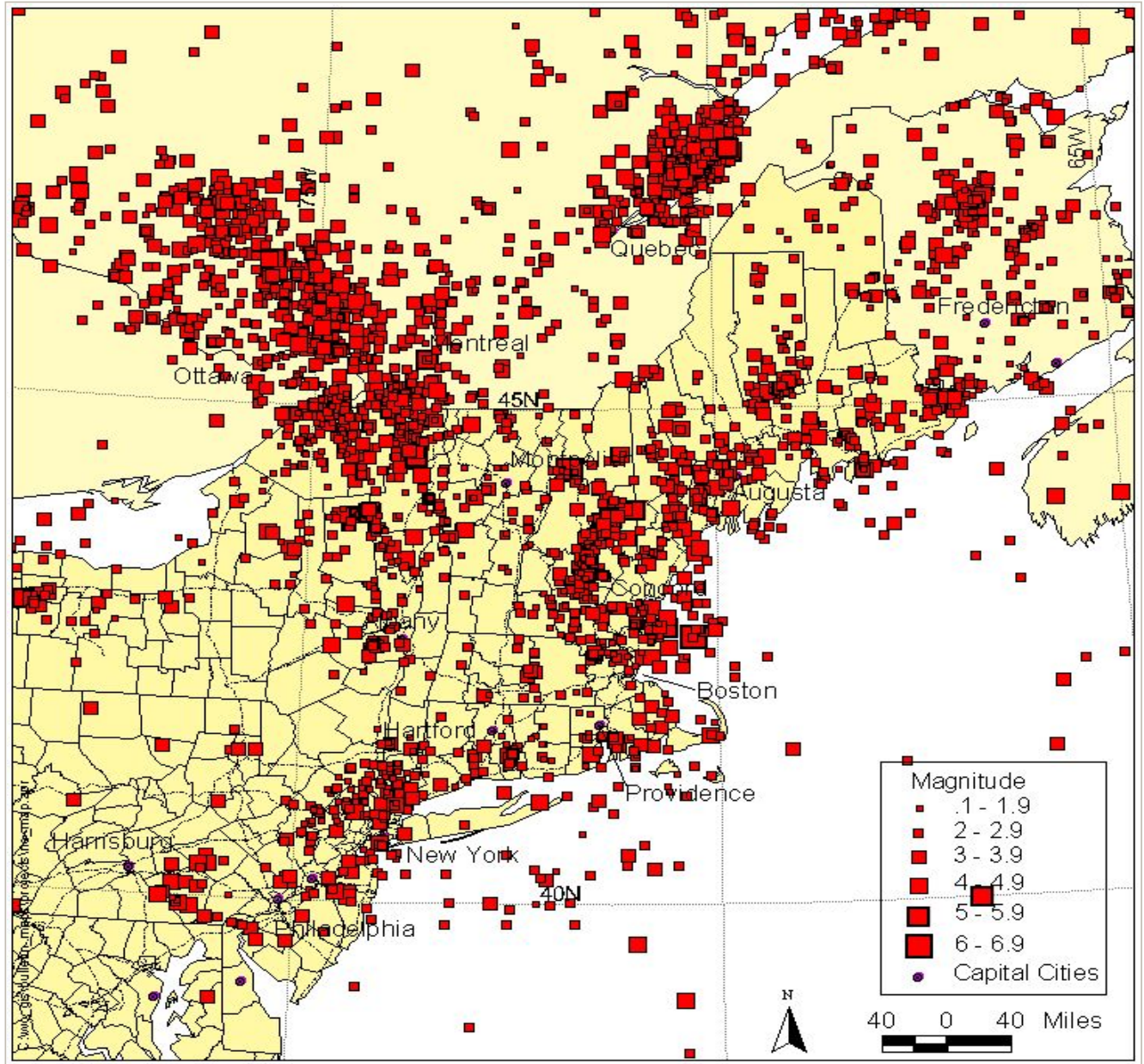


Figure 4: Seismicity for period October, 1975 - June, 2008.

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Acknowledgments

Our map database has been developed in-house using ArcView and in part basemap data provided by ESRI, Inc., USGS GTOPO30 Elevation Data, and TIGER/Line '94, '95, and '97 (US Census Bureau) spatial data.

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