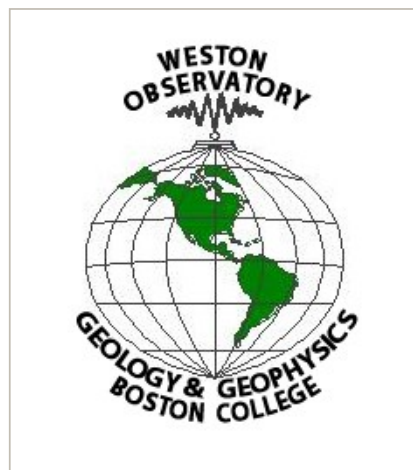


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A STUDY OF NEW ENGLAND SEISMICITY

Quarterly Earthquake Report

January - March, 2008



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

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for
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Notice

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Quarterly Earthquake Report
 January - March, 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 January - March, 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 9 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 9 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 Nanometrics, ASCII, 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

STRONG MOTION STATIONS OF THE NEW ENGLAND SEISMIC NETWORK

Code	Lat	Long	Location	Operator
SM1	44.90	-67.25	Dennysville, ME	WES
SM2	44.49	-73.10	Essex Junction, VT	WES
SM3	41.45	-71.33	Newport, RI	WES
SM4	42.38	-71.32	Weston, MA	WES
SM5	42.66	-71.30	Lowell, MA	WES
SM6	42.30	-71.34	Natick, MA	WES
SM7	42.39	-71.54	Hudson, MA	WES
SM8	44.48	-69.61	North Vassalboro, ME	WES

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TABLE 3

HYPOCENTERS FOR EARTHQUAKES IN NEW ENGLAND AND ADJACENT REGIONS
January - March, 2008

Date M/D/Y	Time (UTC) Hr:Mn:Sec	Lat	Long	Depth (km)	Mn	Mc	Int	Location
1/03/2008	09:37:55.38	47.38	-70.36	11.48	2.9	3.2		PQ, 30KM SE OF BAIE-ST-PAUL
1/10/2008	06:12:44.33	46.05	-74.82	05.00		3.0		PQ, 16KM SW OF MONT-TREMBLANT
0/10/2008	11:36:53.02	44.67	-74.66	01.85	2.3	2.6		NY, 0.6KM N OF LAKE OZONIA
01/25/2008	09:21:14.10	43.95	-70.03	11.49	1.7	2.4		ME, 5.2KM NW OF BRUNSWICK
2/27/2008	07:56:18.42	42.71	-74.38	00.08	2.3	3.0		NY, 46.8KM W OF TROY
3/03/2008	05:39:49.76	44.63	-69.13	00.04	1.9	2.1		ME, 36.8KM ENE OF WATERTVILLE
3/06/2007	03:31:36.25	43.57	-73.32	04.61	1.5	1.5		NY, 25.2KM WSW OF RUTLAND(VT)
03/09/2008	11:11:18.67	43.02	-70.36	00.31	2.8	2.7		NH, 26.2KM ESE OF PORTSMOUTH
3/11/2008	03:10:30.97	41.44	-72.48	02.86	2.0	2.3		CT, 2KM SW OF EAST HADDAM

* 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
January - March, 2008

Run Hyp2000: Phase File: [85.X] Vel Mod: [12] ==> XX-File: 85.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Jan 8 13:06:35 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
200801030937 55.38 47-22.90 70-21.77 11.48 2.9 3.2 126 0.03 0.6 0.8
CANADA, PQ, 30KM SE BAIE-SAINT-PAUL, QUEBEC

NSTA NPHS DMIN N.XMG N.FMG
14 18 18.70 1 6

STN DIST AZM RMK HRMN SEC TOBS TCAL RES WT AMX PRX XMAG FMP FMAG ANG
LMQ 18.7 8 EPC1 937 59.03 3.65 3.58 0.00 1.39 119
All 19.9 141 EPC0 937 59.12 3.74 3.74 -0.01 1.85 117
QCQ 96.4 227 EPC0 938 11.04 15.66 15.64 0.00 1.72 122 2.6 94
PQI 195.4 113 EPC3 938 25.19 29.81 29.92 -0.14 0.33 51
PKME 249.4 160 EPC0 938 32.02 36.64 36.59 0.03 1.07 246 3.4 51

