A STUDY OF NEW ENGLAND SEISMICITY

Quarterly Earthquake Report

October - December, 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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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 October - December, 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 23 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 23 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 Log(FMP) + 0.12Log(Dist) - 2.36 (Rosario, 1979)
   MIT: 2.21 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)

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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
October - December, 2007

Date M/D/Y	Time (UTC) Hr:Mn:Sec	Lat	Long	Depth (km)	Mn	Mc	Int	Location
10/01/2007	16:42:10.31	47.03	-76.84	19.14	3.6	3.5		PQ, 82.3KM NW OF MANIWAKI
10/02/2007	05:06:49.59	45.01	-70.04	09.70		2.3		ME, 10 KM E OF CARRABASSETT
10/02/2007	16:52:10.30	43.95	-70.02	17.18		2.4		ME, 4.8KM NW OF BRUNSWICK
10/07/2007	06:47:28.42	49.94	-67.44	05.22	2.8	3.3		PQ. 80 KM SW OF SEPT ILES
10/08/2007	11:15:16.75	42.81	-71.02	00.70	1.3	1.8		MA, MERRIMAC
10/09/2007	14:05:29.84	44.62	-70.77	10.33	2.0	2.7		ME, 14.7KM WNW OF RUMFORD
10/13/2007	05:53:32.04	46.52	-75.12	02.35	2.6	3.2		PQ, NEAR LAC-SAGUAY
10/15/2007	01:06:27.30	44.49	-68.14	05.00	0.5	1.6		ME, 10KM NE OF BAR HARBOR
10/15/2007	18:21:27.88	45.96	-73.42	00.04		2.4		PQ, SOUTH OF JOLIETTE
10/16/2007	23:57:35.74	43.60	-70.87	01.28	1.9	2.4		ME, 15.5KM NNW OF SANFORD
10/19/2007	05:23:52.96	42.54	-71.50	00.48	2.5	3.0		MA, 1.94KM SW OF LITTLETON COMMON
10/19/2007	10:04:47.04	42.55	-71.48	00.02	0.9	1.1		MA, 0.7KM W OF LITTLETON COMMON
10/21/2007	23:46:24.58	43.02	-71.86	06.43	1.7	2.3		NH, 5.2KM ENE OF BENNINGTON
10/24/2007	21:49:16.94	45.80	-72.01	00.03		2.5		PQ, 5KM W OF ASBESTOS
10/28/2007	09:47:18.66	46.52	-77.14	03.41		3.5		ON, 53KM NNE OF PETAWAWA
11/06/2007	22:47:58.66	43.74	-74.98	04.53		2.6		NY, 57KM NNE OF UTICA
11/07/2007	06:21:47.20	43.17	-71.88	08.04	1.8	2.3		NH, 25KM WSW OF CONCORD
11/20/2007	16:41:50.02	42.97	-71.02	00.79	2.4	2.4		NH, 5.25KM WSW OF EXETER
11/22/2007	00:15:19.83	41.96	-71.56	19.04	1.4	2.3		RI, 12.9KM W OF WARWICK
12/11/2007	10:02:10.28	43.97	-70.02	01.95	2.2	2.6		ME, 6.2KM NW OF BRUNSWICK
12/23/2007	23:48:36.94	46.08	-77.09	07.44		3.6		PQ, 12.8KM N OF CHICHESTER
12/28/2007	00:05:46.08	44.68	-72.07	03.44	1.0	2.4		VT, 21KM NNW OF ST. JOHNSBURY
12/30/2007	12:01:56.62	45.06	-66.83	00.02	1.5	2.3		NB, PASSAMAQUODDY BAY

