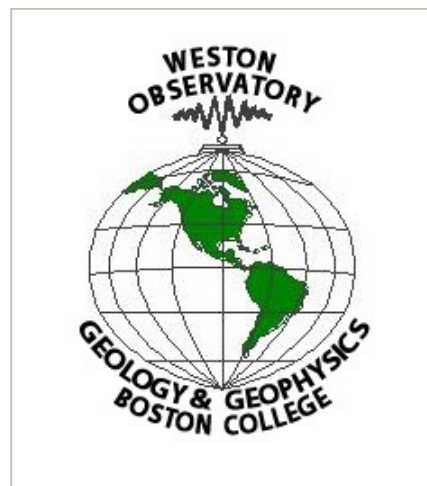


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A STUDY OF NEW ENGLAND SEISMICITY

Quarterly Earthquake Report

April-June, 2007



Weston Observatory
New England Seismic Network
381 Concord Road
Weston, MA 02493

NEW ENGLAND SEISMIC NETWORK

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Notice

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Quarterly Earthquake Report
April-June, 2007

Table of Contents

- [Introduction](#)
 - [Current Network Operation and Status](#)
 - [Seismicity](#)
 - [Data Management](#)
 - Tables
 - [Explanation of Tables](#)
 - [Table 1](#) Project Personnel
 - [Table 2](#) Seismic Stations
 - [Table 3](#) Earthquake Hypocenter List
 - [Table 4](#) Earthquake Phase Data List
 - [Table 5](#) Microearthquakes and Other Non-locatable Events
 - Figures
 - [NESN Station Map](#)
 - [NESN Strong-Motion Station Map](#)
 - [NESN Quarterly Seismicity Map](#)
 - [NESN Cumulative Seismicity Map](#)
 - [Acknowledgments](#)
 - [References](#)
-

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, 2007. 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 20 earthquakes that occurred within or near the network during this reporting period. Phase information for these earthquakes is included in this report.

[Return to Table of Contents](#)

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.

[Return to Table of Contents](#)

Seismicity

There were 20 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 HYP078. 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.

[Return to Table of Contents](#)

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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[Return to Table of Contents](#)

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 arriva l
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)

[Return to Table of Contents](#)

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)	

[Return to Table of Contents](#)

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

[Return to Table of Contents](#)

TABLE 3

NEW ENGLAND AND ADJACENT REGIONS
April-June, 2007

Date M/D/Y	Time (UTC) Hr:Mn:Sec	Lat	Long	Depth (km)	Mn	Mc	Int	Location
04/01/2007	14:25:06.78	47.18	-70.55	22.49	2.3	3.1		PQ, 20KM N OF MONTMAGNY
04/11/2007	02:32:18.83	43.37	-77.00	11.83	2.0			NY, 42KM ESE OF OSWEGO
04/15/2007	12:59:08.06	43.59	-74.10	09.31	1.3	2.2*		NY, 48KM NW OF GLENS FALLS
04/20/2007	14:44:24.98	44.90	-67.94	09.28	0.7			ME, 54KM ENE OF BANGOR
04/29/2007	14:23:25.22	44.37	-68.18	05.00	1.4	2.2		ME, 1.94KM SE OF BAR HARBOR
05/11/2007	05:55:23.08	46.73	-76.11	17.16	2.2	3.6		PQ, 30.6KM NWN OF MANIWAKI
05/14/2007	08:10:30.95	43.702	-73.25	05.61	2.5	3.0		VT, 25.6KM NW OF RUTLAND
05/19/2007	13:06:45.90	43.30	-71.77	01.99	1.8	2.1		NH, 21.3KM NW OF CONCORD
05/31/2007	01:57:46.10	47.02	-72.85	20.20	2.3	3.0*		PQ, 10.6KM NE OF RIVIERE-MATAWIN
06/01/2007	14:10:36.33	42.98	-70.96	15.87	1.4	1.7		NH, 1.38KM SW OF EXETER
06/02/2007	02:19:54.89	46.10	-74.96	12.48	2.3	3.2		PQ, 25.56KM WSW OF MONT-TREMBLANT
06/02/2007	23:56:02.55	43.00	-70.88	16.87	1.9	2.3		NH, 3.6KM NE OF EXETER
06/03/2007	02:35:06.54	42.99	-70.93	16.82	1.4	2.6		NH, 2.02KM NE OF EXETER
06/03/2007	03:08:51.08	42.94	-70.91	18.24	1.1	1.8		NH, 5.5KM SE OF EXETER
06/08/2007	04:32:56.80	44.74	-73.29	03.88	1.4	2.8		VT, 2KM N OF GRAND ISLE
06/09/2007	11:10:10.79	44.35	-68.17	02.55	1.6	2.5		ME, 4.2KM SE OF BAR HARBOR
06/11/2007	14:55:08.19	44.34	-64.65	05.85	2.6	3.1		NS, 9.8KM WSW OF BRIDGEWATER
06/21/2007	00:31:32.07	43.04	-70.96	04.09	1.0	1.6		NH, 4.86KM NNE OF EXETER
06/28/2007	06:18:10.34	40.87	-74.17	00.04	1.6	2.2		NJ, 3.9KM S OF PATERSON
06/30/2007	02:20:03.71	42.60	-74.13	17.03	1.6	2.0		NY, 21.4KM WSW OF DELMAR

* indicates magnitude as calculated by Lamont Doherty Earth Observatory

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

[Return to Table of Contents](#)

TABLE 4
 EARTHQUAKE PHASE DATA LIST
 NEW ENGLAND AND ADJACENT REGIONS
 April-June, 2006

B7401A.XX														
NORTHWEST MAINE CRUSTAL STRUCTURE														
07APR01 CANADA, PQ, 20KM (12.4MI) N OF MONTMAGNY														
DATE	ORIGIN	LAT N	LONG W	DEPTH	MN	MC	ML	GAP	RMS	ERH	ERZ	Q		
STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG
70401	1425	6.78	47-10.70	70-32.72	22.49	2.3	3.1			73	.46	1.0	1.1	C
A11	27.3	75	P 0	1425	12.69	5.91	5.67	.23	1.94					
			S 0	1425	16.85	10.07	10.09	-.04	1.94					
A54	32.5	18	PCO	1425	13.39	6.61	6.34	.21	1.92					
			S 0	1425	18.22	11.44	11.29	.05	1.92					
LMQ	44.3	22	PCO	1425	14.87	8.09	7.96	.06	1.88					
			S 0	1425	20.95	14.17	14.17	-.12	1.88					
A16	52.1	51	PDO	1425	15.97	9.19	9.08	.11	1.85					
			S 0	1425	22.85	16.07	16.17	-.10	1.85					
A61	66.8	31	P 0	1425	18.00	11.22	11.24	-.08	1.79					
			S 0	1425	26.87	20.09	20.01	-.02	1.79					
QCQ	71.1	231	P 0	1425	18.65	11.87	11.89	-.04	1.78					
			S 0	1425	27.17	20.39	21.16	-.81	1.63					
A21	87.1	48	PDO	1425	20.96	14.18	14.27	-.10	1.72					
			S 0	1425	31.66	24.88	25.40	-.53	1.66					
DAQ	101.9	329	P 0	1425	23.25	16.47	16.48	-.17	1.66					
			S 0	1425	35.84	29.06	29.34	-.56	1.61					
DPQ	178.9	252	P 0	1425	34.46	27.68	26.82	.84	1.26					
			S 0	1425	55.26	48.48	47.73	.70	1.30					
PQI	201.0	106								22	.13	2.2		
PKME	233.7	156	EP 0	1425	41.00	34.22	33.59	.61	1.14				183	3.1
			S 0	1425	65.80	59.02	59.79	-.80	1.07					
MOQ	245.8	212	P 0	1425	42.87	36.09	35.08	.87	1.01					
			S 0	1425	68.90	62.12	62.45	-.57	1.09					
CNQ	299.2	38	P 0	1425	49.19	42.41	41.67	.71	.88					
			S 3	1425	82.70	75.92	74.17	1.69	.03					
MNT	301.5	232	P 2	1425	49.65	42.87	41.96	.89	.41					
			S 2	1425	80.67	73.89	74.69	-.83	.41					
WVL	302.2	167								10	.11	2.3		
GSQ	320.9	53	P 2	1425	52.06	45.28	44.35	.92	.37					
			S 0	1425	85.42	78.64	78.94	-.31	.84					
TRQ	324.6	251	P 0	1425	51.97	45.19	44.81	.38	.83					
			S 0	1425	86.10	79.32	79.76	-.44	.83					
LBNH	343.8	198	EP 4	1425	56.60	49.82	47.18	2.58	.00					
			S 4	1425	85.20	78.42	83.99	-5.67	.00					
EMMW	364.2	139	EP 3	1425	59.40	52.62	49.70	2.91	.00	7	.13	2.3		
			S 3	1425	93.60	86.82	88.47	-1.67	.03					
MNQ	395.1	19	P 0	1426	.94	54.16	53.51	.56	.56					
			S 4	1426	39.83	93.05	95.24	-2.35	.00					
GAC	413.3	247	P 0	1426	2.18	55.40	55.76	-.36	.50					
			S 3	1426	44.73	97.95	99.25	-1.31	.06					
LONY	423.2	228	EP 3	1426	5.10	58.32	56.98	1.28	.07					
			S 2	1426	47.40	100.62	101.42	-.92	.21					
WBO	438.6	236	P 0	1426	6.36	59.58	58.88	.69	.39					
			S 3	1426	50.29	103.51	104.81	-1.31	.05					
SMQ	441.2	40	P 0	1426	6.45	59.67	59.20	.41	.40					
			S 3	1426	50.90	104.12	105.38	-1.36	.04					
NCB	457.4	219	EP 0	1426	8.00	61.22	61.21	-.08	.34					
			S 3	1426	57.30	110.52	108.95	1.40	.04					
CRLO	538.9	256	P 0	1426	18.27	71.49	71.26	.20	.04					
			S 3	1426	71.96	125.18	126.85	-1.72	.00					
EEO	652.6	265	P 0	1426	32.40	85.62	85.30	.25	.00					
			S 4	1426	95.14	148.36	151.84	-3.60	.00					
B7411A.XX														
NORTHERN NY AND ADIRONDACKS														
07APR11 NY, 42KM (26MI) ESE OF OSWEGO														
DATE	ORIGIN	LAT N	LONG W	DEPTH	MN	MC	ML	GAP	RMS	ERH	ERZ	Q		
STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG
70411	232	18.83	43-22.45	76-59.73	11.83	2.0	.0			151	.51	1.1	1.1	D
PECO	62.2	0	P 0	232	28.33	9.50	9.76	-.28	2.38					
			S 0	232	36.38	17.55	17.38	.13	2.38					
MEDO	120.7	259	P 0	232	37.21	18.38	18.58	-.23	2.09					
			S 0	232	51.86	33.03	33.07	-.10	2.09					
CTNY	128.4	58	P 3	232	37.67	18.84	19.75	-.94	.47					
			S 0	232	53.83	35.00	35.16	-.22	2.05					
WLVO	128.6	298	EP 0	232	38.34	19.51	19.78	-.28	2.05					
			S 0	232	54.42	35.59	35.20	.37	2.03					
DELO	136.6	338	P 1	232	40.22	21.39	20.98	.37	1.49					
			S 2	232	56.91	38.08	37.35	.66	.97					
STCO	177.4	264	P 0	232	45.72	26.89	27.09	-.23	1.81					
			S 0	232	67.15	48.32	48.23	.06	1.81					
PKRO	179.7	291	P 1	232	46.72	27.89	27.38	.48	1.34					
			S 0	232	67.79	48.96	48.73	.17	1.80					
WBO	227.1	37	P 2	232	52.86	34.03	33.22	.80	.74					
			S 2	232	78.93	60.10	59.14	.94	.72					
SADO	231.4	312	P 0	232	52.77	33.94	33.76	.14	1.55					
			S 2	232	79.82	60.99	60.10	.82	.73					
NCB	233.2	73	P 1	232	52.42	33.59	33.98	-.49	1.14					
			S 0	232	79.72	60.89	60.49	.22	1.54					
LONY	237.9	54	P 0	232	53.49	34.66	34.56	.03	1.52					
			S 0	232	80.84	62.01	61.52	.37	1.50					
ACTO	249.4	276	P 3	232	55.90	37.07	35.98	1.03	.32					
			S 4	232	86.15	67.32	64.04	3.17	.00					
PEMO	256.7	356	P 1	232	56.33	37.50	36.89	.58	1.05					
			S 3	232	83.52	64.69	65.66	-1.02	.32					
ACCN	269.6	90	P 0	232	57.44	38.61	38.47	.08	1.37					
			S 0	232	87.29	68.46	68.48	-.13	1.37					
TRY	280.3	105	EP 3	233	.00	41.17	39.80	1.32	.24	8	.21	1.9		
			S 0	233	29.40	70.57	70.84	-.36	1.30					
GAC	285.6	25	P 2	232	60.06	41.23	40.45	.77	.62					
CLWO	291.2	294	P 0	233	.50	41.67	41.14	.45	1.25					
			S 0	233	30.65	71.82	73.24	-1.56	.62					
CRLO	297.6	354	P 0	232	59.64	40.81	41.92	-1.14	1.04					
			S 0	232	92.92	74.09	74.63	-.59	1.20					
BUKO	299.1	320	P 4	233	3.82	44.99	42.12	2.82	.00					
			S 4	233	92.13	133.30	74.97	58.24	.00					
ALFO	301.6	34	P 3	232	59.91	41.08	42.42	-1.34	.22					
			S 3	232	93.45	74.62	75.51	-.89	.28					
FRNY	317.5	59	P 3	233	2.12	43.29	44.38	-1.13	.24					
			S 1	233	37.35									