MOQ	272.3	214	EPC1	938	34.98	39.60	39.42	0.04	0.71							218	3.3	51
BATG	325.6	90	EPC0	938	40.22	44.84	46.00	-1.22	0.00							208	3.3	51
			S 3	939	14.31	78.93	81.88	-3.06	0.00									
MRHQ	338.5	242	EPC0	938	42.99	47.61	47.59	-0.05	0.60									51
LBNH	369.7	200	EPC1	938	46.64	51.26	51.45	-0.25	0.34									51
GGN	371.4	131	EPC0	938	45.95	50.57	51.66	-1.10	0.00							234	3.4	51
			S 2	939	24.84	89.46	91.95	-2.51	0.00									
EMMW	372.5	141	EPC0	938	46.29	50.91	51.79	-0.89	0.00	0.4	.15	2.9	214	3.4	51			51
			S 2	939	24.70	89.32	92.19	-2.88	0.00									
LONY	448.5	229	EPC1	938	56.05	60.67	61.18	-0.58	0.00									51
LMN	458.6	109	EPC1	938	56.12	60.74	62.42	-1.74	0.00									51
			S 2	939	43.20	107.82	111.11	-3.39	0.00									
NCB	483.7	220	EPC0	939	0.51	65.13	65.52	-0.49	0.00									51

Run Hyp2000: Phase File: [87.X] Vel Mod: [6] ==> XX-File: 87.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Thu Jan 17 15:34:13 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
 200801100612 44.33 46- 3.21 74-49.21 5.00 3.0 298 0.10 1.7 15.2
 CANADA, PQ, 16KM SW OF MONT-TREMBLANT

NSTA NPHS DMIN N.XMG N.FMG
 4 6 50.60 0 4

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
MRHQ	50.6	111	EPC0	612	52.25	7.92	7.92	-0.07	1.58				199	3.0	91
			S 2	612	58.63	14.30	14.10	0.08	0.79						
MNT	111.4	122	EPC1	613	2.02	17.69	17.13	0.54	0.36				130	2.7	90
LONY	160.4	173	EPC0	613	9.01	24.68	24.55	0.06	1.30				201	3.2	90
			S 1	613	28.09	43.76	43.70	-0.06	0.97						
LBNH	304.0	130	EPC2	613	29.45	45.12	43.32	1.74	0.00				184	3.2	54

Run Hyp2000: Phase File: [88.X] Vel Mod: [6] ==> XX-File: 88.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Fri Jan 11 11:49:46 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
 200801101136 53.02 44-40.38 74-39.84 1.85 2.3 2.6 242 0.10 2.6 1.8
 NY, 0.6KM N OF LAKE OZONIA, 50KM E OF POTSDAM

NSTA NPHS DMIN N.XMG N.FMG
 4 7 8.80 1 3

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
LONY	8.8	132	EPC0	1136	54.49	1.47	1.46	-0.06	1.52				127	2.5	101
			S 1	1136	55.81	2.79	2.60	0.07	1.14						
MRHQ	139.5	14	EPC1	1137	14.75	21.73	21.51	0.15	0.97				141	2.8	67
			S 2	1137	31.24	38.22	38.29	-0.19	0.65						
HNH	218.4	118	EPC4	1137	20.72	27.70	33.07	-5.40	0.00	0.2	.20	2.1			48
LBNH	223.2	101	EPC1	1137	26.74	33.72	33.66	0.00	0.74				92	2.6	48
			S 2	1137	52.22	59.20	59.91	-0.82	0.00						

Run Hyp2000: Phase File: [89.X] Vel Mod: [11] ==> XX-File: 89.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Jan 29 14:18:31 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
 200801250921 14.10 43-57.18 70- 1.74 11.49 1.7 2.4 183 0.15 1.6 1.1
 ME, 5.2KM NW OF BRUNSWICK