* 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
October - December, 2007

```
Run Hyp2000: Phase File: [09.X] Vel Mod: [6] ===> XX-File: 09.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon Oct  1 15:10:44 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
200710011642 10.31 47- 1.52  76-50.67  19.14  3.6 3.5     205  0.30  0.9  0.6
CANADA, PQ, 82.3KM NW OF MANIWAKI
FELT

 NSTA NPHS DMIN N.XMG N.FMG
  31  62  88.40   3   7

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
  GRQ  88.4 121 EPC0 1642 24.02  13.71  13.85 -0.19 1.80                      100
               S 0 1642 35.09  24.78  24.65  0.04 1.80
 CRLO 117.2 201 EPC0 1642 28.28  17.97  18.17 -0.23 1.71                       97
               S 0 1642 42.93  32.62  32.34  0.22 1.71
 VLDQ 129.3 340 EPC0 1642 32.07  21.76  19.98  1.76 0.00                       97
               S 0 1642 48.02  37.71  35.56  2.11 0.00
 ALGO 150.8 219 EPC0 1642 33.09  22.78  23.16 -0.42 1.59                       54
               S 0 1642 51.92  41.61  41.22  0.31 1.59
 PEMO 153.0 192 EPC0 1642 33.45  23.14  23.43 -0.32 1.58                       54
               S 0 1642 52.05  41.74  41.71 -0.02 1.58
  GAC 180.7 143 EPC0 1642 37.72  27.41  26.85  0.55 1.46                       54
               S 0 1642 58.25  47.94  47.79  0.13 1.46
  TRQ 196.8 116 EPC0 1642 39.40  29.09  28.83  0.26 1.38                       54
               S 0 1643  1.24  50.93  51.32 -0.39 1.38
  OTT 201.1 153 EPC0 1642 39.77  29.46  29.37  0.08 1.36                       54
               S 0 1643  2.71  52.40  52.28  0.10 1.36
 PLVO 221.4 185 EPC0 1642 42.30  31.99  31.88  0.11 1.25                       54
               S 0 1643  6.70  56.39  56.75 -0.36 1.25
 BANO 238.2 202 EPC0 1642 45.66  35.35  33.95  1.34 0.00                       54
               S 0 1643 10.60  60.29  60.43 -0.25 1.16
 MRHQ 238.5 121 EPC0 1642 44.12  33.81  33.99 -0.25 1.16                       54
               S 0 1643 11.04  60.73  60.50  0.10 1.16
 RSPO 247.4 246 EPC0 1642 46.20  35.89  35.09  0.76 1.06                       54
               S 0 1643 11.08  60.77  62.46 -1.76 0.00
  WBO 255.8 151 EPC0 1642 46.67  36.36  36.12  0.23 1.07                       54
               S 0 1643 14.78  64.47  64.29  0.16 1.07
 BUKO 264.2 230 EPC0 1642 47.89  37.58  37.16  0.37 1.02                       54
               S 0 1643 15.89  65.58  66.14 -0.65 1.02
  MNT 300.6 123 EPC0 1642 51.95  41.64  41.65 -0.03 0.82              202  3.3  54
               S 0 1643 24.48  74.17  74.14  0.00 0.82
 LONY 320.0 145 EPC0 1642 54.63  44.32  44.05  0.20 0.72              349  3.7  54
               S 0 1643 31.26  80.95  78.41  2.42 0.00
  NCB 396.3 147 EPC0 1643  3.95  53.64  53.47  0.07 0.35              324  3.7  54
               S 0 1643 45.23  94.92  95.18 -0.43 0.35
  MOQ 402.5 116 EPC0 1643  2.76  52.45  54.24 -1.93 0.00              210  3.3  54
               S 0 1643 46.33  96.02  96.55 -0.78 0.30
  QCQ 425.4  91 EPC0 1643  7.20  56.89  57.06 -0.19 0.23                       54
               S 0 1643 50.84 100.53 101.57 -1.07 0.08
  DAQ 435.1  74 EPC0 1643  6.97  56.66  58.25 -1.75 0.00                       54
               S 0 1643 51.24 100.93 103.68 -3.04 0.00
  MDV 441.7 138 EPC0 1643  9.25  58.94  59.08 -0.16 0.18              250  3.5  54
               S 1 1643 58.39 108.08 105.16  2.88 0.00
  EFO 478.4 205 EPC0 1643 13.47  63.16  63.61 -0.48 0.08                       54
               S 0 1644  2.63 112.32 113.23 -0.96 0.05
  A54 489.7  82 EPC0 1643 13.87  63.56  65.00 -1.50 0.00                       54
               S 0 1644  2.83 112.52 115.70 -3.29 0.00
 LBNH 493.0 127 EPC0 1643 15.60  65.29  65.41 -0.18 0.05              284  3.6  54
               S 0 1644  8.45 118.14 116.43  1.60 0.00
  LMQ 496.8  80 EPC0 1643 14.40  64.09  65.88 -1.86 0.00                       54
               S 0 1644  4.55 114.24 117.27 -3.15 0.00
  HNH 513.6 134 EPC4 1643 19.93  69.62  67.95  1.64 0.00 0.3 .13  3.3           54
               S 3 1644 16.69 126.38 120.95  5.38 0.00
 BINY 541.3 172 EPC1 1643 21.95  71.64  71.37  0.19 0.00                       54
               S 0 1644 21.52 131.21 127.04  4.03 0.00
  FFD 567.8 132 EPC1 1643 25.78  75.47  74.64  0.81 0.00                       54
               S 2 1644 39.40 149.09 132.86 16.20 0.00
 PKME 616.1 105 EPC0 1643 29.49  79.18  80.60 -1.44 0.00              251  3.6  54
               S 0 1644 31.04 140.73 143.47 -2.77 0.00
  WES 676.6 137 EPC4 1644  3.51 113.20  88.07 25.12 0.00 0.1 .20  3.2           54
               S 2 1645  1.83 171.52 156.76 14.74 0.00
 EMMW 774.1 106 EPC2 1644 52.45 162.14 100.11 62.02 0.00 0.3 .10  4.3           54
               S 2 1645 33.20 202.89 178.20 24.68 0.00



Run Hyp2000: Phase File: [12.X] Vel Mod: [11] ===> XX-File: 12.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Oct  9 10:35:41 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
200710020506 49.59 45- 0.37  70- 2.21   9.70       2.3     181  0.07  13.7  4.2
ME, 10KM E OF CARRABASSETT

 NSTA NPHS DMIN N.XMG N.FMG
   3   5  65.30   0   2

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
 PKME  65.3  63 EPC0  507  0.29  10.70  10.65  0.03 1.45                87  2.3  95
               S 1  507  8.53  18.94  18.96 -0.05 1.09
 LBNH 172.4 242 EPC1  507 16.12  26.53  26.58 -0.11 0.88                66  2.3  51
               S 2  507 37.13  47.54  47.31  0.12 0.58
 EMMW 206.5  98  S 2  507 50.20  60.61  54.79  5.80 0.00
```

```
Run Hyp2000: Phase File: [11.X] Vel Mod: [11] ===> XX-File: 11.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon Nov 26 12:56:09 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
200710021652 10.30 43-57.19  70- 0.98  17.18       2.4      222  0.11  1.8  1.8
ME, 4.8KM NW OF BRUNSWICK

 NSTA NPHS DMIN N.XMG N.FMG
   6  11  156.20   0   2

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
  FFD 142.5 249 EPC2 1652 33.48  23.18  22.13  1.03 0.00                        51
               S 3 1652 51.58  41.28  39.39  1.85 0.00
 LBNH 156.2 283 EPC1 1652 34.30  24.00  23.83  0.11 1.30               75  2.4  51
               S 2 1652 52.67  42.37  42.42 -0.15 0.86
 PKME 156.7  21 EPC0 1652 34.13  23.83  23.88 -0.07 1.73               84  2.4  51
               S 2 1652 53.02  42.72  42.51  0.18 0.86
  GGN 285.0  61 EPC2 1652 50.08  39.78  39.73  0.04 0.50                        51
               S 1 1653 21.00  70.70  70.72 -0.04 0.75
  PQI 340.4  26 EPC4 1653 24.51  74.21  46.56 27.62 0.00                        51
  LMQ 400.3 357 EPC2 1653 10.25  59.95  53.97  5.91 0.00                        51
               S 2 1653 42.58  92.28  96.07 -3.91 0.00



Run Hyp2000: Phase File: [27.X] Vel Mod: [12] ===> XX-File: 27.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Thu Oct 11 14:38:02 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
200710070647 28.45 49-54.42  67-27.12   5.31  2.8 3.3      300  0.14  12.2  11.2
CANADA, PQ. 80 KM SW OF SEPT ILES

 NSTA NPHS DMIN N.XMG N.FMG
   9  12  310.00   1   3

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
 BATG 310.0 160 EPC1  648 13.19  44.74  44.69 -0.01 1.84               214  3.3  47
  LMQ 337.0 220 EPC1  648 16.33  47.88  48.02 -0.21 1.50               215  3.3  47
               S 2  648 54.03  85.58  85.48 -0.02 1.00
  A11 359.0 216 EPC0  648 19.38  50.93  50.74  0.18 1.65                        47
 PKME 534.4 196 EPC0  648 41.06  72.61  72.40  0.19 0.01                        47
               S 2  649 33.60 125.15 128.87 -3.76 0.00
  GGN 534.7 174 EPC1  648 40.61  72.16  72.43 -0.28 0.01               175  3.3  47
 SCHQ 549.7   4 EPC0  648 38.63  70.18  74.28 -4.18 0.00                        47
 EMMW 577.8 181 EPC1  648 46.06  77.61  77.75 -0.15 0.00 0.1 .15  2.8           47
               S 2  649 45.70 137.25 138.40 -1.16 0.00
 MRHQ 675.1 232 EPC1  648 56.73  88.28  89.76 -1.55 0.00                        47
  NCB 837.5 221 EPC2  649 17.38 108.93 109.82 -0.99 0.00                        47



Run Hyp2000: Phase File: [21.X] Vel Mod: [1] ===> XX-File: 21.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Oct  9 10:34:21 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
200710081115 16.75 42-48.80  71- 0.93   0.70  1.3 1.8      228  0.10  2.8  3.7
MA, MERRIMAC