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
ELFO	351.2	267	P	4	233	37.70	78.87	83.51	-4.70	.00					
			P	4	233	4.22	45.39	48.55	-3.21	.00					
			S	3	233	44.32	85.49	86.41	-1.01	.22					
MRHQ	356.1	38	P	3	233	6.60	47.77	49.15	-1.45	.15					
			S	3	233	44.84	86.01	87.49	-1.61	.10					
GRQ	370.2	14	P	2	233	10.58	51.75	50.90	.80	.41					
BRCO	370.7	285	S	3	233	48.80	89.97	90.70	-.82	.21					
TRQ	370.7	31	P	4	233	7.43	48.60	50.96	-2.36	.00					
			S	3	233	48.71	89.88	90.71	-.83	.21					
RSPO	371.5	324	P	0	233	10.16	51.33	51.05	.24	.87					
			S	4	233	47.81	88.98	90.87	-1.96	.00					
HNH	382.7	84	ES	3	233	56.50	97.67	93.33	4.29	.00	3	.14	2	0	
EEO	398.3	336	P	0	233	13.27	54.44	54.37	.00	.74					
			S	3	233	57.07	98.24	96.77	1.34	.12					
QUA2	398.9	108	EP	3	233	14.40	55.57	54.43	1.11	.15	11	.35	2	1	
			S	4	233	59.90	101.07	96.89	4.12	.00					
TOBO	415.8	300	P	0	233	15.39	56.56	56.52	.01	.65					
			S	0	233	59.78	100.95	100.61	.29	.65					
LBNH	419.2	77	EP	3	233	17.73	58.90	56.94	1.90	.02					
			S	4	233	68.54	109.71	101.35	8.25	.00					
FFD	432.9	89	EP	4	233	21.10	62.27	58.63	3.62	.00					
			S	4	233	71.80	112.97	104.36	8.57	.00					
PLIO	496.2	249	S	4	233	73.82	114.99	118.29	-3.34	.00					

B7415A.XX

NORTHERN NY AND ADIRONDACKS

07APR15 NY, 48KM (29.8MI) NW OF GLENS FALLS

DATE	ORIGIN	LAT N	LONG W	DEPTH	MN	MC	ML	GAP	RMS	ERH	ERZ	Q			
70415	1259	8.06	43-35.49	74-	5.82	9.31	1.3	.0	65	.32	.7	.8			
STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	
ACCN	41.6	124	P	0	1259	14.68	6.62	6.63	-.07	1.52					
			S	0	1259	19.73	11.67	11.80	-.24	1.50					
NCB	43.6	347	P	0	1259	14.79	6.73	6.92	-.30	1.50					
			S	0	1259	20.22	12.16	12.32	-.34	1.48					
TRY	101.9	160	EP	4	1259	19.84	11.78	15.71	-3.99	.00	4	.12	1	0	
			S	0	1259	35.85	27.79	27.97	-.27	1.32					
LONY	120.7	341	P	0	1259	26.54	18.48	18.56	-.15	1.28					
			S	0	1259	41.22	33.16	33.04	-.01	1.28					
CTNY	132.2	289	P	0	1259	28.45	20.39	20.30	.06	1.25					
			S	0	1259	44.63	36.57	36.13	.38	1.21					
FRNY	144.0	16	P	0	1259	30.03	21.97	22.10	-.17	1.21					
			S	0	1259	47.70	39.64	39.33	.23	1.20					
HNH	146.7	85	EP	0	1259	30.56	22.50	22.51	-.04	1.20	7	.11	1	5	
			S	0	1259	48.71	40.65	40.06	.53	1.10					
WBO	182.6	329	S	0	1259	58.31	50.25	49.74	.49	1.02					
LBNH	188.7	68	P	0	1259	37.53	29.47	28.71	.70	.87					
			S	0	1259	59.12	51.06	51.10	-.16	1.08					
QUA2	203.9	136	EP	4	1259	53.07	45.01	30.58	14.39	.00	4	.14	1	4	
			S	0	1259	63.28	55.22	54.44	.72	.79					
MPPO	217.2	307	P	0	1259	39.80	31.74	32.23	-.51	.92					
			S	3	1259	64.10	56.04	57.36	-1.36	.00					
BINY	218.9	225	P	0	1259	40.57	32.51	32.44	-.01	.99					
			S	0	1259	65.82	57.76	57.74	-.12	.99					
ALFO	234.8	345	P	0	1259	42.75	34.69	34.40	.28	.93					
			S	0	1259	69.30	61.24	61.23	.00	.94					
MOQ	240.9	37	P	0	1259	42.98	34.92	35.15	-.37	.89					
			S	0	1259	70.58	62.52	62.57	-.30	.91					
MRHQ	255.3	358	P	0	1259	45.56	37.50	36.92	.50	.82					
			S	0	1259	73.80	65.74	65.73	-.12	.88					
GAC	259.1	335	P	0	1259	45.69	37.63	37.39	.22	.86					
			S	0	1259	74.84	66.78	66.56	.20	.86					
DPQ	358.6	17	P	0	1259	57.42	49.36	49.69	-.36	.55					
			S	3	1259	95.34	87.28	88.44	-1.22	.01					
GRQ	362.7	338	S	0	1259	97.00	88.94	89.33	-.48	.53					
CRLO	376.0	316	P	3	1259	60.64	52.58	51.83	.71	.10					
			S	4	1259	69.67	61.61	92.26	-30.71	.00					

B7420A.XX

NORTHWEST MAINE CRUSTAL STRUCTURE

07APR20 ME, 54KM ENE OF BANGOR

DATE	ORIGIN	LAT N	LONG W	DEPTH	MN	MC	ML	GAP	RMS	ERH	ERZ	Q			
70420	1444	24.98	44-54.20	67-56.41	9.28	.7	.0	134	.62	3.2	4.3	D			
STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	
EMMW	43.8	119	EP	0	1444	32.27	7.29	7.29	-.01	1.39	3	.10	.4		
			S	0	1444	37.90	12.92	12.98	-.07	1.39					
GGN	91.3	75	P	0	1444	40.20	15.22	14.82	.40	1.26					
			S	0	1444	50.95	25.97	26.37	-.41	1.26					
PKME	113.7	291	P	0	1444	44.05	19.07	18.37	.69	1.19					
			S	0	1444	57.27	32.29	32.69	-.43	1.19					
WVL	143.0	253	EP	0	1444	48.20	23.22	23.02	.19	1.12	2	.09	1	1	
			S	0	1444	65.42	40.44	40.98	-.55	1.11					
LMN	267.1	67	P	0	1445	5.00	40.02	39.00	.96	.77					
			S	0	1445	33.67	68.69	69.42	-.84	.75					
BATG	301.2	29	P	2	1445	10.27	45.29	43.22	2.02	.28					
			S	2	1445	40.58	75.60	76.92	-1.43	.31					
LBNH	324.9	257	P	3	1445	15.92	50.94	46.14	4.74	.00					
			S	3	1445	52.57	87.59	82.14	5.35	.00					

Run Hyp2000: Phase File: [99.X] Vel Mod: [12] ==> XX-File: 99.XX

HYPONVERSE 2000 (10/2006 VERSION) RUN ON Thu Jun 28 11:35:45 2007 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
20070429	1423	25.22	44-22.30	68-10.79	5.00	1.4	2.2	212	0.24	1.2	2.9	

ME, 1.94KM SE OF BAR HARBOR

NSTA NPHS DMIN N.XMG N.FMG

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
EMMW	68.6	56	EPC0	1423	36.39	11.17	11.21	-0.05	1.57	0.3	.15	1.5	72	2.1	72
			S	0	1423	45.10	19.88	19.95	-0.09	1.57					
WVL	119.6	279	EPC1	1423	44.63	19.41	19.32	0.08	1.09	0.1	.11	1.4	40	1.9	72
			S	0	1423	59.27	34.05	34.39	-0.36	1.45					
PKME	132.6	319	EPC1	1423	47.86	22.64	21.37	1.25	0.00				65	2.2	72
			S	0	1424	3.37	38.15	38.04	0.08	1.41					
GGN	135.7	51	P	0	1423	47.35	22.13	21.87	0.25	1.40					72
			S	0	1424	3.75	38.53	38.93	-0.42	1.40					
LBNH	299.4	269	EPC1	1424	9.19	43.97	43.41	0.50	0.50				71	2.5	47
			S	1	1424	42.30	77.08	77.27	-0.30	0.53					
LMN	312.4	57	P	0	1424	10.47	45.25	45.02	0.17	0.65					47
			S	0	1424	43.52	78.30	80.14	-1.94	0.00					
BATG	362.5	26	P	0	1424	16.81	51.59	51.21	0.32	0.43					47
			S	0	1424	54.30	89.08	91.15	-2.18	0.00					
GSQ	511.5	8	P	0	1424	35.99	70.77	69.61	1.15	0.00					47
			S	0	1425	31.93	126.71	123.91	2.79	0.00					
GBN	539.5	75	P	0	1424	38.85	73.63	73.07	0.55	0.00					47
			S	0	1425	32.34	127.12	130.06	-2.96	0.00					