NSTA NPHS DMIN N.XMG N.FMG
 8 15 70.40 3 5

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
WVL	70.4	24	EPC2	921	25.64	11.54	11.48	0.05	1.16						96
			S 3	921	34.05	19.95	20.43	-0.50	0.58						
FFD	141.5	249	EPC1	921	36.62	22.52	22.58	-0.08	1.53						51
			S 2	921	54.29	40.19	40.19	-0.04	1.02						
LBNH	155.2	283	EPC2	921	38.52	24.42	24.27	0.09	0.98						51
			S 3	921	59.02	44.92	43.20	1.61	0.00						
PKME	157.0	21	EPC0	921	38.76	24.66	24.50	0.14	1.96				116	2.7	51
			S 2	921	57.57	43.47	43.61	-0.18	0.98						
HNH	183.7	263	EPC3	921	43.11	29.01	27.79	1.19	0.00	0.1	.10	1.6	54	2.2	51
			S 3	922	5.24	51.14	49.47	1.62	0.00						
WES	203.5	212	EPC4	922	6.67	52.57	30.23	22.33	0.00	0.1	.15	1.5	31	2.2	51
EMMW	221.7	66	EPC1	921	59.09	44.99	32.48	12.50	0.00	0.2	.18	2.0	55	2.4	51
			S 3	922	11.60	57.50	57.81	-0.33	0.39						
GGN	285.9	61	EPC1	921	54.35	40.25	40.41	-0.17	0.85				94	2.7	51
			S 2	922	26.18	72.08	71.93	0.13	0.57						

Run Hyp2000: Phase File: [95.X] Vel Mod: [12] ==> XX-File: 95.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Wed Feb 27 14:18:36 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
 200802270756 18.42 42-42.72 74-22.68 0.08 2.3 3.0 128 0.85 3.0 7.2
 NY, 46.8KM W OF TROY

NSTA NPHS DMIN N.XMG N.FMG
 12 24 58.40 6 11

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
TRY	58.4	87	EPC0	756	28.16	9.74	9.83	-0.14	1.74	0.7	.10	1.7	120	2.6	71
			S 2	756	32.81	14.39	17.50	-3.20	0.00						
BINY	144.2	247	EPC0	756	41.33	22.91	23.49	-0.66	1.51				156	2.9	64
			S 2	756	56.00	37.58	41.81	-4.37	0.00						
MDV	172.8	33	EPC0	756	45.39	26.97	28.03	-1.08	1.39				178	3.1	64
			S 2	757	2.50	44.08	49.89	-5.85	0.00						
QUA2	173.4	105	EPC0	756	46.55	28.13	28.11	-0.01	1.39	0.8	.10	2.5	159	3.0	64
			S 2	757	3.04	44.62	50.04	-5.47	0.00						
HNH	202.7	56	EPC0	756	50.59	32.17	32.04	0.10	1.26	0.3	.15	2.2	166	3.0	44
			S 3	757	11.36	52.94	57.03	-4.14	0.00						
UCCT	204.8	119	EPC0	756	50.45	32.03	32.31	-0.31	1.25				145	2.9	44

Table with columns: STN, DIST, AZM, RMK, HRMN, SEC, TOBS, TCAL, RES, WT, AMX, PRX, XMAG, FMP, FMAG, ANG. Includes data for stations LONY, FFD, BRYW, WES, LBNH, MRHQ.

HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Mar 4 13:02:58 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
200803030539 49.76 44-37.52 69- 7.84 0.04 1.9 2.1 184 0.14 7.9 3.4
ME, 36.8KM ENE OF WATERVILLE

NSTA NPHS DMIN N.XMG N.FMG
7 14 43.90 5 4

Table with columns: STN, DIST, AZM, RMK, HRMN, SEC, TOBS, TCAL, RES, WT, AMX, PRX, XMAG, FMP, FMAG, ANG. Includes data for stations WV, EMMW, LBNH, FFD, HNH, WES, LMN.