 NSTA NPHS DMIN N.XMG N.FMG
   7  12  53.80   3   4

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
  WES  53.8 208 EPC0 1115 25.72   8.97   8.96  0.00 1.75 0.1 .15  0.9  45  1.7  61
               S 1 1115 32.58  15.83  15.95 -0.14 1.31
  HRV  56.1 233 EPC2 1115 22.85   6.10   9.33 -3.26 0.00               47  1.7  61
               S 3 1115 34.96  18.21  16.61  1.55 0.00
  FFD  89.5 325  S 3 1115 41.22  24.47  26.43 -2.00 0.00                        61
 BRYW 108.1 204 EPC2 1115 34.81  18.06  17.91  0.09 0.81 0.1 .24  1.4  34  1.7  61
               S 1 1115 48.75  32.00  31.88  0.01 1.22
 QUA2 124.8 243 EPC1 1115 37.40  20.65  20.62  0.00 1.18 0.1 .16  1.5  39  1.9  53
               S 3 1115 53.79  37.04  36.70  0.28 0.39
 LBNH 174.8 336 EPC3 1115 44.40  27.65  28.08 -0.49 0.34                        40
               S 3 1116  4.35  47.60  49.98 -2.49 0.00
 PKME 305.4  26 EPC4 1116  1.09  44.34  44.20  0.12 0.00                        40



Run Hyp2000: Phase File: [28.X] Vel Mod: [11] ===> XX-File: 28.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Oct  9 12:14:00 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
200710091405 29.84 44-36.96  70-46.36  10.33  2.0 2.7      132  0.35  1.2  1.7
ME, 14.7KM WNW OF RUMFORD

 NSTA NPHS DMIN N.XMG N.FMG
   9  18  100.90   1   1

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
 LBNH 100.9 246 EPC0 1405 46.57  16.73  16.30  0.37 1.33               134  2.7  93
               S 0 1405 58.61  28.77  29.01 -0.35 1.33
 PKME 137.3  57 EPC0 1405 51.99  22.15  22.07  0.06 1.24                        92
               S 0 1406  6.78  36.94  39.28 -2.38 0.00
  MOQ 140.2 305 EPC2 1405 53.55  23.71  22.52  1.05 0.09                        92
               S 0 1406 10.33  40.49  40.09  0.16 1.23
  FFD 145.6 210 EPC0 1405 53.11  23.27  23.20  0.05 1.21                        51
               S 0 1406 11.66  41.82  41.30  0.49 1.21
  HNH 157.8 231 EPC0 1405 53.88  24.04  24.71 -0.70 1.10 0.3 .09  2.0           51
               S 0 1406 13.80  43.96  43.98 -0.08 1.18
  MDV 204.1 252 EPC4 1406  4.35  34.51  30.42  4.07 0.00                        51
               S 4 1406 26.41  56.57  54.15  2.39 0.00
 LONY 302.5 272 EPC4 1406 15.25  45.41  42.57  2.77 0.00                        51
               S 4 1406 52.85  83.01  75.77  7.11 0.00
  GGN 317.2  78 EPC0 1406 14.20  44.36  44.39 -0.04 0.55                        51
               S 0 1406 48.17  78.33  79.01 -0.70 0.52
  LMQ 327.8   5 EPC4 1406 22.55  52.71  45.69  6.95 0.00                        51
               S 4 1406 57.03  87.19  81.33  5.74 0.00
```

```
Run Hyp2000: Phase File: [32.X] Vel Mod: [6] ===> XX-File: 32.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Oct 23 11:02:18 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
200710130553 32.04 46-31.25  75- 7.09   2.35  2.6 3.2     262  0.18  2.0  2.9
CANADA, PQ, NEAR LAC-SAGUAY

 NSTA NPHS DMIN N.XMG N.FMG
  12  17  99.20   2   6

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
 MRHQ  99.2 134 EPC0  553 47.49  15.45  15.38  0.00 2.43                230  3.2  67
               S 2  553 59.36  27.32  27.38 -0.18 1.22
  MNT 161.9 133 EPC1  553 58.00  25.96  24.88  1.06 0.00                158  3.0  67
               S 2  554 16.59  44.55  44.29  0.23 1.06
 LONY 215.4 168 EPC0  554  4.64  32.60  32.64 -0.11 1.76                235  3.3  48
               S 3  554 30.23  58.19  58.10 -0.03 0.44
  MOQ 259.7 120 EPC2  554 10.67  38.63  38.11  0.38 0.72                212  3.3  48
  NCB 291.7 165 EPC0  554 14.53  42.49  42.06  0.33 1.20                232  3.4  48
               S 2  554 48.94  76.90  74.87  1.86 0.00
  MDV 318.8 150 EPC1  554 17.15  45.11  45.41 -0.32 0.75                     48
 LBNH 356.1 134 EPC2  554 23.56  51.52  50.01  1.45 0.00                     48
  LMQ 381.8  70 EPC1  554 24.86  52.82  53.19 -0.44 0.42                     48
  TRY 436.7 164 EPC4  554 38.34  66.30  59.96  6.29 0.00 0.1 .25  2.6  87  2.8  48
 BINY 485.8 189 EPC2  554 41.52  69.48  66.03  3.37 0.00                     48
 QUA2 520.3 153 EPC4  554 53.22  81.18  70.29 10.86 0.00 0.1 .20  2.6       48
 BATG 696.3  79 EPC1  555  2.63  90.59  92.01 -1.48 0.00                     48
               S 2  556  9.93 157.89 163.78 -5.99 0.00


Run Hyp2000: Phase File: [33.X] Vel Mod: [11] ===> XX-File: 33.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Oct 23 11:05:50 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
200710150106 27.30 44-29.67  68- 8.11   5.00  0.5 1.6     249  0.30  4.7  28.2
ME, 10KM NE OF BAR HARBOR

 NSTA NPHS DMIN N.XMG N.FMG
   3   6  58.90   1   3

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
 EMMW  58.9  65 EPC2  106 36.58   9.28   9.59 -0.32 1.35 0.1 .10  0.5  21  1.2  90
               S 3  106 47.06  19.76  17.07  2.67 0.00
  GGN 124.8  55 EPC2  106 47.80  20.50  20.06  0.43 1.22                33  1.8  90
               S 3  107  2.87  35.57  35.71 -0.15 0.61
 PKME 125.2 314 EPC2  106 47.50  20.20  20.12  0.06 1.22                49  2.0  90
               S 3  107  2.85  35.55  35.81 -0.30 0.61


Run Hyp2000: Phase File: [36.X] Vel Mod: [6] ===> XX-File: 36.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Oct 23 11:09:03 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
200710151821 27.88 45-57.74  73-25.41   0.04      2.4     200  0.21  1.1  1.9
CANADA, PQ, SOUTH OF JOLIETTE

 NSTA NPHS DMIN N.XMG N.FMG
   6  12 116.30   0   5

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
  MOQ 116.3 127 EPC1 1821 45.85  17.97  18.12 -0.29 2.30                55  2.1  67
               S 3 1822  0.55  32.67  32.25  0.17 0.77
 LONY 174.8 212 EPC1 1821 54.73  26.85  26.97 -0.19 1.98                80  2.4  67
               S 3 1822 16.01  48.13  48.01  0.00 0.66
  MDV 219.0 174 EPC3 1822  2.71  34.83  33.34  1.47 0.00                     48
               S 3 1822 27.51  59.63  59.35  0.25 0.56
 LBNH 224.8 147 EPC3 1822  1.77  33.89  34.05 -0.22 0.55                63  2.4  48
               S 3 1822 28.65  60.77  60.61  0.05 0.55
  NCB 229.9 197 EPC1 1822  2.65  34.77  34.68 -0.01 1.61                88  2.6  48
               S 3 1822 30.14  62.26  61.73  0.35 0.53
  LMQ 295.1  52 EPC1 1822 10.70  42.82  42.73  0.02 1.14                95  2.7  48
               S 3 1822 44.45  76.57  76.06  0.39 0.35


Run Hyp2000: Phase File: [37.X] Vel Mod: [11] ===> XX-File: 37.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Oct 23 11:10:20 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
200710162357 35.74 43-35.92  70-52.02   1.28  1.9 2.4     163  0.28  0.9  2.9
ME, 15.5KM NNW OF SANFORD

 NSTA NPHS DMIN N.XMG N.FMG
   9  17  65.20   3   4

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
  FFD  65.2 258 EPC0 2357 46.32  10.58  10.76 -0.20 1.88 2.0 .05  2.0 103  2.4  72
               S 2 2357 54.41  18.67  19.15 -0.52 0.94
 LBNH 111.0 311 EPC0 2357 53.80  18.06  18.02 -0.02 1.76                     72
               S 1 2358  8.11  32.37  32.08  0.19 1.32
  HNH 115.1 277 EPC0 2357 54.76  19.02  18.69  0.30 1.74                68  2.2  72
               S 2 2358  8.70  32.96  33.27 -0.36 0.87
  HRV 133.8 206 EPC4 2357 56.22  20.48  21.65 -1.20 0.00                     72
               S 3 2358 11.45  35.71  38.54 -2.88 0.00
  WES 139.9 196 EPC1 2357 56.99  21.25  22.61 -1.37 0.21 0.2 .20  1.9  95  2.5  72
               S 2 2358 12.95  37.21  40.25 -3.05 0.00
 QUA2 190.2 221 EPC0 2358  5.79  30.05  29.65  0.37 1.43 0.2 .10  1.9  94  2.6  47
               S 2 2358 25.17  49.43  52.78 -3.40 0.00
  MDV 191.5 285  S 3 2358 28.91  53.17  53.06  0.07 0.36                     47
 PKME 223.6  33 EPC0 2358  9.21  33.47  33.77 -0.32 1.26                     47
               S 2 2358 34.31  58.57  60.11 -1.58 0.00
  NCB 273.4 280 EPC3 2358 15.94  40.20  39.92  0.18 0.25                     47
               S 2 2358 49.42  73.68  71.06  2.44 0.00
```

```
Run Hyp2000: Phase File: [40.X] Vel Mod: [1] ===> XX-File: 40.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Oct 23 11:15:29 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
200710190523 52.96 42-32.23  71-29.77   0.48  2.5 3.0     136  0.31  0.9  3.4
MA, 1.94KM SW OF LITTLETON COMMON

 NSTA NPHS DMIN N.XMG N.FMG
  14  22   6.10   8  11

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