Run Hyp2000: Phase File: [58.X] Vel Mod: [6] ==> XX-File: 58.XX

HYPONVERSE 2000 (10/2006 VERSION) RUN ON Tue Jul 3 14:50:22 2007 RUN LABEL=

CRUST MODEL 1: 6. NORTHERN NY AND ADIRONDACKS

200705110555 23.08 46-43.50 76- 6.75 17.16 2.2 3.6 119 0.24 0.4 0.3
CANADA, PQ, 30.6KM NWN OF MANIWAKI
NSTA NPFS DMIN N.XMG N.FMG
54 102 23.40 2 2
STN DIST AZM RMK HRMN SEC TOBS TCAL RES WT AMX PRX XMAG FMP FMAG ANG
GRQ 23.4 124 P 0 555 27.39 4.31 4.47 -0.21 2.11 125
S 0 555 30.61 7.53 7.96 -0.52 2.11
GAC 123.7 156 P 0 555 42.45 19.37 19.10 0.26 1.87 96
S 0 555 56.96 33.88 34.00 -0.14 1.87
TRQ 132.0 114 P 0 555 43.59 20.51 20.36 0.15 1.84 96
S 0 555 59.54 36.46 36.24 0.22 1.84
PEMO 145.7 218 P 0 555 45.55 22.47 22.42 0.02 1.78 95
S 0 556 3.11 40.03 39.91 0.07 1.78
OTT 151.1 168 P 0 555 46.74 23.66 23.23 0.42 1.75 95
S 0 556 4.46 41.38 41.35 0.01 1.75
ALFO 154.5 141 P 0 555 47.14 24.06 23.74 0.32 1.74 95
S 0 556 5.55 42.47 42.26 0.21 1.74
ALGO 172.1 241 P 0 555 48.95 25.87 25.96 -0.13 1.65 54
S 0 556 9.12 46.04 46.21 -0.24 1.65
VLDQ 184.5 328 P 3 555 52.68 29.60 27.49 2.09 0.00 54
S 4 556 16.55 53.47 48.93 4.50 0.00
PLVO 201.7 203 P 0 555 52.78 29.70 29.62 0.08 1.49 54
S 0 556 15.61 52.53 52.72 -0.19 1.49
WBO 202.4 160 P 0 555 52.79 29.71 29.71 -0.01 1.49 54
S 0 556 14.71 51.63 52.88 -1.27 0.00
MSNY 215.1 152 P 0 555 54.46 31.38 31.27 0.10 1.42 54
S 0 556 18.82 55.74 55.66 0.06 1.42
MPPO 217.6 184 P 0 555 54.71 31.63 31.58 0.03 1.40 54
S 0 556 18.20 55.12 56.21 -1.13 0.00
EEO 226.8 269 P 0 555 56.14 33.06 32.71 0.28 1.35 54
S 0 556 21.45 58.37 58.22 0.02 1.35
MNT 235.6 124 P 0 555 57.00 33.92 33.80 0.10 1.30 54
S 0 556 22.83 59.75 60.16 -0.45 1.30
BANO 236.2 218 P 0 555 57.07 33.99 33.88 0.05 1.30 54
S 0 556 22.52 59.44 60.31 -0.97 0.04
DPQ 255.2 89 P 0 555 58.98 35.90 36.22 -0.35 1.18 54
S 0 556 26.74 63.66 64.47 -0.86 0.28
PTN 255.2 159 P 0 555 59.50 36.42 36.22 0.17 1.18 54
S 0 556 27.43 64.35 64.47 -0.17 1.18
LONY 262.6 152 P 0 556 0.40 37.32 37.14 0.11 1.14 54
S 0 556 27.88 64.80 66.11 -1.43 0.00
DELO 272.0 207 P 0 556 1.42 38.34 38.30 0.00 1.08 54
S 0 556 30.22 67.14 68.17 -1.11 0.00
KGNO 279.2 187 P 0 556 3.15 40.07 39.19 0.87 0.23 54
S 0 556 31.45 68.37 69.76 -1.41 0.00
FRNY 287.5 136 P 0 556 3.30 40.22 40.21 -0.03 0.99 54
S 0 556 33.55 70.47 71.57 -1.18 0.00
RSPO 289.8 257 P 0 556 3.91 40.83 40.49 0.30 0.97 54
S 0 556 34.69 71.61 72.07 -0.53 0.97
BUKO 291.5 242 P 0 556 3.72 40.64 40.70 -0.11 0.96 54
S 0 556 34.63 71.55 72.45 -0.99 0.02
CTNY 306.4 172 P 0 556 5.78 42.70 42.54 0.13 0.87 54
S 0 556 38.38 75.30 75.72 -0.47 0.87
PECO 317.8 193 P 0 556 7.09 44.01 43.95 0.04 0.81 54
S 3 556 39.65 76.57 78.23 -1.70 0.00
SADO 320.7 229 P 0 556 7.08 44.00 44.31 -0.35 0.79 54
S 0 556 40.88 77.80 78.87 -1.14 0.00
KILO 335.5 308 P 0 556 9.18 46.10 46.13 -0.08 0.70 54
S 0 556 45.50 82.42 82.11 0.22 0.70
MOQ 337.6 116 P 0 556 9.92 46.84 46.40 0.30 0.69 54
S 3 556 43.90 80.82 82.59 -2.02 0.00
NCB 339.8 153 P 0 556 9.95 46.87 46.66 0.11 0.68 54
S 0 556 45.28 82.20 83.05 -1.03 0.00
KLBO 352.1 246 P 0 556 11.19 48.11 48.18 -0.10 0.61 54
S 0 556 48.04 84.96 85.76 -0.85 0.17
WLVO 359.2 211 P 3 556 13.12 50.04 49.06 0.97 0.00 54
S 0 556 49.02 85.94 87.33 -1.40 0.00
PKRO 384.6 219 P 3 556 13.59 50.51 52.20 -1.72 0.00 54
S 3 556 54.61 91.53 92.92 -1.44 0.00
DAQ 393.1 67 P 0 556 16.78 53.70 53.25 0.29 0.40 54
S 4 556 55.27 92.19 94.78 -2.88 0.00
SUNO 400.5 271 P 3 556 16.49 53.41 54.17 -0.82 0.03 54
CLWO 413.4 234 P 2 556 18.18 55.10 55.76 -0.74 0.09 54
S 3 557 0.57 97.49 99.25 -1.91 0.00
LBNH 428.4 128 EPC4 556 27.26 64.18 57.60 6.52 0.00 54
S 4 557 11.26 108.18 102.53 5.55 0.00
TORO 429.1 218 P 4 556 23.59 60.51 57.69 2.81 0.00 54
S 3 557 4.04 100.96 102.69 -1.75 0.00
MEDO 436.7 206 P 0 556 21.57 58.49 58.63 -0.17 0.21 54
S 3 557 5.49 102.41 104.36 -2.00 0.00
A54 440.6 77 P 4 556 20.30 57.22 59.11 -1.95 0.00 54
S 4 557 6.02 102.94 105.22 -2.38 0.00
LMQ 448.6 76 P 4 556 21.48 58.40 60.10 -1.77 0.00 54
S 3 557 8.90 105.82 106.98 -1.28 0.00
HNN 450.6 136 EPC4 556 33.79 70.71 60.34 10.34 0.00 54
S 3 557 8.55 105.47 107.41 -1.99 0.00
TOBO 451.5 251 P 0 556 24.06 60.98 60.45 0.50 0.16 54
S 3 557 9.50 106.42 107.60 -1.23 0.00
MALO 455.8 325 P 3 556 23.60 60.52 60.99 -0.52 0.04 54
S 4 557 9.11 106.03 108.56 -2.62 0.00
ACTO 465.2 224 P 3 556 27.00 63.92 62.15 1.71 0.00 54
A61 469.0 74 P 0 556 25.91 62.83 62.62 0.15 0.11 54
S 4 557 11.34 108.26 111.46 -3.31 0.00
A16 471.2 77 P 0 556 27.01 63.93 62.89 1.04 0.00 54
EFO 476.3 214 P 3 556 27.58 64.50 63.52 0.95 0.00 54
A21 498.9 75 P 4 556 26.33 63.25 66.30 -3.06 0.00 54
BRCO 499.9 239 P 3 556 28.07 64.99 66.43 -1.49 0.00 54
S 4 557 18.55 115.47 118.25 -2.86 0.00
BINY 503.7 178 P 0 556 29.45 66.37 66.90 -0.61 0.03 54
FFD 504.1 134 EPC4 556 36.17 73.09 66.95 6.12 0.00 54
S 4 557 35.50 132.42 119.17 13.21 0.00
PKME 553.2 104 EPC4 556 47.29 84.21 73.02 11.17 0.00 54
S 4 557 41.10 138.02 129.98 8.01 0.00
KAPO 564.9 305 P 0 556 37.20 74.12 74.45 -0.37 0.00 54
S 4 557 31.50 128.42 132.52 -4.17 0.00
QUA2 577.6 147 EPC4 556 25.46 62.38 76.02 13.67 0.00 54
S 4 557 33.22 130.14 135.32 -5.23 0.00
Run Hyp2000: Phase File: [59.X] Vel Mod: [6] ==> XX-File: 59.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon May 21 11:25:18 2007 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
200705140810 30.95 43-42.35 73-14.95 5.61 2.5 3.0 134 0.26 1.0 2.2
VT, 25.6KM (15.9MI) NW OF RUTLAND
NSTA NPFS DMIN N.XMG N.FMG
15 30 77.60 4 9
STN DIST AZM RMK HRMN SEC TOBS TCAL RES WT AMX PRX XMAG FMP FMAG ANG

HNH	77.6	89	EPC0	810	42.76	11.81	12.01	-0.23	1.93	3.9	.10	2.6	165	2.9	91
			S 3	810	50.62	19.67	21.38	-1.76	0.00						
NCB	83.8	292	EPC0	810	44.01	13.06	12.95	0.01	1.91				161	2.9	91
			S 2	810	54.31	23.36	23.05	0.13	0.96						
FFD	131.5	100	EPC0	810	51.43	20.48	20.17	0.29	1.75						90
			S 3	811	4.19	33.24	35.90	-2.70	0.00						
LONY	147.3	315	EPC0	810	53.45	22.50	22.56	-0.13	1.69						90
			S 2	811	11.59	40.64	40.16	0.36	0.84						
QUA2	174.6	154	EPC1	810	57.60	26.65	26.70	-0.08	1.17	0.7	.05	2.4	171	3.0	90
			S 3	811	15.49	44.54	47.53	-3.04	0.00						
HRV	191.6	133	EPC0	811	0.68	29.73	29.27	0.43	1.48				177	3.1	90
			S 3	811	20.43	49.48	52.10	-2.67	0.00						
MOQ	195.2	23	EPC1	811	1.11	30.16	29.83	0.19	1.09				160	3.0	90
			S 3	811	24.69	53.74	53.10	0.39	0.36						
MNT	201.8	352	EPC1	811	1.22	30.27	30.65	-0.40	1.07				160	3.0	54
			S 3	811	25.51	54.56	54.56	-0.03	0.36						
WES	214.9	132	EPC1	811	2.23	31.28	32.27	-1.00	0.00	0.4	.15	2.4	184	3.1	54
			S 3	811	25.89	54.94	57.44	-2.52	0.00						
UCCT	228.3	158	EPC1	811	4.45	33.50	33.91	-0.44	0.96				164	3.0	54
			S 4	811	29.20	58.25	60.36	-2.16	0.00						
BRYW	243.0	144	EPC3	811	6.76	35.81	35.73	0.02	0.30	0.3	.15	2.4	180	3.1	54
			S 4	811	30.17	59.22	63.60	-4.49	0.00						
PKME	359.4	59	EPC3	811	21.59	50.64	50.10	0.52	0.13						54
			S 4	812	5.52	94.57	89.18	5.36	0.00						
All	459.8	30	EPC3	811	32.11	61.16	62.50	-1.35	0.00						54
			S 4	812	28.07	117.12	111.25	5.85	0.00						
EMMW	476.4	74	EPC3	811	36.42	65.47	64.55	0.91	0.00						54
			S 4	812	42.30	131.35	114.90	16.43	0.00						
LMQ	484.1	27	EPC4	811	32.32	61.37	65.49	-4.19	0.00						54
			S 3	812	39.35	128.40	116.57	11.70	0.00						