Run Hyp2000: Phase File: [09.X] Vel Mod: [3] ==> XX-File: 09.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Thu Mar 6 12:34:41 2008 RUN LABEL= CRUST MODEL 1: 3. SE OF NEW YORK, HUGHES & LU

DATE ORIGIN LAT N LONG W DEPTH MN MC ML GAP RMS ERH ERZ Q
200803060331 36.25 43-34.06 73-19.37 4.61 1.5 2.2 209 0.24 1.3 17.3
NY, 25.2KM WSW OF RUTLAND, VT

NSTA NPHS DMIN N.XMG N.FMG
6 12 49.30 2 6

Table with columns: STN, DIST, AZM, RMK, HRMN, SEC, TOBS, TCAL, RES, WT, AMX, PRX, XMAG, FMP, FMAG, ANG. Includes data for stations MDV, HNH, NCB, LBNH, FFD, LONY.

Run Hyp2000: Phase File: [10.X] Vel Mod: [1] ==> XX-File: 10.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon Mar 10 12:34:16 2008 RUN LABEL= CRUST MODEL 1: 1. SOUTH & COASTAL NEW ENGLAND

DATE ORIGIN LAT N LONG W DEPTH MN MC ML GAP RMS ERH ERZ Q
200803091111 18.67 43- 1.34 70-21.87 0.31 2.8 2.7 204 0.55 4.4 6.5
NH, 26.2KM ESE OF PORTSMOUTH

NSTA NPHS DMIN N.XMG N.FMG
10 18 101.00 5 8

Table with columns: STN, DIST, AZM, RMK, HRMN, SEC, TOBS, TCAL, RES, WT, AMX, PRX, XMAG, FMP, FMAG, ANG. Includes data for stations BCX, WES, FFD, HNH, WV, QUA2, LBNH, YLE, NCB, LONY.

Run Hyp2000: Phase File: [12.X] Vel Mod: [1] ==> XX-File: 12.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Mar 11 11:59:43 2008 RUN LABEL= CRUST MODEL 1: 1. SOUTH & COASTAL NEW ENGLAND

DATE ORIGIN LAT N LONG W DEPTH MN MC ML GAP RMS ERH ERZ Q
200803110310 30.97 41-26.31 72-29.01 2.86 2.0 2.3 233 0.18 0.9 1.1
CT, 2.0KM SW OF EAST HADDAM

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
YLE	39.0	250	EPC4	310	34.20	3.23	6.52	-3.29	0.00						93
			S 3	310	40.68	9.71	11.61	-1.90	0.00						
QUA2	94.0	6	EPC2	310	46.74	15.77	15.60	0.14	1.76	0.8	.09	2.0	69	2.2	91
			S 3	310	58.50	27.53	27.77	-0.29	0.88						
BRYW	95.4	55	EPC2	310	46.73	15.76	15.84	-0.14	1.75	0.8	.14	2.1	91	2.4	91
			S 3	310	58.54	27.57	28.20	-0.73	0.07						
WES	142.6	42	EPC1	310	54.21	23.24	23.17	0.06	2.39	0.3	.10	1.9	75	2.3	66
			S 3	311	12.31	41.34	41.24	0.08	0.80						
BCX	147.6	47	EPC3	310	55.27	24.30	23.93	0.34	0.79				58	2.2	66
			S 3	311	13.41	42.44	42.60	-0.21	0.79						
TRY	173.7	327	EPC3	310	58.93	27.96	27.70	0.21	0.73						48
			S 3	311	19.51	48.54	49.31	-0.86	0.00						
FFD	235.8	16	EPC4	311	4.02	33.05	35.37	-2.34	0.00						48
			S 4	311	37.53	66.56	62.96	3.57	0.00						
HNH	252.3	3	EPC3	311	8.74	37.77	37.41	0.33	0.53				78	2.5	48
			S 4	311	39.08	68.11	66.59	1.47	0.00						
BINY	302.8	288	EPC2	311	14.29	43.32	43.65	-0.41	0.79						48
			S 4	311	46.56	75.59	77.70	-2.25	0.00						
LBNH	314.5	8	EPC2	311	15.82	44.85	45.09	-0.30	0.73						48
			S 4	311	50.11	79.14	80.26	-1.23	0.00						
NCB	315.6	334	EPC4	311	13.12	42.15	45.22	-3.17	0.00						48
			S 4	311	56.84	85.87	80.49	5.20	0.00						
LONY	392.7	335	EPC4	311	33.00	62.03	54.74	7.22	0.00						48
			S 4	312	17.20	106.23	97.44	8.67	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

