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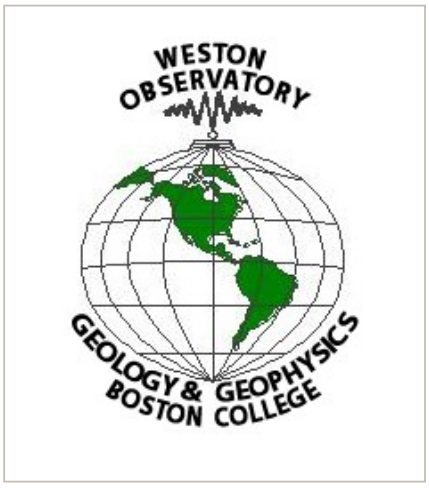
A STUDY OF NEW ENGLAND SEISMICITY

Quarterly Earthquake Report

January - March, 2006

New England

Seismic Network



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NEW ENGLAND SEISMIC NETWORK

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Award #04HQAG0020

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for

United States Geological Survey

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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 January - March, 2006. It includes a brief summary of the network's equipment and operation, and a short discussion of data management procedures. A list of participating personnel is given in Table 1. There were 9 earthquakes that occurred within or near the network during this reporting period. Phase information for these earthquakes is included in this report.

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Current Network Operation and Status

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

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Seismicity

There were 9 earthquakes that occurred in or adjacent to the NESN during this reporting period. A summary of the location data is given in Table 3. Figure 3 shows the locations of these events. Figure 4 shows the locations of all events since the beginning of network operation in October, 1975.

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

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Data Management

Recent event locations are available at www.bc.edu/research/westonobservatory/northeast/recenteqs/. 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

- Code = station name
- Lat = station latitude, degrees north
- Long = station longitude, degrees west
- Elev = station elevation in meters
- Location = geographic location
- Operator = network operator

Table 3: Earthquake Hypocenter List

- Date = date event occurred, Yr (year)/Mo (month)/Dy (day)
- Time = origin time of event, Hr (hour):Mn (minute):Sec (second)

in UCT (Universal Coordinated Time, same as Greenwich Mean Time)

- Lat = event location, latitude north in degrees
- Long = event location, longitude west in degrees
- Depth = event depth in kilometers
- Mn = Nuttli Magnitude
- Mc = Coda Magnitude
- Int = event epicentral intensity
- Location = event geographic location

Table 4: Earthquake detailed hypocenter and phase data list

- Geographic location
- DATE = date event occurred, yr/mo/dy (year/month/day)
- ORIGIN = event origin time (UCT) in hours, minutes, and seconds
- LAT N = latitude north in degrees and minutes
- LONG W = longitude west in degrees and minutes
- DEPTH = event depth in kilometers
- MN = Nuttli Lg phase magnitude with amplitude divided by period
- 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)

- ML = local magnitude

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

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

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

Table Body: earthquake phase data

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

  I = impulsive
  E = emergent

- R = phase

P = first P arrival
S = first S arrival

- M = first motion direction of phase arrival

  U = up or compression
  D = down or dilatation

- 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)

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

Table 5: Microearthquakes and other non-locatable events

- Date = date event occurred, Yr (year)/Mo (month)/Dy (day)
- Sta = nearest station recording event
- 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	41.9178	-71.5388	380.0	Smithfield, RI	WES
FFD	43.4702	-71.6533	131.0	Franklin Falls Dam, NH	WES
HNH	43.7050	-72.2860	180.0	Hanover, NH	WES
QUA2	42.2789	-72.3525	168.0	Belchertown, MA	WES
TRY	42.7311	-73.6669	131.0	Troy, NY	WES
UMM	44.7100	-67.4583	35.0	Machias, ME	WES
VT1	44.3317	-72.7536	410.0	Waterbury, VT	WES
WES	42.3850	-71.3220	60.0	Weston, MA	WES
WVL	44.5648	-69.6575	85.0	Waterville, ME	WES
YLE	41.3100	-72.9269	10.0	New Haven, CT	WES
PQI	46.6710	-68.0168	175.0	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

NEW ENGLAND AND ADJACENT REGIONS

January - March, 2006

Date	Time (UTC)	Lat	Long	Depth	Mn	Mc	Int	Location
M/D/Y	Hr:Mn:Sec			(km)				
01/09/2006	15:35:41.20	45.07	-73.91	15.67	3.9			PQ, 2.67KM NW OF ST-ANTOINE-ABBE
01/17/2006	17:49:27.25	42.50	-71.10	09.14	1.3			MA, 1.8KM SW OF WAKEFIELD
01/20/2006	11:37:39.84	45.00	-69.08	15.19	1.7			ME, 21KM SE OF DOVER-FOXCROFT
01/20/2006	11:50:15.38	45.13	-69.13	00.57	1.8			ME, 9.3KM SE OF DOVER-FOXCROFT
02/07/2006	04:07:22.32	46.33	-75.29	23.55	2.6	3.3		PQ, 28KM SE OF MONT-LAURIER
02/16/2006	23:43:22.99	41.14	-74.51	07.92	2.7			NJ, 5.5KM ESE OF HAMBURG
02/25/2006	01:39:22.78	45.61	-75.23	14.04	4.0	4.0		PQ, 6.4KM N OF THURSO
02/26/2006	04:09:22.63	45.55	-74.72	15.94	2.5	3.4		ON, 11KM (6.8MI) SW OF HAWKESBURY
03/01/2006	19:54:14.08	43.75	-72.59	08.89	1.1	2.4		VT, 51.5KM S OF MONTPELIER