Run Hyp2000: Phase File: [62.X] Vel Mod: [2] ==> XX-File: 62.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Sat May 19 16:15:35 2007 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
200705191306	45.90 43	-17.51	71-45.98	1.99	1.8	2.1		136	0.08	1.2	3.6	

21.3KM (13.2MI) NW of Concord, NH
NSTA NPHS DMIN N.XMG N.FMG
8 15 21.80 3 3

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
FFD	21.8	24	EPC1	1306	49.71	3.81	3.76	0.03	1.33				78	2.1	92
			S 2	1306	51.69	5.79	6.69	-0.94	0.00						
HNH	62.3	318	EPC1	1306	56.60	10.70	10.64	0.03	1.30	0.4	.15	1.6	42	1.7	73
			S 2	1307	4.70	18.80	18.94	-0.19	0.86						
HRV	88.9	168	EPC2	1307	0.75	14.85	14.96	-0.14	0.84						73
			S 3	1307	10.82	24.92	26.63	-1.76	0.00						
LBNH	106.1	354	EPC1	1307	3.73	17.83	17.77	0.00	1.22				87	2.4	73
			S 3	1307	15.77	29.87	31.63	-1.87	0.00						
WES	107.1	160	EPC0	1307	3.81	17.91	17.92	-0.02	1.62	0.4	.10	1.8			73
			S 2	1307	16.03	30.13	31.90	-1.79	0.00						
QUA2	122.3	204	EPC1	1307	6.37	20.47	20.35	0.09	1.18	0.4	.10	1.8			66
			S 2	1307	20.52	34.62	36.22	-1.66	0.00						
UCCT	170.6	193	EPC1	1307	13.77	27.87	27.84	0.00	1.05						66
			S 3	1307	31.84	45.94	49.56	-3.67	0.00						
NCB	212.2	292	EPC2	1307	19.50	33.60	33.26	0.24	0.60						46

Run Hyp2000: Phase File: [76.X] Vel Mod: [6] ==> XX-File: 76.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon Jul 2 15:44:13 2007 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
200705310157	46.10 47-	1.02	72-51.17	20.20	2.3			152	0.35	0.9	1.8	

CANADA, PQ, 10.6KM NE OF RIVIERE-MATAWIN
NSTA NPHS DMIN N.XMG N.FMG
35 67 221.90 4 0

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
A61	221.9	69	P 0	158	18.13	32.03	31.84	0.13	2.21						54
			S 0	158	43.07	56.97	56.68	0.19	2.21						
GRQ	234.0	260	P 0	158	18.85	32.75	33.34	-0.64	2.10						54
			S 0	158	45.58	59.48	59.35	0.05	2.10						
A64	240.9	66	P 0	158	20.48	34.38	34.19	0.17	2.03						54
			S 0	158	46.83	60.73	60.86	-0.16	2.03						
FRNY	249.1	194	P 0	158	21.12	35.02	35.21	-0.23	1.95						54
			S 4	158	47.32	61.22	62.67	-1.52	0.00						
GAC	249.3	236	P 0	158	21.56	35.46	35.23	0.22	1.95						54
			S 4	158	47.00	60.90	62.71	-1.83	0.00						
A21	250.9	71	P 0	158	21.48	35.38	35.42	-0.05	1.94						54
			S 0	158	49.11	63.01	63.05	-0.06	1.94						
MSNY	273.1	216	P 0	158	25.47	39.37	38.16	1.20	1.03						54
			S 3	158	57.37	71.27	67.92	3.33	0.00						
WBO	292.3	221	P 0	158	27.42	41.32	40.54	0.77	1.54						54
			S 4	158	55.90	69.80	72.16	-2.38	0.00						
LONY	298.5	208	P 0	158	27.55	41.45	41.30	0.08	1.48						54
			S 0	159	2.49	76.39	73.51	2.75	0.00						
LBNH	317.0	166	P 0	158	29.05	42.95	43.58	-0.69	1.30						54
			S 4	159	2.02	75.92	77.57	-1.76	0.00						
PTN	318.4	213	P 0	158	29.90	43.80	43.76	0.01	1.29						54
			S 3	159	7.27	81.17	77.89	3.22	0.00						
PKME	337.2	124	P 0	158	31.87	45.77	46.08	-0.33	1.11						54
			S 0	159	7.92	81.82	82.02	-0.24	1.11						
MPPO	364.1	228	P 3	158	34.72	48.62	49.39	-0.79	0.22						54
			S 4	159	11.16	85.06	87.91	-2.89	0.00						
CRLO	364.2	255	P 4	158	33.56	47.46	49.41	-1.98	0.00						54
			S 4	159	11.94	85.84	87.95	-2.16	0.00						
VLDQ	367.1	292	P 4	158	37.95	51.85	49.77	2.06	0.00						54
			S 4	159	17.37	91.27	88.59	2.64	0.00						
WVL	371.3	136	EP 0	158	47.05	60.95	50.29	10.65	0.00	0.1	.15	2.3			54
			S 2	159	20.02	93.92	89.52	4.39	0.00						
PLVO	394.0	238	P 0	158	38.99	52.89	53.10	-0.21	0.63						54
			S 4	159	18.02	91.92	94.52	-2.60	0.00						
CTNY	401.2	214	P 0	158	40.17	54.07	53.99	0.05	0.58						54
			S 4	159	20.25	94.15	96.10	-2.01	0.00						
FFD	405.3	166	EP 0	158	40.81	54.71	54.48	0.21	0.55						54
			S 0	159	23.42	97.32	96.97	0.31	0.55						
ALGO	416.4	256	P 3	158	40.44	54.34	55.86	-1.56	0.01						54
			S 4	159	22.59	96.49	99.43	-3.01	0.00						
KGNO	420.5	224	P 3	158	41.65	55.55	56.36	-0.82	0.11						54
			S 4	159	24.82	98.72	100.32	-1.62	0.00						
CNQ	437.1	52	P 0	158	43.98	57.88	58.41	-0.56	0.34						54
			S 2	159	28.99	102.89	103.97	-1.13	0.12						
BANO	451.5	243	P 0	158	46.25	60.15	60.20	-0.11	0.26						54
			S 4	159	30.05	103.95	107.16	-3.31	0.00						
PECO	471.5	225	P 0	158	49.45	63.35	62.66	0.67	0.17						54
			S 0	159	39.81	113.71	111.53	2.14	0.00						
EEO	476.8	268	P 3	158	48.28	62.18	63.31	-1.20	0.02						54
			S 4	159	34.57	108.47	112.69	-4.35	0.00						
EMMW	491.4	119	EP 0	158	48.38	62.28	65.11	-2.84	0.00	0.0	.20	2.3			54
			S 2	159	50.60	124.50	115.90	8.59	0.00						
MNQ	492.7														

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      S 4 159 39.83 113.73 116.20 -2.63 0.00
HRV 511.6 167 EP 0 158 54.42 68.32 67.61 0.68 0.04 54
      S 1 159 55.20 129.10 120.35 8.70 0.00
QUA2 528.0 175 EP 0 158 48.38 62.28 69.63 -7.38 0.00 0.0 .14 2.3 54
      S 0 160 2.50 136.40 123.94 12.41 0.00
WES 528.9 166 EP 0 158 46.15 60.05 69.74 -9.70 0.00 0.0 .27 2.1 54
      S 0 160 3.90 137.80 124.14 13.64 0.00
RSPO 540.5 262 P 3 158 56.19 70.09 71.18 -1.13 0.00 54
SADO 548.7 246 P 2 158 57.50 71.40 72.18 -0.82 0.00 54
SMQ 576.9 49 P 4 158 58.96 72.86 75.67 -2.87 0.00 54
PKRO 593.1 238 P 2 159 4.86 78.76 77.67 1.06 0.00 54
      S 4 160 1.33 135.23 138.25 -3.08 0.00
LG4Q 740.6 354 P 0 159 20.72 94.62 95.88 -1.29 0.00 54
      S 4 160 32.93 166.83 170.67 -3.89 0.00

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Run Hyp2000: Phase File: [84.X] Vel Mod: [2] ==> XX-File: 84.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Wed Jun 6 00:10:28 2007 RUN LABEL=

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CRUST MODEL 1: 2. HUGHES AND LUETGERT NH
DATE ORIGIN LAT N LONG W DEPTH MN MC ML GAP RMS ERH ERZ Q
200706011410 36.33 42-58.50 70-57.51 15.87 1.4 1.7 178 0.09 1.8 2.0
NH, 1.38KM (0.86MI) SW OF EXETER
NSTA NPHS DMIN N.XMG N.FMG
4 8 71.60 2 1
STN DIST AZM RMK HRMN SEC TOBS TCAL RES WT AMX PRX XMAG FMP FMAG ANG
HRV 71.6 224 EPCO 1410 48.18 11.85 11.89 -0.07 1.32 94
      S 0 1410 59.01 22.68 21.16 1.46 0.00
WES 72.0 205 EPCO 1410 48.30 11.97 11.96 0.00 1.32 0.2 .10 1.3 39 1.7 94
      S 0 1410 57.63 21.30 21.29 -0.01 1.32
QUA2 138.0 237 EPCO 1410 58.72 22.39 22.18 0.18 1.18 0.1 .10 1.4 70
      S 0 1411 15.80 39.47 39.48 -0.06 1.18
PKME 287.3 27 EPCO 1411 16.40 40.07 41.04 -0.99 0.03 52
      S 0 1411 49.35 73.02 73.05 -0.07 0.64

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Run Hyp2000: Phase File: [92.X] Vel Mod: [6] ==> XX-File: 92.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon Jul 2 14:25:16 2007 RUN LABEL=

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CRUST MODEL 1: 6. NORTHERN NY AND ADIRONDACKS
DATE ORIGIN LAT N LONG W DEPTH MN MC ML GAP RMS ERH ERZ Q
200706020219 54.89 46- 5.86 74-57.60 12.48 2.3 3.2 102 0.41 0.4 0.6
CANADA, PQ, 25.56KM WSW OF MONT-TREMBLANT
NSTA NPHS DMIN N.XMG N.FMG
56 100 34.20 4 5

