DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

National Earthquake Information Center
Waveform Catalog
January 1986

by

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U.S. Geological Survey
Denver, Colorado

Open-File Report 86-660A
1986

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards.

Contents

Introduction

This report provides a visual catalog of digitally recorded waveform data available from the event tapes produced by the United States Geological Survey's National Earthquake Information Center (NEIC). It is intended to provide the researcher with a quick index both to the availability of data and to the character of the data for each event (e.g., complexity and directionality).

The network-event tapes are a data service initiated by the NEIC in 1984. Currently, these tapes contain data from the Global Digital Seismograph Network (GDSN), the Regional Seismograph Test Network (RSTN), and the Glen Almond, Canada, SRO station. In the future, data from other high-quality stations and arrays, installed and operated by countries around the world, will be added to the event tapes as they are made available to us.

Network-event tapes contain digital data for earthquakes of magnitude 5.5 or greater in the NEIC network-day tape format. For this catalog, all available vertical component recordings in all period bands are shown, including those for stations that were saturated or nonoperational or that had some other difficulty during the event. Horizontal component records were omitted in order to minimize the size of this catalog. In general, one can expect them to be of approximately the same quality as the vertical component records at any particular time. Most of the available stations do not record short-period horizontal components. All stations that have intermediate-period recordings, however, record all three components in this band. Only long-period components are recorded continuously; short- and intermediate-period channels are recorded only when an event is detected. Horizontal components (where available) are recorded whenever the vertical component is, and never otherwise.

This report mainly consists of vertical component waveforms from all reporting stations, organized by event. The section for each event is prefaced by a station coverage map, in which stations and geography within 100° of the source are shown in an azimuthal equidistant projection centered at the epicenter. Following the coverage map, all short-period, vertical component waveforms are shown in order of increasing epicentral distance. Each short-period waveform is two minutes long and is identified by station code, start

time, and epicentral distance, Δ, in degrees. The start time is chosen to be about 15 seconds before the earliest theoretical arrival time of interest (P, Pdiff, or PKPdf, depending on distance). The vertical scale is in microns of ground displacement at the dominant period of the instrument response, which is taken to be 1 second. Each page of waveforms is titled with the event origin date-time, the Flinn-Engdahl region name, and the component identifier (SPZ, LPZ or IPZ). Also, the depth of the event (h) in kilometers and its average body (m_b) and vertical surface wave (M_{SZ}) magnitudes are shown for convenience.

Following the short-period waveforms (SPZ), long-period vertical (LPZ) and finally intermediate-period vertical (IPZ) waveforms are shown. In each case, the format is the same as for the short-period waveforms. Fifty minutes of long-period data are shown beginning 1 minute before the theoretical first arrival, and the dominant period is taken to be 25 seconds. Four minutes of intermediate-period data are shown beginning 30 seconds before the theoretical first arrival, and the dominant period is assumed to be 1 second. Because (1) the event detection algorithm is not perfect, (2) only about half of the available stations have intermediate-period channels, and (3) one station (GAC) has no short-period recordings, it is not uncommon for stations with good long-period recordings to have no intermediate-period and perhaps no short-period recordings at all.

With the inclusion of the Network of Autonomously Registrating Stations (NARS) in September 1985, it was difficult to list the name of each station in the network on the station coverage map because of their close proximity. Instead, a new symbol (□) will be used to denote each station of the network, with the name NARS. When other networks are included with stations situated close together, a new symbol will be used to denote each station of each network. The name used will be the network name only.

Table 1. Earthquakes for January 1986 with magnitudes ≥ 5.5

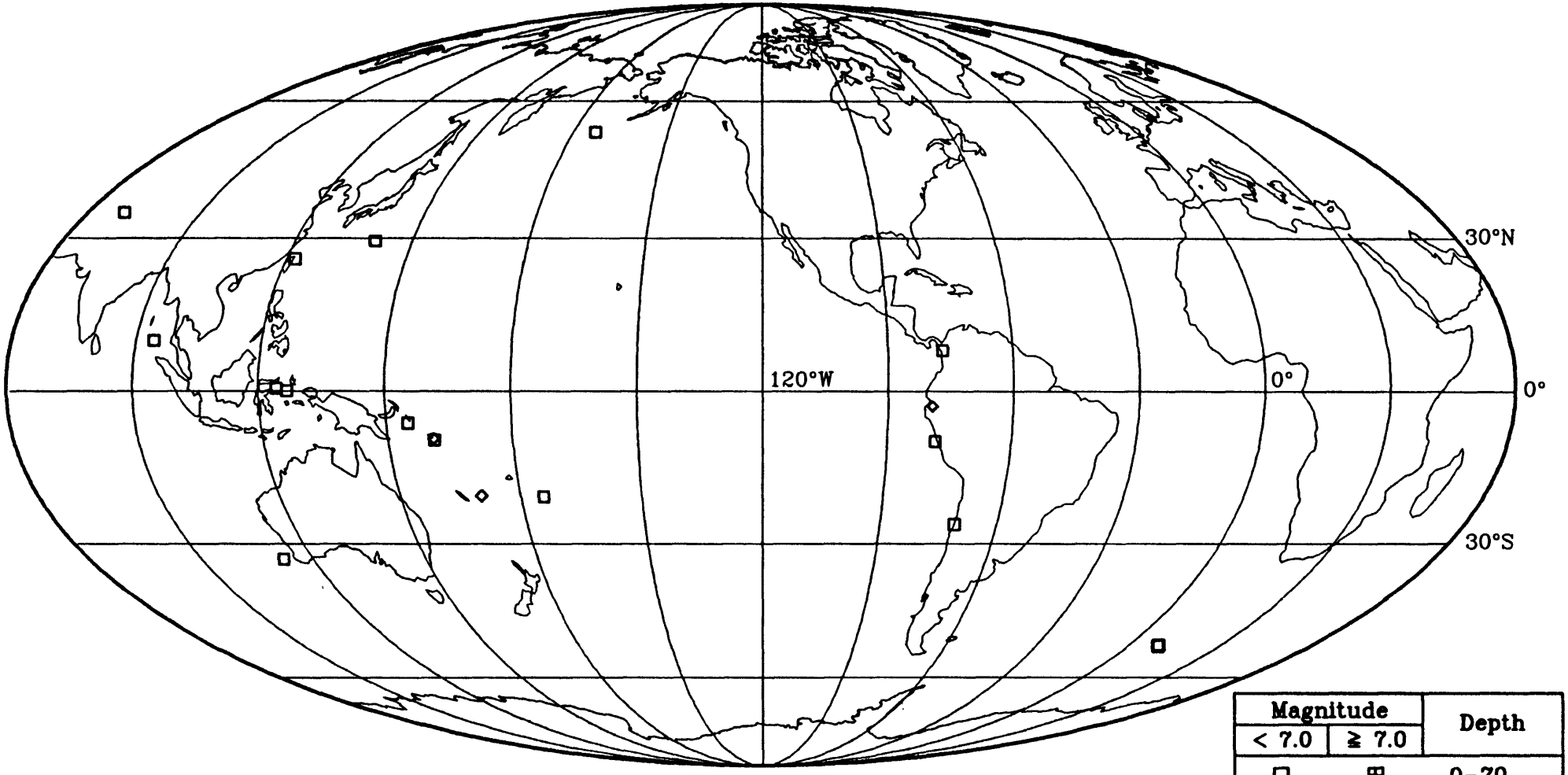
	Origin Time UTC	Latitude	Longitude	Depth (km)	Magnitude m_b	Magnitude M_{SZ}	Flinn-Engdahl Region Name
1.	1986 01 02 21:33:40.67	34.218° S	111.943° E	10.0	5.1	5.5	West of Australia
2.	1986 01 03 09:43:27.51	0.986° S	126.826° E	33.0	5.6	5.6	Molucca Sea
3.	1986 01 05 08:08:07.59	53.286° S	9.761° E	10.0	5.8	5.4	Southwest of Africa
4.	1986 01 10 22:16:22.41	53.058° S	9:647° E	10.0	5.5	5.1	Southwest of Africa
5.	1986 01 12 06:38:21.38	3.955° S	79.380° W	103.3	5.5		Near Coast of Ecuador
6.	1986 01 12 20:14:53.72	34.166° N	69.596° E	33.0	5.3	5.5	Afghanistan
7.	1986 01 14 10:34:00.82	7.132° S	155.189° E	33.0	5.6	4.7	Solomon Islands
8.	1986 01 15 20:17:31.41	21.376° S	170.284° E	145.0	6.1		Loyalty Islands Region
9.	1986 01 16 13:04:34.19	24.737° N	122.096° E	33.0	5.5	5.9	Taiwan Region
10.	1986 01 17 04:15:00.01	10.693° S	78.375° W	50.2	5.6		Near Coast of Peru
11.	1986 01 18 01:59:05.21	51.569° N	173.116° W	62.9	5.7		Andreanof Islands, Aleutian Is.
12.	1986 01 21 05:24:22.48	21.528° S	174.336° W	40.4	5.7	5.2	Tonga Islands
13.	1986 01 22 12:26:45.93	10.186° S	161.055° E	100.0	5.9		Solomon Islands
14.	1986 01 22 14:57:12.95	0.516° S	124.323° E	57.7	5.7		Molucca Sea
15.	1986 01 22 20:38:25.56	28.363° N	140.473° E	33.0	4.7	5.5	Bonin Islands Region
16.	1986 01 26 07:48:22.94	27.124° S	70.865° W	30.0	5.7	4.8	Near Coast of Northern Chile
17.	1986 01 27 07:35:21.28	10.399° S	161.177° E	55.2	5.6		Solomon Islands
18.	1986 01 28 12:32:17.46	8.779° N	94.175° E	33.0	5.7	5.8	Nicobar Islands Region
19.	1986 01 29 13:34:09.66	6.887° N	76.863° W	10.0	5.6	5.3	Northern Colombia

Table 2. Network-event tape station list for January 1986.

Code	ID	Station	Latitude	Longitude	Elevation (m)	Type*
ANMO	30	Albuquerque, New Mexico	34.95° N	106.46° W	1740.0	SRO
ANTO	31	Ankara, Turkey	39.87° N	32.79° E	883.0	SRO
BCAO	37	Bangui, Central African Republic	4.43° N	18.54° E	336.0	SRO
BDF	72	Brasilia, Brazil	15.66° S	47.90° W	1500.0	DWWSSN
CHTO	33	Chiang Mai, Thailand	18.79° N	98.98° E	316.0	SRO
COL	62	College, Alaska	64.90° N	147.79° W	320.0	DWWSSN
CTAO	50	Charters Towers, Australia	20.09° S	146.25° E	357.0	ASRO
GAC	43	Glen Almond, Quebec, Canada	45.70° N	75.48° W	620.0	SRO
GDH	70	Godhavn, Greenland	69.25° N	53.53° W	23.0	DWWSSN
GRA1	302	Haidhof, Germany	49.69° N	11.22° E	500.0	GRF
GRFO	39	Graefenberg, Germany	49.69° N	11.22° E	500.0	SRO
GUMO	35	Guam, Mariana Islands	13.59° N	144.87° E	14.0	SRO
HON	66	Honolulu, Hawaii	21.32° N	158.01° W	2.0	DWWSSN
JAS1	64	Jamestown, California	37.93° N	120.42° W	425.0	DWWSSN
KEV	67	Kevo, Finland	69.76° N	27.01° E	80.0	DWWSSN
KONO	54	Kongsberg, Norway	59.65° N	9.60° E	216.0	ASRO
LON	63	Longmire, Washington	46.75° N	121.81° W	854.0	DWWSSN
MAJO	53	Matsushiro, Japan	36.54° N	138.21° E	422.0	ASRO
NRA0	301	NORESS array site A0	60.735° N	11.541° E	302.0	NRSA
NWAO	38	Mundaring (Narrogin), Australia	32.93° S	117.24° E	265.0	SRO
RSCP	81	Cumberland Plateau, Tennessee,	35.60° N	85.57° W	481.0	RSTN
RSNT	82	Yellowknife, Northwest Territories	62.48° N	114.59° W	90.0	RSTN
RSNY	84	Adirondack, New York	44.55° N	74.53° W	351.0	RSTN
RSON	85	Red Lake, Ontario	50.86° N	93.70° W	302.0	RSTN
SCP	61	State College, Pennsylvania	40.79° N	77.87° W	352.0	DWWSSN
SLR	71	Silverton, South Africa	25.73° S	28.28° E	1348.0	DWWSSN
TATO	41	Taipei, Taiwan	24.98° N	121.49° E	53.0	SRO
TOL	73	Toledo, Spain	39.88° N	4.05° W	480.0	DWWSSN
ZOBO	51	La Paz (Zongo), Bolivia	16.27° S	68.13° W	4450.0	ASRO

* ASRO - Abbreviated Seismic Research Observatory
DWWSSN - Digital World Wide Standardized Seismograph Network
GRF - Graefenberg Array
NARS - Network of Autonomously Registrating Stations
NRSA - Norwegian Regional Seismic Array
RSTN - Regional Seismic Test Network
SRO - Seismic Research Observatory

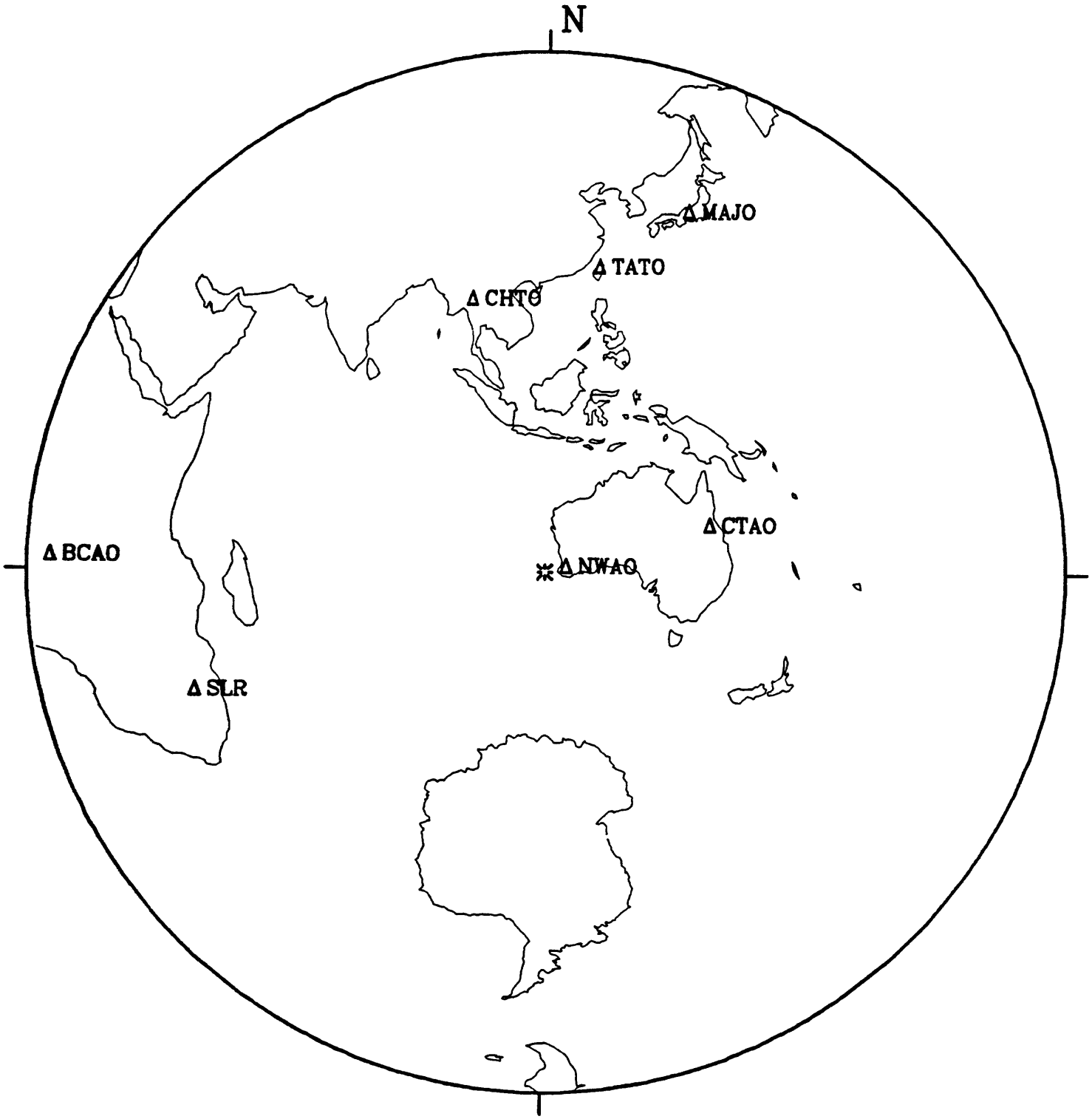
EARTHQUAKES – January 1986 – MAGNITUDE ≧ 5.5