*LD indicates magnitude as calculated by Lamont Doherty Earth Observatory

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TABLE 4

EARTHQUAKE PHASE DATA LIST
NEW ENGLAND AND ADJACENT REGIONS
January - March, 2006

```
A6109A.XX
NORTHERN NY AND ADIRONDACKS
06JAN09 CANADA, QUEBEC, 2.67KM (1.66MI) NW OF ST-ANTOINE-ABBE
  DATE     ORIGIN     LAT N     LONG W    DEPTH    MN   MC   ML GAP    RMS   ERH   ERZ Q
  60109 1535 41.20 45- 4.18   73-54.53   15.67   3.9  .0       46    .49    .8   1.0 C
  STN   DIST AZM   RMK HRMN    SEC    TOBS    TCAL    RES    WT AMX PRX XMAG FMP FMAG
  MNT   53.1  25   P 0 1535 49.67    8.47    8.52   -.07 2.38
                   S 0 1535 56.75   15.55   15.16    .35 2.35
  PTN 101.4 237   P 0 1535 56.45   15.25   15.72   -.50 2.12
                   S 0 1535 68.66   27.46   27.98   -.58 2.08
  MIV 114.7 165   P 3 1535 57.57   16.37   17.72 -1.40   .29
  NCB 124.7 192 IPD3 1535 59.41   18.21   19.23 -1.12   .41
                   S 3 1535 74.06   32.86   34.23 -1.55   .18
  MOQ 132.8  78   P 0 1536  1.41   20.21   20.45   -.38 1.98
                   S 0 1536 17.85   36.65   36.41   -.01 2.00
  TRQ 137.7 338   P 0 1536  2.67   21.47   21.19    .28 1.97
                   S 3 1536 20.00   38.80   37.72   1.07   .38
  GAC 141.6 300   P 0 1536  3.38   22.18   21.79    .38 1.93
                   S 0 1536 20.27   39.07   38.79    .26 1.95
  OTT 146.5 284   P 0 1536  3.97   22.77   22.52    .24 1.93
                   S 4 1536 27.77   46.57   40.09   6.46   .00
 LBNH 182.2 120   P 0 1536  8.60   27.40   27.35   -.01 1.76
                   S 0 1536 29.84   48.64   48.68   -.15 1.76
  HNH 199.3 140 EPD0 1536 10.92   29.72   29.45    .24 1.681137 .16   3.8
                   S 0 1536 34.27   53.07   52.43    .59 1.63
  DPQ 199.4  26   P 0 1536 11.34   30.14   29.47    .67 1.61
                   S 0 1536 33.33   52.13   52.46   -.33 1.68
 KGNO 225.6 245   P 0 1536 14.27   33.07   32.70    .36 1.54
                   S 3 1536 37.55   56.35   58.20 -1.87   .04
  GRQ 228.5 318   P 0 1536 14.35   33.15   33.06    .04 1.54
                   S 0 1536 39.28   58.08   58.84   -.85 1.43
  FFD 253.0 135 EP 0 1536 17.95   36.75   36.08    .65 1.36
                   S 4 1536 48.20   67.00   64.22   2.74   .00
  TRY 260.6 176 EP 0 1536 19.00   37.80   37.02    .73 1.31 304 .15   3.5
                   S 0 1536 48.40   67.20   65.90   1.21   .93
  QCQ 278.9  47   P 0 1536 21.08   39.88   39.28    .58 1.26
                   S 0 1536 50.73   69.53   69.92   -.42 1.28
 CRLO 291.4 292   P 0 1536 21.78   40.58   40.83   -.28 1.24
                   S 0 1536 53.81   72.61   72.68   -.13 1.24
 QUA2 334.5 158 EP 0 1536 27.40   46.20   46.15    .02 1.03 287 .15   3.7
                   S 4 1536 68.50   87.30   82.15   5.10   .00
  WVL 341.0 100 EP 0 1536 28.23   47.03   46.95    .07 1.00 726 .25   3.9
                   S 4 1536 74.25   93.05   83.57   9.46   .00
  WES 364.0 145 EP 0 1536 30.20   49.00   49.79   -.80   .84 342 .26   3.6
                   S 4 1536 77.20   96.00   88.63   7.35   .00
  A11 374.7  50   P 0 1536 32.23   51.03   51.11   -.09   .84
                   S 0 1536 71.50   90.30   90.97   -.69   .81
  A54 378.1  45   P 0 1536 32.62   51.42   51.53   -.17   .82
                   S 3 1536 71.27   90.07   91.72 -1.76   .04
 WLVO 379.0 250   P 3 1536 31.83   50.63   51.65 -1.03   .18
                   S 3 1536 71.18   89.98   91.93 -1.97   .01
  DAQ 381.4  32   P 0 1536 32.68   51.48   51.94   -.62   .78
                   S 4 1536 71.50   90.30   92.45 -2.43   .00
  LMQ 390.0  45   P 0 1536 34.37   53.17   53.00    .10   .77
                   S 3 1536 74.22   93.02   94.33 -1.44   .09
```

```
   BRY 399.2 151 EPDO 1536 36.00  54.80  54.13   .61  .70 226 .23  3.6
                 S 4 1536 87.70 106.50  96.36 10.03  .00
   A16 401.6  48  P O 1536 35.79  54.59  54.43   .16  .71
                 S O 1536 77.59  96.39  96.89  -.50  .70
   A61 413.8  45  P O 1536 37.05  55.85  55.94  -.10  .65
                 S 4 1536 78.96  97.76  99.58 -1.84  .00