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STN DIST AZM RMK HRMN SEC TOBS TCAL RES WT AMX PRX XMAG FMP FMAG ANG
TRQ 34.2 65 P 0 220 0.62 5.73 5.63 0.10 1.90 107
      S 0 220 5.09 10.20 10.02 0.18 1.90
ALFO 52.5 173 P 0 220 3.36 8.47 8.32 0.15 1.88 100
      S 0 220 9.63 14.74 14.81 -0.07 1.88
GAC 59.5 223 P 0 220 4.26 9.37 9.37 -0.01 1.87 99
      S 0 220 11.17 16.28 16.68 -0.42 1.87
MRHQ 62.5 111 P 0 220 4.62 9.73 9.81 -0.15 1.86 99
      S 0 220 12.12 17.23 17.46 -0.36 1.86
GRQ 89.4 310 P 0 220 8.93 14.04 13.87 0.12 1.80 96
      S 0 220 19.64 24.75 24.69 -0.03 1.80
OTT 97.9 218 P 0 220 10.21 15.32 15.14 0.17 1.78 95
      S 0 220 21.96 27.07 26.95 0.10 1.78
MSNY 122.4 176 P 0 220 14.04 19.15 18.85 0.29 1.70 94
      S 0 220 28.29 33.40 33.55 -0.17 1.70
WBO 124.4 192 P 0 220 14.27 19.38 19.15 0.22 1.69 94
      S 0 220 29.97 35.08 34.09 0.98 1.68
LONY 166.9 169 EPCO 220 20.25 25.36 25.57 -0.28 1.52 219 3.2 93
      S 0 220 39.46 44.57 45.51 -1.07 1.44
PTN 169.8 181 P 0 220 21.25 26.36 26.01 0.32 1.51 93
      S 0 220 40.77 45.88 46.30 -0.47 1.51
FRNY 176.6 142 P 0 220 21.80 26.91 26.94 -0.07 1.48 54
      S 0 220 42.93 48.04 47.95 0.02 1.48
MPPQ 179.4 216 P 0 220 22.40 27.51 27.28 0.21 1.46 54
      S 0 220 43.68 48.79 48.56 0.20 1.46
DPQ 180.0 68 P 0 220 21.67 26.78 27.35 -0.60 1.46 54
      S 0 220 43.50 48.61 48.68 -0.13 1.46
PEMO 183.6 257 P 0 220 22.54 27.65 27.79 -0.17 1.44 54
      S 0 220 44.45 49.56 49.47 0.04 1.44
CRLO 187.4 269 P 0 220 22.84 27.95 28.26 -0.34 1.42 54
      S 0 220 43.56 48.67 50.30 -1.69 0.13
PLVO 202.7 236 P 0 220 25.53 30.64 30.16 0.48 1.35 54
      S 0 220 48.96 54.07 53.68 0.39 1.35
MOQ 228.1 111 P 0 220 29.36 34.47 33.29 1.04 1.18 54
      S 0 220 55.07 60.18 59.26 0.67 1.22
ALGO 239.9 268 P 0 220 29.16 34.27 34.74 -0.51 1.15 54
      S 0 220 55.08 60.19 61.84 -1.72 0.07
KGNO 240.3 211 P 0 220 29.47 34.58 34.80 -0.23 1.15 54
      S 0 220 56.07 61.18 61.94 -0.78 1.15
CTNY 240.6 194 P 0 220 29.80 34.91 34.83 0.05 1.15 54
      S 0 220 56.76 61.87 62.00 -0.18 1.15
NCB 243.1 165 EPCO 220 30.86 35.97 35.14 0.73 1.14 226 3.3 54
      S 0 220 58.23 63.34 62.55 0.61 1.14
BANO 260.9 244 P 0 220 32.50 37.61 37.34 0.21 1.04 54
      S 0 221 0.30 65.41 66.47 -1.16 0.90
DELO 272.6 231 P 0 220 34.42 39.53 38.78 0.71 0.98 54
      S 0 221 3.37 68.48 69.03 -0.62 0.98
PECO 289.0 215 P 0 220 35.23 40.34 40.81 -0.49 0.89 54
      S 0 221 7.83 72.94 72.64 0.26 0.89
      S 0 220 35.69 40.80 40.81 -0.03 0.89
      S 0 221 5.75 70.86 72.64 -1.82 0.01
QCQ 293.2 73 S 0 221 6.85 71.96 73.55 -1.63 0.14 54
VLDQ 293.3 321 P 0 220 38.27 43.38 41.33 2.03 0.00 54
      S 0 221 11.25 76.36 73.57 2.76 0.00
LBNH 315.5 129 EPCO 220 38.56 43.67 44.08 -0.47 0.74 193 3.2 54
      S 0 221 11.78 76.89 78.46 -1.68 0.07
EEO 322.3 283 P 0 220 40.02 45.13 44.92 0.14 0.71 54
      S 0 221 12.89 78.00 79.96 -2.08 0.00
HNN 339.6 140 EPC1 220 58.85 63.96 47.05 16.88 0.00 0.1 .47 2.4 54
      S 1 221 25.35 90.46 83.75 6.66 0.00
DAQ 350.6 52 P 0 220 42.72 47.83 48.42 -0.75 0.56 54
      S 0 221 20.62 85.73 86.19 -0.74 0.56
BUKO 353.0 260 P 0 220 41.23 46.34 48.71 -2.42 0.00 54
SADO 359.1 248 P 0 220 43.93 49.04 49.46 -0.46 0.52 54
      S 0 221 23.06 88.17 88.04 0.06 0.52
WLVO 363.1 230 P 0 220 45.26 50.37 49.95 0.41 0.50 54
      S 0 221 23.80 88.91 88.91 -0.02 0.50
RSPO 371.4 272 P 0 220 45.23 50.34 50.98 -0.68 0.46 54
      S 0 221 23.88 88.99 90.74 -1.83 0.00
A54 378.9 64 P 0 220 47.47 52.58 51.90 0.62 0.42 54
      S 0 221 24.93 90.04 92.38 -2.45 0.00
A11 386.1 69 P 0 220 45.14 50.25 52.80 -2.56 0.00 54
TRY 388.1 164 EPC1 220 30.38 35.49 53.04 17.60 0.00 0.1 .21 2.4 54
      S 1 221 31.86 96.97 94.41 2.47 0.00
LMQ 388.7 63 EPC0 220 51.79 56.90 53.12 3.71 0.00 174 3.2 54
      S 0 221 28.84 93.95 94.55 -0.73 0.38
      P 0 220 47.10 52.21 53.12 -0.98 0.38