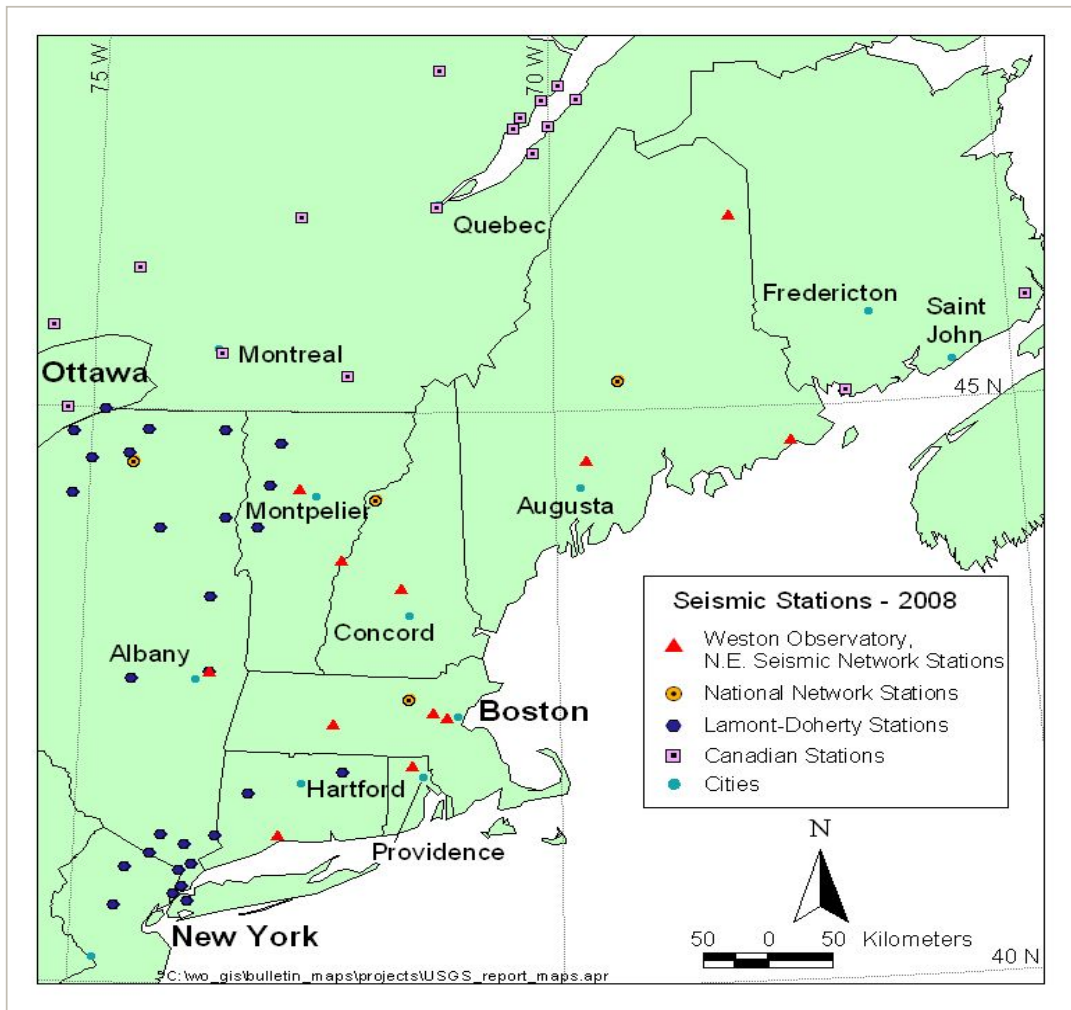


Figure 1: Map of stations of the New England Seismic Network (NESN) in operation during the period of this report. Also included are other Northeast U.S. and Canadian seismic stations in operation during this period.