  SADO 414.7 265  P 3 1536 35.82  54.62  56.05 -1.47  .08
                 S 4 1536 78.70  97.50  99.77 -2.34  .00
   YLE 425.2 169  S 4 1536 95.20 114.00 102.08 11.92  .00 489 .47  3.7
  PKRO 428.5 253  P 3 1536 37.60  56.40  57.76 -1.39  .08
                 S 3 1536 82.35 101.15 102.81 -1.71  .04
  VLDQ 433.8 321  P 4 1536 42.67  61.47  58.41  3.04  .00
                 S 4 1536 89.80 108.60 103.97  4.59  .00
   A64 435.2  45  P O 1536 39.95  58.75  58.58   .15  .55
                 S O 1536 84.93 103.73 104.27  -.58  .53
   A21 437.0  48  P O 1536 40.00  58.80  58.81  -.02  .54
                 S O 1536 86.17 104.97 104.67   .28  .54
  STCO 469.4 244  P 3 1536 42.95  61.75  62.80 -1.07  .08
   EFO 485.3 243  P 3 1536 44.75  63.55  64.76 -1.24  .06
                 S 4 1536 93.40 112.20 115.28 -3.13  .00
   PQI 490.7  69 EP 4 1536 53.10  71.90  65.43  6.44  .00 220 .36  3.6
   EMM 508.4  94 EP 4 1536 88.58 107.38  67.62 39.76  .00**** .22  5.9
  ACTO 517.2 252  P O 1536 49.68  68.48  68.71  -.29  .16
  TYNO 525.4 245  P O 1536 50.58  69.38  69.72  -.37  .12
  ELGO 542.7 253  P 3 1536 51.75  70.55  71.85 -1.36  .00
  HGVO 551.0 245  P 3 1536 52.26  71.06  72.88 -1.86  .00
   GGN 557.8  89  P 3 1536 54.05  72.85  73.72  -.88  .00
  BRCO 602.8 261  P 3 1537  1.91  80.71  79.28  1.38  .00
                 S 4 1537 59.99 138.79 141.11 -2.41  .00
   CNQ 645.6  43  P O 1537  5.32  84.12  84.56  -.47  .00
                 S 4 1537 67.66 146.46 150.52 -4.11  .00
   GSQ 670.8  50  P O 1537  9.04  87.84  87.67   .16  .00
                 S 4 1537 74.24 153.04 156.06 -3.03  .00
   ICQ 704.9  45  P O 1537 12.62  91.42  91.88  -.47  .00
                 S 4 1537 80.95 159.75 163.55 -3.82  .00
   LMN 716.8  83  P 3 1537 13.50  92.30  93.34 -1.10  .00
                 S 4 1537 83.95 162.75 166.15 -3.51  .00
   MNQ 718.9  32  P O 1537 14.20  93.00  93.61  -.70  .00
                 S 4 1537 83.28 162.08 166.62 -4.70  .00
   SMQ 788.7  43  P 3 1537 22.45 101.25 102.22 -1.03  .00
                 S 4 1537 99.05 177.85 181.95 -4.20  .00
   HAL 815.7  93  S 4 1538 44.63 183.43 187.89 -4.48  .00
A6117A.XX
SOUTH & COASTAL NEW ENGLAND, CHIBURIS, 1979
06JAN17 MA, 1.8KM (1.12MI) SW OF WAKEFIELD
  DATE     ORIGIN    LAT N    LONG W   DEPTH   MN  MC  ML GAP   RMS  ERH  ERZ Q
  60117 1749 27.25 42-29.91  71- 5.74   9.14  1.3  .0     232   .26  1.8  1.7 B
  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG
  WES  22.5 236 EP O 1749 31.45   4.20   4.05   .14 1.15  36 .12  1.1
                 S O 1749 34.48   7.23   7.22   .00 1.15
  HRV  38.0 271 EP O 1749 34.00   6.75   6.51   .21 1.10
                 S O 1749 38.75  11.50  11.59  -.14 1.11
  BRY  74.2 210 EP O 1749 40.17  12.92  12.40   .47  .87  15 .08  1.4
                 S O 1749 48.98  21.73  22.06  -.44  .90
 QUA2 106.3 257 EP O 1749 44.24  16.99  17.28  -.31  .92
                 S O 1749 58.34  31.09  30.76   .28  .93
  FFD 117.1 337 EP O 1749 46.10  18.85  18.92  -.09  .94
                 S O 1749 60.80  33.55  33.68  -.16  .93
A6120B.XX
SOUTHEAST MAINE CRUSTAL MODEL
06JAN20 ME, 21KM (13MI) SE OF DOVER-FOXCROFT
  DATE     ORIGIN    LAT N    LONG W   DEPTH   MN  MC  ML GAP   RMS  ERH  ERZ Q
  60120 1137 39.84 45-  .07  69- 4.55  15.19  1.7  .0     131   .29  2.1  2.0 B
  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG
  WVL  70.2 222 EP O 1137 51.38  11.54  11.55  -.02 1.41   7 .07  1.1
                 S O 1137 60.31  20.47  20.56  -.11 1.41
 EMMW 131.8 104 EP O 1138  1.34  21.50  21.02   .46 1.17  21 .12  1.8
                 S O 1138 17.25  37.41  37.42  -.03 1.23
  GGN 177.9  86 EP O 1138  6.15  26.31  26.71  -.41 1.06
                 S O 1138 27.50  47.66  47.54   .10 1.09
 LBNH 241.6 250 EP O 1138 14.99  35.15  34.57   .51  .86
                 S O 1138 41.00  61.16  61.54  -.49  .86
  MOQ 252.1 278  P O 1138 15.93  36.09  35.87   .07  .87
                 S O 1138 44.02  64.18  63.85   .07  .87
  HNH 293.5 241 ES 4 1138 30.53  50.69  72.94-22.30  .00   6 .09  2.2
  LMQ 299.1 341  P 4 1138 25.55  45.71  41.67  3.97  .00