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S 0 221 28.90 94.01 94.55 -0.67 0.38
FFD 392.1 136 EPC0 220 58.75 63.86 53.54 10.30 0.00 54
S 1 221 36.59 101.70 95.30 6.36 0.00
A16 408.1 66 P 0 220 51.62 56.73 55.50 1.23 0.23 54
A61 411.5 62 P 0 220 56.79 61.90 55.92 5.92 0.00 54
KLBO 417.3 261 P 0 220 50.33 55.44 56.65 -1.24 0.20 54
S 0 221 33.56 98.67 100.84 -2.22 0.00
MEDO 428.0 222 P 0 220 53.90 59.01 57.97 1.01 0.22 54
A21 439.6 64 P 0 220 55.03 60.14 59.40 0.73 0.19 54
BINY 441.5 192 EPC2 221 3.90 69.01 59.64 9.29 0.00 54
S 2 221 47.24 112.35 106.16 6.05 0.00
KILO 448.4 309 P 0 220 55.37 60.48 60.48 -0.05 0.16 54
PKME 451.5 99 EPC0 220 54.92 60.03 60.87 -0.86 0.15 169 3.2 54
S 0 221 37.33 102.44 108.35 -5.94 0.00
CLWO 457.7 249 P 0 220 57.83 62.94 61.63 1.23 0.10 54
QUA2 472.8 152 EPC3 220 49.03 54.14 63.50 -9.39 0.00 0.1 .31 2.3 54
S 2 221 54.90 120.01 113.03 6.93 0.00
ACTO 489.2 238 P 0 221 2.31 67.42 65.53 1.83 0.00 54
WES 504.7 143 EPC3 221 3.94 69.05 67.44 1.60 0.00 0.0 .24 2.1 54
S 2 222 1.64 126.75 120.04 6.69 0.00
TOBO 521.0 262 P 0 221 3.62 68.73 69.45 -0.75 0.01 54
MALO 564.7 323 P 0 221 9.24 74.35 74.84 -0.54 0.00 54
GGN 644.9 96 EPC1 221 17.06 82.17 84.75 -2.59 0.00 54
S 1 221 33.97 99.08 150.85 51.79 0.00
Run Hyp2000: Phase File: [79.X] Vel Mod: [2] ==> XX-File: 79.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon Jun 4 09:34:59 2007 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
200706022356 2.55 43- 0.13 70-52.94 16.87 1.9 2.3 236 0.22 2.0 1.5
NH, 3.6KM (2.2MI) NE OF EXETER
NSTA NPFS DMIN N.XMG N.FMG
8 12 77.50 3 2
STN DIST AZM RMK HRMN SEC TOBS TCAL RES WT AMX PRX XMAG FMP FMAG ANG
WES 77.5 208 EPC0 2356 15.17 12.62 12.81 -0.20 1.82 0.7 .10 1.8 72 2.2 95
HRV 78.1 226 EPC2 2356 15.62 13.07 12.91 0.13 0.91 95
S 3 2356 24.86 22.31 22.98 -0.72 0.00
FFD 81.4 310 EPC2 2356 16.32 13.77 13.43 0.32 0.91 94
BRYW 131.6 205 EPC1 2356 24.13 21.58 21.20 0.32 1.24 0.2 .10 1.7 70
S 2 2356 40.51 37.96 37.74 0.12 0.83
QUA2 144.9 237 EPC1 2356 25.90 23.35 23.13 0.19 1.21 0.5 .05 2.1 78 2.4 70
S 2 2356 43.48 40.93 41.17 -0.29 0.80
LBNH 161.3 329 EPC1 2356 27.82 25.27 25.40 -0.19 1.15 52
S 3 2356 47.62 45.07 45.21 -0.25 0.38
UCCT 173.9 220 EPC2 2356 29.45 26.90 26.95 -0.08 0.74 52
PKME 281.8 26 EPC2 2356 41.43 38.88 40.27 -1.41 0.00 52
Run Hyp2000: Phase File: [77.X] Vel Mod: [2] ==> XX-File: 77.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Thu Jun 14 12:04:58 2007 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
200706030235 6.54 42-59.71 70-55.93 16.82 1.4 2.6 177 0.39 1.2 1.4
NH, 2.02KM (1.25MI) NE OF EXETER
NSTA NPFS DMIN N.XMG N.FMG
9 18 74.70 4 6
STN DIST AZM RMK HRMN SEC TOBS TCAL RES WT AMX PRX XMAG FMP FMAG ANG
HRV 74.7 224 EPC0 235 20.96 14.42 12.38 2.01 0.00 113 2.6 95
S 0 235 28.59 22.05 22.04 -0.04 1.16
WES 74.9 206 EPC0 235 18.71 12.17 12.42 -0.26 1.16 0.2 .10 1.3 90 2.3 95
S 0 235 28.25 21.71 22.11 -0.42 1.16
FFD 78.9 313 EPC0 235 20.02 13.48 13.03 0.43 1.16 139 2.7 94
S 0 235 29.81 23.27 23.19 0.04 1.16
BRYW 129.3 203 EPC0 235 27.90 21.36 20.84 0.46 1.06 0.1 .12 1.5 105 2.6 92
S 0 235 43.25 36.71 37.10 -0.49 1.06
HNH 135.2 307 EPC0 235 28.44 21.90 21.72 0.15 1.04 0.1 .09 1.2 70
S 0 235 45.05 38.51 38.66 -0.20 1.04
QUA2 141.1 237 EPC0 235 29.79 23.25 22.58 0.64 1.01 0.2 .10 1.7 116 2.7 70
S 0 235 46.53 39.99 40.19 -0.26 1.03
LBNH 159.9 331 EPC0 235 31.67 25.13 25.23 -0.16 0.98 125 2.8 52
S 0 235 50.88 44.34 44.91 -0.68 0.93
UCCT 170.7 220 EPC0 235 33.60 27.06 26.56 0.47 0.95 52
S 0 235 54.50 47.96 47.28 0.63 0.94
PKME 284.3 26 EPC0 235 47.02 40.48 40.59 -0.13 0.58 52
S 0 236 18.34 71.80 72.25 -0.49 0.58
Run Hyp2000: Phase File: [81.X] Vel Mod: [2] ==> XX-File: 81.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Thu Jun 14 12:37:33 2007 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
200706030308 51.08 42-56.40 70-54.39 18.24 1.1 1.8 179 0.28 1.1 1.6
NH, 5.5KM (3.43MI) SE OF EXETER
NSTA NPFS DMIN N.XMG N.FMG
7 14 70.50 3 5
STN DIST AZM RMK HRMN SEC TOBS TCAL RES WT AMX PRX XMAG FMP FMAG ANG
WES 70.5 210 EPC0 309 2.59 11.51 11.76 -0.26 1.12 0.1 .10 0.9 32 1.5 97
S 0 309 12.34 21.26 20.93 0.31 1.12
HRV 71.9 229 EPC0 309 2.72 11.64 11.98 -0.37 1.12 34 1.6 97
S 0 309 12.37 21.29 21.32 -0.09 1.12
FFD 84.6 315 EPC0 309 5.25 14.17 13.93 0.22 1.10 95
S 1 309 16.16 25.08 24.80 0.25 0.83
BRYW 124.5 205 EPC0 309 11.13 20.05 20.09 -0.10 1.03 0.1 .16 1.3 38 1.8 70
S 0 309 27.42 36.34 35.76 0.47 1.03
QUA2 139.5 239 EPC0 309 13.45 22.37 22.28 0.06 0.99 0.1 .10 1.1 40 1.9 70
S 0 309 30.44 39.36 39.66 -0.35 0.99
LBNH 166.3 331 EPC0 309 14.97 23.89 25.88 -2.05 0.00 44 2.0 52
S 0 309 34.40 43.32 46.07 -2.85 0.00
PKME 288.8 26 EPC0 309 33.91 42.83 41.02 1.79 0.00 52
S 0 310 3.93 72.85 73.02 -0.20 0.54
Run Hyp2000: Phase File: [85.X] Vel Mod: [6] ==> XX-File: 85.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Fri Jun 8 12:24:29 2007 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
200706080432 56.80 44-44.66 73-17.66 3.88 1.4 2.8 78 0.29 0.6 3.4
VT, 2KM (1.24MI) N OF GRAND ISLE
NSTA NPFS DMIN N.XMG N.FMG
11 22 88.10 3 6
STN DIST AZM RMK HRMN SEC TOBS TCAL RES WT AMX PRX XMAG FMP FMAG ANG
MNT 88.1 344 EPC0 433 10.42 13.62 13.61 -0.01 1.08 67
S 0 433 20.90 24.10 24.23 -0.16 1.08
LONY 103.1 263 EPC0 433 12.72 15.92 15.87 -0.02 1.05 152 2.8 67
S 0 433 25.52 28.72 28.25 0.35 1.05
MOQ 103.4 52 EPC0 433 12.88 16.08 15.93 0.01 1.05 137 2.8 67
S 0 433 25.11 28.31 28.36 -0.29 1.05
NCB 113.2 222 EPC0 433 13.84 17.04 17.41 -0.47 1.03 161 2.9 67
S 0 433 27.85 31.05 30.99 -0.12 1.03
LBNH 122.4 116 EPC0 433 15.92 19.12 18.80 0.26 1.01 134 2.8 67
S 0 433 30.66 33.86 33.46 0.29 1.01
HNH 140.8 144 EPC0 433 20.06 23.26 21.58 1.65 0.00 0.1 .05 1.4 67
S 0 433 34.65 37.85 38.41 -0.62 0.97

```

MRHQ	146.0	331	EPCO	433	19.23	22.43	22.37	-0.01	0.96											141	2.8	67	
			S 0	433	36.95	40.15	39.82	0.21	0.96														
FFD	193.1	136	EPCO	433	26.68	29.88	29.52	0.34	0.83											131	2.8	67	
			S 0	433	49.83	53.03	52.55	0.45	0.83														
QUA2	284.3	164	EPC3	433	40.91	44.11	40.99	3.09	0.00	0.0	.09	1.4										48	
			S 1	434	12.60	75.80	72.96	2.78	0.00														
WES	306.8	148	EPC3	433	46.28	49.48	43.76	5.71	0.00	0.0	.14	1.5										48	
			S 1	434	19.64	82.84	77.89	4.93	0.00														
PKME	320.9	78	EPC1	433	46.54	49.74	45.51	4.21	0.00													48	
			S 1	434	23.43	86.63	81.01	5.59	0.00														

Run Hyp2000: Phase File: [86.X] Vel Mod: [12] ==> XX-File: 86.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Jun 12 11:10:18 2007 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
------	--------	-------	--------	-------	----	----	----	-----	-----	-----	-----	---

200706091110	10.79	44	-20.99	68-10.05	2.55	1.6	2.5		213	0.58	2.6	6.2
--------------	-------	----	--------	----------	------	-----	-----	--	-----	------	-----	-----

ME, 4.2KM (2.6MI) SE OF BAR HARBOR

NSTA NPHS DMIN N.XMG N.FMG

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
-----	------	-----	-----	------	-----	------	------	-----	----	-----	-----	------	-----	------	-----

EMMW	69.2	54	EPCO	1110	22.34	11.55	11.43	0.11	1.37	0.3	.10	1.4	94	2.4	72
			S 0	1110	30.81	20.02	20.35	-0.34	1.37						
WVL	121.0	281	EPCO	1110	29.68	18.89	19.66	-0.78	1.27	0.1	.31	1.7			72
			S 0	1110	45.48	34.69	34.99	-0.32	1.27						
PKME	135.0	320	EPCO	1110	33.70	22.91	21.88	1.01	1.21				118	2.7	72
			S 0	1110	49.63	38.84	38.95	-0.14	1.23						
GGN	136.5	50	EPCO	1110	33.43	22.64	22.11	0.52	1.22				102	2.6	72
			S 0	1110	49.63	38.84	39.36	-0.53	1.22						
PQI	258.2	2	EPC1	1110	52.95	42.16	38.60	3.53	0.00	0.0	.23	1.6			47
			S 1	1111	20.54	69.75	68.71	0.99	0.59						
LBNH	300.3	269	EPCO	1110	55.69	44.90	43.81	1.03	0.60						47
			S 0	1111	34.57	83.78	77.98	5.69	0.00						
LMN	312.9	56	EPCO	1110	57.12	46.33	45.36	0.91	0.56						47
			S 0	1111	30.00	79.21	80.74	-1.64	0.08						

Run Hyp2000: Phase File: [89.X] Vel Mod: [11] ==> XX-File: 89.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon Jul 2 15:06:02 2007 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
------	--------	-------	--------	-------	----	----	----	-----	-----	-----	-----	---

200706111455	8.19	44	-20.15	64-39.05	5.85	2.6	3.1		208	0.46	2.3	2.3
--------------	------	----	--------	----------	------	-----	-----	--	-----	------	-----	-----

CANADA, NOVA SCOTIA, 9.8KM WSW OF BRIDGEWATER

NSTA NPHS DMIN N.XMG N.FMG

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
-----	------	-----	-----	------	-----	------	------	-----	----	-----	-----	------	-----	------	-----

HAL	90.7	67	P 0	1455	23.05	14.86	14.66	0.19	2.22						90
			S 0	1455	33.91	25.72	26.09	-0.39	2.22						
LMN	168.9	356	EP 0	1455	35.39	27.20	26.53	0.61	1.87				160	3.0	51
			S 0	1455	55.16	46.97	47.22	-0.36	1.87						
MALG	192.3	32	P 0	1455	38.41	30.22	29.42	0.80	1.63						51
			S 4	1455	0.77	-7.42	52.37	59.79	0.00						
GGN	192.7	298	EP 0	1455	37.55	29.36	29.46	-0.11	1.73				166	3.0	51
			S 3	1455	58.96	50.77	52.44	-1.69	0.00						
EMMW	227.1	282	EP 0	1455	41.29	33.10	33.70	-0.61	1.51	0.7	.10	2.7			51
			S 4	1456	4.16	55.97	59.99	-4.03	0.00						
GBN	275.1	63	P 4	1455	50.36	42.17	39.64	2.52	0.00						51
			S 0	1456	18.69	70.50	70.56	-0.08	1.19						
BATG	344.7	342	EP 1	1455	57.23	49.04	48.23	0.75	0.54				176	3.2	51
			S 3	1456	32.75	84.56	85.85	-1.40	0.00						
PQI	369.3	316	P 0	1455	58.52	50.33	51.27	-0.97	0.30						51
			S 4	1455	0.00	-8.19	91.26	99.50	0.00						
PKME	381.6	288	EP 0	1456	0.38	52.19	52.78	-0.61	0.51				178	3.2	51
			S 4	1456	39.15	90.96	93.95	-3.02	0.00						
WVL	400.2	275	EP 0	1456	2.55	54.36	55.08	-0.73	0.41	0.1	.10	2.6			51
			S 4	1456	42.94	94.75	98.04	-3.31	0.00						
GASG	524.6	349	P 0	1456	19.11	70.92	70.44	0.44	0.01						51
			S 0	1457	12.53	124.34	125.38	-1.11	0.00						
GSQ	542.7	341	P 0	1456	21.08	72.89	72.67	0.21	0.00						51
			S 3	1457	15.15	126.96	129.35	-2.41	0.00						
LBNH	581.4	272	P 0	1456	24.87	76.68	77.45	-0.83	0.00						51
			S 4	1457	22.40	134.21	137.86	-3.76	0.00						
ICQ	610.1	342	P 0	1456	29.30	81.11	80.99	0.11	0.00						51
			S 3	1457	30.00	141.81	144.16	-2.37	0.00						

Run Hyp2000: Phase File: [05.X] Vel Mod: [2] ==> XX-File: 05.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Thu Jun 21 10:42:22 2007 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
------	--------	-------	--------	-------	----	----	----	-----	-----	-----	-----	---

200706210031	32.07	43	- 2.21	70-57.83	4.09	1.0	1.6		176	0.24	1.3	2.7
--------------	-------	----	--------	----------	------	-----	-----	--	-----	------	-----	-----

NH, 4.86KM (3MI) NNE OF EXETER

NSTA NPHS DMIN N.XMG N.FMG

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
-----	------	-----	-----	------	-----	------	------	-----	----	-----	-----	------	-----	------	-----

HRV	76.4	220	EPC1	31	45.49	13.42	12.83	0.56	0.38				26	1.4	73
			S 0	31	55.19	23.12	22.84	0.23	1.30						
WES	78.1	203	EPCO	31	45.09	13.02	13.11	-0.10	1.30	0.1	.20	1.0	23	1.4	73
			S 0	31	55.10	23.03	23.34	-0.32	1.30						
QUA2	141.6	234	EPCO	31	55.68	23.61	23.20	0.38	1.16	0.0	.15	1.1	24	1.6	66
			S 0	32	13.37	41.30	41.30	-0.05	1.16						
LBNH	154.6	331	EPCO	31	57.31	25.24	25.22	-0.04	1.12				29	1.8	66
			S 0	32	16.84	44.77	44.89	-0.23	1.12						
PKME	281.3	27	EPC1	32	13.62	41.55	41.55	-0.02	0.50						46
			S 0	32	46.39	74.32	73.96	0.33	0.66						

Run Hyp2000: Phase File: [32.X] Vel Mod: [3] ==> XX-File: 32.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Fri Jun 29 14:37:15 2007 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
------	--------	-------	--------	-------	----	----	----	-----	-----	-----	-----	---

200706280618	10.34	40	-52.41	74-10.36	0.04	1.6	2.2		132	0.33	1.0	2.3
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NJ, 3.9KM S OF PATERSON

NSTA NPHS DMIN N.XMG N.FMG

STN	DIST	AZM	RMK	HRMN	SEC	TOBS	TCAL	RES	WT	AMX	PRX	XMAG	FMP	FMAG	ANG
-----	------	-----	-----	------	-----	------	------	-----	----	-----	-----	------	-----	------	-----

FOR	24.2	92	P 0	618	13.73	3.39	3.79	-0.40	1.44						68
			S 0	618	16.68	6.34	6.75	-0.41	1.44						
PAL	26.7	56	P 0	618	14.30	3.96	4.17	-0.22	1.44						68
			S 0	618	17.59	7.25	7.42	-0.19	1.44						
BVD	166.1	224	P 0	618	35.70	25.36	25.45	-0.10	1.15						68
			S 0	618	55.82	45.48	45.30	0.16	1.15						
NED	183.9	226	P 0	618	38.51	28.17	28.17	-0.01	1.08						68
			S 0	619	0.80	50.46	50.14	0.30	1.08						
UCCT	192.4	57	EP 0	618	41.03	30.69	29.47	1.19	0.00				46	2.1	68
			S 0	619	3.08	52.74	52.46	0.23	1.05						
MVL	208.8	243	P 0	618	42.26	31.92	31.96	-0.06	0.99						68
			S 0	619	7.06	56.72	56.89	-0.20	0.99						
BINY	210.6	315	EP 0	618	43.52	33.18	32.24	0.86	0.44				38	2.1	68
			S 0	619	7.07	56.73	57.39	-0.80	0.61						
QUA2	217.8	43	EP 0	618	44.37	34.03	33.34	0.66	0.90	0.1	.09	1.6	53	2.2	68
			S 0	618	50.41	40.07	37.46	2.55	0.00						