  HRV   6.1 237 EPC0  523 53.85   0.89   1.11 -0.25 1.42 24.1 .20  2.5 171  2.7  61
  WES  22.2 139 EPC0  523 56.75   3.79   3.76  0.02 1.41 3.0 .10  1.9 222  3.1  61
  BCX  35.0 129 EPC1  523 58.66   5.70   5.87 -0.20 1.06 2.5 .25  2.3 144  2.7  61
 BRYW  68.6 183 EPC0  524  4.65  11.69  11.42  0.21 1.37 2.9 .10  2.4           61
                S 2  524 13.00  20.04  20.33 -0.39 0.68
 QUA2  76.1 249 EPC0  524  5.74  12.78  12.65  0.10 1.36 5.0 .10  2.7 135  2.7  61
 UCCT 102.2 217 EPC0  524  9.92  16.96  16.96 -0.03 1.30                       61
                S 1  524 22.61  29.65  30.19 -0.59 0.98
  FFD 104.4 353 EPC0  524 10.04  17.08  17.33 -0.27 1.30 9.3 .16  3.3 183  3.0  61
                S 2  524 22.43  29.47  30.85 -1.41 0.00
  HNH 144.8 334 EPC0  524 16.85  23.89  23.68  0.18 1.19 2.8 .10  2.9 139  2.8  53
                S 2  524 33.09  40.13  42.15 -2.07 0.00
  TRY 179.3 278 EPC0  524 22.27  29.31  28.66  0.60 1.08 0.4 .10  2.2 128  2.8  40
                S 2  524 42.75  49.79  51.01 -1.31 0.00
 LBNH 192.4 350 EPC0  524 22.72  29.76  30.28 -0.58 1.04           172  3.1  40
  MDV 212.4 321 EPC1  524 25.42  32.46  32.75 -0.31 0.72                       40
  NCB 272.9 307 EPC1  524 32.94  39.98  40.23 -0.35 0.54           189  3.2  40
                S 2  525  6.06  73.10  71.61  1.31 0.00
 LONY 340.2 314 EPC0  524 41.01  48.05  48.53 -0.55 0.45           183  3.2  40
                S 1  525 25.39  92.43  86.38  5.92 0.00
 PKME 351.0  29 EPC1  524 41.84  48.88  49.86 -1.00 0.10           192  3.3  40
                S 2  525 30.11  97.15  88.75  8.36 0.00



Run Hyp2000: Phase File: [45.X] Vel Mod: [1] ===> XX-File: 45.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Oct 23 11:16:42 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
200710191004 47.04 42-32.71  71-28.92   0.02  0.9 1.1     150  0.10  1.3  2.6
MA, 0.7KM W OF LITTLETON COMMON

 NSTA NPHS DMIN N.XMG N.FMG
   6   9   7.60   3   3

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
  HRV   7.6 236 EPC0 1004 48.33   1.29   1.39 -0.13 1.88                20  0.7  61
                S 0 1004 49.58   2.54   2.47  0.01 1.88
  WES  22.2 143 EPC1 1004 50.96   3.92   3.79  0.12 1.41 0.0 .13  0.1  20  0.9  61
                S 2 1004 53.69   6.65   6.75 -0.11 0.94
 BRYW  69.6 184  S 3 1005  7.39  20.35  20.68 -0.44 0.00                       61
 QUA2  77.5 248 EPC3 1005  0.58  13.54  12.93  0.58 0.00 0.1 .11  1.0           61
                S 3 1005 10.24  23.20  23.02  0.13 0.45
 UCCT 103.6 217  S 4 1005 16.87  29.83  30.67 -0.89 0.00                       61
  FFD 103.7 353 EPC3 1005  4.32  17.28  17.25  0.01 0.43 0.3 .15  1.7  27  1.6  61



Run Hyp2000: Phase File: [48.X] Vel Mod: [2] ===> XX-File: 48.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Oct 23 11:17:47 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
200710212346 24.58 43- 1.16  71-51.39   6.43  1.7 2.3     129  0.43  1.3  4.2
NH, 5.2KM ENE OF BENNINGTON

 NSTA NPHS DMIN N.XMG N.FMG
   9  16  52.70   4   4

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
  FFD  52.7  18 EPC1 2346 33.09   8.51   8.88 -0.39 1.92 2.5 .10  2.2  76  2.1  90
                S 2 2346 38.73  14.15  15.81 -1.69 0.00
  HRV  62.0 156 EPC3 2346 35.53  10.95  10.40  0.52 0.64                      90
                S 2 2346 42.92  18.34  18.51 -0.23 1.27
  WES  83.0 147 EPC2 2346 38.99  14.41  13.81  0.59 1.24 0.2 .25  1.5  86  2.3  90
                S 3 2346 48.45  23.87  24.58 -0.73 0.61
  HNH  83.8 336 EPC2 2346 39.15  14.57  13.94  0.60 1.24 0.2 .10  1.4           90
                S 2 2346 49.21  24.63  24.81 -0.24 1.24
 QUA2  91.7 207 EPC2 2346 39.24  14.66  15.23 -0.60 1.22 0.2 .15  1.5  83  2.3  90
                S 2 2346 51.67  27.09  27.11 -0.07 1.22
 BRYW 125.0 167  S 3 2347  1.31  36.73  36.45  0.17 0.58                      72
 LBNH 135.7 358 EPC2 2346 47.10  22.52  22.14  0.32 1.13                98  2.5  72
                S 4 2347  2.04  37.46  39.41 -2.06 0.00
  MDV 152.7 316 EPC4 2346 50.78  26.20  24.78  1.40 0.00                      72
  NCB 218.8 300 EPC3 2346 57.26  32.68  33.56 -0.98 0.25                      49
                S 3 2347 24.52  59.94  59.74  0.03 0.43



Run Hyp2000: Phase File: [50.X] Vel Mod: [12] ===> XX-File: 50.XX

 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon Oct 29 12:32:38 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
200710242149 15.97 45-47.82  72- 2.03   0.02      2.5     118  0.12  0.8  1.9
CANADA, PQ, 5KM W OF ASBESTOS

 NSTA NPHS DMIN N.XMG N.FMG
   7  11  56.60   0   5

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
  MOQ  56.6 198 EPC0 2149 25.63   9.66   9.53 -0.01 1.70                76  2.2  71
 MRHQ 169.6 275 EPC1 2149 43.46  27.49  27.52 -0.10 1.03                      64
                S 2 2150  3.96  47.99  48.99 -1.12 0.00
 LBNH 173.2 177 EPC1 2149 44.21  28.24  28.10  0.08 1.02                76  2.4  64
                S 2 2150  4.77  48.80  50.02 -1.32 0.00
 PKME 222.3 104 EPC0 2149 50.44  34.47  34.47 -0.02 1.13               100  2.7  44
  LMQ 234.5  33 EPC0 2149 51.91  35.94  35.97 -0.10 1.08               104  2.7  44
```

```
                 S 2 2150 19.81  63.84  64.03 -0.31 0.49
 LONY 239.2 238 EPC0 2149 52.88  36.91  36.56  0.28 1.03              106  2.7  44
                 S 2 2150 21.19  65.22  65.08  0.02 0.53
  NCB 266.4 222 EPC1 2149 56.53  40.56  39.92  0.54 0.00                          44



Run Hyp2000: Phase File: [56.X] Vel Mod: [12] ===> XX-File: 56.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon Oct 29 14:13:16 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
200710280947 18.66 46-31.36  77- 8.22   3.41       3.5      91  0.48  0.7  1.6
CANADA, ONTARIO, 53KM NNE OF PETAWAWA

 NSTA NPHS DMIN N.XMG N.FMG
  27  51  57.10   0   3

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
 CRLO  57.1 200 EPC0  947 28.75  10.09   9.47  0.59 1.51                        72
                 S 0  947 36.12  17.46  16.86  0.55 1.51
 PEMO  94.3 186 EPC0  947 34.35  15.69  15.38  0.28 1.44                        72
                 S 0  947 46.02  27.36  27.38 -0.07 1.44
 ALGO  94.7 229 EPC0  947 34.21  15.55  15.43  0.08 1.44                        72
                 S 0  947 46.23  27.57  27.47  0.03 1.44
  GRQ  98.4  84 EPC0  947 34.85  16.19  16.02  0.12 1.43                        72
                 S 0  947 46.99  28.33  28.52 -0.27 1.43
  EEO 149.0 276 EPC0  947 41.82  23.16  24.06 -0.97 1.29                        72
                 S 0  947 59.91  41.25  42.83 -1.70 0.31
  GAC 157.3 124 EPC0  947 37.80  19.14  25.37 -6.24 0.00                        72
                 S 0  947 57.17  38.51  45.16 -6.67 0.00
 PLVO 164.9 178 EPC0  947 45.05  26.39  26.58 -0.19 1.23                        72
                 S 0  948  5.65  46.99  47.31 -0.32 1.23
  OTT 166.9 138 EPC0  947 45.94  27.28  26.90  0.37 1.22                        72
                 S 0  948  5.89  47.23  47.88 -0.67 1.22
 BANO 178.0 201 EPC0  947 46.68  28.02  28.61 -0.65 1.18                        47
                 S 0  948  9.54  50.88  50.93 -0.15 1.18
 VLDQ 178.3 353 EPC0  947 48.40  29.74  28.65  1.07 1.17                        47
                 S 0  948  9.70  51.04  51.00  0.01 1.18
 ALFO 200.6 118 EPC0  947 49.94  31.28  31.41 -0.13 1.09                        47
  TRQ 201.4  98 EPC0  947 49.90  31.24  31.50 -0.26 1.09                        47
                 S 0  948 15.14  56.48  56.07  0.41 1.09
 MPPO 206.3 160 EPC0  947 50.83  32.17  32.11  0.04 1.07                        47
                 S 0  948 16.75  58.09  57.16  0.90 1.07
 RSPO 208.2 258 EPC0  947 50.85  32.19  32.34 -0.19 1.06                        47
                 S 0  948 16.41  57.75  57.57  0.11 1.06
 BUKO 212.5 237 EPC0  947 51.34  32.68  32.87 -0.24 1.05                        47
  WBO 222.7 138 EPC0  947 52.70  34.04  34.13 -0.10 1.00                        47
                 S 0  948 17.52  58.86  60.75 -1.91 0.04
 DELO 226.0 190 EPC0  947 53.51  34.85  34.53  0.28 0.99                        47
                 S 0  948 18.85  60.19  61.46 -1.34 0.76
 SADO 249.8 220 EPC0  947 55.75  37.09  37.47 -0.42 0.89                        47
  DPQ 334.6  85 EPC0  948 15.38  56.72  47.94  8.75 0.00                        47