  DPQ 343.0 303  P 3 1138 28.82  48.98  47.09  1.88  .00
                 S O 1138 63.82  83.98  83.83   .15  .61
  LMN 347.4  74  P 3 1138 26.10  46.26  47.64 -1.45  .00
                 S O 1138 64.35  84.51  84.80  -.40  .57
  GSQ 460.0  19  P 4 1138 39.26  59.42  61.53 -2.13  .00
A6120A.XX
SOUTHEAST MAINE CRUSTAL MODEL
06JAN20 ME, 9.3KM (5.8MI) SE OF DOVER-FOXCROFT
  DATE     ORIGIN    LAT N    LONG W   DEPTH   MN  MC  ML GAP   RMS  ERH  ERZ Q
  60120 1150 15.38 45- 8.07  69- 7.59    .57  1.8  .0     141   .29  2.0  4.1 B
  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG
  WVL  79.6 212 EP O 1150 28.59  13.21  13.10   .10 1.32  17 .08  1.5
                 S O 1150 38.47  23.09  23.32  -.24 1.31
 EMMW 140.0 110 EPCO 1150 38.10  22.72  22.68   .03 1.15  23 .20  1.8
                 S O 1150 55.90  40.52  40.37   .13 1.15
  PQI 191.3  27 EP O 1150 45.40  30.02  29.87   .12 1.01  16 .09  2.1
                 S O 1150 68.30  52.92  53.17  -.30 1.00
 LBNH 243.1 246 EPC4 1150 54.15  38.77  36.28  2.44  .00
                 S 1 1150 82.31  66.93  64.57  2.26  .07
A6207A.XX
NORTHERN NY AND ADIRONDACKS
06FEB07 CANADA, QC, 28KM (17.4MI) SE OF MONT-LAURIER
  DATE     ORIGIN    LAT N    LONG W   DEPTH   MN  MC  ML GAP   RMS  ERH  ERZ Q
  60207  4 7 22.32 46-19.58  75-17.35  23.55  2.6 3.3     114   .44   .7  1.4 C
  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG
  MNT 158.4 125  P O  4 7 46.00  23.68  23.72  -.06 1.91
                 S O  4 7 64.38  42.06  42.22  -.20 1.91
 CRLO 164.6 259  P O  4 7 47.09  24.77  24.48   .27 1.88
                 S O  4 7 65.87  43.55  43.57  -.07 1.88
 PEMO 167.9 245  P O  4 7 47.49  25.17  24.89   .25 1.87
                 S O  4 7 66.38  44.06  44.31  -.30 1.85
 MPPO 189.1 204  P O  4 7 50.07  27.75  27.50   .23 1.76
                 S O  4 7 70.89  48.57  48.95  -.41 1.73
  PTN 196.7 173  P O  4 7 50.95  28.63  28.44   .16 1.73
                 S O  4 7 72.18  49.86  50.63  -.81 1.51
  DPQ 196.8  78  P O  4 7 51.14  28.82  28.46   .34 1.71
                 S O  4 7 73.16  50.84  50.65   .14 1.73
 PLVO 199.5 224  P O  4 7 51.18  28.86  28.79   .07 1.71
                 S O  4 7 73.48  51.16  51.25  -.09 1.71
 FRNY 212.3 141  P O  4 7 53.30  30.98  30.38   .57 1.60
                 S O  4 7 76.10  53.78  54.07  -.35 1.63
 ALGO 217.5 259  P O  4 7 53.50  31.18  31.01   .13 1.62
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                  S 0  4 7 77.02  54.70  55.21  -.57 1.56
 BANO 251.7 235   P 0  4 7 57.70  35.38  35.23   .10 1.46
                  S 3  4 7 86.55  64.23  62.71  1.42  .09
 KGNO 251.7 202   P 0  4 7 58.00  35.68  35.23   .44 1.43
                  S 0  4 7 84.60  62.28  62.71  -.45 1.43
 VLDQ 257.5 320   P 4  4 8  1.40  39.08  35.96  3.11  .00
                  S 4  4 8 31.00  68.68  64.00  4.65  .00
  MOQ 261.5 116   P 0  4 7 59.77  37.45  36.45   .87 1.19
                  S 0  4 7 86.89  64.57  64.87  -.55 1.36
 DELO 271.4 222   P 0  4 8   .73  38.41  37.67   .71 1.26
                  S 3  4 8 30.70  68.38  67.05  1.26  .15
  NCB 274.6 162 EPCO 4 8  1.30  38.98  38.07   .82 1.20              224  3.3
                  S 0  4 8 29.80  67.48  67.76  -.45 1.32
  MIV 285.7 151   P 0  4 8  1.67  39.35  39.43  -.13 1.29
                  S 0  4 8 32.27  69.95  70.19  -.33 1.28
  EEO 292.6 277   P 0  4 8  3.31  40.99  40.28   .64 1.19
                  S 4  4 8 40.84  78.52  71.70  6.70  .00
 PECO 297.8 207   P 0  4 8  3.71  41.39  40.93   .45 1.21
                  S 3  4 8 34.06  71.74  72.85 -1.14  .19
  QCQ 311.6  81   S 3  4 8 39.85  77.53  75.88  1.61  .02
 BUKO 333.7 253   P 0  4 8  7.54  45.22  45.36  -.19 1.06
                  S 3  4 8 41.98  79.66  80.74 -1.17  .15
 SADO 347.3 240   P 0  4 8  8.90  46.58  47.04  -.49  .96
                  S 4  4 8 44.33  82.01  83.73 -1.79  .00
 LINO 350.7 231   P 0  4 8  9.72  47.40  47.46  -.10  .97
 LBNH 351.2 131   P 0  4 8 10.25  47.93  47.52   .36  .96
                  S 0  4 8 47.00  84.68  84.58  -.01  .97
  DAQ 357.1  59   P 0  4 8 10.75  48.43  48.25   .02  .94