```

S 3 619 22.21 71.87 73.28 -1.48 0.00
ACCN 282.0 8 P 0 618 51.42 41.08 41.48 -0.46 0.70 48
S 0 619 24.11 73.77 73.83 -0.17 0.70
HRV 283.3 49 EP 4 619 0.65 50.31 41.65 8.63 0.00 0.0 .21 1.6 48
S 3 619 26.28 75.94 74.14 1.75 0.00
WES 290.9 53 EP 4 618 55.63 45.29 42.59 2.69 0.00 0.0 .09 1.5 56 2.4 48
S 0 619 26.87 76.53 75.81 0.70 0.58
LBNH 417.0 25 EP 4 619 37.29 86.95 58.15 28.74 0.00 48
S 4 620 1.48 111.14 103.51 7.53 0.00
LONY 417.5 356 EP 4 619 41.30 90.96 58.21 32.68 0.00 48
S 4 620 1.75 111.41 103.61 7.67 0.00
Run Hyp2000: Phase File: [34.X] Vel Mod: [1] ==> XX-File: 34.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon Jul 2 11:56:20 2007 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
200706292033 40.92 42-30.70 71-50.34 0.04 0.9 1.2 119 0.20 0.6 1.7
MA, 5.9KM WSW OF LEOMINSTER
NSTA NPHS DMIN N.XMG N.FMG
6 12 23.10 3 6
STN DIST AZM RMK HRMN SEC TOBS TCAL RES WT AMX PRX XMAG FMP FMAG ANG
HRV 23.1 91 EPCO 2033 44.67 3.75 3.95 -0.23 1.07 12 0.5 61
S 0 2033 47.87 6.95 7.03 -0.13 1.07
WES 44.8 108 EPCO 2033 48.18 7.26 7.53 -0.28 1.06 0.1 .10 0.6 20 1.1 61
S 0 2033 54.31 13.39 13.40 -0.03 1.06
QUA2 49.5 239 EPCO 2033 49.31 8.39 8.31 0.05 1.06 0.2 .12 1.1 15 0.9 61
S 0 2033 55.55 14.63 14.79 -0.22 1.06
BRYW 70.4 158 EPCO 2033 52.58 11.66 11.75 -0.15 1.04 0.1 .09 0.9 23 1.3 61
S 0 2034 2.26 21.34 20.91 0.32 1.02
UCCT 85.8 202 EPCO 2033 55.32 14.40 14.30 0.07 1.02 28 1.5 61
S 0 2034 6.24 25.32 25.45 -0.19 1.02
LBNH 192.1 358 EPCO 2034 11.05 30.13 30.32 -0.25 0.79 39 2.0 40
S 0 2034 35.33 54.41 53.97 0.33 0.74
Run Hyp2000: Phase File: [37.X] Vel Mod: [3] ==> XX-File: 37.XX
HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Jul 3 13:07:13 2007 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
200706300220 3.71 42-35.85 74- 8.05 17.03 1.6 2.0 104 0.31 0.6 1.2
NY, 21.4 WSW OF DELMAR
NSTA NPHS DMIN N.XMG N.FMG
9 18 24.30 1 3
STN DIST AZM RMK HRMN SEC TOBS TCAL RES WT AMX PRX XMAG FMP FMAG ANG
HCNY 24.3 298 P 0 220 8.32 4.61 4.54 0.02 1.29 121
S 0 220 11.84 8.13 8.08 -0.04 1.29
ACCN 95.3 23 P 0 220 18.83 15.12 14.74 0.32 1.20 90
S 0 220 29.69 25.98 26.24 -0.36 1.20
BRNY 131.8 175 P 0 220 24.34 20.63 20.11 0.47 1.12 90
S 0 220 39.69 35.98 35.80 0.10 1.12
QUA2 150.8 102 EPCO 220 27.08 23.37 22.90 0.44 1.07 0.1 .15 1.6 38 1.9 90
S 0 220 45.15 41.44 40.76 0.62 0.70
ODNJ 172.7 194 P 0 220 29.78 26.07 26.12 -0.08 1.00 90
S 0 220 49.70 45.99 46.49 -0.56 0.91
UCCT 181.2 118 EPCO 220 30.90 27.19 27.36 -0.20 0.98 33 1.9 90
S 0 220 52.01 48.30 48.70 -0.45 0.98
WCNY 197.1 322 P 0 220 32.78 29.07 29.47 -0.44 0.93 57
S 0 220 56.49 52.78 52.46 0.25 0.93
FFD 224.2 63 EPCO 220 36.49 32.78 32.81 -0.05 0.83 40 2.1 57
S 0 221 1.98 58.27 58.40 -0.17 0.83
LONY 227.6 351 P 0 220 37.11 33.40 33.23 0.10 0.82 57
S 0 221 3.04 59.33 59.15 0.06 0.82
TRY IS DOWN
    