                 S 0  948 40.90  82.24  85.33 -3.15 0.00
  NCB 364.2 140 EPC0  948  9.94  51.28  51.60 -0.42 0.40              298  3.6  47
                 S 0  948 49.57  90.91  91.85 -1.12 0.39
  DAQ 474.4  68 EPC0  948 21.63  62.97  65.20 -2.39 0.00                        47
                 S 0  949  9.23 110.57 116.06 -5.77 0.00
 LBNH 480.7 120 EPC0  948 24.41  65.75  65.99 -0.30 0.06              237  3.5  47
                 S 0  949 20.39 121.73 117.46  4.16 0.00
 BINY 489.8 168 EPC0  948 25.46  66.80  67.10 -0.38 0.05                        47
                 S 0  949 15.59 116.93 119.44 -2.65 0.00
  HNH 493.8 127 EPC4  948  0.13  41.47  67.60 26.16 0.00                        47
                 S 2  949 20.65 121.99 120.33  1.61 0.01
 QUA2 606.5 139 EPC3  948 16.87  58.21  81.51 23.33 0.00                        47
                 S 3  949 41.30 142.64 145.09 -2.50 0.00
 PKME 625.4 100 EPC0  948 41.66  83.00  83.85 -0.87 0.00              224  3.5  47
                 S 0  949 48.30 149.64 149.25  0.35 0.00
  WES 652.7 132 EPC3  948 38.91  80.25  87.21 -6.97 0.00                        47
                 S 2  950  3.90 165.24 155.23  9.99 0.00



Run Hyp2000: Phase File: [73.X] Vel Mod: [3] ===> XX-File: 73.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon Nov 12 15:53:24 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
200711062247 58.66 43-44.21  74-59.07   4.53       2.6     122  0.25  0.6  2.0
NY, 57KM NNE OF UTICA

 NSTA NPHS DMIN N.XMG N.FMG
  15  30  60.30   0   2

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
 WCNY  60.3 297 EPC0 2248  7.66   9.00   9.27 -0.31 1.15                        93
                 S 0 2248 15.06  16.40  16.50 -0.17 1.15
  NCB  66.6  66 EPC0 2248  8.70  10.04  10.24 -0.30 1.14              116  2.5  93
                 S 0 2248 17.01  18.35  18.23 -0.06 1.14
  PTN  92.5   0 EPC0 2248 12.73  14.07  14.19 -0.15 1.11                        92
                 S 0 2248 23.78  25.12  25.26 -0.19 1.11
 LONY 103.2  17 EPC0 2248 14.46  15.80  15.82 -0.09 1.09              112  2.6  92
                 S 0 2248 27.36  28.70  28.16  0.42 1.09
 ACCN 113.4 109 EPC0 2248 15.78  17.12  17.37 -0.31 1.07                        91
                 S 0 2248 29.73  31.07  30.92  0.04 1.07
  MIV 122.4  71 EPC0 2248 17.06  18.40  18.75 -0.40 1.05                        91
                 S 0 2248 32.29  33.63  33.38  0.17 1.05
 HCNY 125.0 157 EPC0 2248 18.27  19.61  19.14  0.42 1.04                        91
                 S 0 2248 34.07  35.41  34.07  1.25 0.00
 KGNO 132.7 295 EPC0 2248 19.13  20.47  20.33  0.13 1.02                        91
                 S 0 2248 35.48  36.82  36.19  0.61 0.50
  MDV 147.9  78 EPC0 2248 21.27  22.61  22.64 -0.05 0.99                        91
                 S 0 2248 39.43  40.77  40.30  0.44 0.98
 MPPO 153.7 319 EPC0 2248 22.23  23.57  23.54  0.01 0.97                        91
                 S 0 2248 40.78  42.12  41.90  0.18 0.97
  TRY 154.8 135 EPC4 2247 57.29  -1.37  23.71 25.13 0.00                        91
                 S 3 2248 38.58  39.92  42.20 -2.37 0.00
 PECO 163.1 279 EPC0 2248 23.73  25.07  24.97  0.08 0.95                        91
                 S 0 2248 43.44  44.78  44.45  0.30 0.95
 FRNY 165.3  41 EPC0 2248 23.83  25.17  25.30 -0.17 0.94                        91
                 S 0 2248 44.02  45.36  45.03  0.25 0.94
 PLVO 220.7 312 EPC0 2248 32.41  33.75  33.50  0.25 0.78                        53
                 S 0 2248 58.11  59.45  59.63 -0.18 0.78
 QUA2 268.9 126 EPC4 2248 34.40  35.74  39.45 -3.74 0.00                        53
```

```
                S 3 2249  8.08  69.42  70.22 -0.85 0.00


Run Hyp2000: Phase File: [69.X] Vel Mod: [2] ===> XX-File: 69.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon Nov 12 13:51:12 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
200711070621 47.20 43-10.16  71-52.68   8.04  1.8 2.3     124  0.23  0.8  2.4
NH, 25KM WSW OF CONCORD

 NSTA NPHS DMIN N.XMG N.FMG
  10  17  38.00   5   8

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
  FFD  38.0  28 EPC0  621 53.81   6.61   6.52  0.07 1.55 6.1 .16  2.6  99  2.4  95
                S 2  621 58.37  11.17  11.61 -0.47 0.78
  HNH  68.1 332 EPC2  621 58.84  11.64  11.40  0.21 0.76 0.2 .20  1.4  84  2.3  92
  HRV  78.2 160 EPC0  622  0.14  12.94  13.03 -0.12 1.49               62  2.1  91
  WES  98.3 152 EPC0  622  3.50  16.30  16.26  0.03 1.45 0.4 .05  1.6  75  2.3  72
                S 2  622 14.36  27.16  28.94 -1.80 0.00
 QUA2 106.3 202 EPC0  622  4.79  17.59  17.49  0.07 1.43 0.4 .05  1.7  84  2.4  72
                S 2  622 17.17  29.97  31.13 -1.22 0.00
 LBNH 119.0 359 EPC1  622  7.23  20.03  19.47  0.50 1.05               98  2.5  72
                S 2  622 21.36  34.16  34.66 -0.60 0.68
  MDV 139.9 312 EPC2  622 11.58  24.38  22.71  1.65 0.00               70  2.3  72
 BRYW 141.6 168 EPC1  622 10.28  23.08  22.98  0.04 1.00 0.3 .10  1.8          72
                S 2  622 26.95  39.75  40.90 -1.26 0.00
  TRY 153.8 253 EPC2  622 12.12  24.92  24.87  0.00 0.64                    72
                S 2  622 31.11  43.91  44.27 -0.45 0.64
  NCB 209.5 297 EPC1  622 21.15  33.95  32.23  1.62 0.00               95  2.6  49
                S 2  622 44.66  57.46  57.37 -0.09 0.54


Run Hyp2000: Phase File: [74.X] Vel Mod: [1] ===> XX-File: 74.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Tue Nov 20 15:05:23 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
200711201641 50.02 42-58.28  71- 1.25   0.79  2.4 2.4     232  0.19  2.4  2.8
NH, 5.25KM WSW OF EXETER

 NSTA NPHS DMIN N.XMG N.FMG
  15  30  69.70   7   8

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
  WES  69.7 201 EPC0 1642  1.56  11.54  11.57 -0.04 1.79 2.0 .06  2.1  58  2.0  61
                S 2 1642 10.56  20.54  20.59 -0.07 0.90
  BCX  71.7 190 EPC0 1642  1.78  11.76  11.91 -0.18 1.79 2.0 .10  2.3  73  2.2  61
                S 3 1642 10.68  20.66  21.20 -0.59 0.42
  FFD  75.6 318 EPC0 1642  2.71  12.69  12.54  0.13 1.78 8.2 .10  2.9  82  2.3  61
                S 0 1642 12.36  22.34  22.32 -0.02 1.78
 BRYW 124.2 201 EPC0 1642 10.76  20.74  20.52  0.16 1.64 1.4 .19  2.6  56  2.1  53
                S 4 1642 24.11  34.09  36.53 -2.54 0.00
  HNH 131.1 309 EPC0 1642 11.57  21.55  21.56 -0.04 1.62 0.8 .10  2.2 152  2.9  53
                S 2 1642 27.89  37.87  38.38 -0.56 0.80
 QUA2 133.6 236 EPC0 1642 12.22  22.20  21.94  0.23 1.61 1.6 .10  2.6  61  2.2  53
                S 3 1642 28.20  38.18  39.05 -0.93 0.04
 LBNH 158.8 333 EPC1 1642 14.58  24.56  25.76 -1.26 0.00                    53
                S 2 1642 33.62  43.60  45.85 -2.36 0.00
  WVL 204.7  31 EPC2 1642 19.36  29.34  31.75 -2.42 0.00 0.5 .15  2.4          40
                S 4 1642 38.27  48.25  56.51 -8.28 0.00
  MDV 208.8 304 EPC2 1642 22.49  32.47  32.26  0.19 0.64                    40
                S 3 1642 46.30  56.28  57.42 -1.18 0.00
  TRY 217.9 264 EPC3 1642 23.03  33.01  33.39 -0.43 0.31                    40
                S 4 1642 47.32  57.30  59.43 -2.22 0.00
  NCB 282.0 295 EPC1 1642 30.88  40.86  41.31 -0.55 0.67              138  3.0  40
                S 3 1643  4.49  74.47  73.53  0.76 0.12
 PKME 290.0  27 EPC2 1642 27.86  37.84  42.28 -4.46 0.00              139  2.9  40
                S 4 1642 56.65  66.63  75.26 -8.66 0.00
 LONY 340.3 304 EPC3 1642 37.84  47.82  48.49 -0.74 0.09                    40
                S 4 1643 16.14  86.12  86.31 -0.32 0.00
  GGN 412.5  53 EPC2 1642 41.91  51.89  57.42 -5.54 0.00                    40
                S 3 1643 22.02  92.00 102.21 10.23 0.00
  LMQ 511.6   5 EPC2 1643 50.25 120.23  69.65 50.51 0.00                    40
                S 4 1644  4.94 134.92 123.98 10.82 0.00


Run Hyp2000: Phase File: [76.X] Vel Mod: [1] ===> XX-File: 76.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon Nov 26 12:52:09 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
200711220015 19.83 41-41.26  71-33.65  19.04  1.4 2.3     302  0.05  1.4  1.7
RI, 12.9KM W OF WARWICK

 NSTA NPHS DMIN N.XMG N.FMG
   9  14  25.90   3   3

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
 BRYW  25.9   4 EPC0   15 25.04   5.21   5.18 -0.03 1.90 0.7 .11  1.3  89  2.2 121
                S 2   15 29.21   9.38   9.22  0.05 0.95