                  S 0  4 8 47.67  85.35  85.89  -.82  .82
 WLVO 362.1 222   P 4  4 8 13.48  51.16  48.87  2.29  .00
  HNH 375.4 141   S 4  4 8 56.70  94.38  89.90  4.44  .00  11 .18  2.3
  A54 392.3  71   P 0  4 8 15.47  53.15  52.59   .50  .75
                  S 0  4 8 55.20  92.88  93.61  -.83  .67
 PKRO 396.9 229   P 0  4 8 16.50  54.18  53.16   .99  .57
  LMQ 401.8  70   P 0  4 8 16.05  53.73  53.77  -.10  .72
                  S 0  4 8 57.15  94.83  95.71 -1.00  .56
  A11 401.8  75   P 0  4 8 15.95  53.63  53.77  -.14  .72
                  S 3  4 8 56.88  94.56  95.71 -1.16  .10
 KILO 412.7 306   P 0  4 8 17.78  55.46  55.11   .31  .66
                  S 0  4 8 60.13  97.81  98.09  -.36  .66
  TRY 419.9 162   S 0  4 9  1.50  99.18  99.69  -.60  .61  10 .22  2.3
  A61 423.6  69   P 0  4 8 18.89  56.57  56.46   .05  .62
                  S 0  4 8 62.82 100.50 100.50  -.10  .62
  FFD 428.0 138   S 0  4 9  4.50 102.18 101.47   .68  .55  80 .22  3.2
 MEDO 431.8 216   P 0  4 8 19.47  57.15  57.46  -.34  .57
                  S 3  4 8 63.05 100.73 102.28 -1.60  .01
  A64 442.4  68   P 0  4 8 21.10  58.78  58.77  -.01  .53
                  S 0  4 8 66.99 104.67 104.62   .02  .53
  A21 452.6  70   P 0  4 8 22.39  60.07  60.03   .03  .48
                  S 3  4 8 70.42 108.10 106.86  1.23  .06
  EFO 480.5 222   P 0  4 8 26.84  64.52  63.48  1.01  .26
                  S 0  4 8 75.53 113.21 113.00   .17  .34
 QUA2 507.1 152   S 0  4 9 21.10 118.78 118.85  -.12  .21  13 .24  2.6
  HRV 518.2 145   S 4  4 9 27.00 124.68 121.27  3.36  .00
  WES 540.1 144   S 2  4 9 29.10 126.78 126.09   .68  .02   7 .25  2.4
 UCCT 560.1 154   S 4  4 9 52.40 150.08 130.50 19.53  .00
  CNQ 633.8  59   P 0  4 8 44.80  82.48  82.40   .05  .00
 KAPO 641.9 303   P 0  4 8 45.40  83.08  83.41  -.36  .00
  MNQ 672.0  46   P 0  4 8 49.49  87.17  87.12  -.04  .00
  GGN 673.0 102   P 4  4 8 52.98  90.66  87.25  3.40  .00
  GSQ 679.1  65   P 0  4 8 50.54  88.22  87.99   .22  .00
  SMQ 770.4  56   P 0  4 9   .86  98.54  99.27  -.79  .00
                  S 4  4 9 75.37 173.05 176.71 -3.76  .00
  LMN 812.3  94   P 0  4 9  5.75 103.43 104.45 -1.08  .00
                  S 4  4 9 85.63 183.31 185.92 -2.71  .00
 LG4Q 816.5   6   P 4  4 9  5.74 103.42 104.97 -1.57  .00
                  S 4  4 9 84.96 182.64 186.84 -4.25  .00
 VIMO 946.0 320   P 4  4 9 19.35 117.03 120.95 -3.93  .00
 SCHQ1119.8  32   P 4  4 9 43.35 141.03 142.41 -1.45  .00
                  S 4  4 9 90.38 188.06 253.48-65.56  .00
 SILO1136.0 323   P 4  4 9 44.52 142.20 144.41 -2.24  .00
A6216A.XX
SOUTH & COASTAL NEW ENGLAND, CHIBURIS, 1979
06FEB16 NJ, 5.5KM (3.4MI) ESE OF HAMBURG
  DATE     ORIGIN    LAT N    LONG W   DEPTH   MN  MC  ML GAP   RMS  ERH  ERZ Q
  60216 2343 22.99 41- 8.50  74-30.55   7.92  2.7 2.7     152   .34   .9   .9 C
  STN  DIST AZM  RMK HRMN   SEC   TOBS   TCAL   RES   WT AMX PRX XMAG FMP FMAG
  GPD  14.4 164  P 0 2343 25.64   2.65   2.74  -.15 1.53
 ARNY  37.7  62  P 0 2343 29.22   6.23   6.41  -.25 1.45
                 S 0 2343 34.14  11.15  11.40  -.38 1.42
 BRNJ  51.2 185  P 0 2343 31.74   8.75   8.61   .13 1.43
                 S 0 2343 37.94  14.95  15.32  -.39 1.38
  PAL  52.7 107  P 0 2343 31.98   8.99   8.86   .12 1.42
                 S 0 2343 38.49  15.50  15.77  -.29 1.41
 CPNY  60.4 130  P 0 2343 33.53  10.54  10.12   .42 1.34
                 S 0 2343 41.19  18.20  18.01   .19 1.40
  FOR  60.9 121  P 0 2343 33.37  10.38  10.20   .18 1.40
                 S 0 2343 41.38  18.39  18.15   .24 1.38
  YLE 134.6  82 EPDO 2343 45.22  22.23  21.66   .57 1.06  93 .13  2.5
                ES 0 2343 60.95  37.96  38.55  -.59 1.06
  BVD 173.4 209  P 0 2343 50.14  27.15  27.24  -.10 1.08
                 S 3 2343 70.21  47.22  48.48 -1.28  .01
  NED 189.1 212  P 0 2343 52.60  29.61  29.18   .42  .99
                 S 0 2343 74.46  51.47  51.93  -.48  .98
  TRY 189.9  22 EPDO 2343 52.50  29.51  29.26   .20 1.02 115 .22  2.7 104  2.7
                ES 0 2343 74.70  51.71  52.09  -.47  .98
 UCCT 204.0  69 EPDO 2343 54.00  31.01  31.01  -.03  .99              118  2.8