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NESN Strong-Motion Station Map

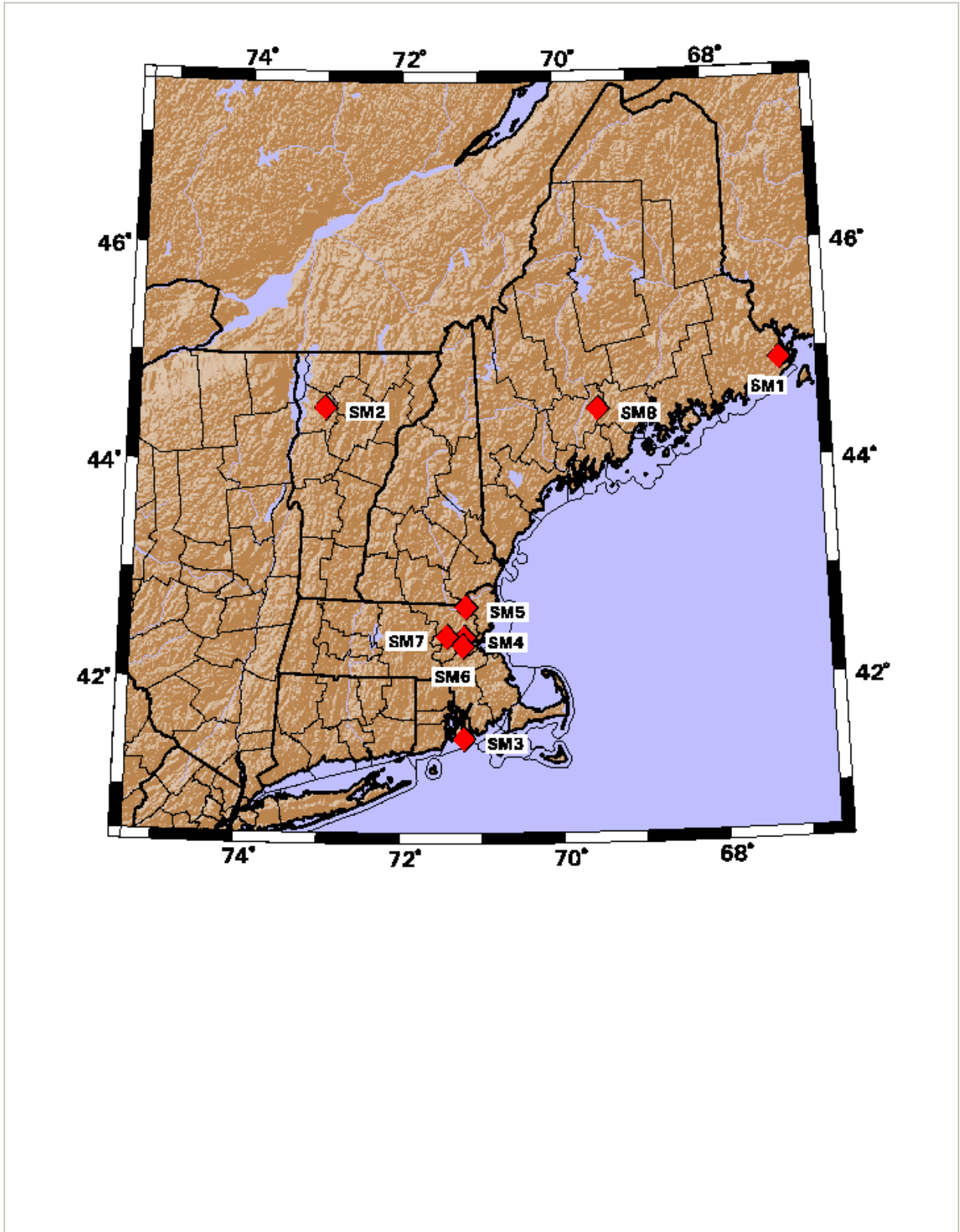


Figure 2: Map of strong-motion stations of the New England Seismic Network (NESN) in operation during the period of this report.