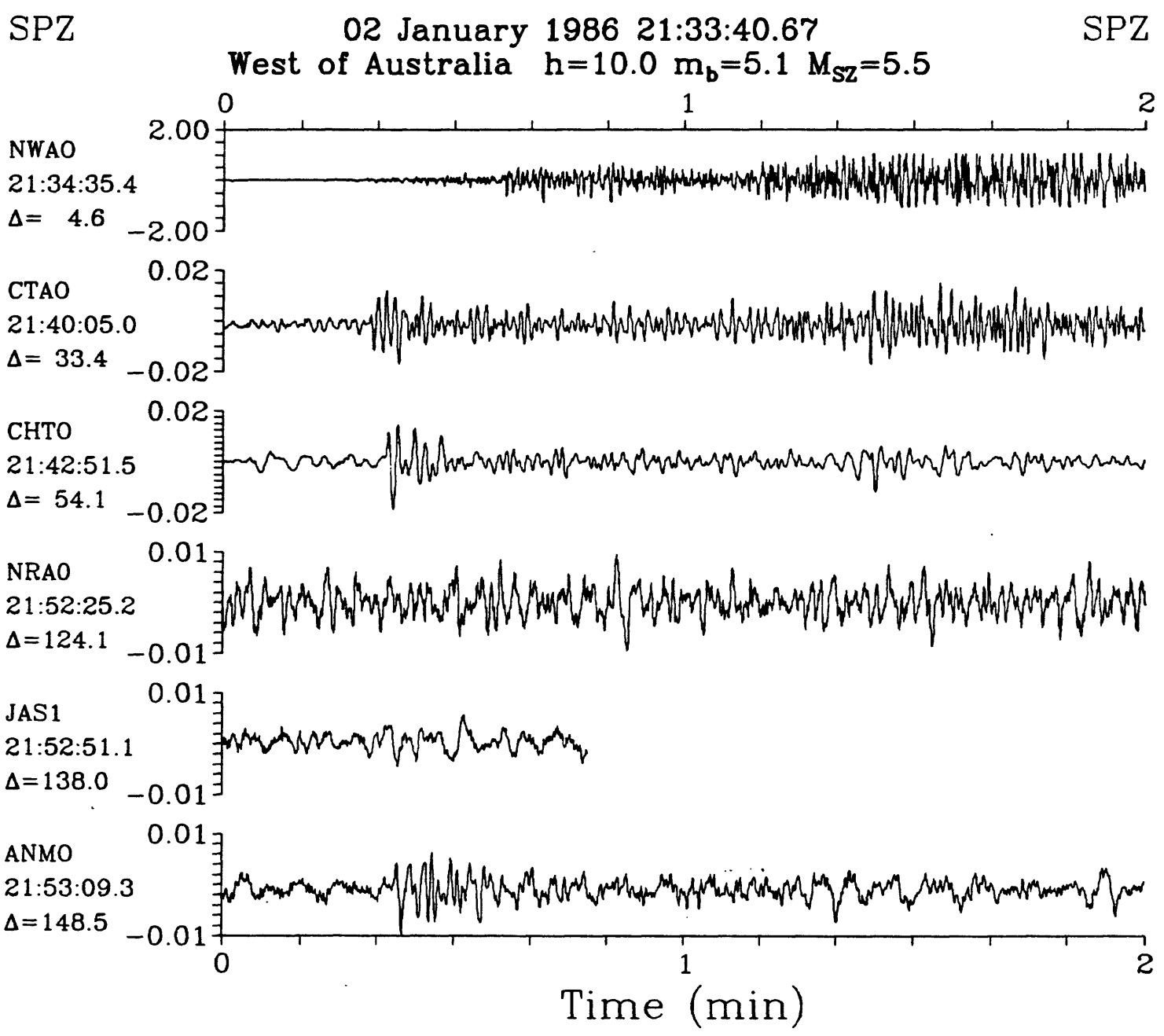


Magnitude		Depth
< 7.0	≧ 7.0	
□	⊞	0–70
◇	◆	71–300
○	⊕	301–800

02 January 1986 21:33:40.67

West of Australia

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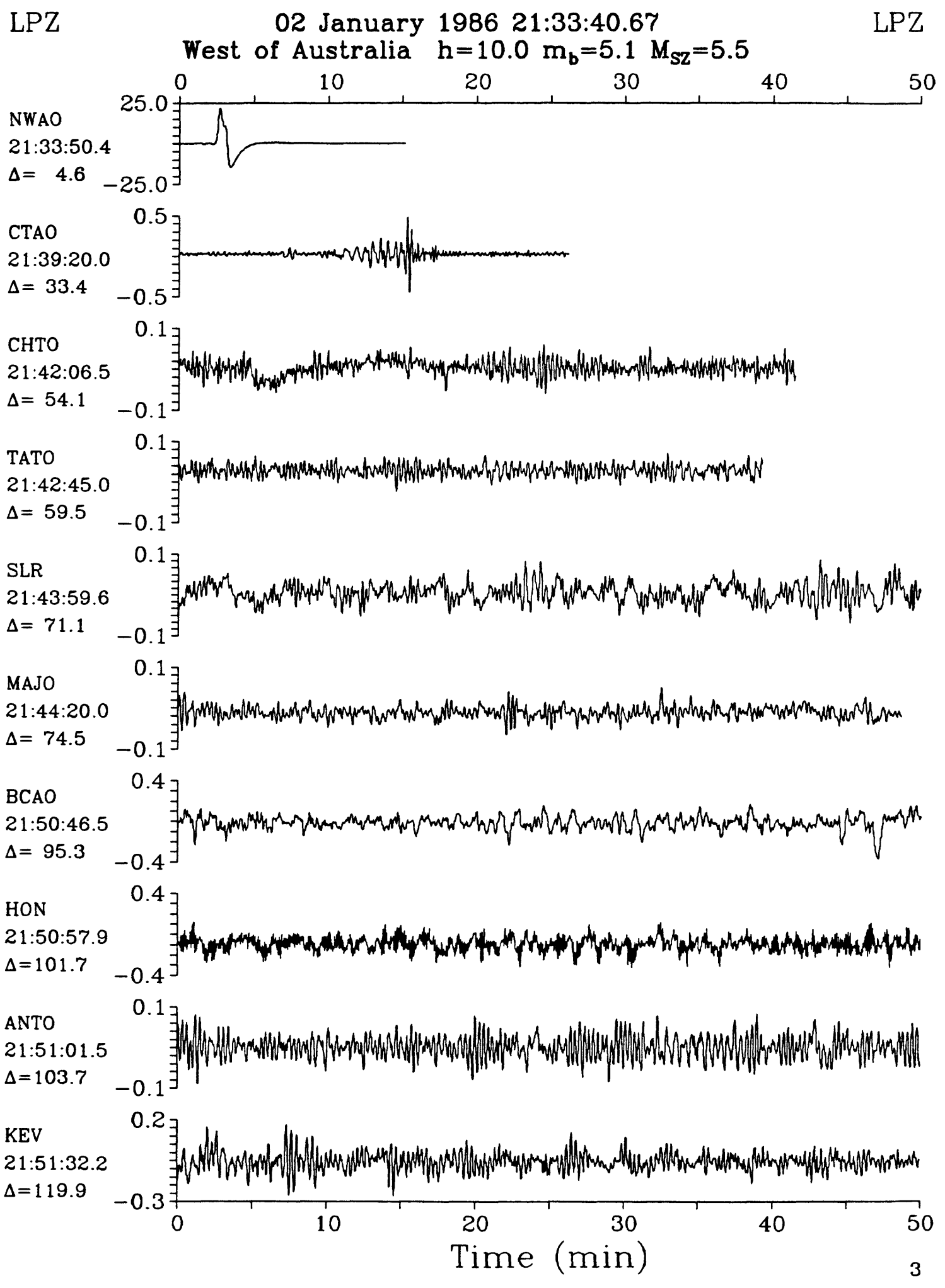
02 January 1986 21:33:40.67
SPZ
West of Australia h=10.0 m_b=5.1 M_{SZ}=5.5
0
1
2
NWAO
21:34:35.4
Δ= 4.6
2.00
-2.00
CTAO
21:40:05.0
Δ= 33.4
0.02
-0.02
CHTO
21:42:51.5
Δ= 54.1
0.02
-0.02
NRAO
21:52:25.2
Δ=124.1
0.01
-0.01
JAS1
21:52:51.1
Δ=138.0
0.01
-0.01
ANMO
21:53:09.3
Δ=148.5
0.01
-0.01
0
1
2
Time (min)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02 January 1986 21:33:40.67
LPZ
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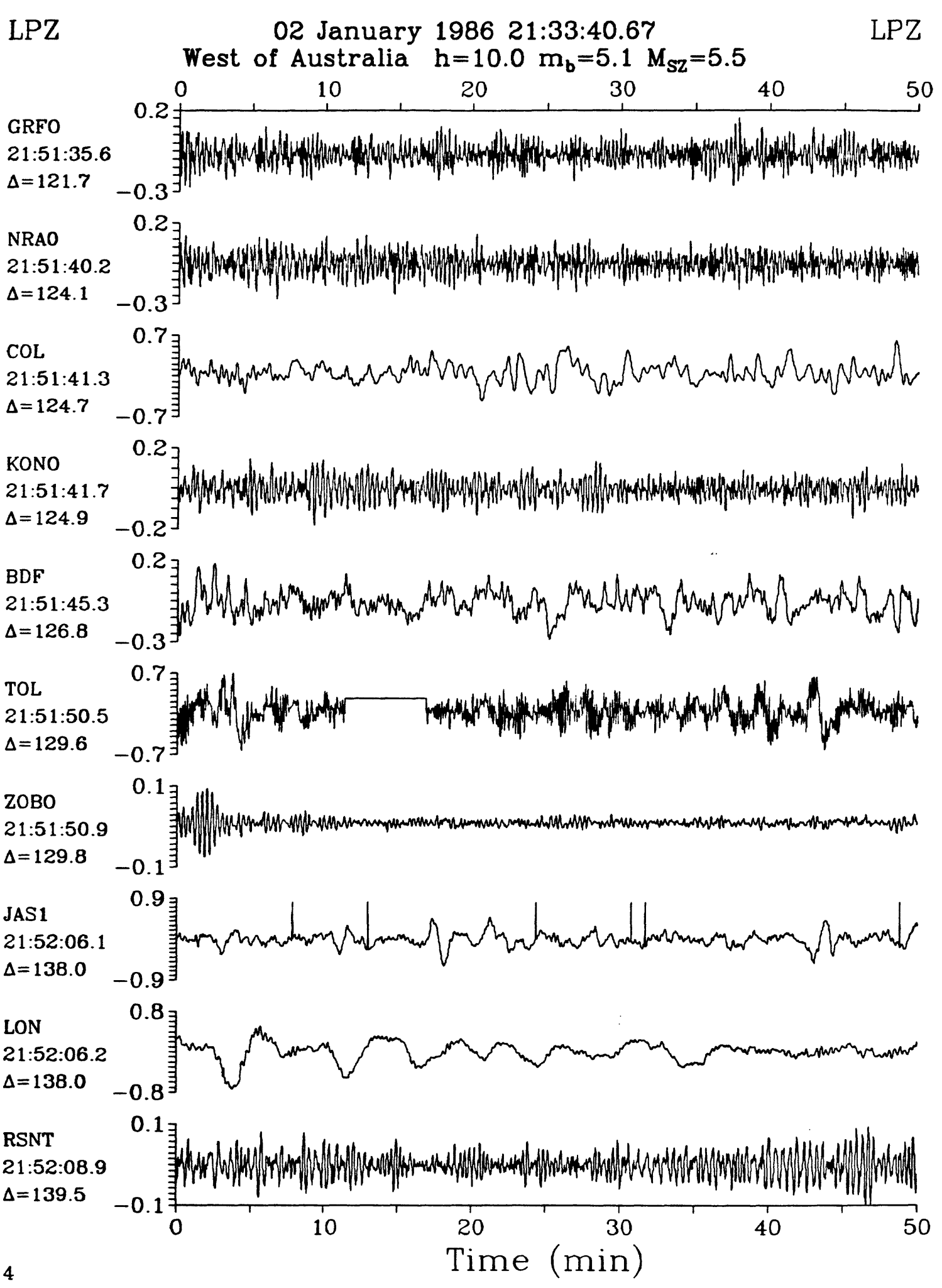
0
10
20
30
40
50
NWAO
21:33:50.4
Δ= 4.6
25.0
-25.0
CTAO
21:39:20.0
Δ= 33.4
0.5
-0.5
CHTO
21:42:06.5
Δ= 54.1
0.1
-0.1
TATO
21:42:45.0
Δ= 59.5
0.1
-0.1
SLR
21:43:59.6
Δ= 71.1
0.1
-0.1
MAJO
21:44:20.0
Δ= 74.5
0.1
-0.1
BCAO
21:50:46.5
Δ= 95.3
0.4
-0.4
HON
21:50:57.9
Δ=101.7
0.4
-0.4
ANTO
21:51:01.5
Δ=103.7
0.1
-0.1
KEV
21:51:32.2
Δ=119.9
0.2
-0.3
0
10
20
30
40
50
Time (min)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02 January 1986 21:33:40.67
LPZ
West of Australia h=10.0 m_b=5.1 M_{SZ}=5.5
0
10
20
30
40
50
GRFO
21:51:35.6
Δ=121.7
0.2
−0.3
NRAO
21:51:40.2
Δ=124.1
0.2
−0.3
COL
21:51:41.3
Δ=124.7
0.7
−0.7
KONO
21:51:41.7
Δ=124.9
0.2
−0.2
BDF
21:51:45.3
Δ=126.8
0.2
−0.3
TOL
21:51:50.5
Δ=129.6
0.7
−0.7
ZOBO
21:51:50.9
Δ=129.8
0.1
−0.1
JAS1
21:52:06.1
Δ=138.0
0.9
−0.9
LON
21:52:06.2
Δ=138.0
0.8
−0.8
RSNT
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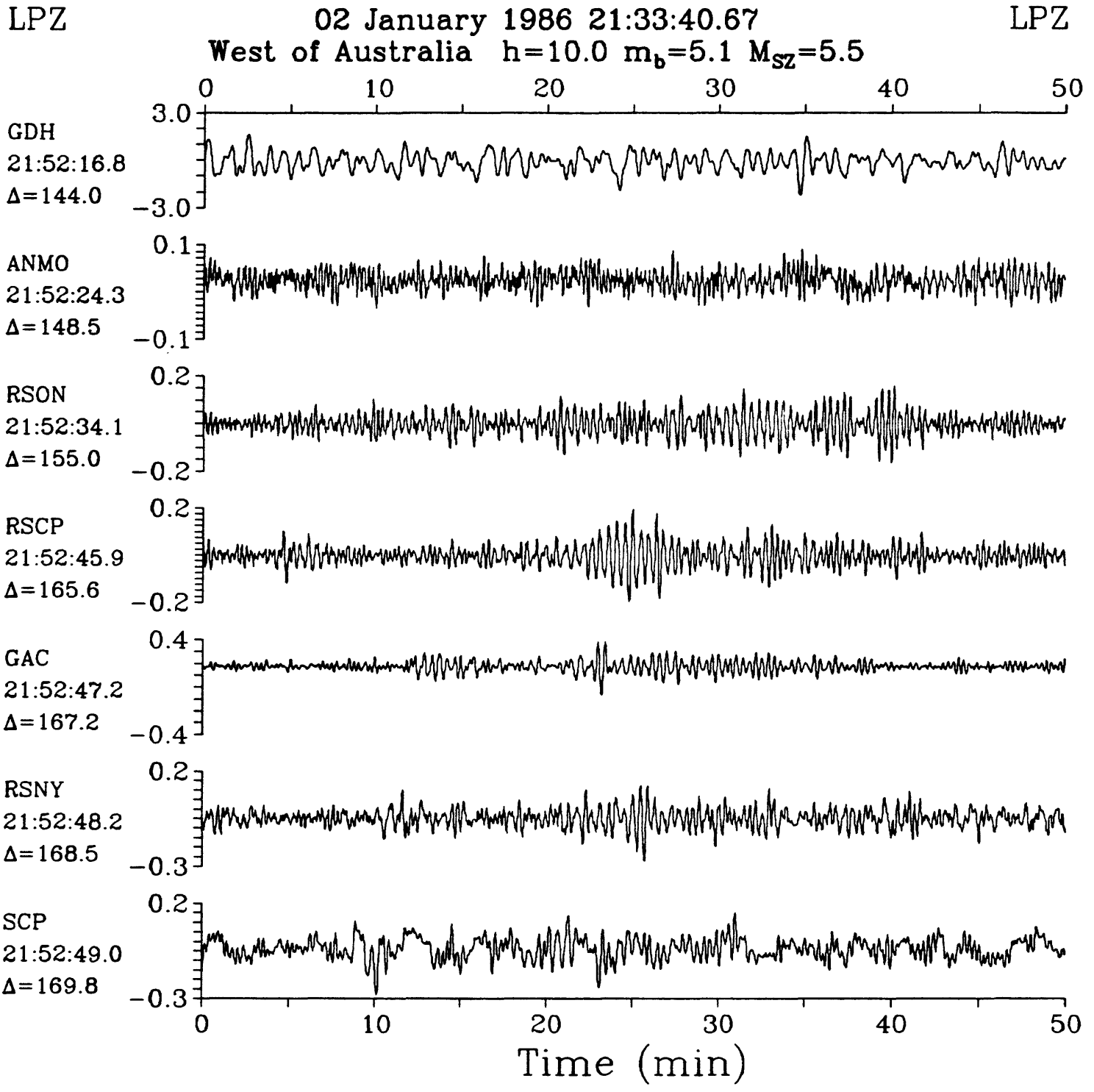
Δ=139.5
0.1
−0.1
0
10
20
30
40
50
Time (min)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02 January 1986 21:33:40.67
LPZ
West of Australia h=10.0 m_b=5.1 M_{SZ}=5.5
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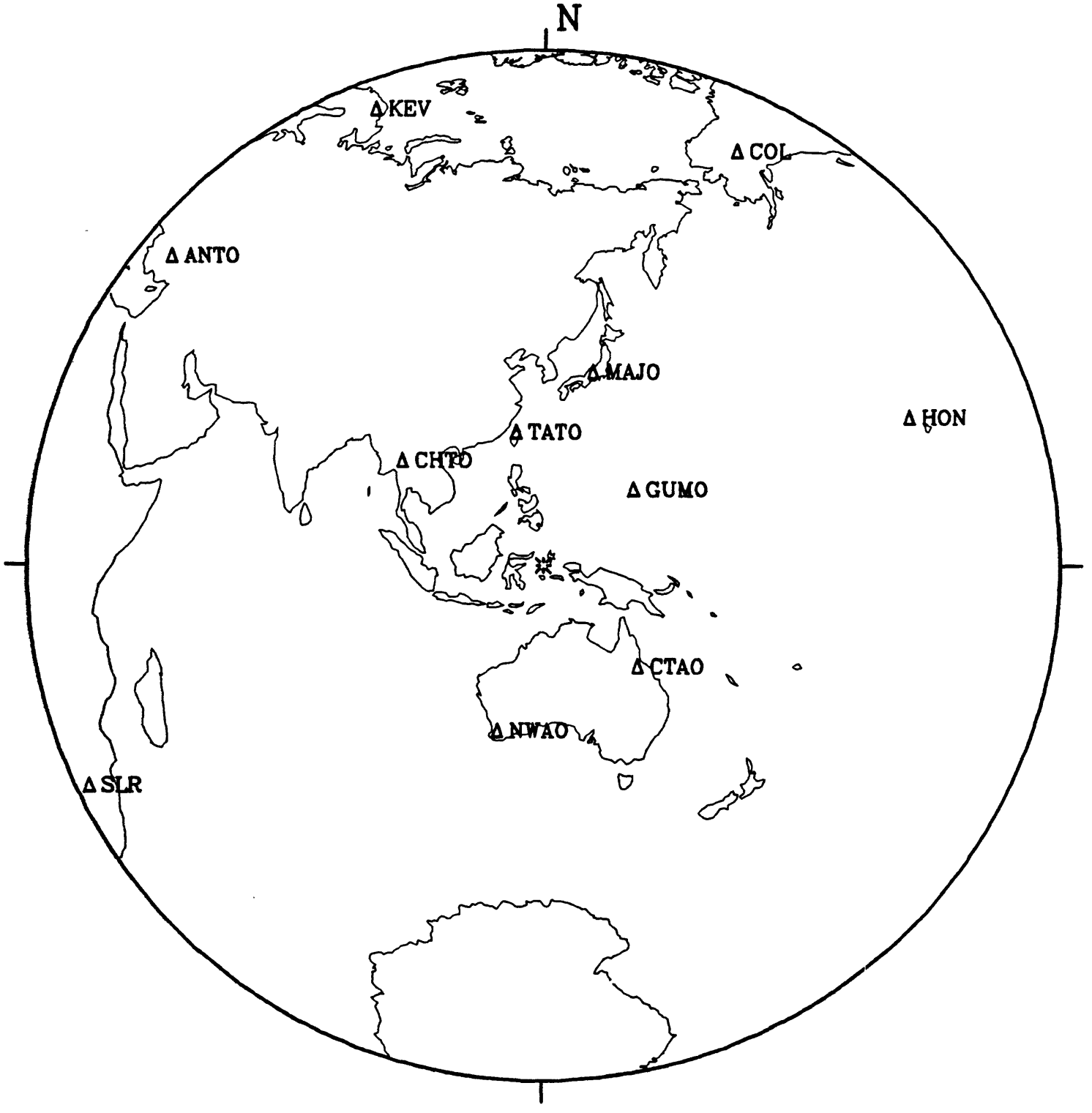
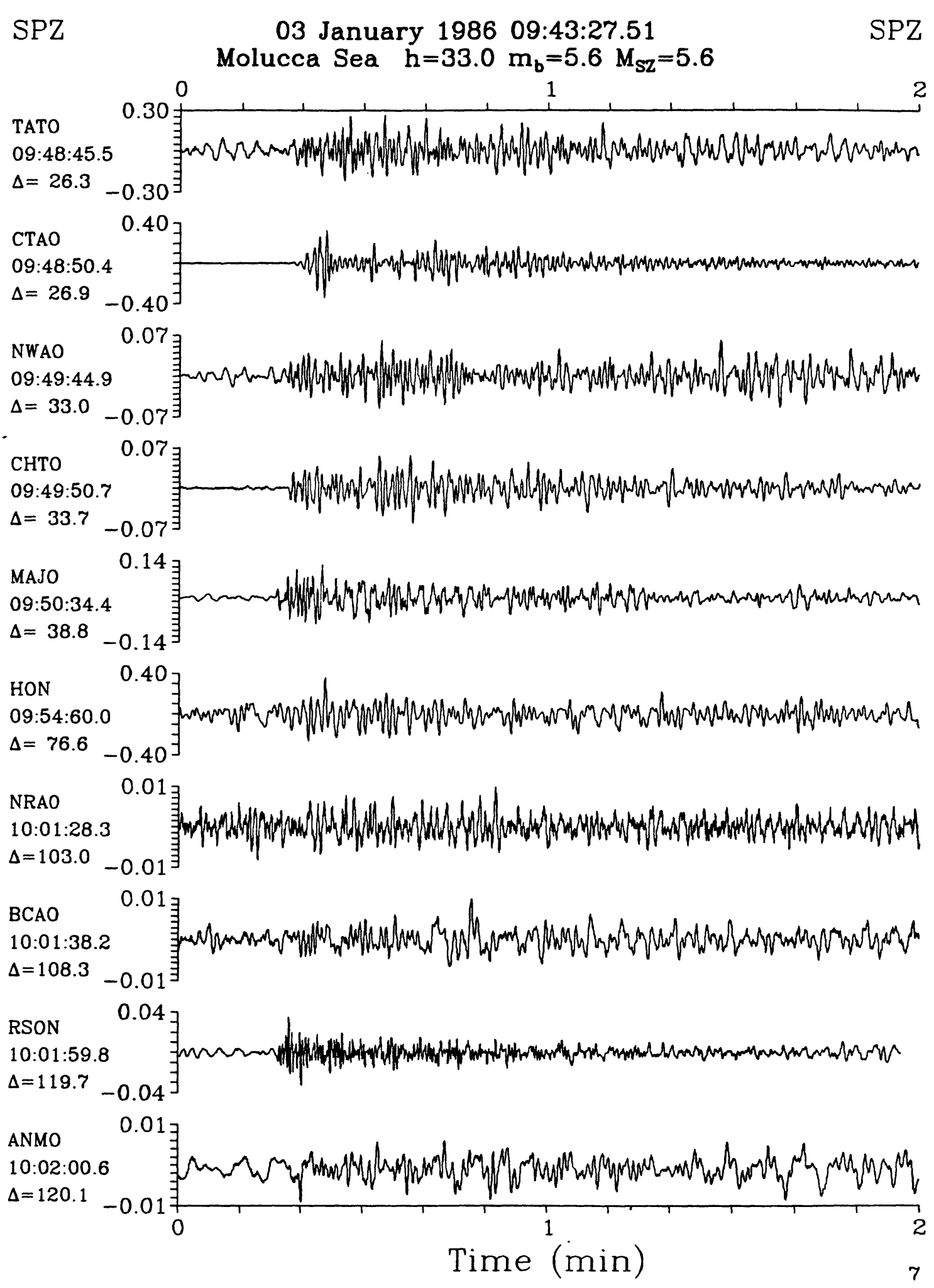
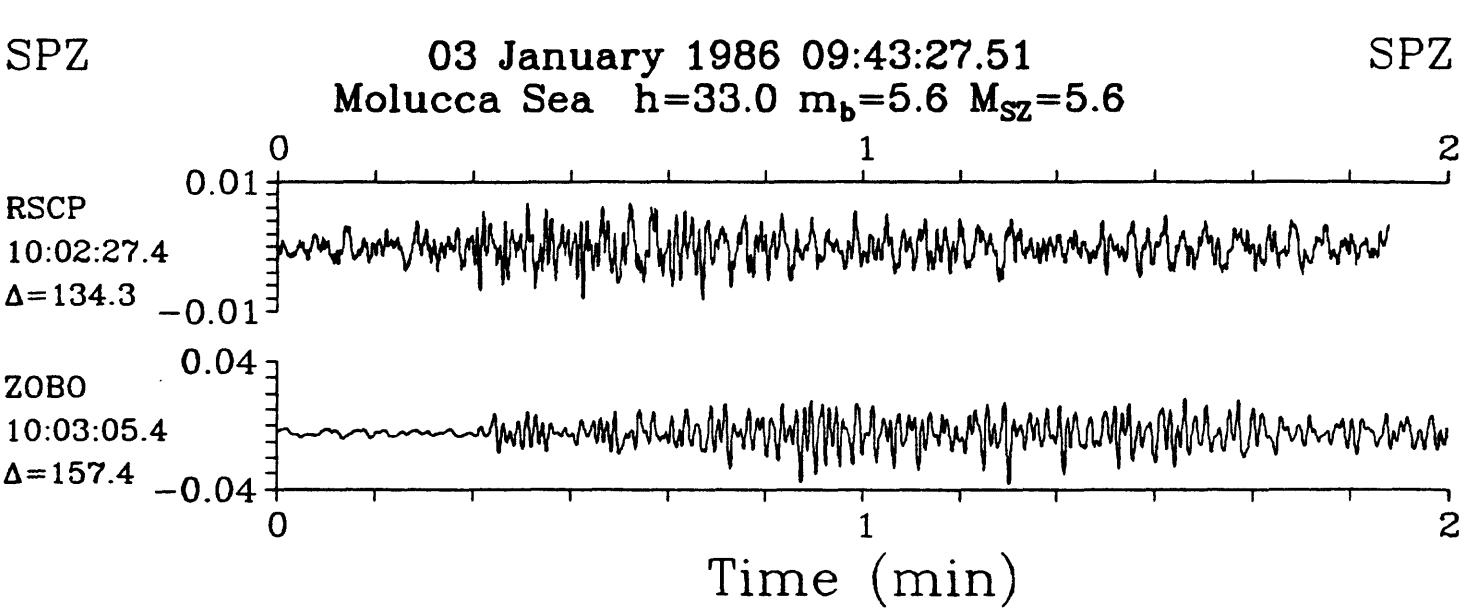
10
20
30
40
50
GDH
21:52:16.8
Δ=144.0
3.0
-3.0
ANMO
21:52:24.3
Δ=148.5
0.1
-0.1
RSON
21:52:34.1
Δ=155.0
0.2
-0.2
RSCP
21:52:45.9
Δ=165.6
0.2
-0.2
GAC
21:52:47.2
Δ=167.2
0.4
-0.4
RSNY
21:52:48.2
Δ=168.5
0.2
-0.3
SCP
21:52:49.0
Δ=169.8
0.2
-0.3
0
10
20
30
40
50
Time (min)