                ES 0 2343 77.82  54.83  55.20  -.42  .96
 QUA2 219.5  55 EPDO 2343 56.20  33.21  32.93   .25  .94  92 .22  2.7 123  2.8
                ES 0 2343 81.30  58.31  58.61  -.36  .92
  BRY 262.6  71 EP 0 2344  1.70  38.71  38.24   .41  .80 122 .24  2.9
                ES 0 2344 31.60  68.61  68.07   .43  .79
  HRV 288.3  58 EPDO 2344  4.58  41.59  41.42   .14  .75
                ES 0 2344 37.06  74.07  73.73   .29  .74
  WES 298.7  62 EPDO 2344  5.92  42.93  42.71   .21  .71  38 .23  2.5
                ES 0 2344 38.35  75.36  76.02  -.68  .61
  NCB 315.5   4 EPDO 2344  8.10  45.11  44.77   .24  .66
                ES 0 2344 43.10  80.11  79.69   .24  .66
  MIV 335.5  14  P 0 2343 70.52  47.53  47.25   .23  .61
  HNH 338.5  33 EPC4 2344 15.07  52.08  47.61  4.44  .00  62 .22  2.9
                ES 4 2344 53.56  90.57  84.75  5.77  .00
  FFD 349.7  42 EPD2 2344 12.90  49.91  49.00   .88  .14
                ES 4 2344 58.00  95.01  87.23  7.75  .00
 LBNH 404.1  32 EPC4 2344 24.63  61.64  55.71  5.87  .00
                ES 4 2344 70.75 107.76  99.17  8.49  .00
A6225A.XX
NORTHERN NY AND ADIRONDACKS
06FEB25 CANADA, 6.4KM (4MI) N OF THURSO, QUEBEC
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                46.7KM (29MI) NE OF OTTAWA, ONTARIO
  DATE      ORIGIN     LAT N     LONG W    DEPTH    MN  MC   ML GAP    RMS  ERH   ERZ Q
  60225  139 22.79 45-39.67  75-13.68   13.80  4.0 4.0      120   .39   .7    .7 C
  STN   DIST AZM   RMK HRMN    SEC    TOBS    TCAL    RES    WT AMX PRX XMAG FMP FMAG
  GAC   20.1 283   P 0  139 26.98    4.19    3.77    .41 1.71
                   S 0  139 30.06    7.27    6.71    .54 1.68
  OTT   48.4 232   P 0  139 30.76    7.97    7.76    .20 1.66
                   S 0  139 36.57   13.78   13.82   -.06 1.66
  WBO   73.5 183   P 0  139 34.53   11.74   11.51    .22 1.57
                   S 0  139 42.99   20.20   20.48   -.30 1.56
  BGR  114.3 144   P 0  139 40.53   17.74   17.64    .05 1.44
                   S 0  139 53.90   31.11   31.39   -.37 1.42
  PTN  122.8 171   P 0  139 41.93   19.14   18.93    .18 1.41
                   S 0  139 55.86   33.07   33.69   -.68 1.29
  LONY 126.4 156   P 0  139 42.19   19.40   19.47   -.14 1.40
                   S 0  139 56.82   34.03   34.65   -.75 1.25
  MNT  126.5  98   P 0  139 42.25   19.46   19.48   -.04 1.40
                   S 0  139 57.32   34.53   34.67   -.18 1.40
  MPPO 128.2 219   P 0  139 42.45   19.66   19.75   -.11 1.39
                   S 0  139 58.46   35.67   35.15    .48 1.35
  PEMO 157.2 271   P 0  139 47.24   24.45   24.13    .29 1.28
                   S 0  139 65.48   42.69   42.95   -.31 1.28
  FRNY 158.2 125   P 0  139 46.69   23.90   24.27   -.42 1.27
                   S 0  139 65.82   43.03   43.21   -.25 1.29
  PNZ  158.9 125   P 0  139 47.05   24.26   24.38   -.16 1.29
  PLVO 160.3 244   P 0  139 47.39   24.60   24.59    .01 1.29
                   S 0  139 66.20   43.41   43.77   -.36 1.27
  CRLO 172.5 284   P 0  139 48.87   26.08   26.31   -.26 1.25
                   S 0  139 69.02   46.23   46.83   -.66 1.16
  CTNY 188.9 190   P 0  139 51.39   28.60   28.33    .23 1.18
                   S 0  139 73.34   50.55   50.44    .06 1.19
  NCB  203.7 157 EP 0  139 53.30   30.51   30.17    .24 1.13               517  4.0
                   S 0  139 77.07   54.28   53.70    .40 1.12
  DPQ  220.5  59   P 0  139 55.76   32.97   32.24    .70  .97
                   S 0  139 79.48   56.69   57.38   -.74  .97
  MIV  221.3 143   P 0  139 55.27   32.48   32.34    .09 1.09
                   S 0  139 80.79   58.00   57.57    .34 1.07
  ALGO 221.9 278   P 0  139 55.07   32.28   32.41   -.17 1.08
  BANO 223.5 251   P 0  139 55.41   32.62   32.60   -.05 1.08
                   S 0  139 80.48   57.69   58.04   -.45 1.05
  MOQ  235.6  99   P 0  139 57.61   34.82   34.11    .57  .98
                   S 0  139 83.39   60.60   60.71   -.36 1.03
  PECO 237.4 216   P 0  139 57.35   34.56   34.33    .21 1.03
  VT1  244.7 127 EP 0  139 58.42   35.63   35.23    .38  .99 650 .10  3.9