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NESN Quarterly Seismicity Map

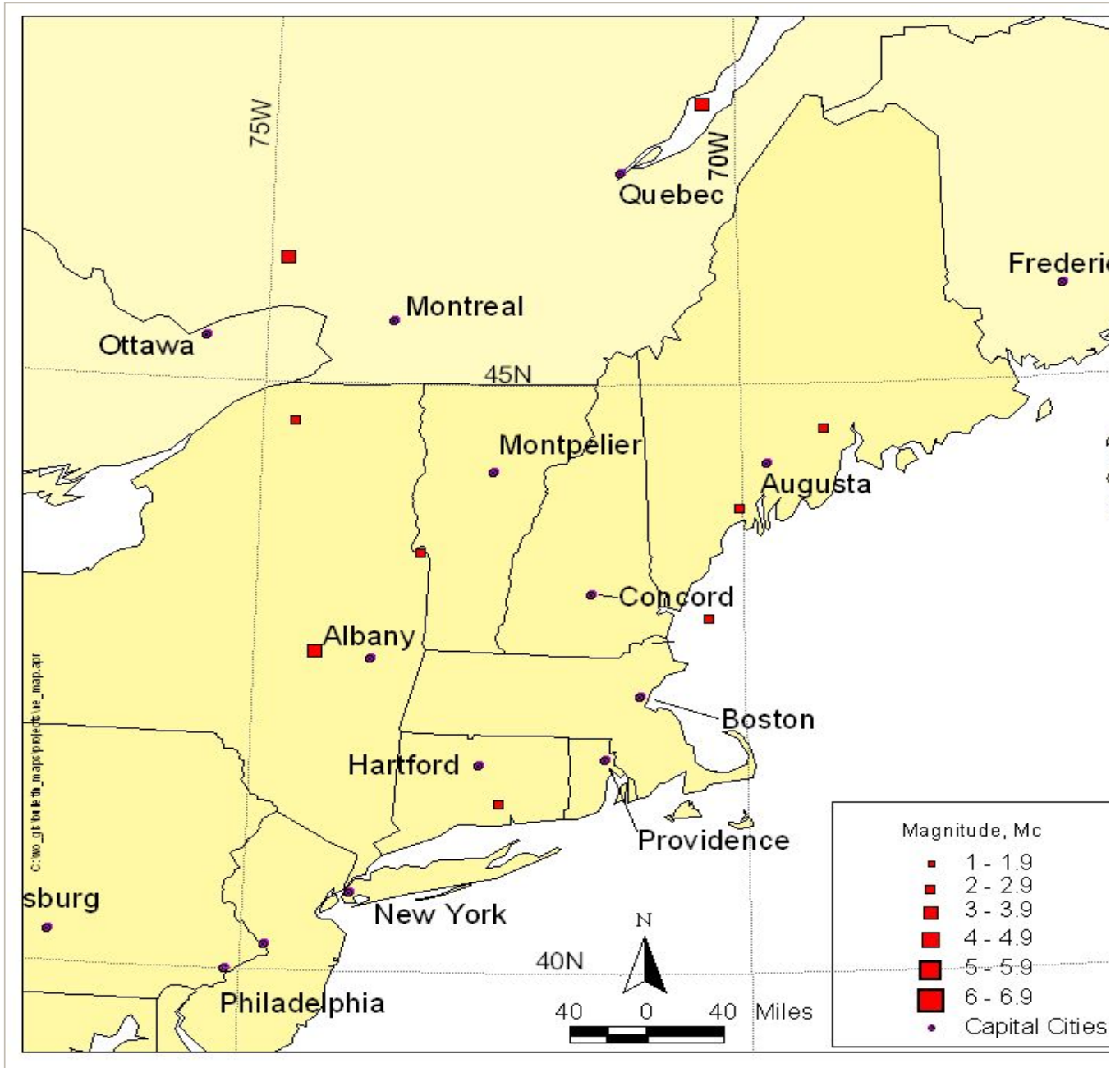


Figure 3: Earthquake epicenters located by the NESN during the period of this report.