03 January 1986 09:43:27.51

Molucca Sea




SPZ
03 January 1986 09:43:27.51
Molucca Sea h=33.0 m_b=5.6 M_{SZ}=5.6
SPZ
0
1
2
TATO
09:48:45.5
Δ= 26.3
0.30
-0.30
CTAO
09:48:50.4
Δ= 26.9
0.40
-0.40
NWAO
09:49:44.9
Δ= 33.0
0.07
-0.07
CHTO
09:49:50.7
Δ= 33.7
0.07
-0.07
MAJO
09:50:34.4
Δ= 38.8
0.14
-0.14
HON
09:54:60.0
Δ= 76.6
0.40
-0.40
NRAO
10:01:28.3
Δ=103.0
0.01
-0.01
BCAO
10:01:38.2
Δ=108.3
0.01
-0.01
RSON
10:01:59.8
Δ=119.7
0.04
-0.04
ANMO
10:02:00.6
Δ=120.1
0.01
-0.01
0
1
2
Time (min)


SPZ
03 January 1986 09:43:27.51
SPZ
Molucca Sea h=33.0 m_b=5.6 M_{SZ}=5.6
0
1
2
0.01
RSCP
10:02:27.4
Δ=134.3
−0.01
0.04
ZOBO
10:03:05.4
Δ=157.4
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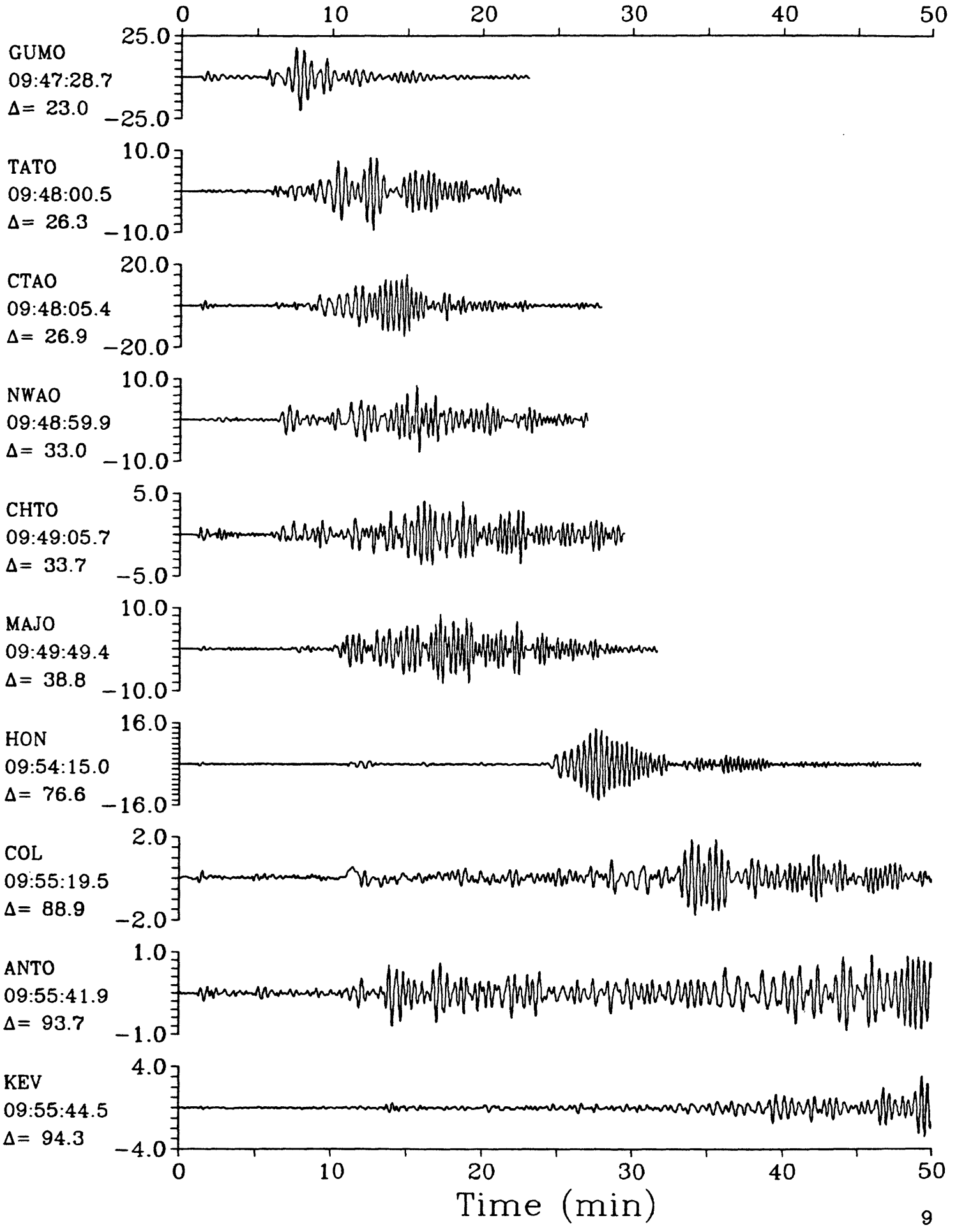
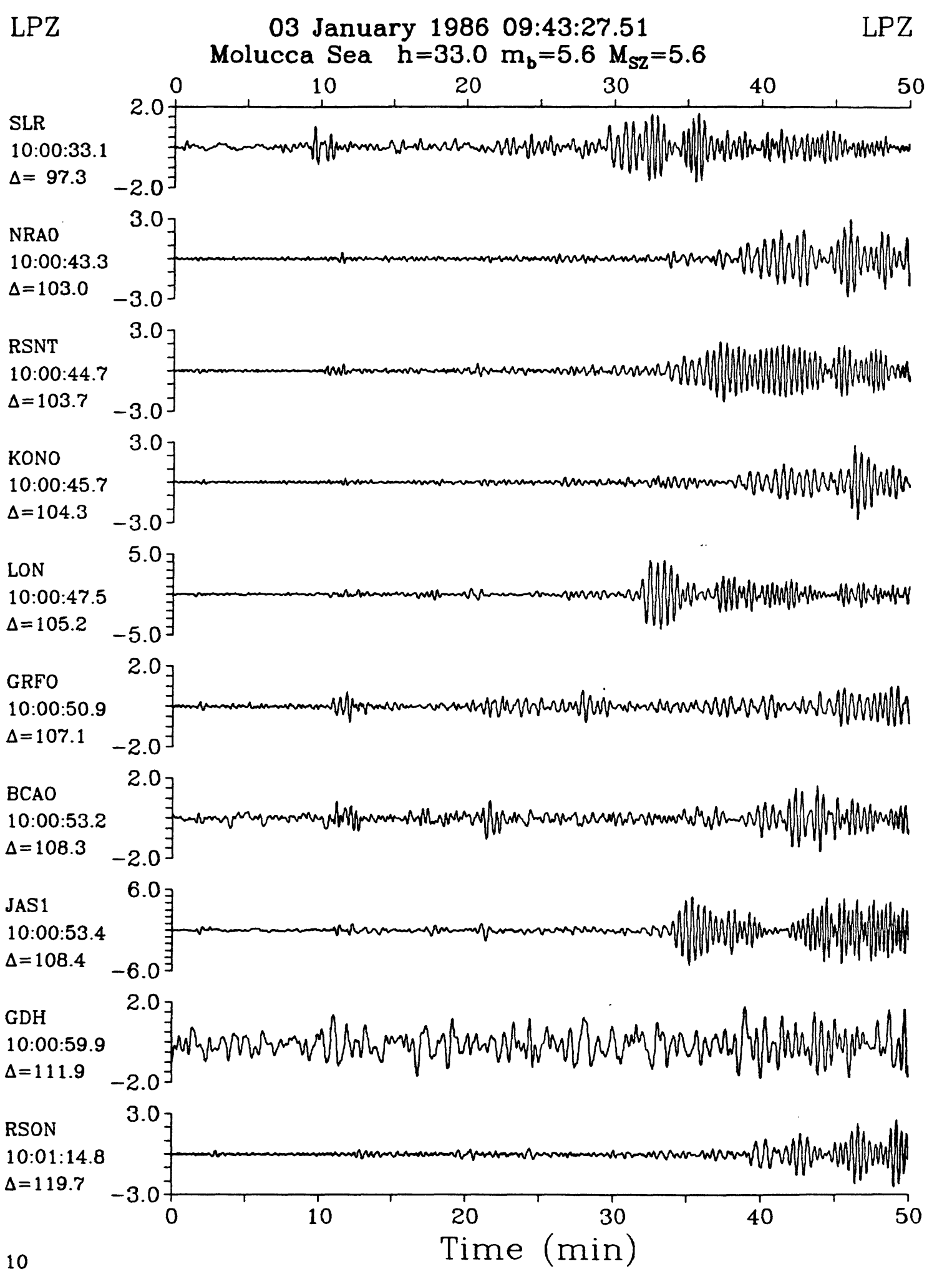
0
1
2
Time (min)