                   ES 0  139 85.94   63.15   62.71    .40  .99
  ACCN 281.8 154   P 0  139 63.13   40.34   39.81    .47  .86
  LBNH 304.5 121 EP 0  140  6.00   43.21   42.61    .54  .78               524  4.1
                   ES 4  140 45.70   82.91   75.85   6.95  .00
  EEO  316.2 290   P 0  139 66.73   43.94   44.05   -.18  .77
                   S 3  139 99.86   77.07   78.41  -1.46  .02
  HNH  318.8 133 EP 0  140  7.28   44.49   44.37    .09  .76 594 .22  3.8 473  4.0
                   ES 4  140 47.20   84.41   78.98   5.38  .00
  VLDQ 321.0 328   P 4  140  9.90   47.11   44.64   2.45  .00
                   S 4  140 44.45   81.66   79.46   2.16  .00
  QCQ  329.4  68   P 0  140  8.88   46.09   45.68    .39  .71
                   S 0  140 42.78   79.99   81.31  -1.36  .14
  TRY  348.8 159 EP 0  140 12.00   49.21   48.07   1.09  .371146 .37  4.0 468  4.0
                   ES 4  140 51.60   88.81   85.57   3.15  .00
  FFD  373.9 131 EP 0  140 15.20   52.41   51.18   1.21  .21               405  3.9
                   ES 4  140 64.80  102.01   91.10  10.87  .00
  DAQ  397.7  50   P 0  140 16.53   53.74   54.11   -.53  .49
                   S 0  140 57.97   95.18   96.32  -1.42  .07
  LMQ  430.2  61   P 0  140 20.50   57.71   58.13   -.49  .38
                   S 4  140 64.25  101.46  103.47  -2.13  .00
  QUA2 441.0 148 EP 0  140 23.00   60.21   59.45    .72  .32 816 .40  4.0 452  4.0
                   ES 4  140 76.30  113.51  105.83   7.63  .00
  WVL  455.4 106 EP 0  140 24.10   61.31   61.24    .06  .31 332 .31  3.8 396  3.9
                   ES 4  140 88.90  126.11  109.01  17.08  .00
  HRV  457.4 140 EPD0  140 24.00   61.21   61.49   -.31  .30               360  3.8
                   ES 4  140 79.40  116.61  109.45   7.11  .00
  WES  480.3 139 EP 0  140 26.80   64.01   64.31   -.31  .23 366 .31  3.9 484  4.1
                   ES 4  140 91.80  129.01  114.48  14.51  .00
  UCCT 493.1 151 EP 0  140 29.00   66.21   65.90    .28  .19               429  4.0
                   ES 4  140 90.70  127.91  117.30  10.56  .00
  BRYW 511.1 144 EP 0  140 30.30   67.51   68.11   -.66  .12 230 .20  4.0
                   ES 4  140 99.30  136.51  121.24  15.16  .00
  YLE  517.5 159 ES 4  140 96.40  133.61  122.65  10.96  .001529 .70  4.3
  PQI  568.1  79 ES 4  141 51.10  148.31  133.76  14.49  .00
  EMMW 619.6 100 EP 0  140 43.30   80.51   81.51  -1.01  .00 166 .25  3.9   0  3.9
  PQI  568.1  79 ES 4  141 51.10  148.31  133.76  14.49  .00
  EMMW 619.6 100 EP 0  140 43.30   80.51   81.51  -1.01  .00 166 .25  3.9   0  3.9
A6226A.XX
NORTHERN NY AND ADIRONDACKS
06FEB26 CANADA, 11KM (6.8MI) SW OF HAWKESBURY, ONTARIO
  DATE      ORIGIN     LAT N     LONG W    DEPTH    MN  MC   ML GAP    RMS  ERH   ERZ Q
  60226  4 9 22.63 45-33.19  74-43.22   15.94  2.5 3.4      115   .42   .9   1.0 C
  STN   DIST AZM   RMK HRMN    SEC    TOBS    TCAL    RES    WT AMX PRX XMAG FMP FMAG
  GAC   61.4 286   P 0  4 9 32.60    9.97    9.76    .20 1.43
                   S 0  4 9 40.12   17.49   17.38    .09 1.43
  WBO   75.3 215   P 0  4 9 34.57   11.94   11.82    .11 1.39
                   S 0  4 9 43.73   21.10   21.04    .04 1.39
  OTT   79.9 257   P 0  4 9 35.43   12.80   12.50    .29 1.38
                   S 0  4 9 45.09   22.46   22.25    .19 1.38
  MNT   86.0  94   P 0  4 9 35.92   13.29   13.42   -.14 1.36
                   S 0  4 9 46.21   23.58   23.88   -.33 1.35
  LONY 104.3 174   P 0  4 9 38.63   16.00   16.17   -.24 1.31
                   S 0  4 9 50.86   28.23   28.78   -.67 1.25
  PTN  111.2 191   P 0  4 9 39.88   17.25   17.21    .01 1.29
                   S 0  4 9 53.18   30.55   30.63   -.13 1.29
  MPPO 149.3 234   P 0  4 9 45.87   23.24   22.96    .26 1.17
  NCB  179.9 167 EP 0  4 9 49.60   26.97   27.04   -.17 1.08               255  3.4
                   ES 0  4 9 70.69   48.06   48.14   -.25 1.08
  CTNY 188.7 203   P 0  4 9 51.15   28.52   28.13    .36 1.05
                   S 0  4 9 72.74   50.11   50.07   -.01 1.06
  MIV  189.2 150   P 0  4 9 51.24   28.61   28.19    .37 1.05