```

[Return to Table of Contents](#)

TABLE 5
MICROEARTHQUAKES AND OTHER NON-LOCATABLE EVENTS

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

[Return to Table of Contents](#)

NESN Station Map

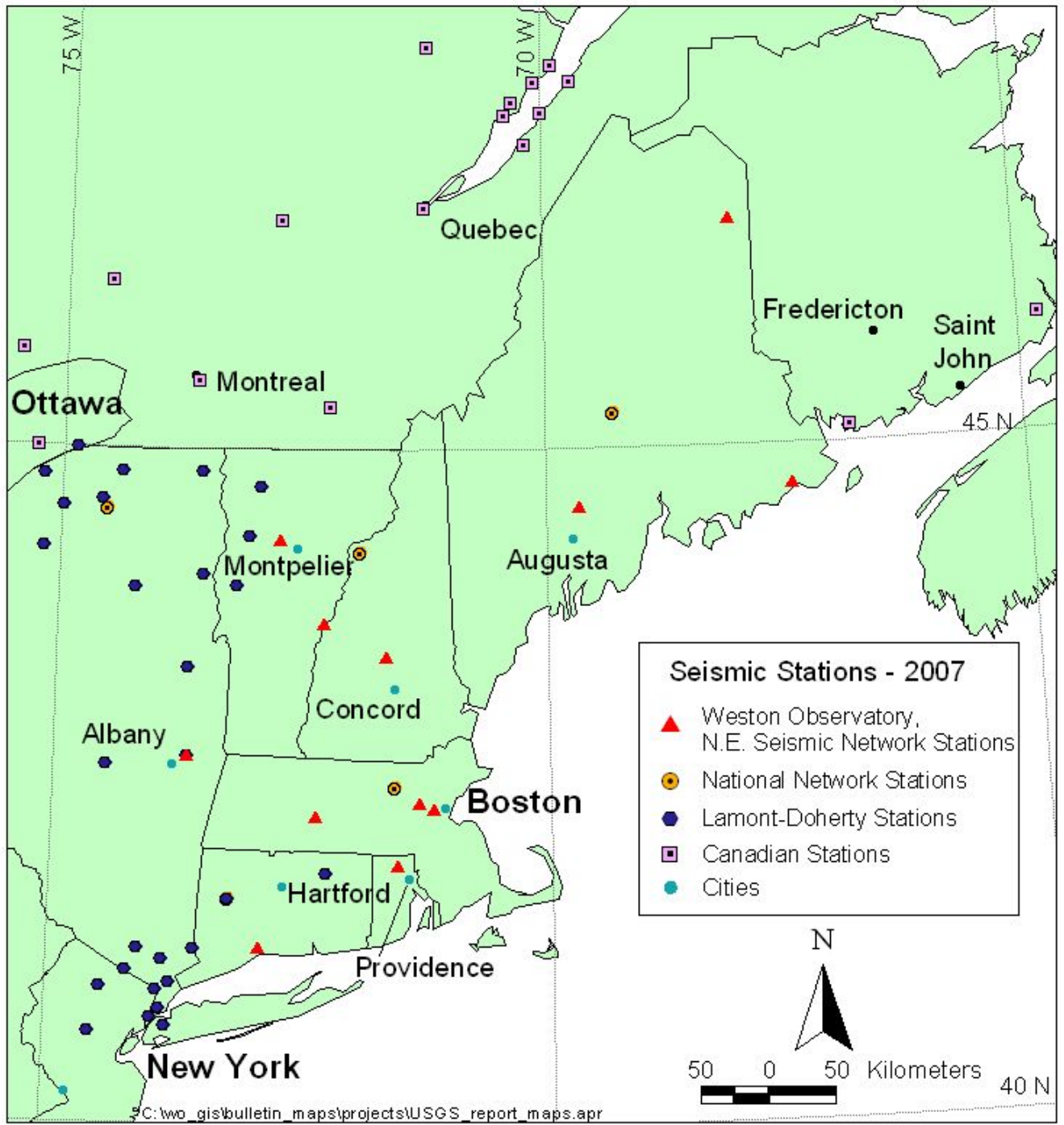


Figure 1: Map of stations of the New England Seismic Network (NESN) in operation during the period of this report. Also included are other Northeast U.S. and Canadian seismic stations in operation during this period.

[Return to Table of Contents](#)

NESN Strong-Motion Station Map

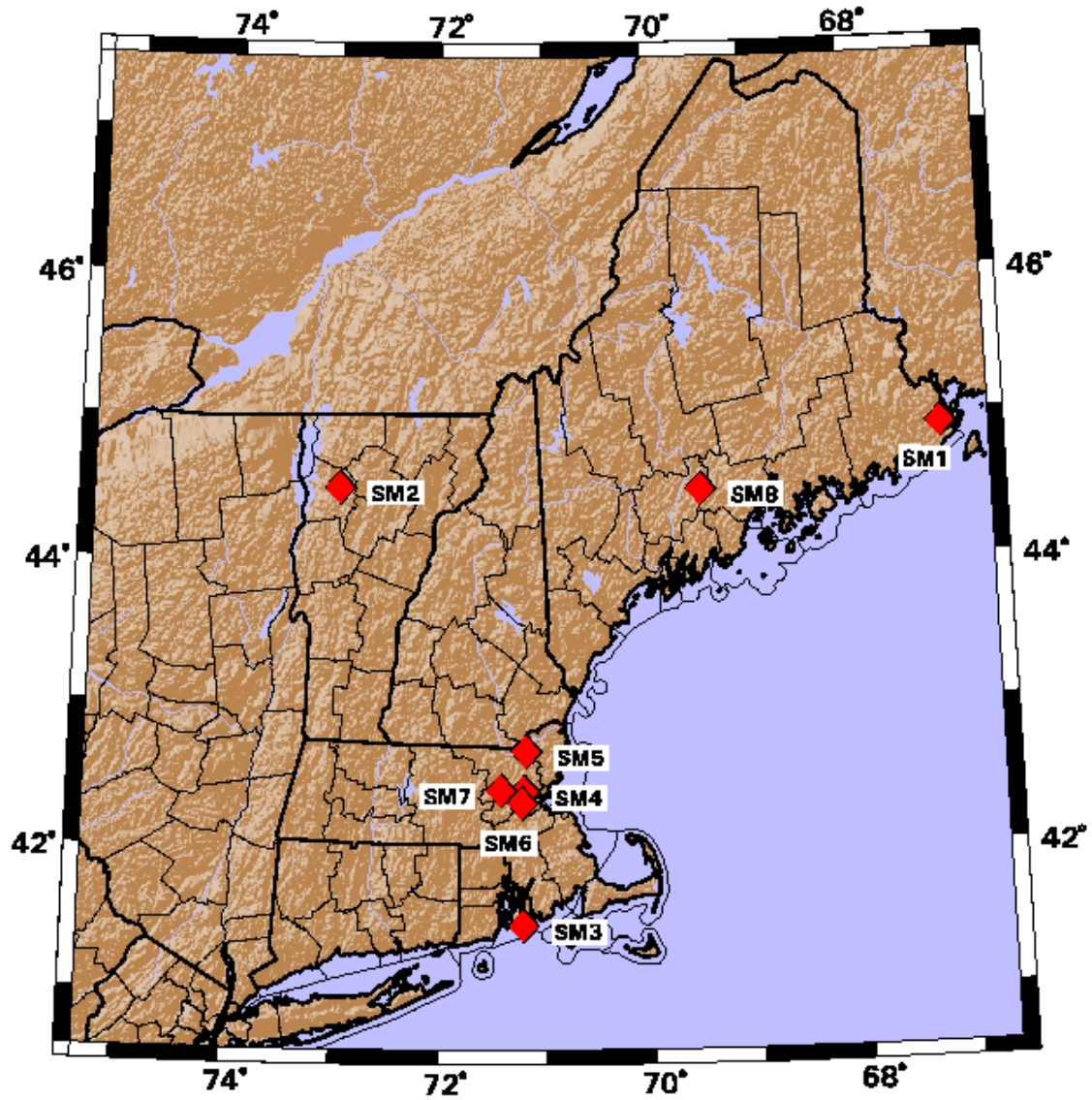


Figure 2: Map of strong-motion stations of the New England Seismic Network (NESN) in operation during the period of this report.

[Return to Table of Contents](#)

NESN Quarterly Seismicity Map

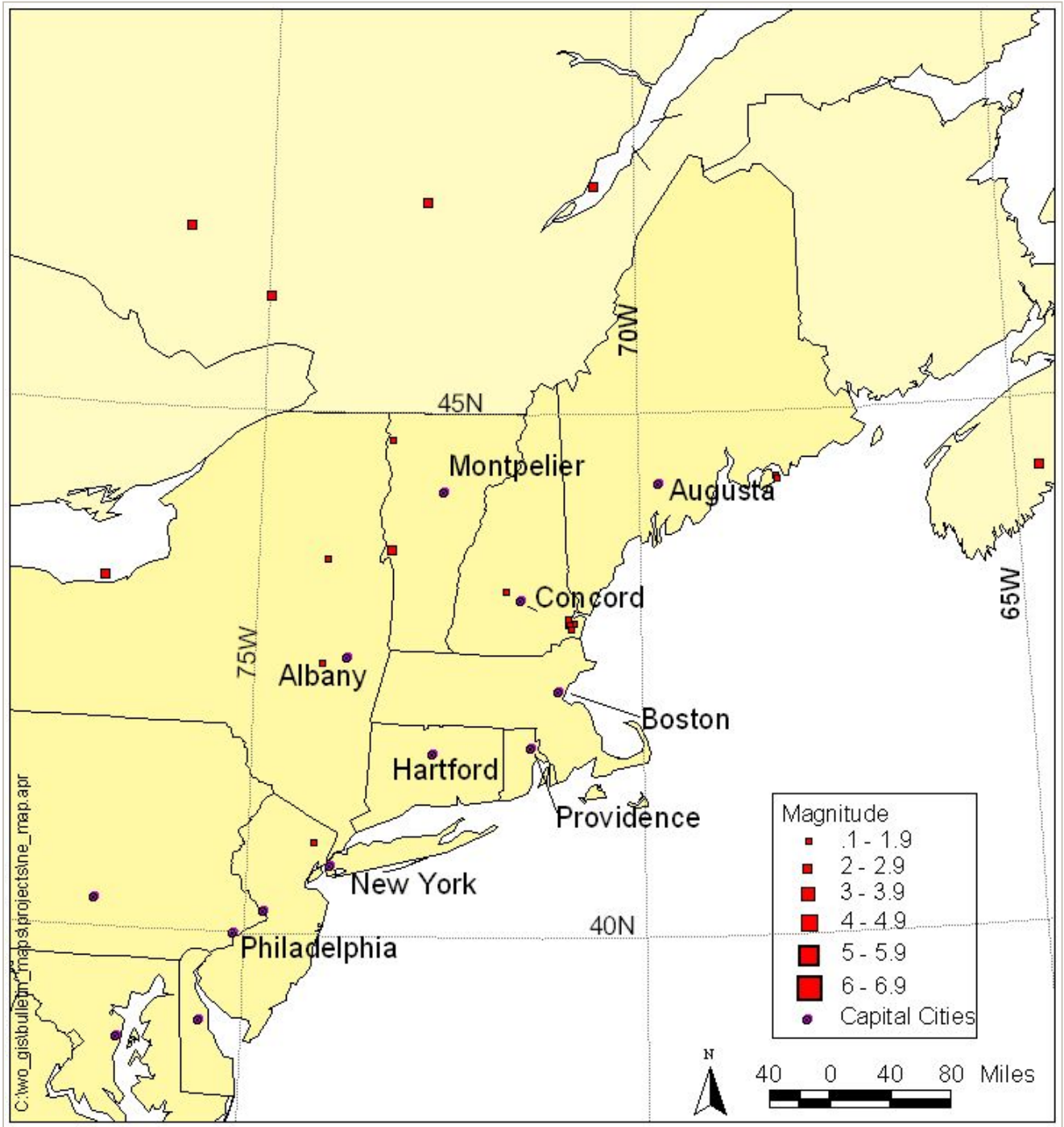


Figure 3: Earthquake epicenters located by the NESN during the period of this report.

[Return to Table of Contents](#)

NESN Cumulative Seismicity Map

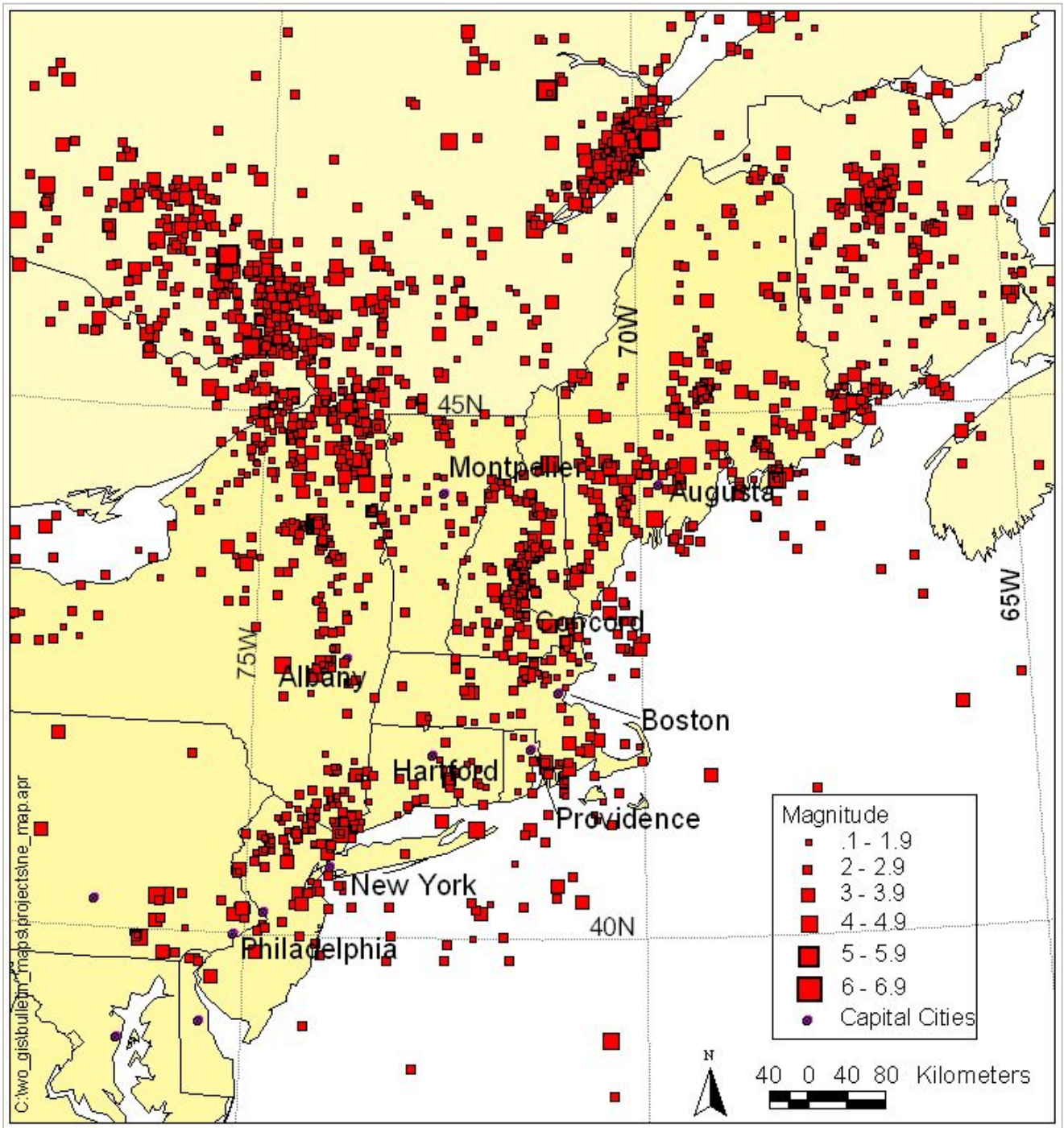


Figure 4: Seismicity for period October, 1975 - June, 2007.

[Return to Table of Contents](#)

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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- Ebel, J.E. (1982), M_L measurements for northeastern United States earthquakes, *Bull. Seism. Soc. Am.*, 72, 1367-1378.
- Rosario, M. (1979), A coda duration magnitude scale for the New England Seismic Network, *Master's Thesis*, Boston College, 82 pp.

[Return to Table of Contents](#)

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