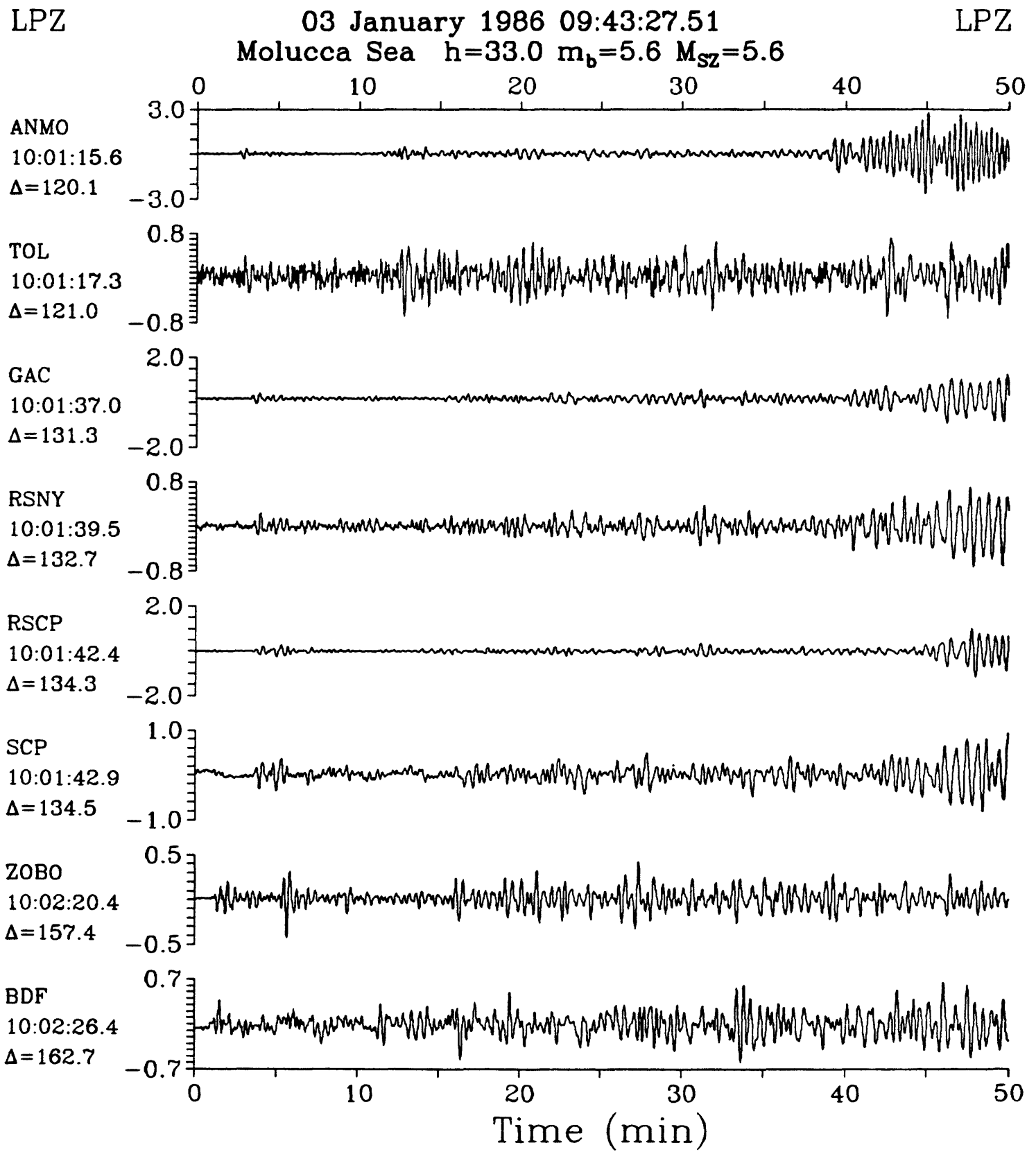
03 January 1986 09:43:27.51

LPZ

Molucca Sea h=33.0 m_b=5.6 M_{SZ}=5.6

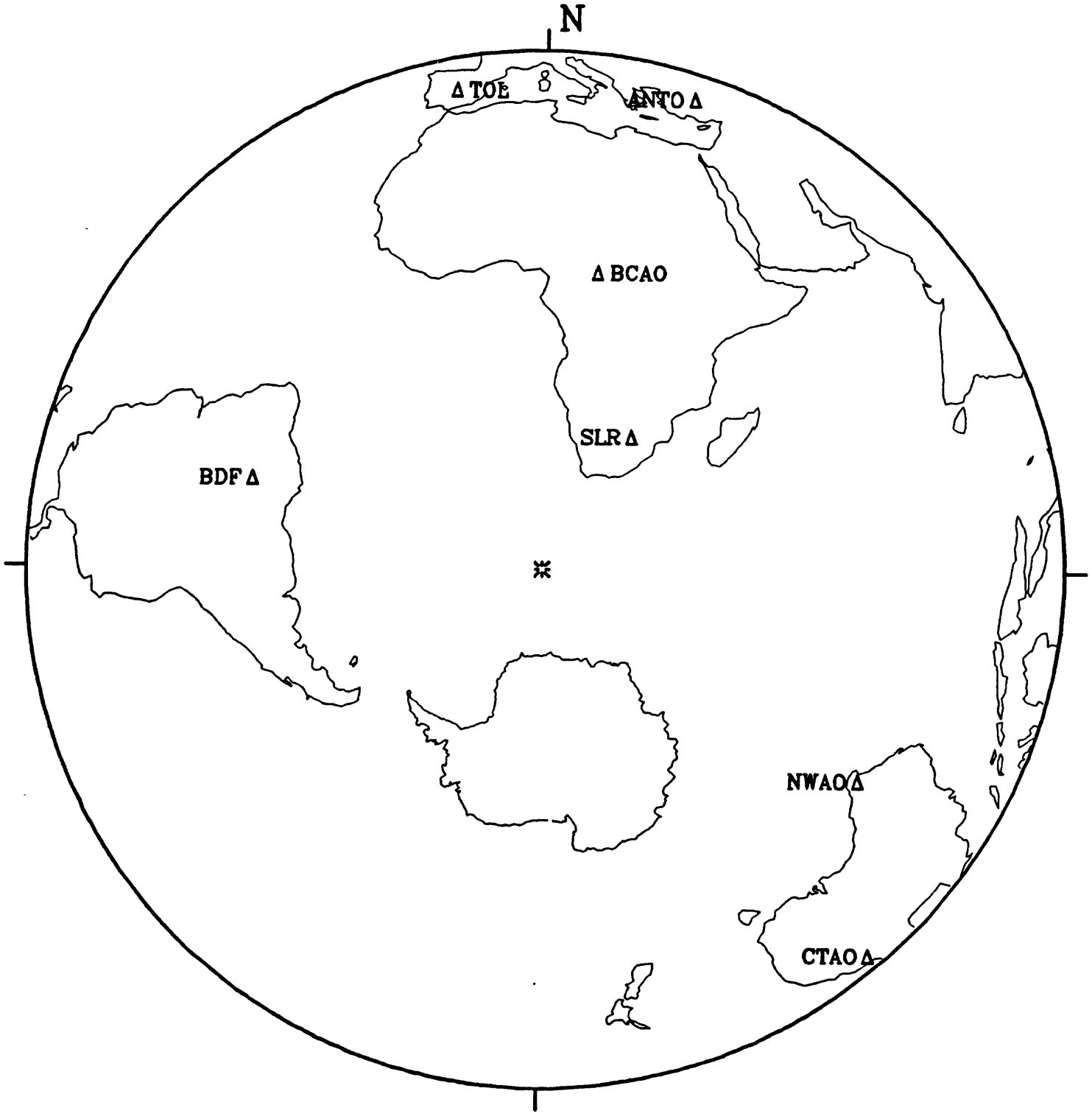


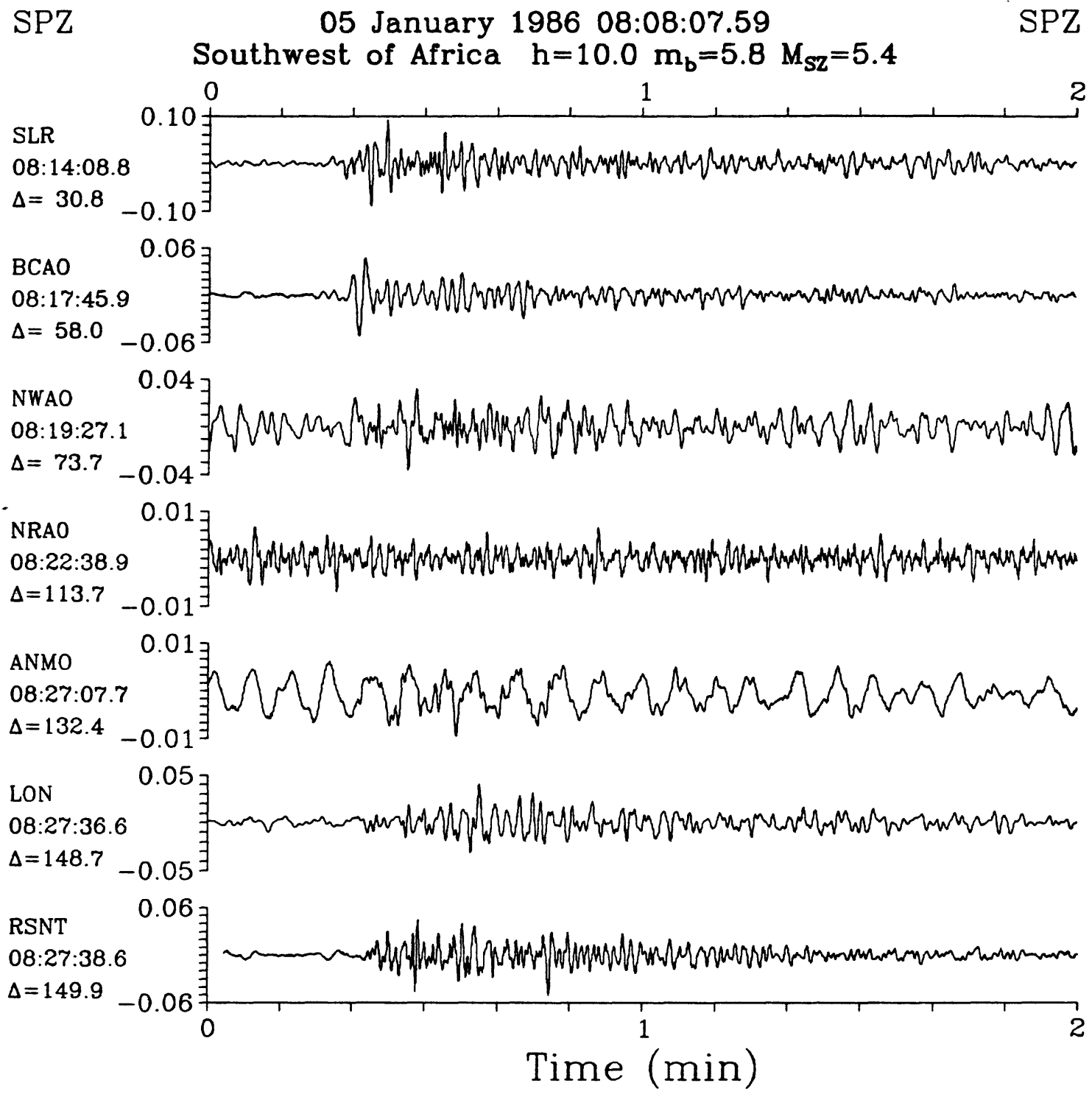

LPZ
03 January 1986 09:43:27.51
LPZ
Molucca Sea h=33.0 m_b=5.6 M_{SZ}=5.6
0
10
20
30
40
50
SLR
10:00:33.1
Δ= 97.3
2.0
-2.0
NRAO
10:00:43.3
Δ=103.0
3.0
-3.0
RSNT
10:00:44.7
Δ=103.7
3.0
-3.0
KONO
10:00:45.7
Δ=104.3
3.0
-3.0
LON
10:00:47.5
Δ=105.2
5.0
-5.0
GRFO
10:00:50.9
Δ=107.1
2.0
-2.0
BCAO
10:00:53.2
Δ=108.3
2.0
-2.0
JAS1
10:00:53.4
Δ=108.4
6.0
-6.0
GDH
10:00:59.9
Δ=111.9
2.0
-2.0
RSON
10:01:14.8
Δ=119.7
3.0
-3.0
0
10
20
30
40
50
Time (min)

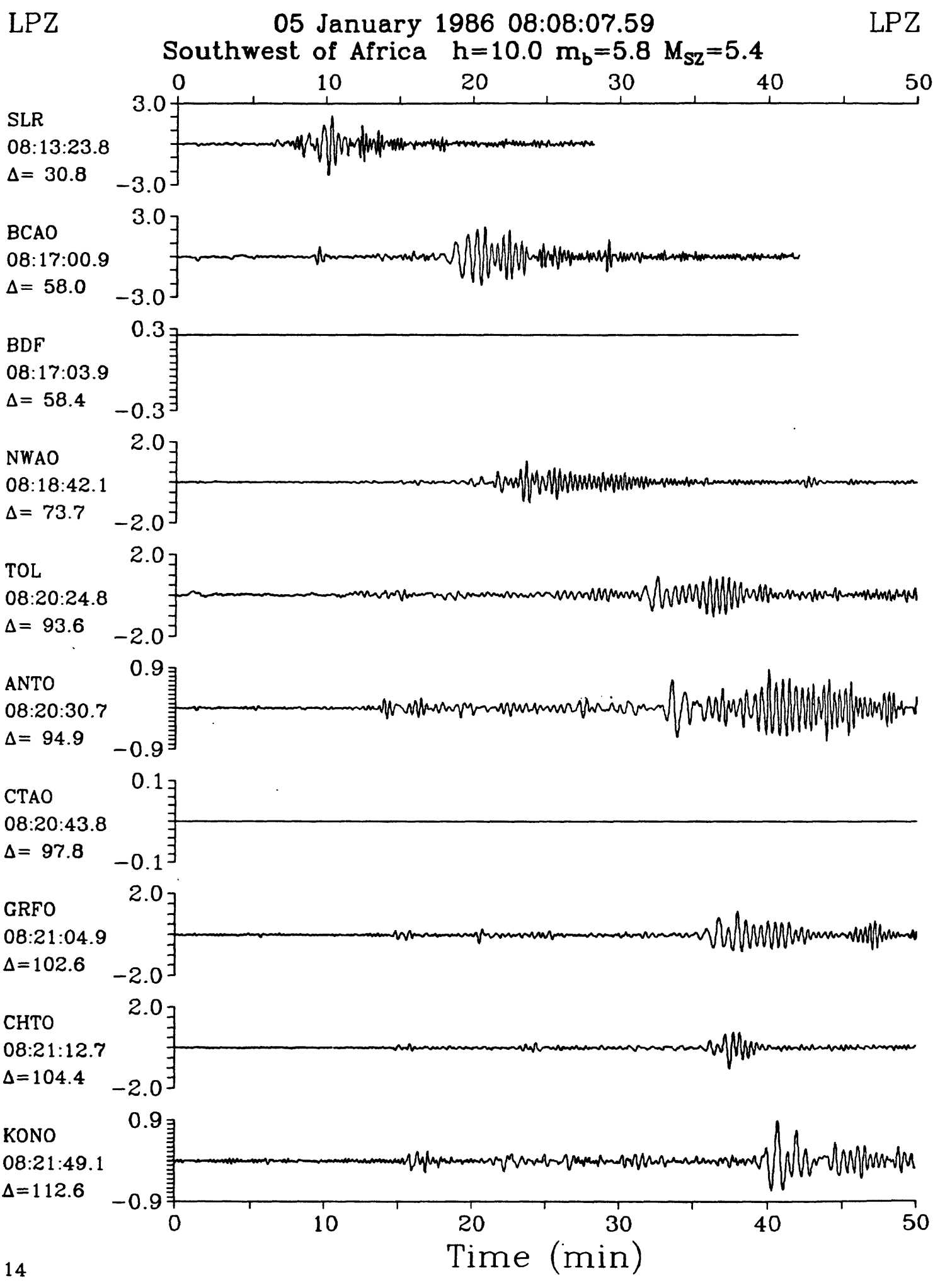

LPZ
03 January 1986 09:43:27.51
LPZ
Molucca Sea h=33.0 m_b=5.6 M_{SZ}=5.6
0
10
20
30
40
50
ANMO
10:01:15.6
Δ=120.1
3.0
-3.0
TOL
10:01:17.3
Δ=121.0
0.8
-0.8
GAC
10:01:37.0
Δ=131.3
2.0
-2.0
RSNY
10:01:39.5
Δ=132.7
0.8
-0.8
RSCP
10:01:42.4
Δ=134.3
2.0
-2.0
SCP
10:01:42.9
Δ=134.5
1.0
-1.0
ZOBO
10:02:20.4
Δ=157.4
0.5
-0.5
BDF
10:02:26.4
Δ=162.7
0.7
-0.7
0
10
20
30
40
50
Time (min)