  BCX  78.8  24 EPC4   15 33.95  14.12  12.90  1.19 0.00                    96
                S 4   15 44.46  24.63  22.96  1.61 0.00
  WES  79.9  14 EPC2   15 32.96  13.13  13.06  0.06 0.91 0.1 .17  1.1  86  2.3  96
                S 3   15 42.94  23.11  23.25 -0.15 0.45
 QUA2  92.8 316 EPC1   15 34.89  15.06  15.00  0.03 1.34 0.3 .11  1.6  79  2.3  95
                S 3   15 46.48  26.65  26.70 -0.10 0.45
  FFD 198.1 358  S 4   16 14.64  54.81  51.76  3.01 0.00                    54
  TRY 208.9 305  S 4   16 17.21  57.38  54.13  3.16 0.00                    54
  HNH 231.9 346 EPC4   15 49.47  29.64  33.24 -3.63 0.00                    54
                S 4   16 25.57  65.74  59.17  6.52 0.00
 LBNH 285.1 355  S 4   16 39.98  80.15  70.88  9.16 0.00                    54
 PKME 437.8  24  S 4   17 24.48 124.65 104.41 20.20 0.00                    54


Run Hyp2000: Phase File: [79.X] Vel Mod: [11] ===> XX-File: 79.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Mon Dec 17 10:06:36 2007      RUN LABEL=
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 CRUST MODEL  1: 11. SOUTHEAST MAINE CRUSTAL MO

  DATE     ORIGIN    LAT N    LONG W   DEPTH   MN  MC  ML GAP   RMS  ERH  ERZ Q
200712111002 10.28 43-58.04  70- 1.41   1.95  2.2 2.6     145  0.34  0.9  1.4
ME, 6.2KM NW OF BRUNSWICK

 NSTA NPHS DMIN N.XMG N.FMG
  12  24  68.70   6  12

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
  WVL  68.7  24 EPC1 1002 20.81  10.53  11.28 -0.76 1.13 0.6 .05  1.5  69  2.1  72
                S 3 1002 29.18  18.90  20.08 -1.20 0.00
  FFD 142.5 248 EPC0 1002 33.06  22.78  23.00 -0.24 1.80 3.9 .10  3.0  86  2.4  72
                S 2 1002 50.57  40.29  40.94 -0.69 0.82
 LBNH 155.3 282 EPC0 1002 35.81  25.53  25.03  0.44 1.74               114  2.7  72
                S 0 1002 54.92  44.64  44.55 -0.02 1.74
 PKME 155.4  21 EPC0 1002 35.59  25.31  25.04  0.25 1.74               120  2.7  72
                S 2 1002 54.55  44.27  44.57 -0.34 0.87
  HNH 184.3 262 EPC1 1002 38.26  27.98  28.85 -0.90 0.35 0.2 .10  2.0 110  2.7  47
                S 2 1003  1.26  50.98  51.35 -0.43 0.80
  WES 205.1 212 EPC1 1002 41.32  31.04  31.41 -0.38 1.11 0.1 .10  1.8 105  2.7  47
                S 2 1003  6.61  56.33  55.91  0.40 0.74
 EMMW 220.6  67 EPC0 1002 43.96  33.68  33.33  0.34 1.39 0.5 .10  2.5 107  2.7  47
                S 2 1003  8.43  58.15  59.33 -1.20 0.00
  MOQ 231.6 311 EPC3 1002 45.79  35.51  34.69  0.68 0.31               102  2.7  47
                S 0 1003 12.20  61.92  61.75 -0.08 1.33
  MDV 253.4 272 EPC0 1002 47.90  37.62  37.38  0.22 1.20               105  2.7  47
                S 1 1003 16.99  66.71  66.54  0.14 0.90
 QUA2 266.7 227 EPC0 1002 49.32  39.04  39.01  0.00 1.12 0.1 .10  2.1 105  2.7  47
                S 2 1003 20.36  70.08  69.44  0.59 0.56
  GGN 284.8  62 EPC0 1002 51.52  41.24  41.25 -0.02 1.01               102  2.7  47
                S 2 1003 23.15  72.87  73.42 -0.57 0.50
  NCB 337.1 272 EPC0 1002 58.24  47.96  47.71  0.15 0.70               106  2.8  47
                S 3 1003 35.81  85.53  84.92  0.43 0.17



Run Hyp2000: Phase File: [80.X] Vel Mod: [6] ===> XX-File: 80.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Thu Dec 27 13:31:41 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
200712232348 36.94 46- 4.82  77- 5.18   7.44      3.6     286  0.44 17.5  23.4
CANADA, SOUTHERN QUEBEC, 12.8KM N OF CHICHESTER


 NSTA NPHS DMIN N.XMG N.FMG
  16  31  223.70   0   7

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
 MRHQ 223.7  94 EPC0 2349  9.73  32.79  33.19 -0.47 2.08               255  3.4  54
                S 0 2349 36.13  59.19  59.08 -0.01 2.08
 LONY 254.7 128 EPC0 2349 14.61  37.67  37.01  0.59 1.80               275  3.5  54
                S 0 2349 42.90  65.96  65.88 -0.04 1.80
  MNT 276.9 102 EPC0 2349 16.98  40.04  39.76  0.26 1.59                    54
                S 0 2349 49.49  72.55  70.77  1.74 0.39
  NCB 325.2 135 EPC0 2349 22.23  45.29  45.72 -0.53 1.16               289  3.6  54
                S 0 2349 58.11  81.17  81.38 -0.39 1.16
  MOQ 386.1 101 EPC0 2349 31.29  54.35  53.24  0.97 0.66               250  3.5  54
                S 0 2350 12.82  95.88  94.77  0.86 0.66
 BINY 440.8 168 EPC0 2349 35.70  58.76  59.99 -1.31 0.25                    54
                S 0 2350 18.60 101.66 106.78 -5.26 0.00
 LBNH 454.6 114 EPC0 2349 39.53  62.59  61.69  0.84 0.23               286  3.6  54
                S 0 2350 37.60 120.66 109.81 10.74 0.00
  TRY 461.3 142 EPC1 2349 45.87  68.93  62.53  6.35 0.00                    54
                S 1 2350 27.29 110.35 111.30 -1.04 0.15
  HNH 462.1 123 EPC0 2349 54.91  77.97  62.62 15.32 0.00                    54
                S 0 2350 40.20 123.26 111.46 11.74 0.00
  FFD 518.9 122 EPC0 2350  4.19  87.25  69.64 17.59 0.00                    54
                S 0 2350 54.91 137.97 123.96 13.98 0.00
  LMQ 541.5  69 EPC0 2349 46.59  69.65  72.42 -2.84 0.00               277  3.6  54
                S 0 2350 43.40 126.46 128.91 -2.57 0.00
  A11 543.2  73 EPC0 2349 46.68  69.74  72.64 -2.91 0.00                    54
                S 0 2350 44.90 127.96 129.30 -1.36 0.00
 QUA2 567.3 136 EPC1 2350  8.90  91.96  75.61 16.32 0.00                    54
                S 0 2351  5.99 149.05 134.59 14.41 0.00
 PKME 614.8  95 EPC0 2349 57.49  80.55  81.47 -0.94 0.00               263  3.6  54
                S 0 2351  1.50 144.56 145.02 -0.49 0.00
  WES 617.3 129 EPC2 2350  4.99  88.05  81.78  6.26 0.00                    54
                S 3 2351 14.93 157.99 145.57 12.40 0.00
 SCHQ   0.0  32 EPC0 2351  6.95 150.01 155.60 -5.67 0.00                    54



Run Hyp2000: Phase File: [82.X] Vel Mod: [6] ===> XX-File: 82.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Fri Dec 28 13:59:46 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
200712280005 46.08 44-41.02  72- 4.35   3.44  1.0 2.4      94  0.68  2.2  6.7
VERMONT, 21KM NNW OF ST. JOHNSBURY

 NSTA NPHS DMIN N.XMG N.FMG
   7  14  50.70   1   4

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
 LBNH  50.7 166 EPC0    5 53.90   7.82   7.96 -0.20 1.86                77  2.1  67
                S 0    5 59.59  13.51  14.17 -0.77 1.86
  MOQ  71.3 349 EPC0    5 57.02  10.94  11.08 -0.28 1.82                    67
                S 0    6  5.33  19.25  19.72 -0.72 1.82
  HNH 110.1 190 EPC4    5 45.39  -0.69  16.96 17.68 0.00 0.1 .10  1.0       67
                S 3    6 16.38  30.30  30.19  0.06 0.43
  MDV 116.6 230 EPC1    6  2.76  16.68  17.95 -1.29 1.00                83  2.3  67
                S 3    6 19.36  33.28  31.95  1.29 0.33
  NCB 188.8 247 EPC0    6 15.75  29.67  28.89  0.68 1.40                64  2.3  67
                S 3    6 38.52  52.44  51.42  0.84 0.35
 MRHQ 214.7 310 EPC2    6 19.24  33.16  32.43  0.66 0.64                    48
                S 3    6 42.70  56.62  57.73 -1.23 0.28
 PKME 228.7  72 EPC0    6 21.25  35.17  34.17  0.98 1.20               106  2.7  48
                S 3    6 45.22  59.14  60.82 -1.72 0.03
```

```
Run Hyp2000: Phase File: [84.X] Vel Mod: [11] ===> XX-File: 84.XX
 HYPOINVERSE 2000 (10/2006 VERSION) RUN ON Wed Jan  2 16:26:46 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
200712301201 56.62 45- 3.70  66-49.57   0.02  1.5 2.3      173  0.52  2.6  3.5
CANADA, NB, Passamaquoddy Bay

 NSTA NPHS DMIN N.XMG N.FMG
   6  12   6.20   1   4

  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG ANG
  GGN   6.2   3 EPC1 1201 57.30   0.68   1.08 -0.41 1.30                37  1.3  90
                S 1 1201 57.95   1.33   1.92 -0.61 1.30
 EMMW  63.4 233 EPC1 1202  6.95  10.33  10.56 -0.24 1.26 0.3 .14  1.5 162  2.8  64
                S 2 1202 14.02  17.40  18.80 -1.41 0.30
  LMN 180.8  60 EPC1 1202 25.42  28.80  28.64  0.10 0.98                98  2.6  44
                S 4 1202 45.87  49.25  50.98 -1.84 0.00
 PKME 195.2 278 EPC1 1202 28.04  31.42  30.42  0.98 0.92                99  2.6  44
                S 1 1202 50.44  53.82  54.15 -0.36 0.94
 BATG 253.2  13 EPC4 1202 35.03  38.41  37.58  0.77 0.00                    44
                S 3 1203  7.55  70.93  66.89  3.93 0.00
 LBNH 414.9 260 EPC4 1203  1.16  64.54  57.55  6.93 0.00                    44
                S 3 1203 51.56 114.94 102.44 12.39 0.00
```