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NESN Cumulative Seismicity Map

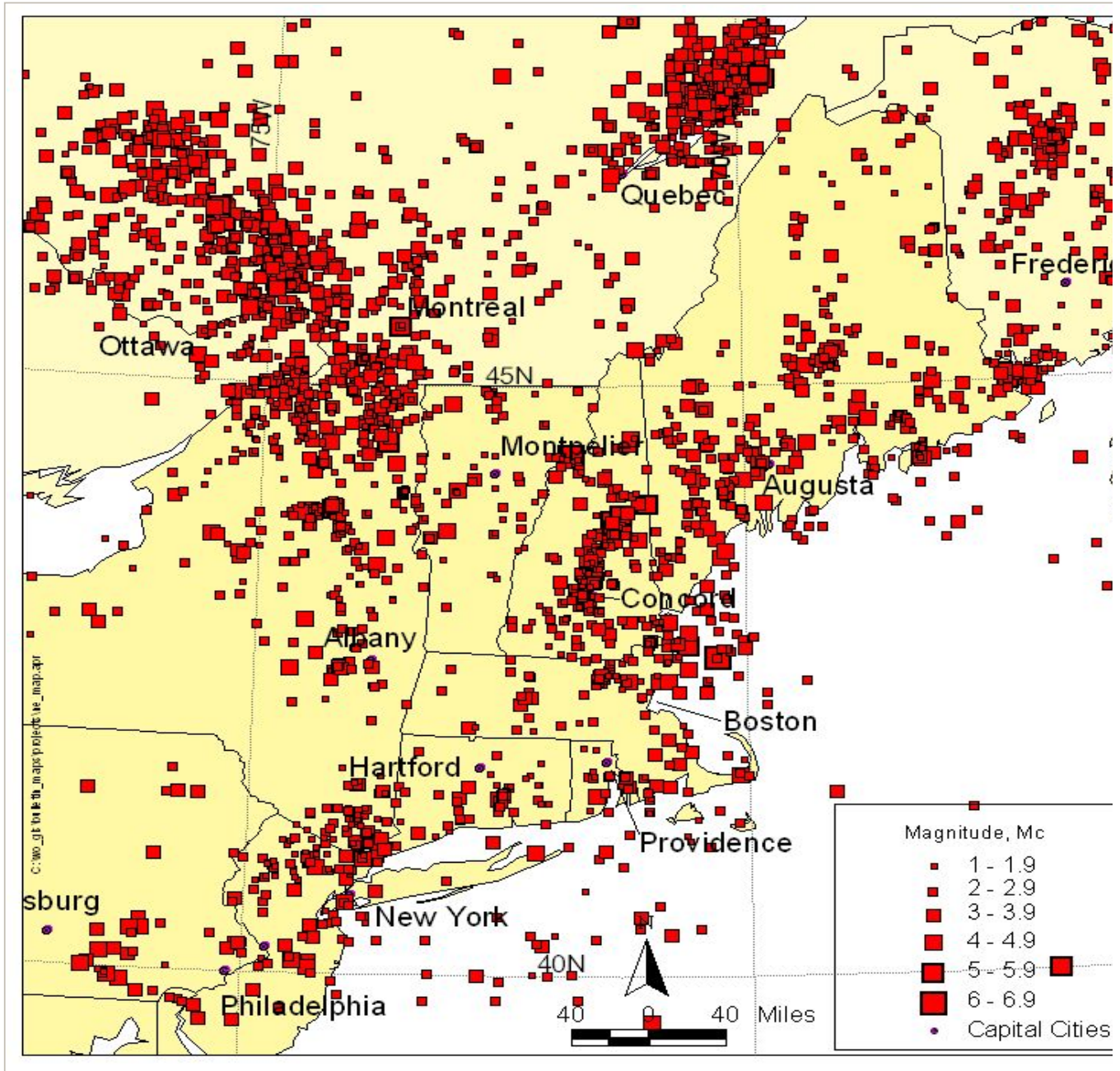


Figure 4: Seismicity for period October, 1975 - March, 2008.

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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.

References

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