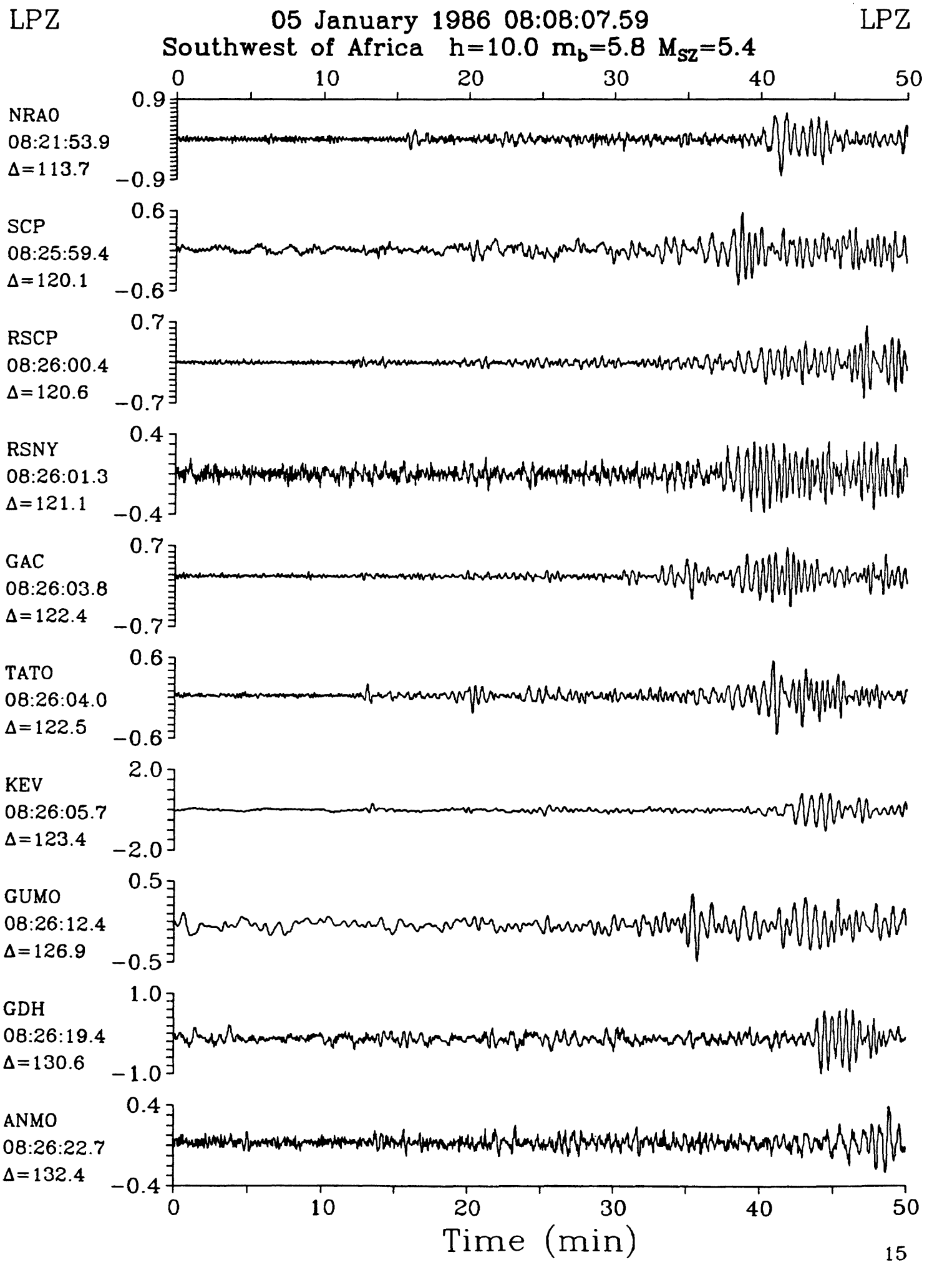
05 January 1986 08:08:07.59

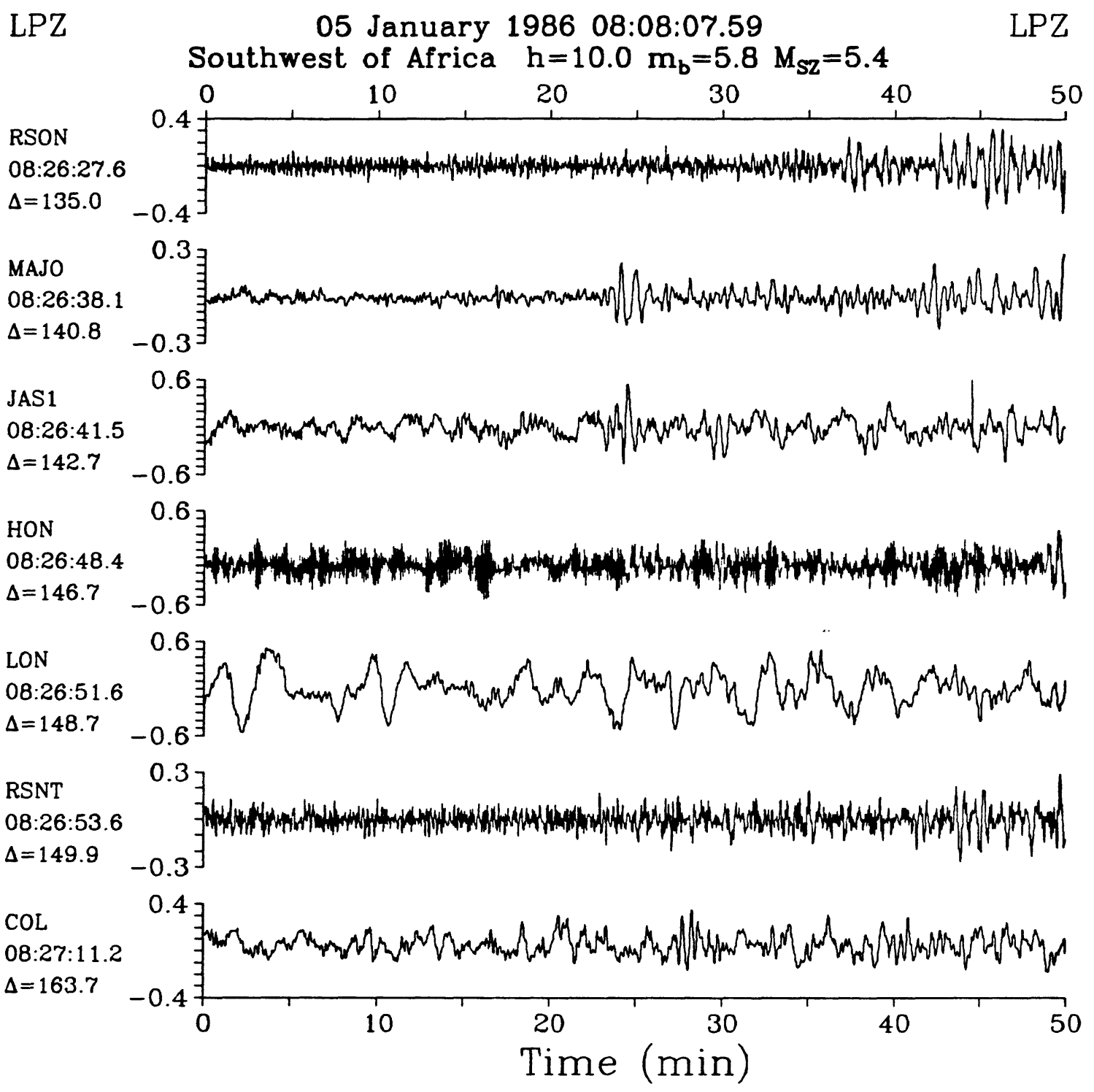
Southwest of Africa

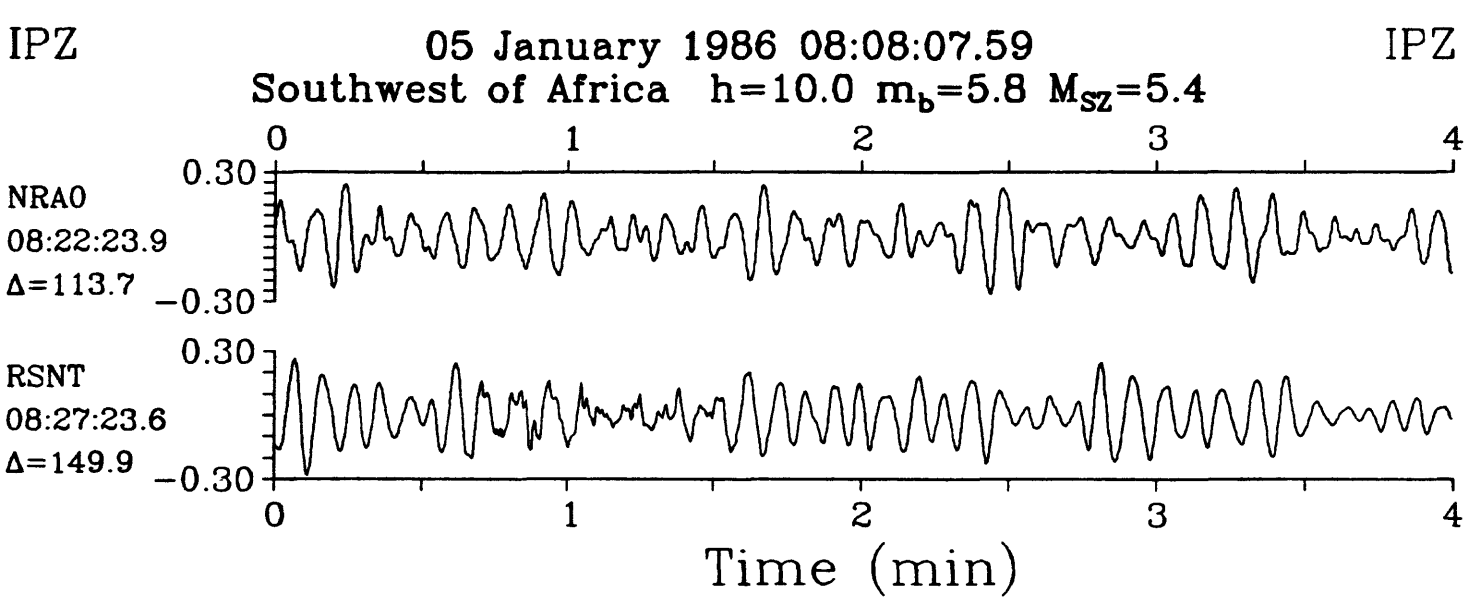



SPZ
05 January 1986 08:08:07.59
SPZ
Southwest of Africa h=10.0 m_b=5.8 M_{SZ}=5.4
0
1
2
0.10
SLR
08:14:08.8
Δ= 30.8
−0.10
0.06
BCAO
08:17:45.9
Δ= 58.0
−0.06
0.04
NWAO
08:19:27.1
Δ= 73.7
−0.04
0.01
NRAO
08:22:38.9
Δ=113.7
−0.01
0.01
ANMO
08:27:07.7
Δ=132.4
−0.01
0.05
LON
08:27:36.6
Δ=148.7
−0.05
0.06
RSNT
08:27:38.6
Δ=149.9
−0.06
0
1
2
Time (min)


LPZ
05 January 1986 08:08:07.59
LPZ
Southwest of Africa h=10.0 m_b=5.8 M_{SZ}=5.4
0
10
20
30
40
50
SLR
08:13:23.8
Δ= 30.8
3.0
-3.0
BCAO
08:17:00.9
Δ= 58.0
3.0
-3.0
BDF
08:17:03.9
Δ= 58.4
0.3
-0.3
NWAO
08:18:42.1
Δ= 73.7
2.0
-2.0
TOL
08:20:24.8
Δ= 93.6
2.0
-2.0
ANTO
08:20:30.7
Δ= 94.9
0.9
-0.9
CTAO
08:20:43.8
Δ= 97.8
0.1
-0.1
GRFO
08:21:04.9
Δ=102.6
2.0
-2.0
CHTO
08:21:12.7
Δ=104.4
2.0
-2.0
KONO
08:21:49.1
Δ=112.6
0.9
-0.9
0
10
20
30
40
50
Time (min)

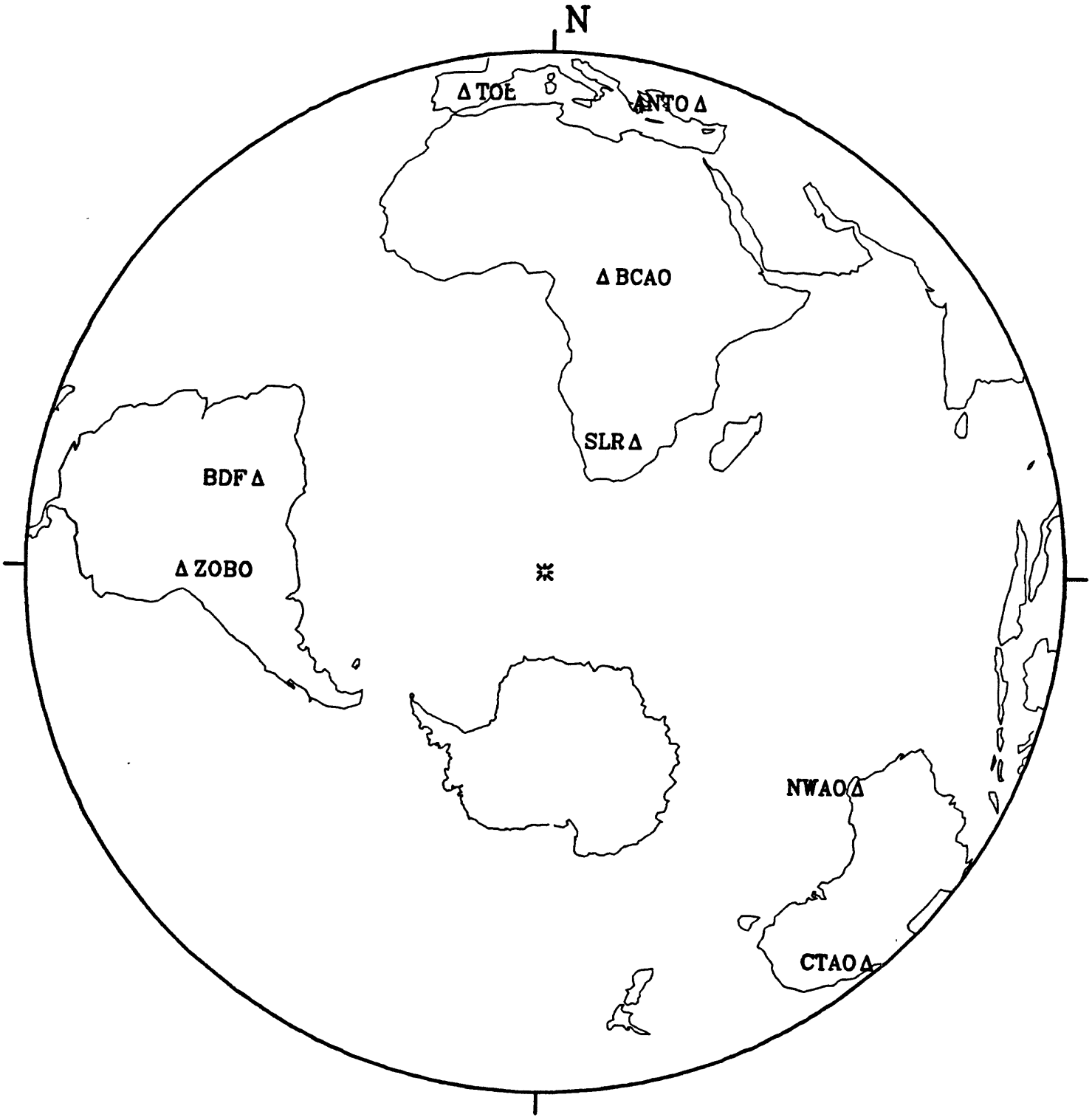

LPZ
05 January 1986 08:08:07.59
LPZ
Southwest of Africa h=10.0 m_b=5.8 M_{SZ}=5.4
0
10
20
30
40
50
NRAO
08:21:53.9
Δ=113.7
0.9
-0.9
SCP
08:25:59.4
Δ=120.1
0.6
-0.6
RSCP
08:26:00.4
Δ=120.6
0.7
-0.7
RSNY
08:26:01.3
Δ=121.1
0.4
-0.4
GAC
08:26:03.8
Δ=122.4
0.7
-0.7
TATO
08:26:04.0
Δ=122.5
0.6
-0.6
KEV
08:26:05.7
Δ=123.4
2.0
-2.0
GUMO
08:26:12.4
Δ=126.9
0.5
-0.5
GDH
08:26:19.4
Δ=130.6
1.0
-1.0
ANMO
08:26:22.7
Δ=132.4
0.4
-0.4
0
10
20
30
40
50
Time (min)

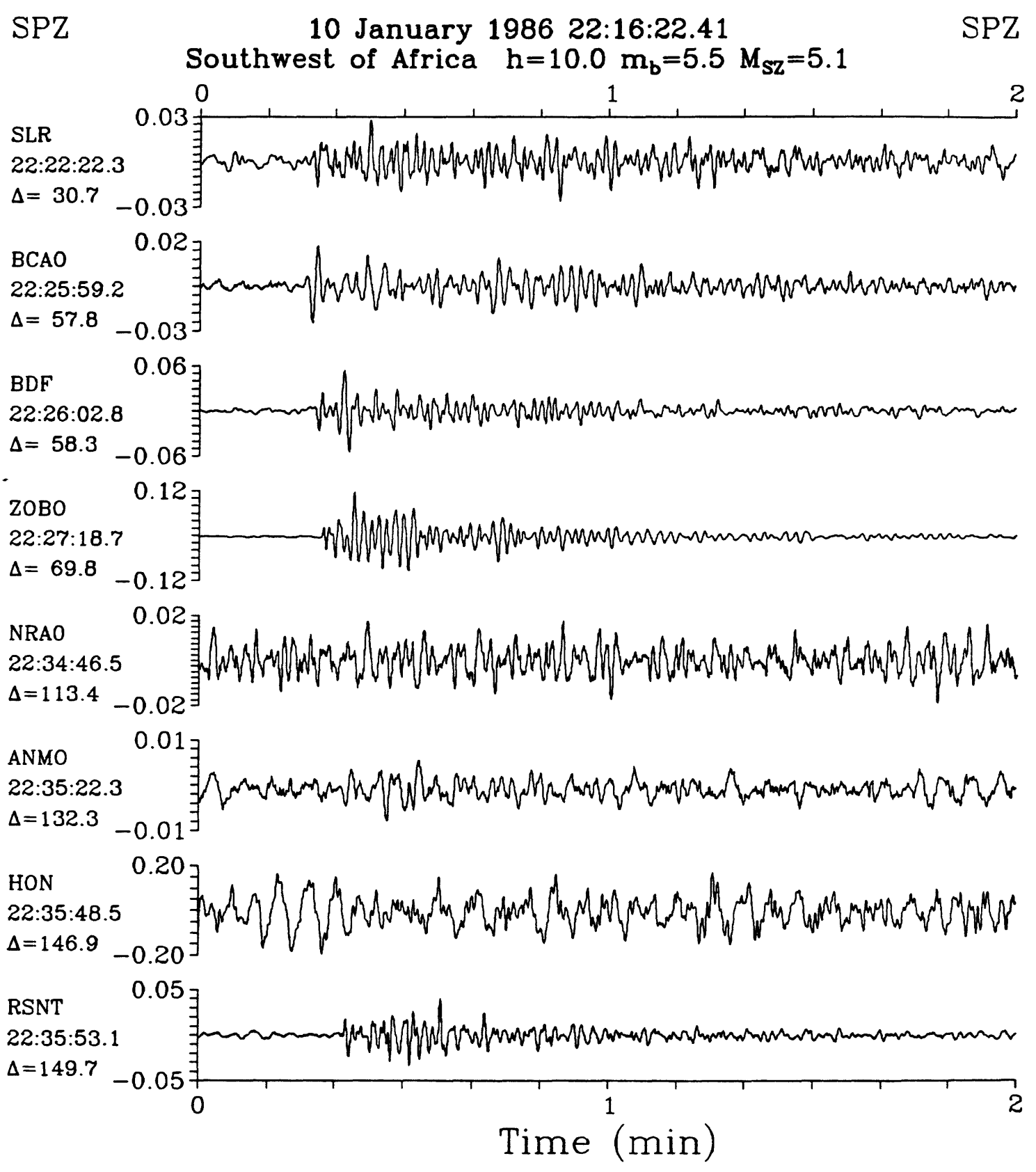

LPZ
05 January 1986 08:08:07.59
LPZ
Southwest of Africa h=10.0 m_b=5.8 M_{SZ}=5.4
0
10
20
30
40
50
RSON
08:26:27.6
Δ=135.0
0.4
−0.4
MAJO
08:26:38.1
Δ=140.8
0.3
−0.3
JAS1
08:26:41.5
Δ=142.7
0.6
−0.6
HON
08:26:48.4
Δ=146.7
0.6
−0.6
LON
08:26:51.6
Δ=148.7
0.6
−0.6
RSNT
08:26:53.6
Δ=149.9
0.3
−0.3
COL
08:27:11.2
Δ=163.7
0.4
−0.4
0
10
20
30
40
50
Time (min)