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TABLE 5

MICROEARTHQUAKES AND OTHER NON-LOCATABLE EVENTS

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

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NESN Station Map

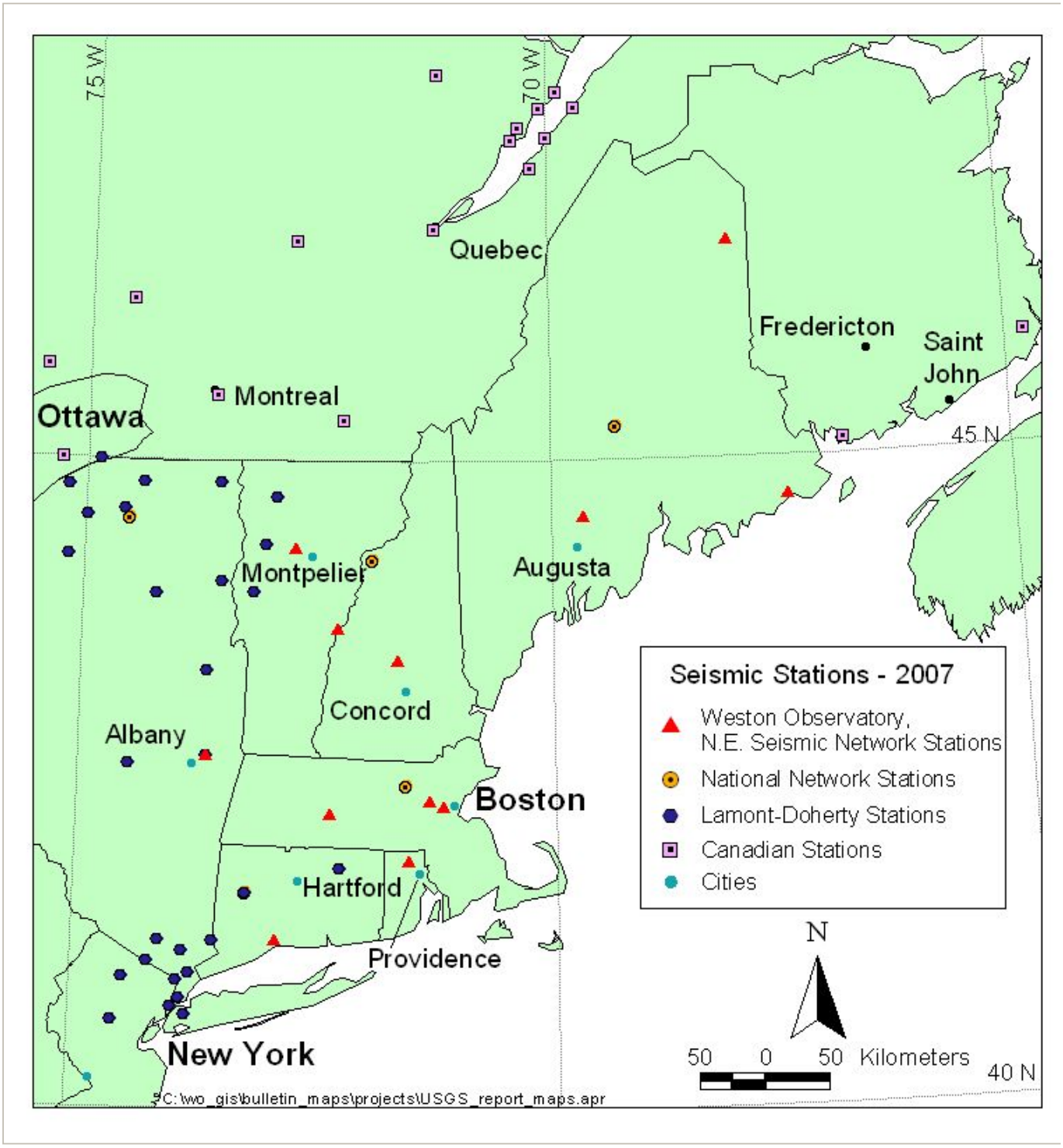

Figure 1: Map of stations of the New England Seismic Network (NESN) in operation during the period of this report. Also included are other Northeast U.S. and Canadian seismic stations in operation during this period.

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NESN Strong-Motion Station Map

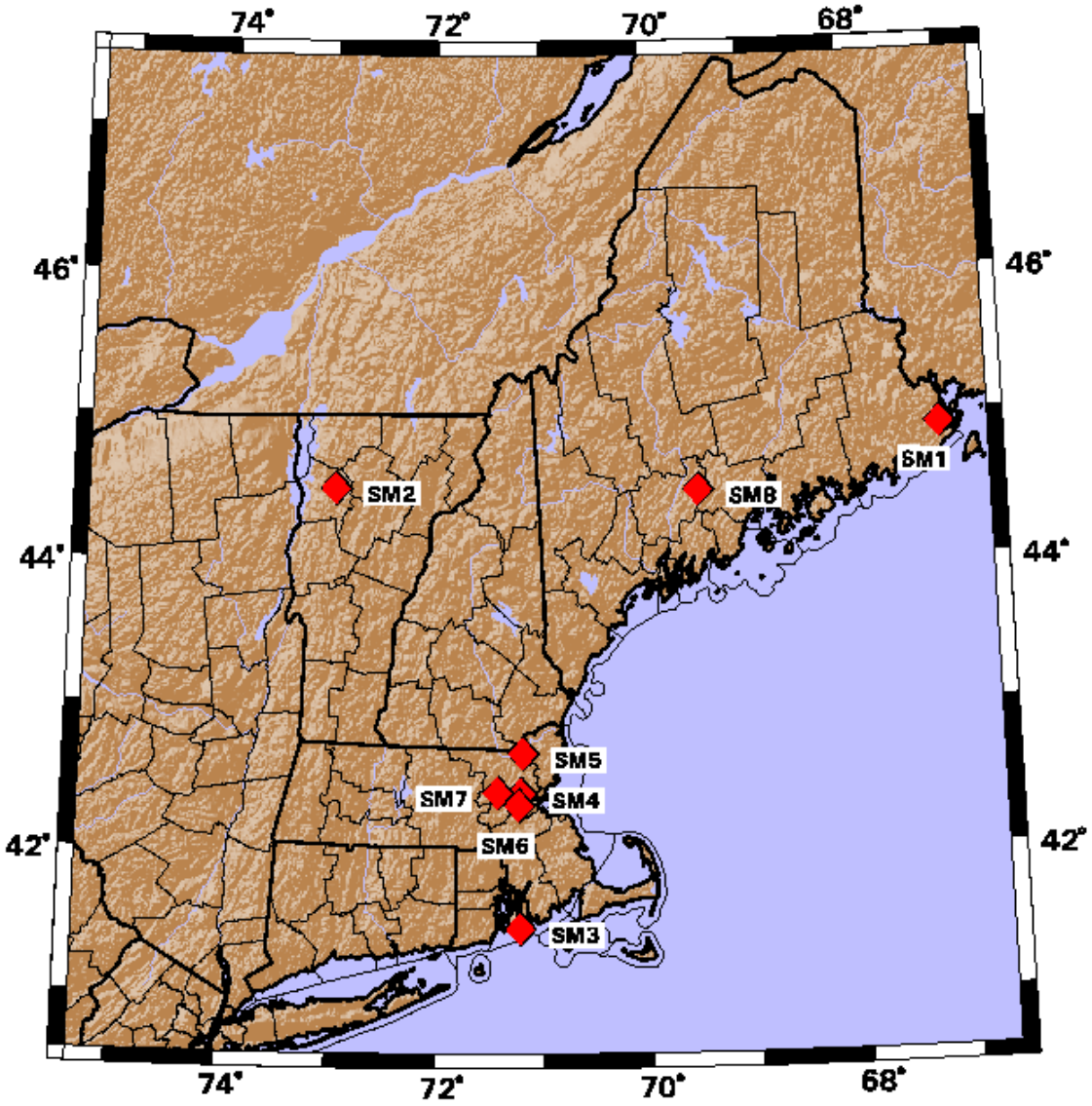

Figure 2: Map of strong-motion stations of the New England Seismic Network (NESN) in operation during the period of this report.