                   S 0  4 9 73.17   50.54   50.18    .27 1.06
  PLVO 193.3 253   P 0  4 9 51.40   28.77   28.70    .07 1.05
  MOQ  195.0  98   P 0  4 9 52.49   29.86   28.90    .82  .95
                   S 0  4 9 75.39   52.76   51.44   1.08  .84
  DPQ  195.6  50   P 0  4 9 51.56   28.93   28.98   -.08 1.04
                   S 0  4 9 73.72   51.09   51.58   -.55 1.02
  PEMO 197.6 274   P 0  4 9 51.70   29.07   29.22   -.18 1.03
                   S 0  4 9 73.63   51.00   52.02  -1.07  .84
  KGNO 203.3 224   P 0  4 9 52.50   29.87   29.93   -.07 1.02
  CRLO 213.7 285   P 0  4 9 53.56   30.93   31.21   -.31  .99
                   S 0  4 9 77.79   55.16   55.55   -.44  .98
  PECO 254.7 225   P 0  4 9 59.13   36.50   36.27    .21  .87
  LBNH 264.6 123   P 0  410  1.20   38.57   37.50   1.01  .70               268  3.5
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                 S 4  410 34.30  71.67  66.74  4.82  .00
  HNH 282.0 137 EP 3  410  5.05  42.42  39.64  2.75  .00  22 .16  2.4
                ES 4  410 38.30  75.67  70.57  5.05  .00
  TRY 324.8 165 EP 0  410  7.80  45.17  44.93   .19  .66  52 .33  2.6
                ES 4  410 47.00  84.37  79.97  4.31  .00
  FFD 336.3 134 EP 3  410 11.20  48.57  46.34  2.21  .00             232  3.4
                ES 4  410 54.10  91.47  82.49  8.94  .00
  EEO 357.7 290  P 0  410 11.05  48.42  48.98  -.63  .55
                 S 0  410 48.05  85.42  87.19 -1.90  .05
  DAQ 377.3  45  P 0  410 14.17  51.54  51.41  -.03  .51
                 S 0  410 52.63  90.00  91.51 -1.79  .07
 QUA2 410.6 152 ES 4  410 67.10 104.47  98.82  5.60  .00  38 .40  2.6
  WVL 414.4 106 ES 4  410 75.10 112.47  99.66 12.79  .00   9 .14  2.5
  HRV 423.0 143 EP 3  410 20.90  58.27  57.05  1.19  .07             211  3.4
                ES 4  410 75.10 112.47 101.55 10.86  .00
  WES 445.2 142 ES 4  410 82.80 120.17 106.44 13.71  .00  19 .50  2.4
 UCCT 463.6 154 ES 4  410 81.90 119.27 110.46  8.75  .00
A6301A.XX
HUGHES AND LUETGERT NH
06MAR01 VT, 51.5KM (32MI) S OF MONTPELIER
  DATE     ORIGIN    LAT N    LONG W   DEPTH   MN  MC  ML GAP   RMS  ERH  ERZ Q
  60301 1954 14.08 43-44.70  72-35.19   8.89  1.1 2.4     181   .50  5.8 13.6 D
  STN   DIST AZM  RMK HRMN    SEC    TOBS    TCAL    RES    WT AMX PRX XMAG FMP FMAG
  HNH   24.6 100 EP 3 1954 17.17   3.09   4.39 -1.33  .22  33 .12  1.1
                ES 0 1954 21.90   7.82   7.82  -.05 1.56
 LBNH   76.4  44 EPD1 1954 27.62  13.54  12.75   .73  .98               87  2.3
                ES 0 1954 36.59  22.51  22.70  -.29 1.41
  FFD   81.3 112 EP 4 1954 21.81   7.73  13.55 -5.84  .00
                ES 4 1954 29.77  15.69  24.12 -8.46  .00
  NCB 133.9 281 EPC2 1954 36.95  22.87  21.79   .98  .52               81  2.4
                ES 0 1954 52.63  38.55  38.79  -.41 1.23
 LONY 186.8 301 EP 0 1954 43.60  29.52  29.39   .06 1.08
                ES 4 1954 64.08  50.00  52.31 -2.43  .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

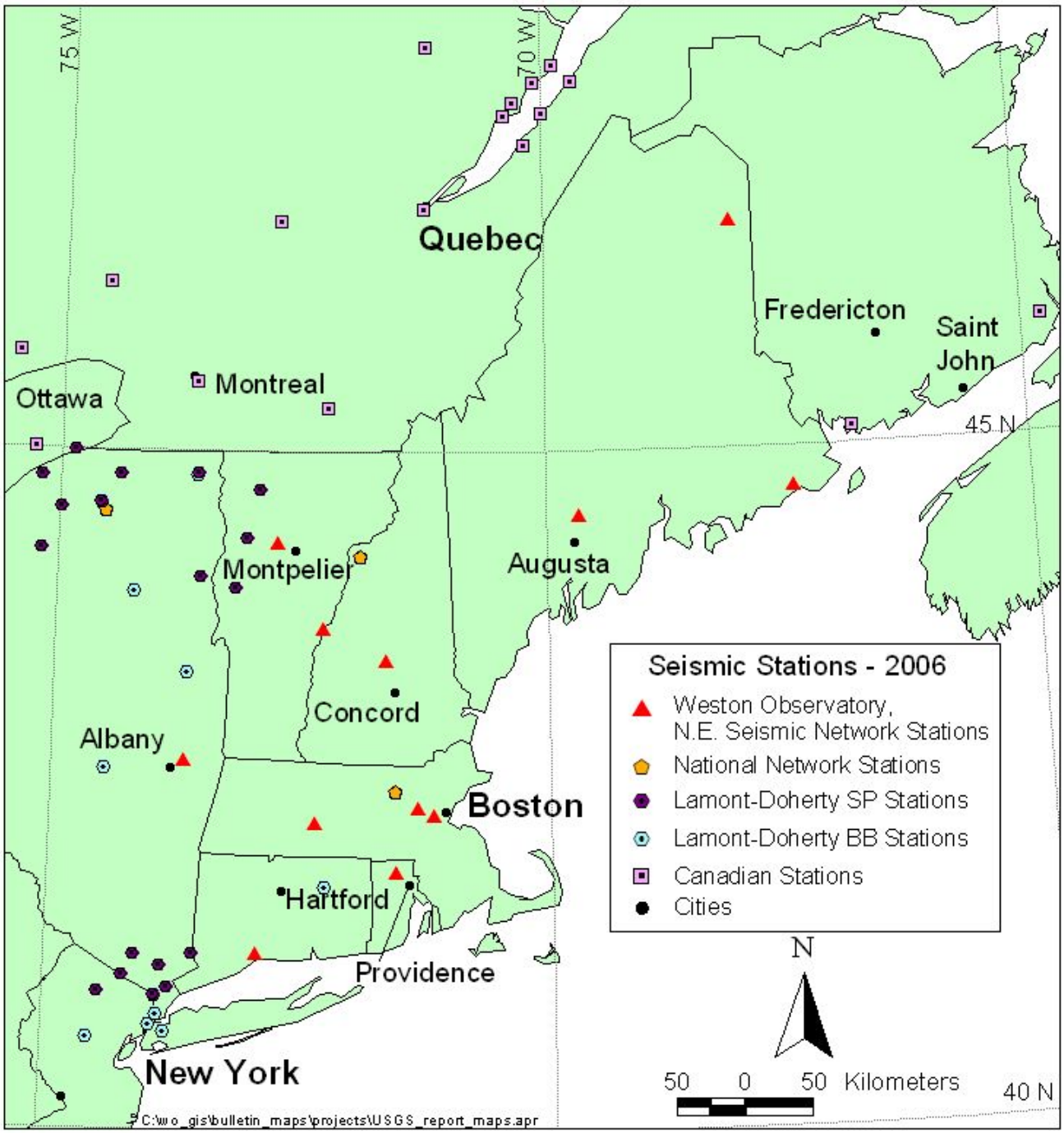

Figure 1: Map of stations of the New England Seismic Network (NESN) in operation during the period of this report. Also included are other Northeast U.S. and Canadian seismic stations in operation during this period.

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NESN Strong-Motion Station Map

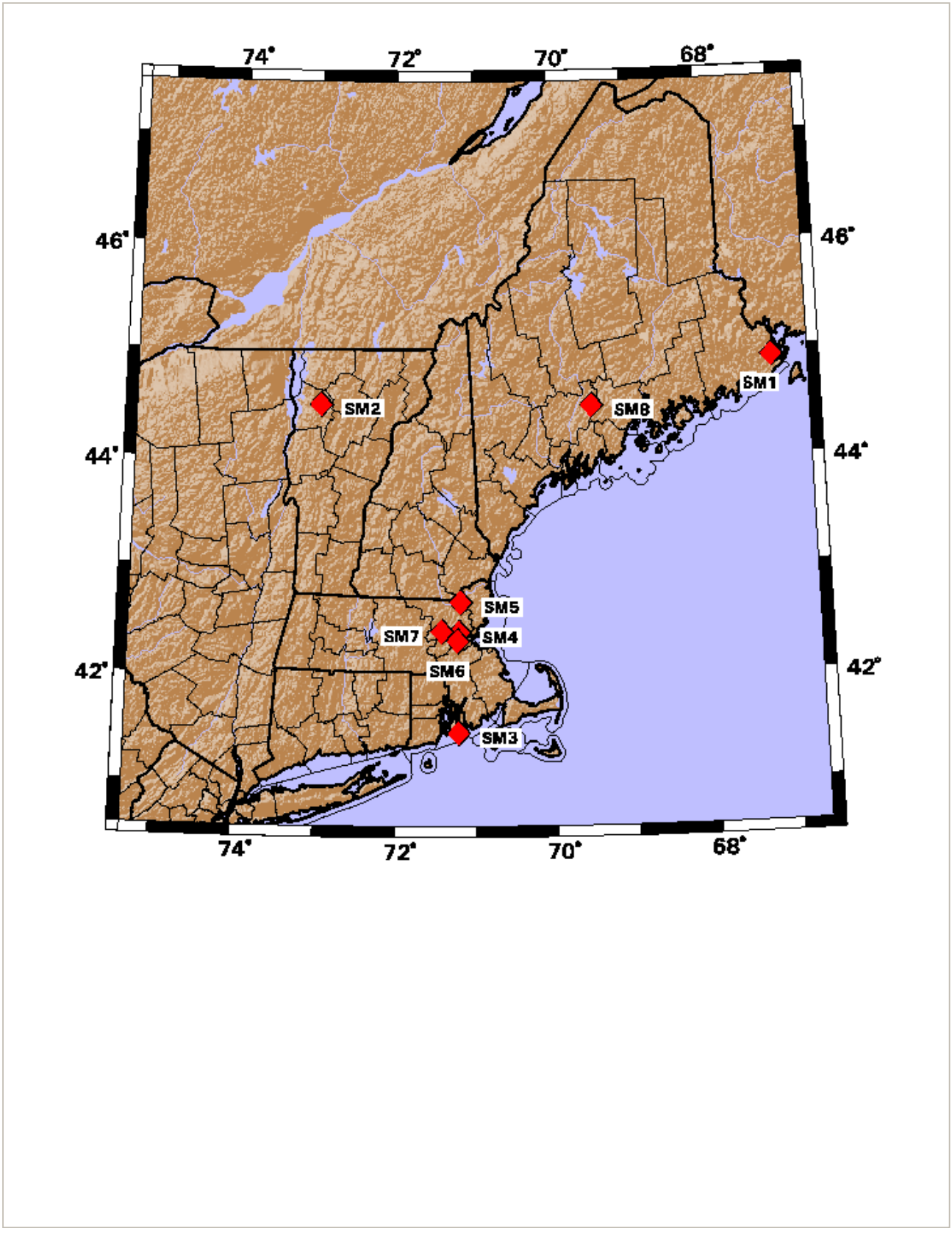

Figure 2: Map of strong-motion stations of the New England Seismic Network (NESN) in operation during the period of this report.

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NESN Quarterly Seismicity Map

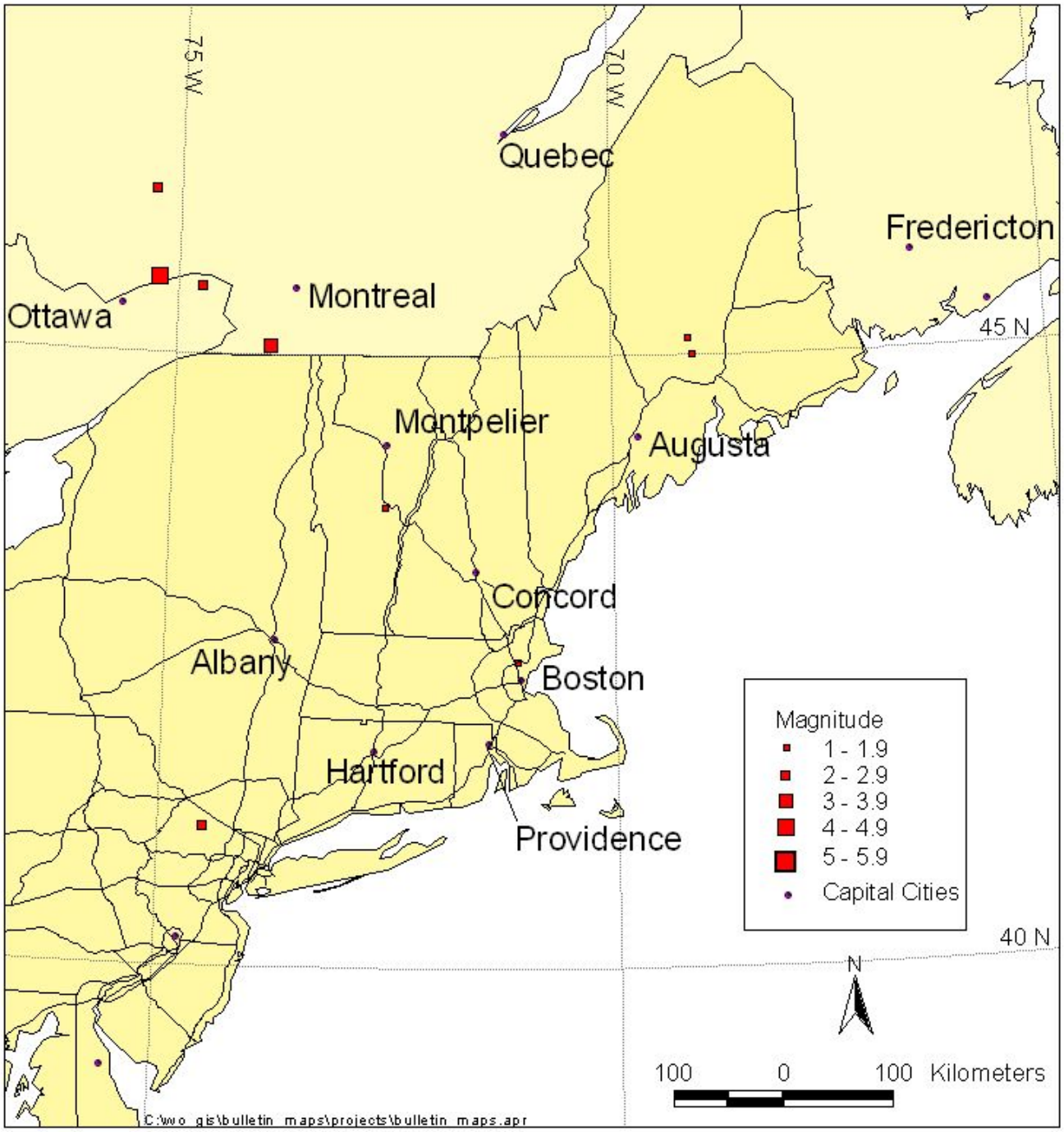

Figure 3: Earthquake epicenters located by the NESN during the period of this report.

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NESN Cumulative Seismicity Map

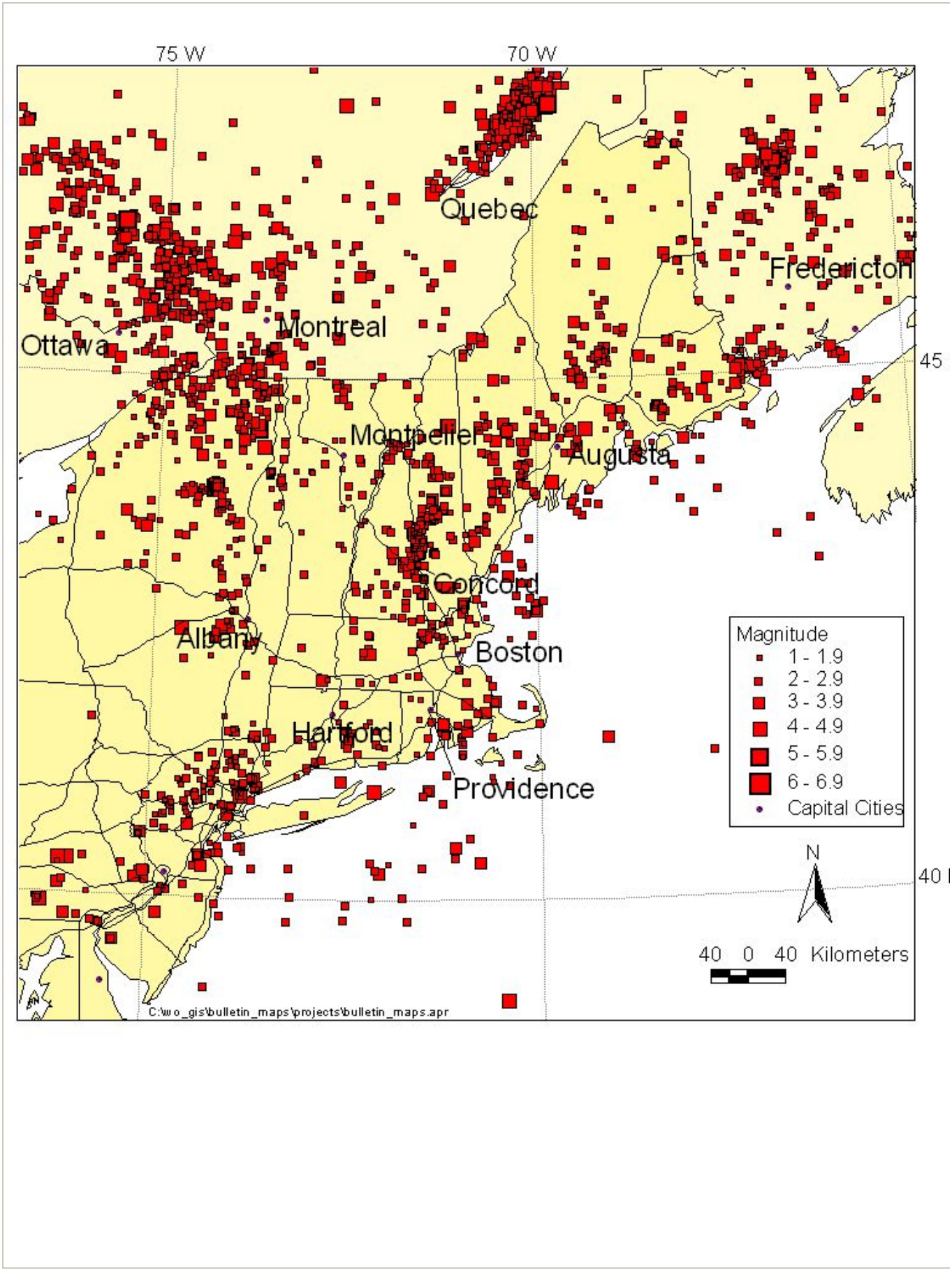

Figure 4: Seismicity for period October, 1975 - March, 2006.

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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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