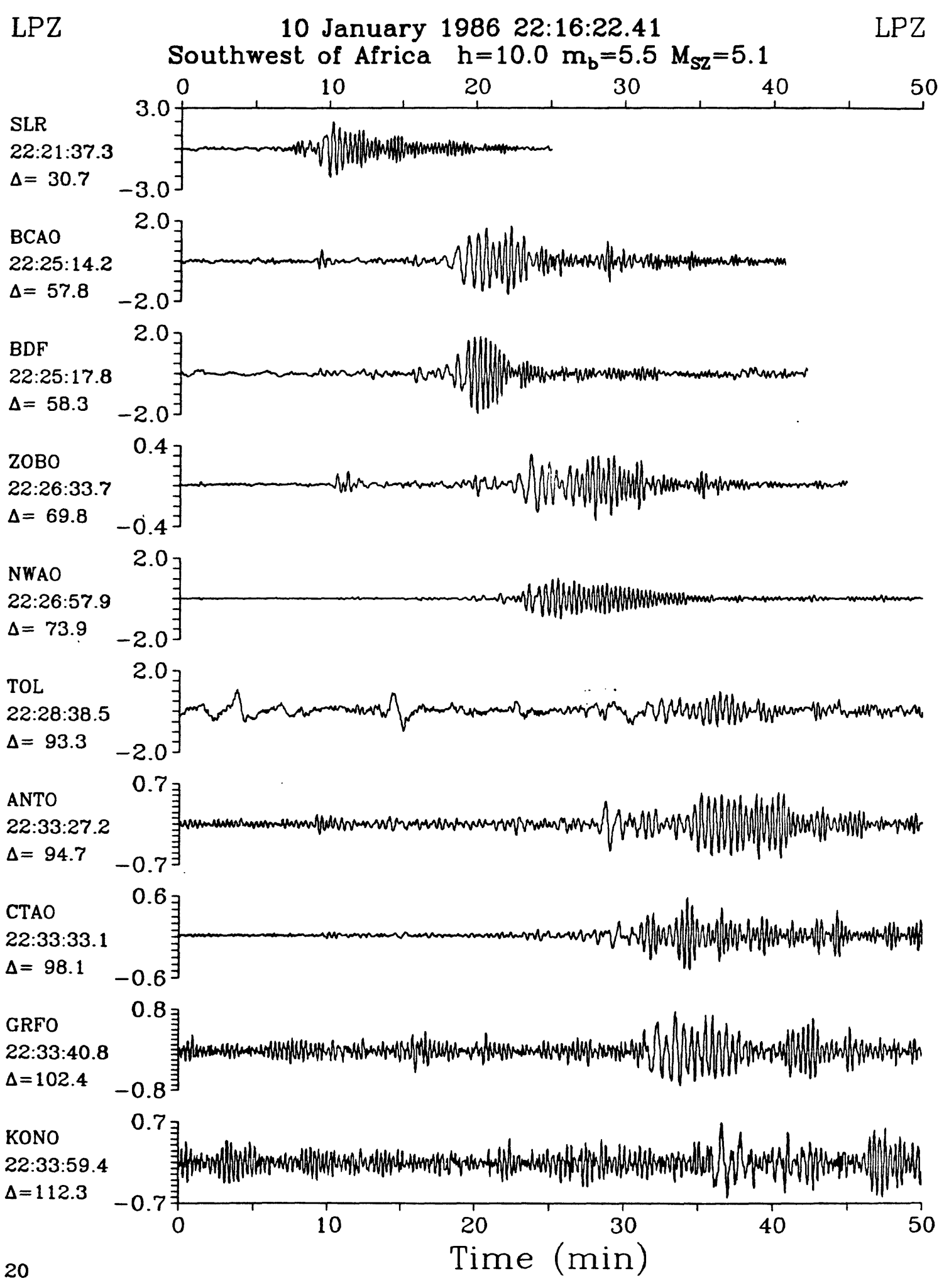

IPZ
05 January 1986 08:08:07.59
IPZ
Southwest of Africa h=10.0 m_b=5.8 M_{SZ}=5.4
NRAO
08:22:23.9
Δ=113.7
RSNT
08:27:23.6
Δ=149.9
0.30
−0.30
0
1
2
3
4
Time (min)

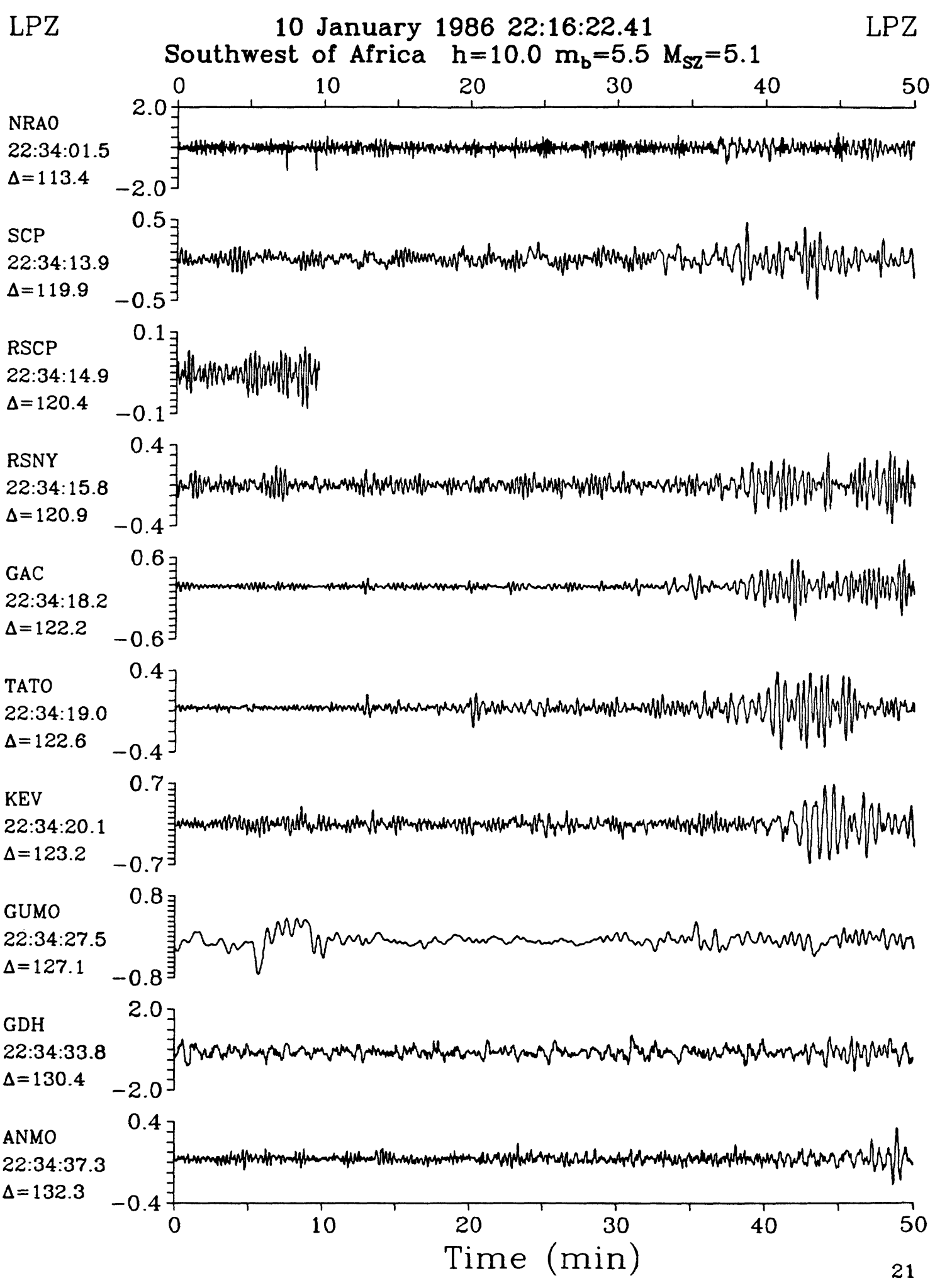
10 January 1986 22:16:22.41

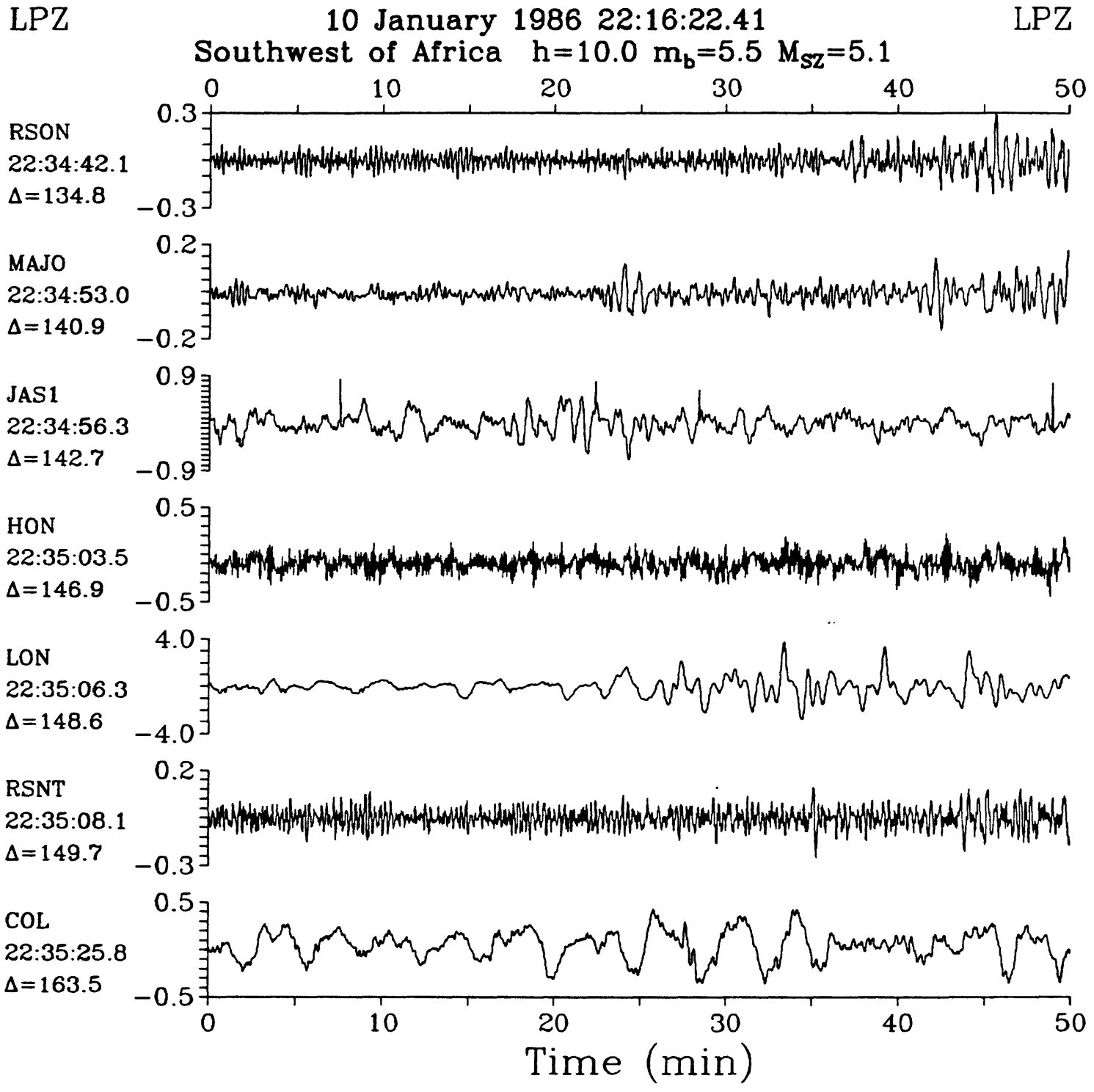
Southwest of Africa




SPZ
10 January 1986 22:16:22.41
Southwest of Africa h=10.0 m_b=5.5 M_{SZ}=5.1
SPZ
0
1
2
SLR
22:22:22.3
Δ= 30.7
0.03
−0.03
BCAO
22:25:59.2
Δ= 57.8
0.02
−0.03
BDF
22:26:02.8
Δ= 58.3
0.06
−0.06
ZOBO
22:27:18.7
Δ= 69.8
0.12
−0.12
NRAO
22:34:46.5
Δ=113.4
0.02
−0.02
ANMO
22:35:22.3
Δ=132.3
0.01
−0.01
HON
22:35:48.5
Δ=146.9
0.20
−0.20
RSNT
22:35:53.1
Δ=149.7
0.05
−0.05
0
1
2
Time (min)

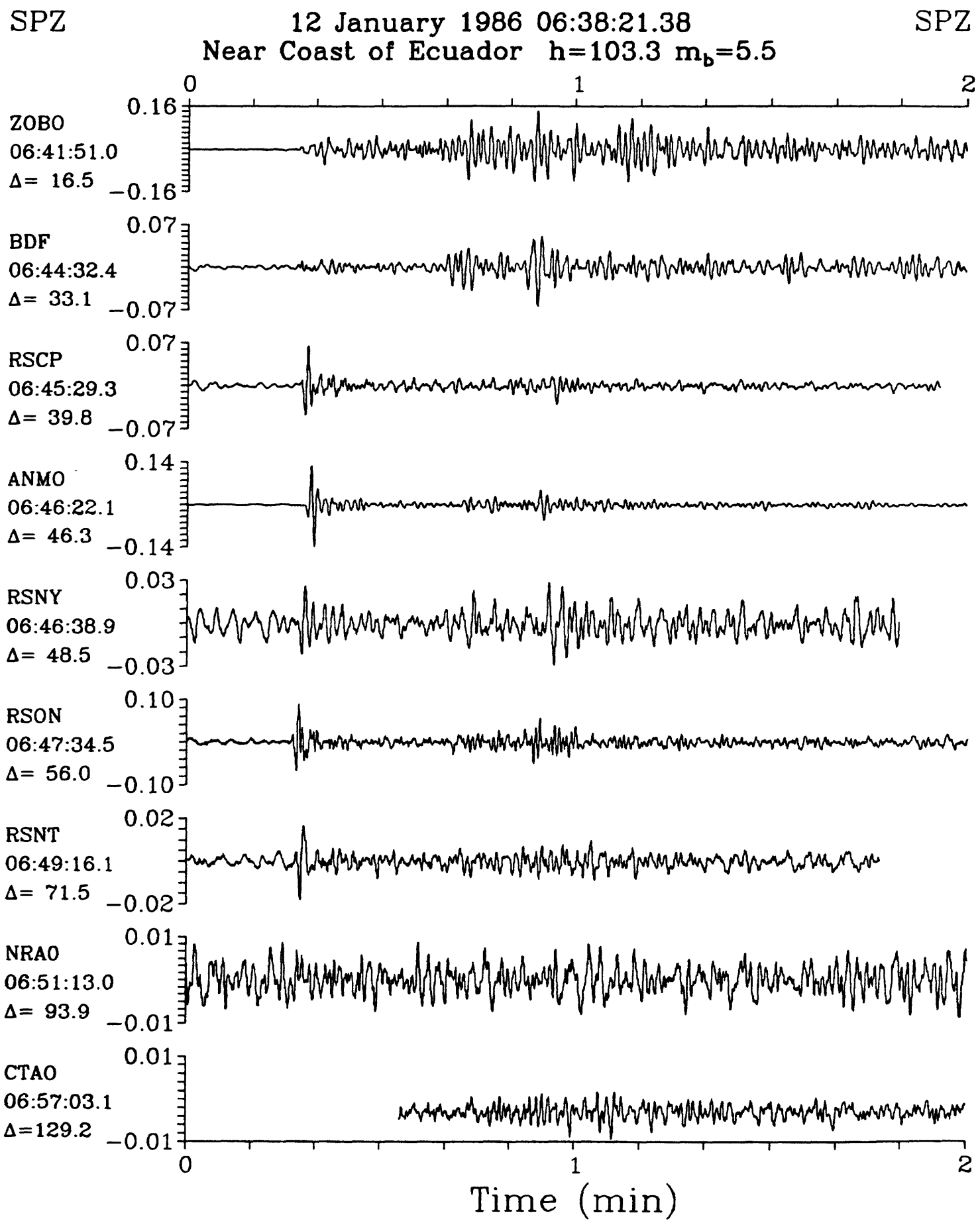

LPZ
10 January 1986 22:16:22.41
LPZ
Southwest of Africa h=10.0 m_b=5.5 M_{SZ}=5.1
0
10
20
30
40
50
SLR
22:21:37.3
Δ= 30.7
3.0
-3.0
BCAO
22:25:14.2
Δ= 57.8
2.0
-2.0
BDF
22:25:17.8
Δ= 58.3
2.0
-2.0
ZOBO
22:26:33.7
Δ= 69.8
0.4
-0.4
NWAO
22:26:57.9
Δ= 73.9
2.0
-2.0
TOL
22:28:38.5
Δ= 93.3
2.0
-2.0
ANTO
22:33:27.2
Δ= 94.7
0.7
-0.7
CTAO
22:33:33.1
Δ= 98.1
0.6
-0.6
GRFO
22:33:40.8
Δ=102.4
0.8
-0.8
KONO
22:33:59.4
Δ=112.3
0.7
-0.7
0
10
20
30
40
50
Time (min)