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NESN Quarterly Seismicity Map

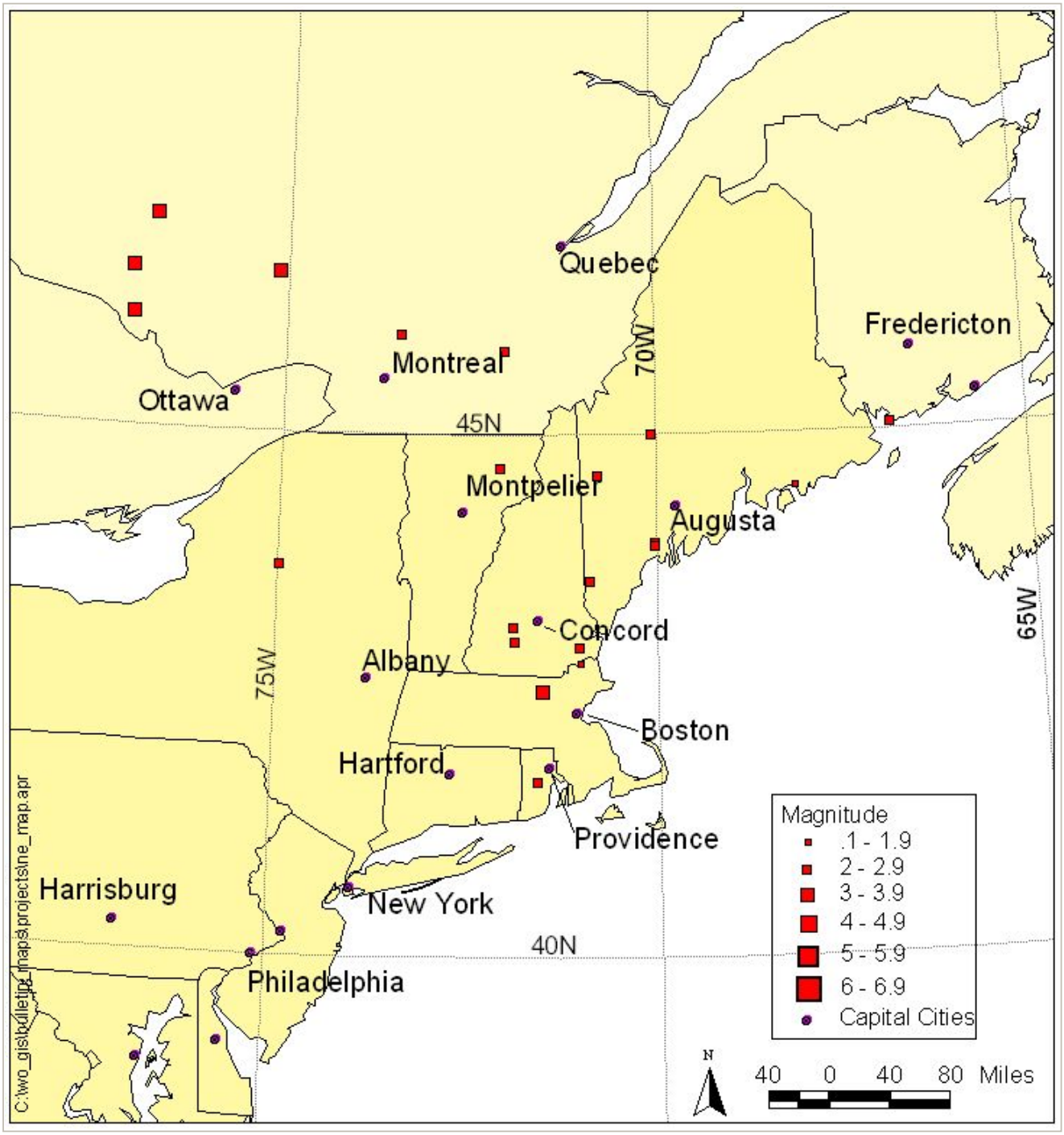

Figure 3: Earthquake epicenters located by the NESN during the period of this report.

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NESN Cumulative Seismicity Map

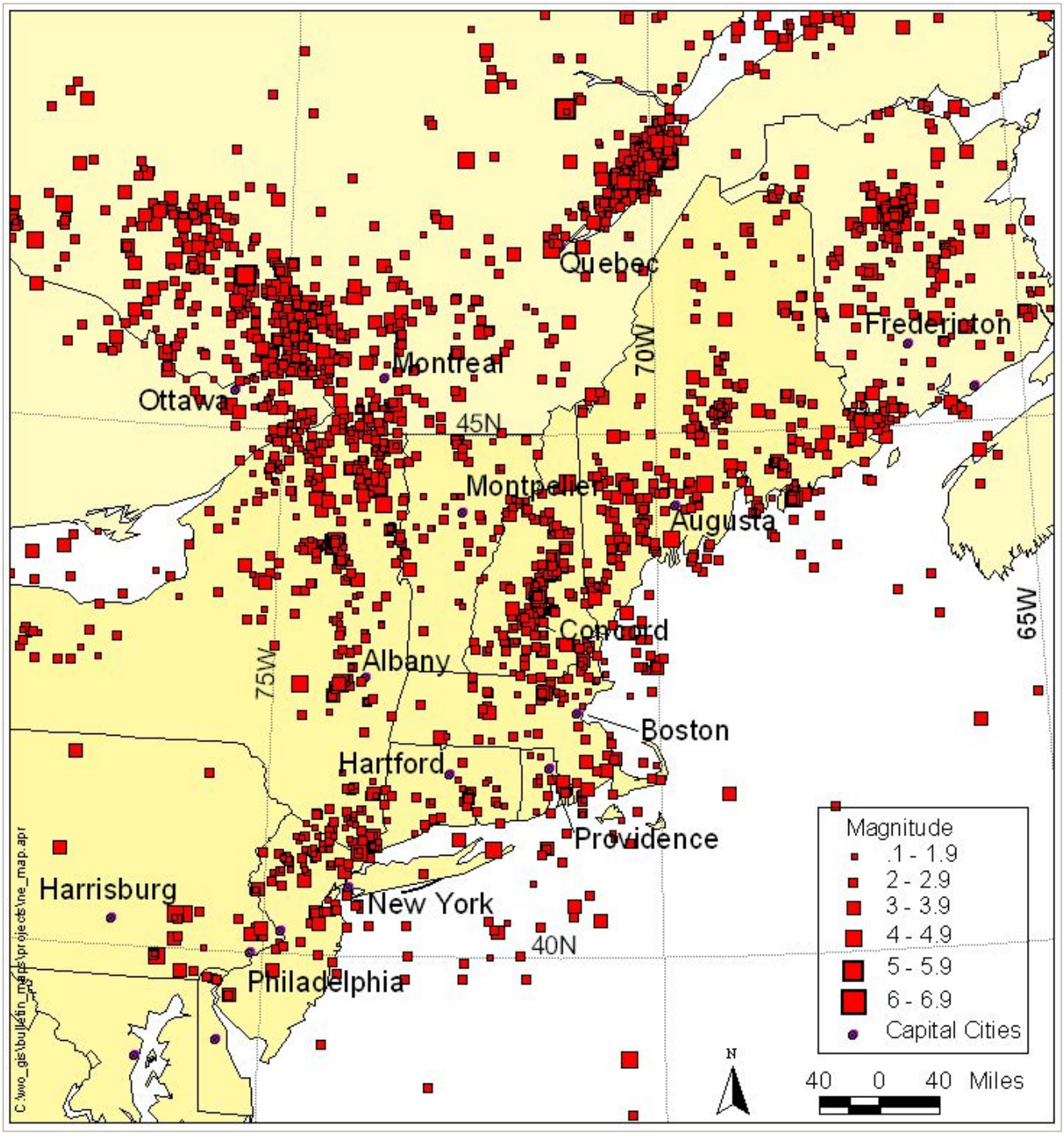

Figure 4: Seismicity for period October, 1975 - December, 2007.

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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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