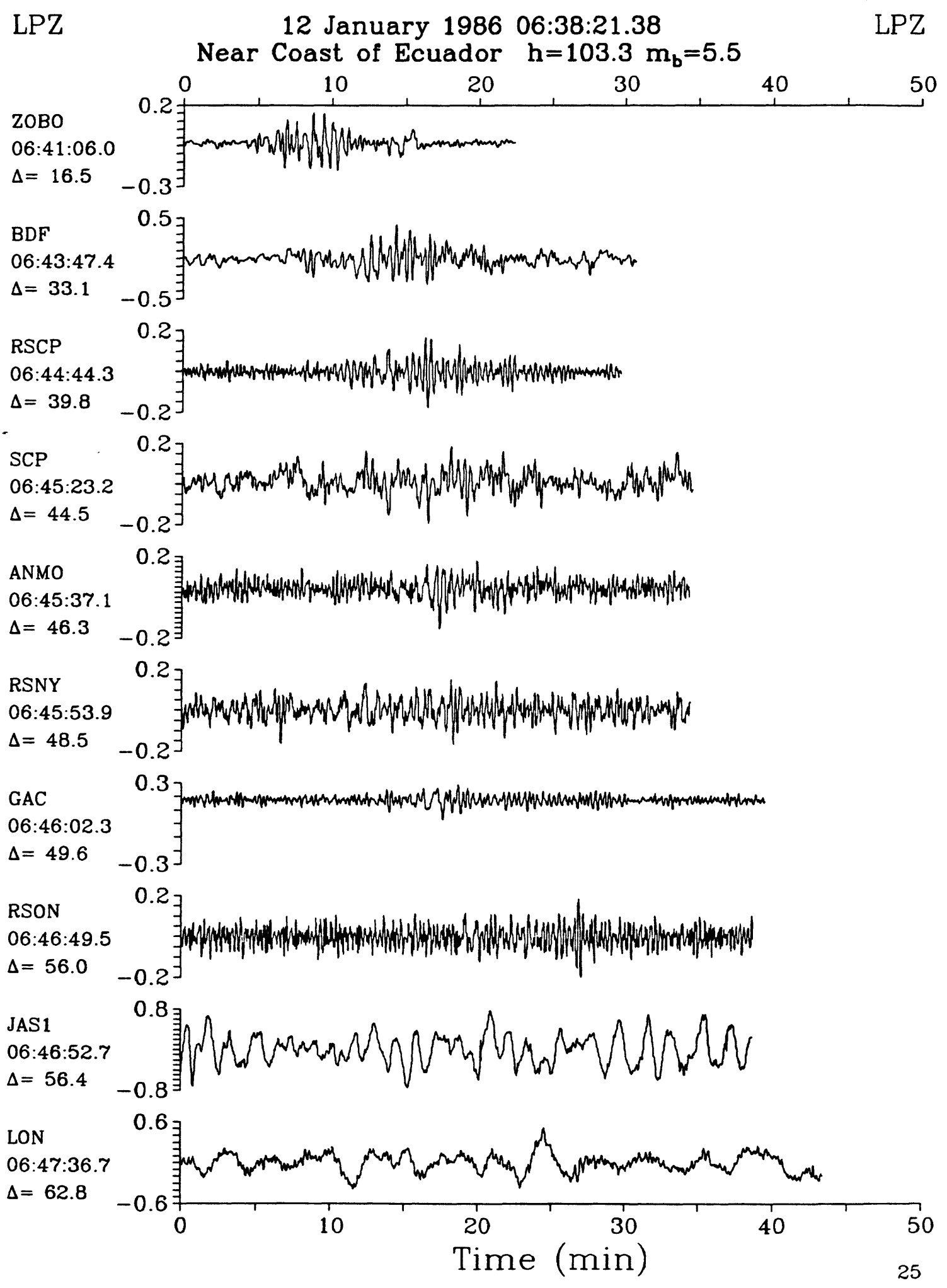

LPZ
10 January 1986 22:16:22.41
Southwest of Africa h=10.0 m_b=5.5 M_{SZ}=5.1
LPZ
0
10
20
30
40
50
NRAO
22:34:01.5
Δ=113.4
2.0
-2.0
SCP
22:34:13.9
Δ=119.9
0.5
-0.5
RSCP
22:34:14.9
Δ=120.4
0.1
-0.1
RSNY
22:34:15.8
Δ=120.9
0.4
-0.4
GAC
22:34:18.2
Δ=122.2
0.6
-0.6
TATO
22:34:19.0
Δ=122.6
0.4
-0.4
KEV
22:34:20.1
Δ=123.2
0.7
-0.7
GUMO
22:34:27.5
Δ=127.1
0.8
-0.8
GDH
22:34:33.8
Δ=130.4
2.0
-2.0
ANMO
22:34:37.3
Δ=132.3
0.4
-0.4
0
10
20
30
40
50
Time (min)

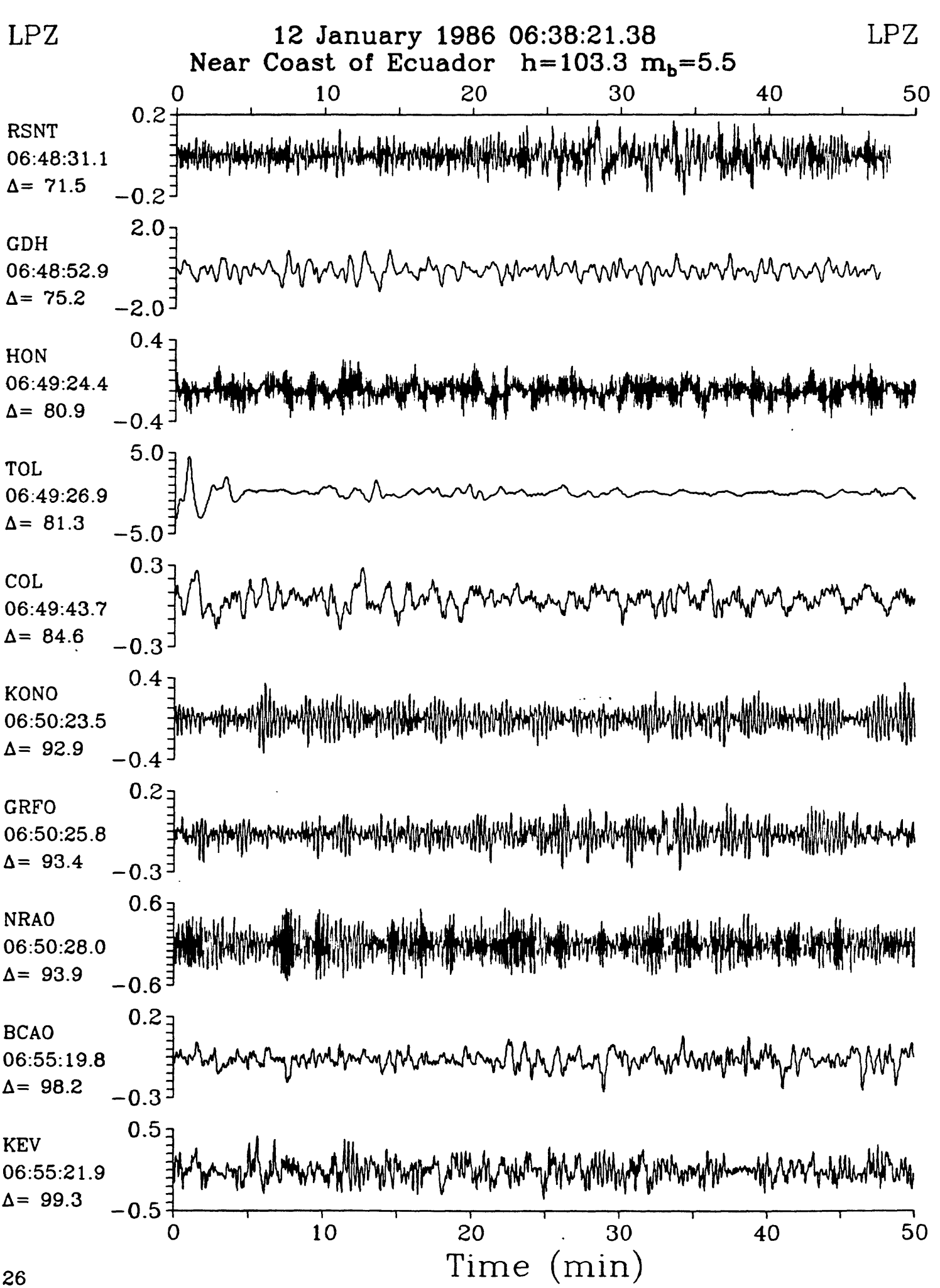

LPZ
10 January 1986 22:16:22.41
LPZ
Southwest of Africa h=10.0 m_b=5.5 M_{SZ}=5.1
RSON
22:34:42.1
Δ=134.8
MAJO
22:34:53.0
Δ=140.9
JAS1
22:34:56.3
Δ=142.7
HON
22:35:03.5
Δ=146.9
LON
22:35:06.3
Δ=148.6
RSNT
22:35:08.1
Δ=149.7
COL
22:35:25.8
Δ=163.5
0.3
−0.3
0.2
−0.2
0.9
−0.9
0.5
−0.5
4.0
−4.0
0.2
−0.3
0.5
−0.5
0
10
20
30
40
50
Time (min)

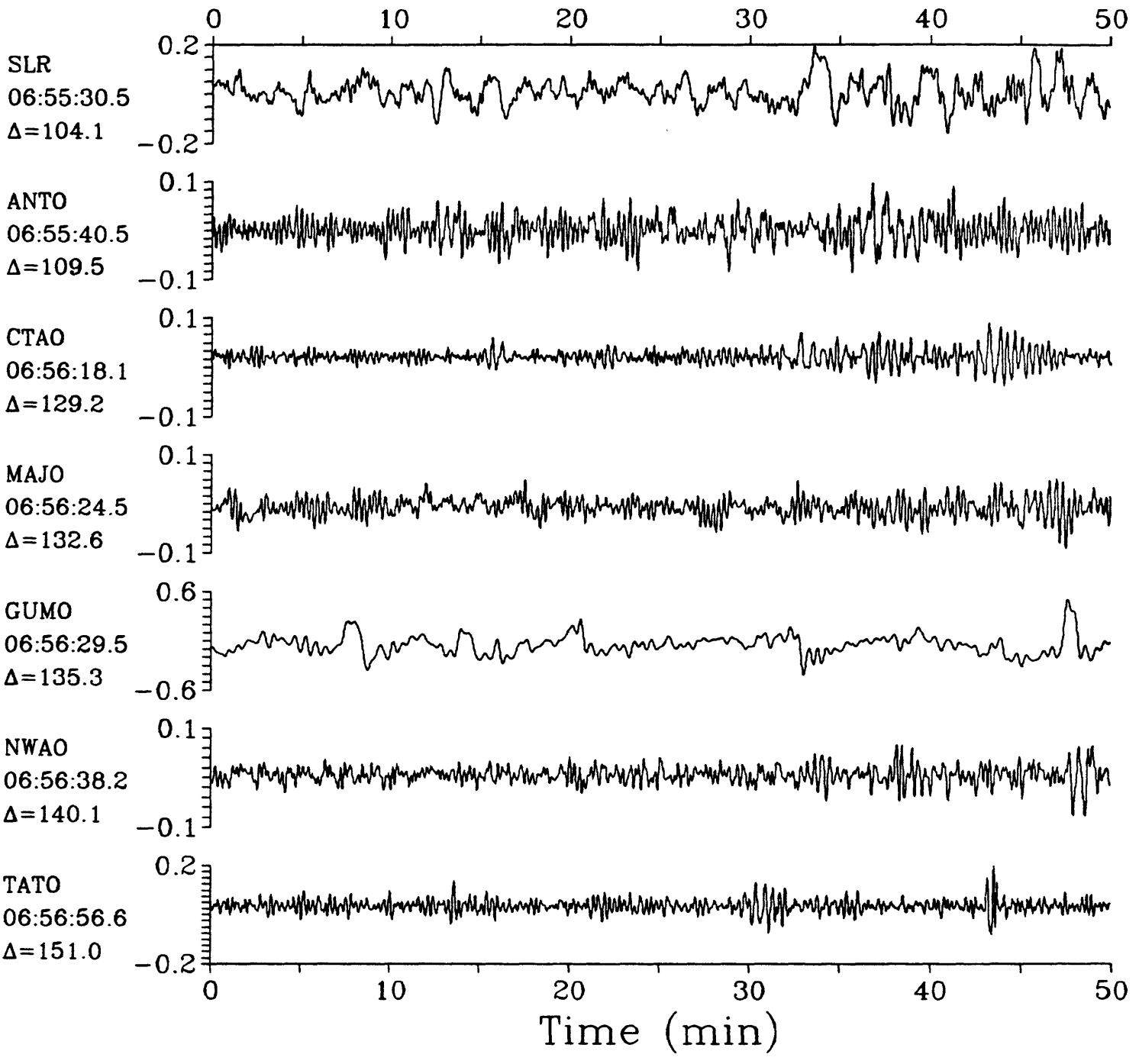
12 January 1986 06:38:21.38

Near Coast of Ecuador


SPZ
12 January 1986 06:38:21.38
Near Coast of Ecuador h=103.3 m_b=5.5
SPZ
0
1
2
0.16
ZOBO
06:41:51.0
Δ= 16.5
−0.16
0.07
BDF
06:44:32.4
Δ= 33.1
−0.07
0.07
RSCP
06:45:29.3
Δ= 39.8
−0.07
0.14
ANMO
06:46:22.1
Δ= 46.3
−0.14
0.03
RSNY
06:46:38.9
Δ= 48.5
−0.03
0.10
RSON
06:47:34.5
Δ= 56.0
−0.10
0.02
RSNT
06:49:16.1
Δ= 71.5
−0.02
0.01
NRAO
06:51:13.0
Δ= 93.9
−0.01
0.01
CTAO
06:57:03.1
Δ=129.2
−0.01
0
1
2
Time (min)

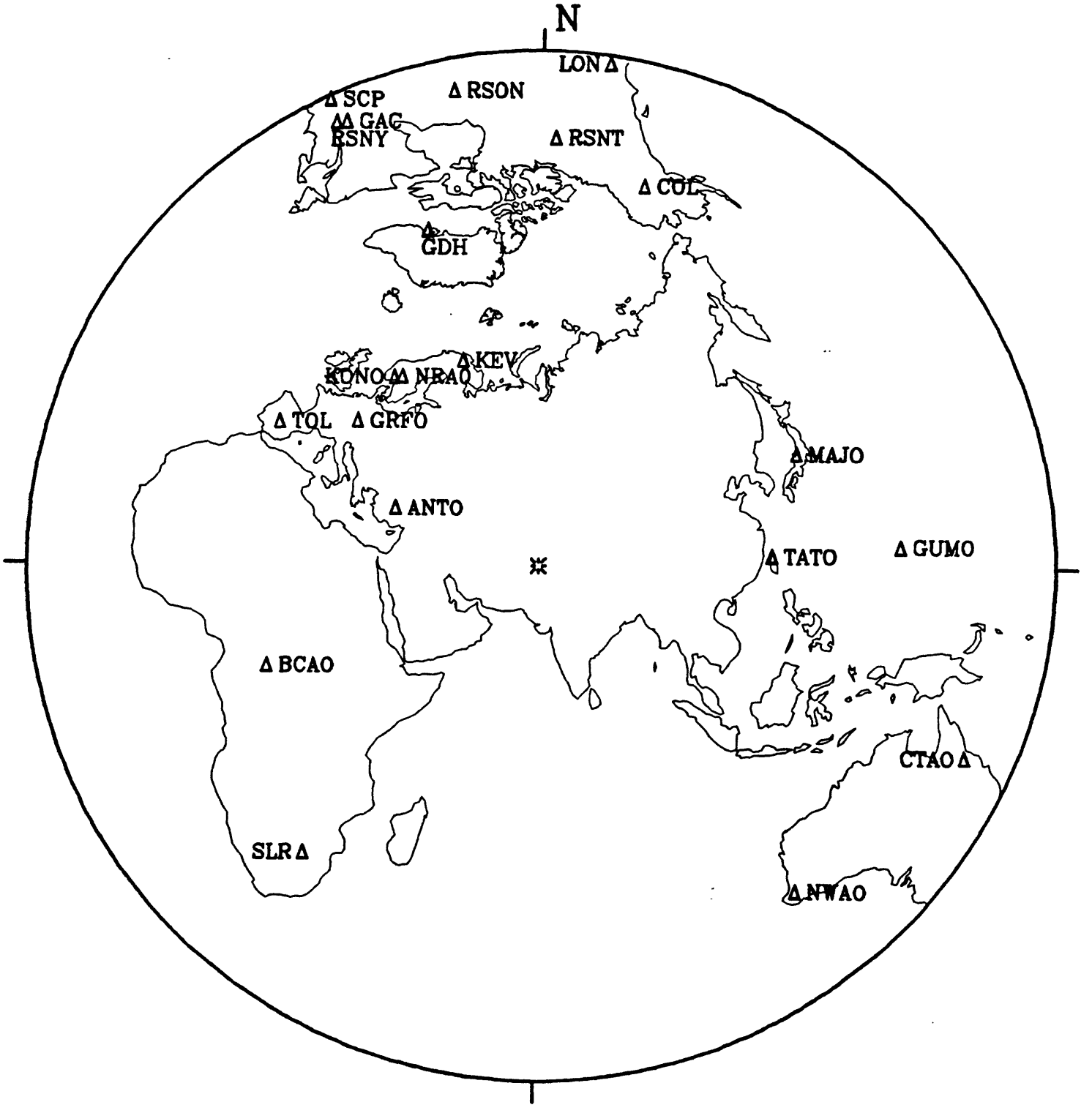

LPZ
12 January 1986 06:38:21.38
Near Coast of Ecuador h=103.3 m_b=5.5
LPZ
0
10
20
30
40
50
ZOBO
06:41:06.0
Δ= 16.5
0.2
−0.3
BDF
06:43:47.4
Δ= 33.1
0.5
−0.5
RSCP
06:44:44.3
Δ= 39.8
0.2
−0.2
SCP
06:45:23.2
Δ= 44.5
0.2
−0.2
ANMO
06:45:37.1
Δ= 46.3
0.2
−0.2
RSNY
06:45:53.9
Δ= 48.5
0.2
−0.2
GAC
06:46:02.3
Δ= 49.6
0.3
−0.3
RSON
06:46:49.5
Δ= 56.0
0.2
−0.2
JAS1
06:46:52.7
Δ= 56.4
0.8
−0.8
LON
06:47:36.7
Δ= 62.8
0.6
−0.6
0
10
20
30
40
50
Time (min)


LPZ
12 January 1986 06:38:21.38
Near Coast of Ecuador h=103.3 m_b=5.5
LPZ
0
10
20
30
40
50
RSNT
06:48:31.1
Δ= 71.5
0.2
-0.2
GDH
06:48:52.9
Δ= 75.2
2.0
-2.0
HON
06:49:24.4
Δ= 80.9
0.4
-0.4
TOL
06:49:26.9
Δ= 81.3
5.0
-5.0
COL
06:49:43.7
Δ= 84.6
0.3
-0.3
KONO
06:50:23.5
Δ= 92.9
0.4
-0.4
GRFO
06:50:25.8
Δ= 93.4
0.2
-0.3
NRAO
06:50:28.0
Δ= 93.9
0.6
-0.6
BCAO
06:55:19.8
Δ= 98.2
0.2
-0.3
KEV
06:55:21.9
Δ= 99.3
0.5
-0.5
0
10
20
30
40
50
Time (min)


LPZ
12 January 1986 06:38:21.38
Near Coast of Ecuador h=103.3 m_b=5.5
LPZ
0
10
20
30
40
50
SLR
06:55:30.5
Δ=104.1
0.2
−0.2
ANTO
06:55:40.5
Δ=109.5
0.1
−0.1
CTAO
06:56:18.1
Δ=129.2
0.1
−0.1
MAJO
06:56:24.5
Δ=132.6
0.1
−0.1
GUMO
06:56:29.5
Δ=135.3
0.6
−0.6
NWAO
06:56:38.2
Δ=140.1
0.1
−0.1
TATO
06:56:56.6
Δ=151.0
0.2
−0.2
0
10
20
30
40
50
Time (min)

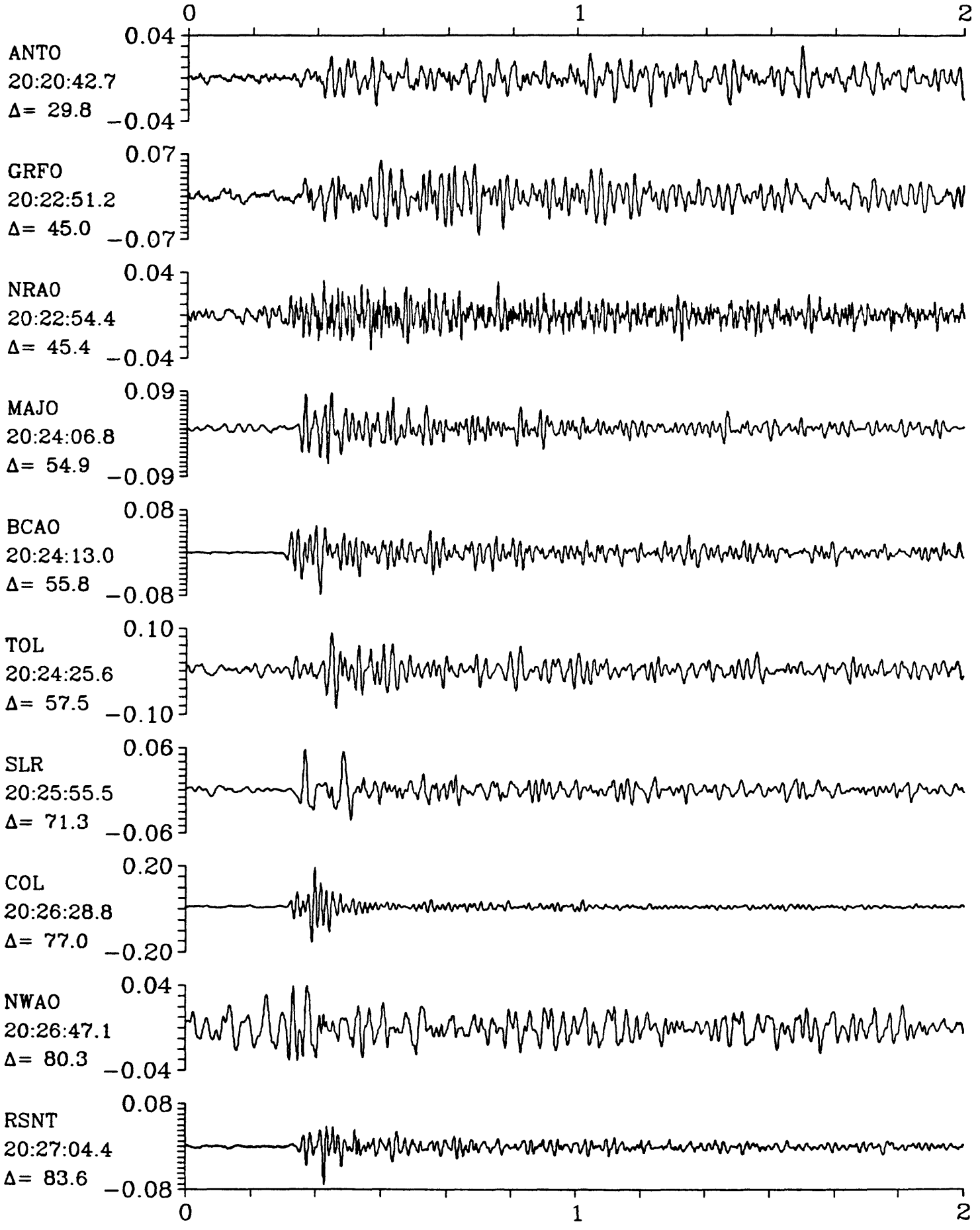
12 January 1986 20:14:53.72

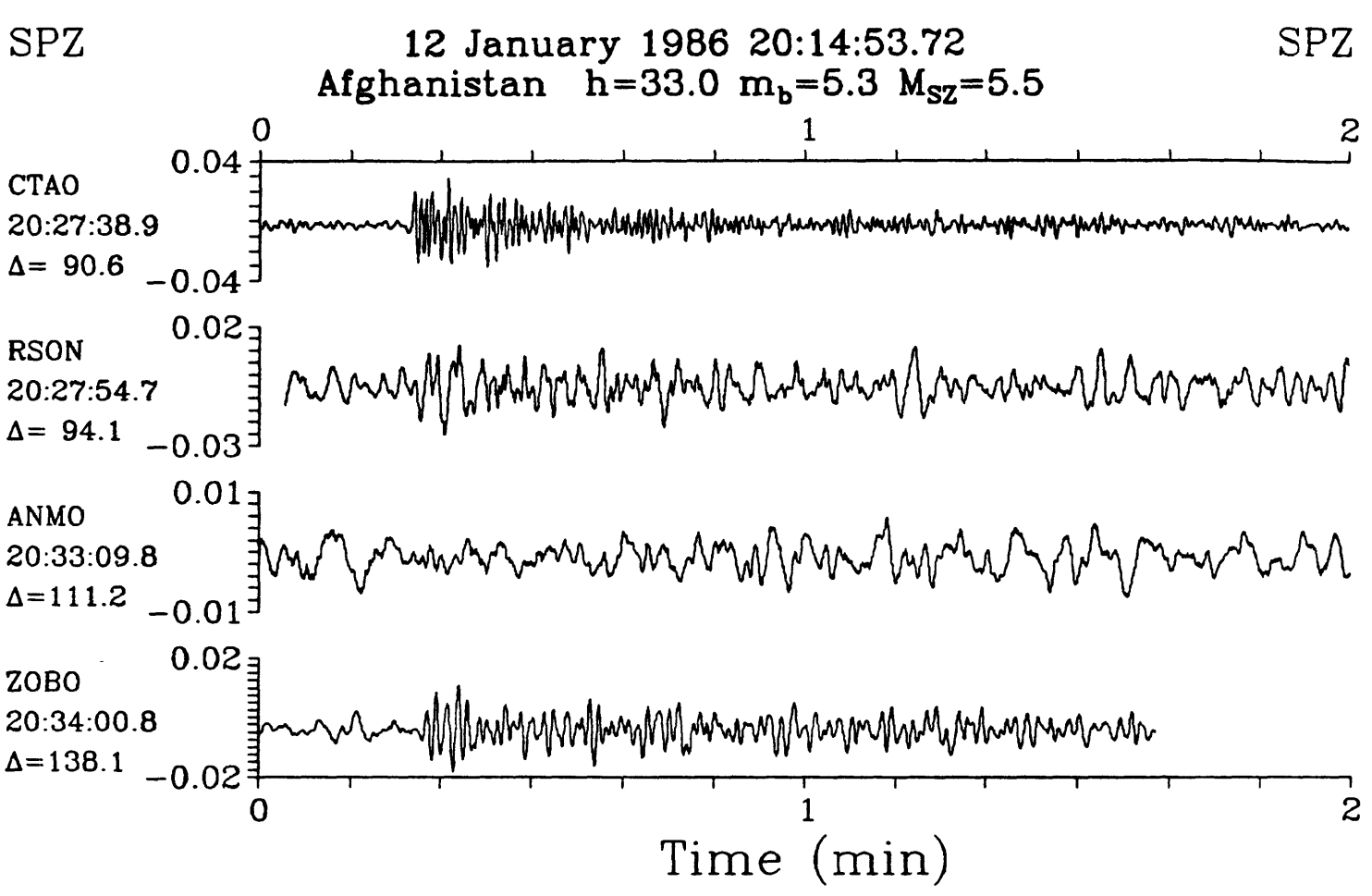
Afghanistan



12 January 1986 20:14:53.72
Afghanistan h=33.0 m_b=5.3 M_{SZ}=5.5

SPZ

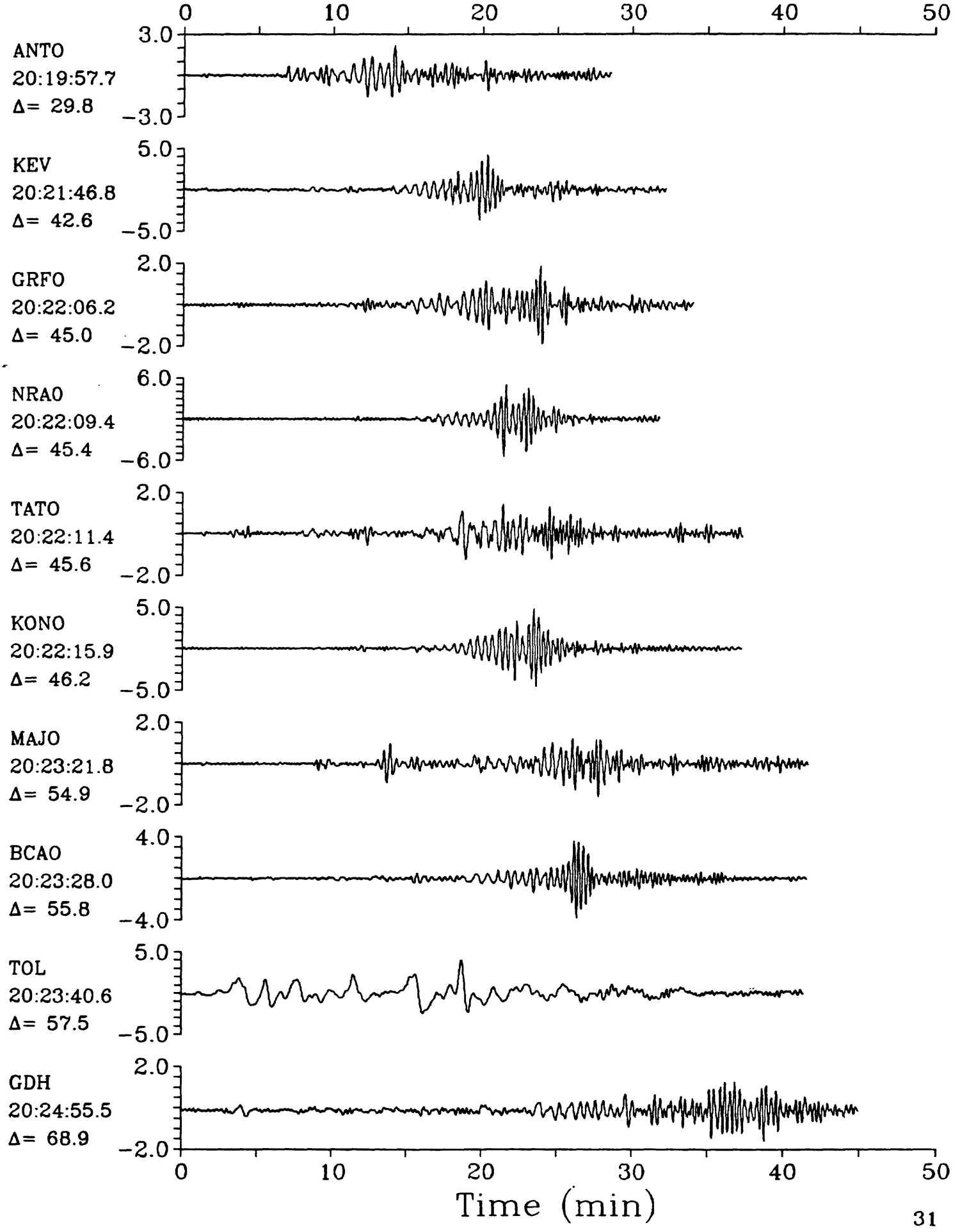


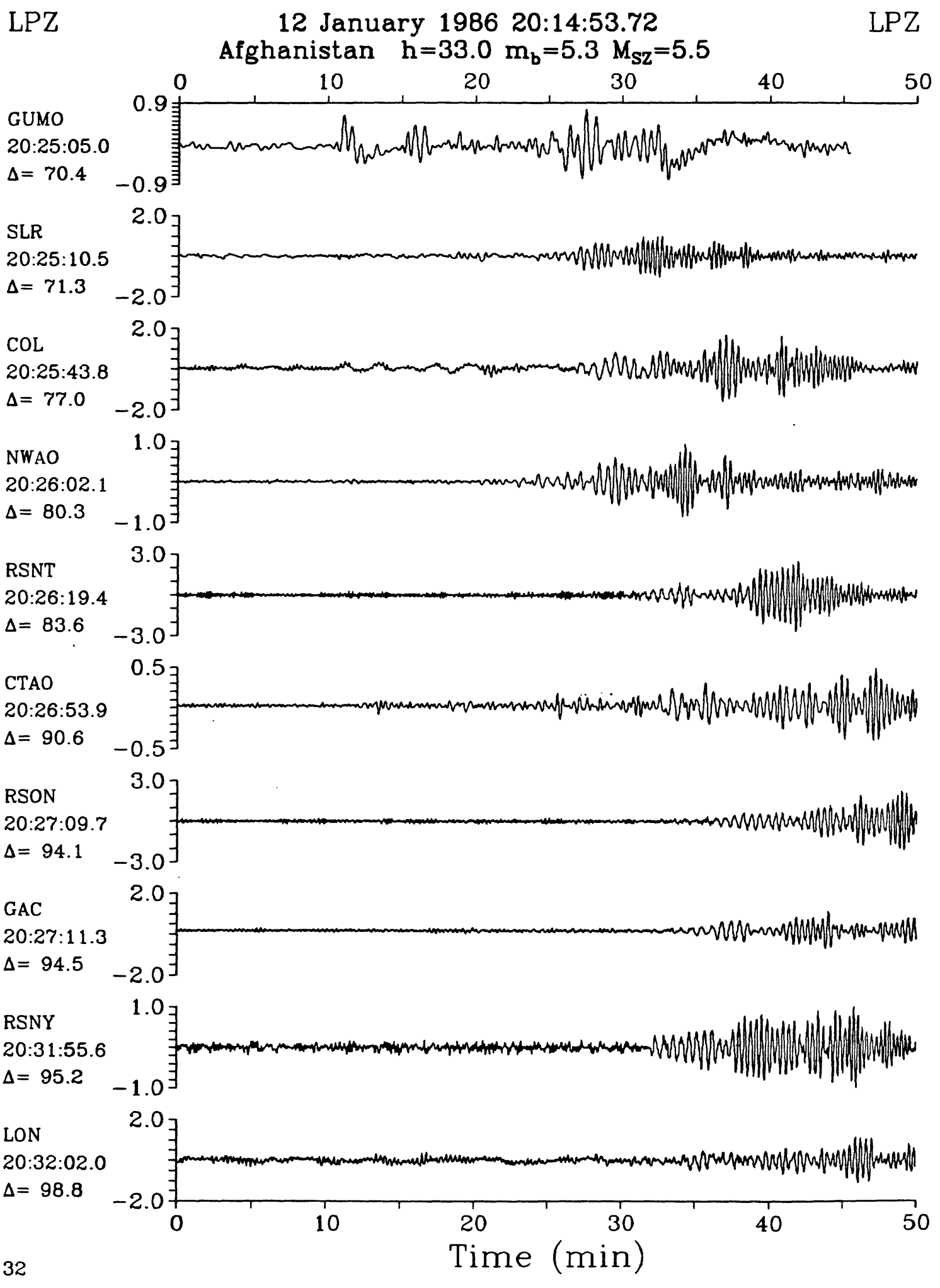

SPZ
12 January 1986 20:14:53.72
Afghanistan h=33.0 m_b=5.3 M_{SZ}=5.5
SPZ
0
1
2
0.04
CTAO
20:27:38.9
Δ= 90.6
−0.04
0.02
RSON
20:27:54.7
Δ= 94.1
−0.03
0.01
ANMO
20:33:09.8
Δ=111.2
−0.01
0.02
ZOBO
20:34:00.8
Δ=138.1
−0.02
0
1
2
Time (min)

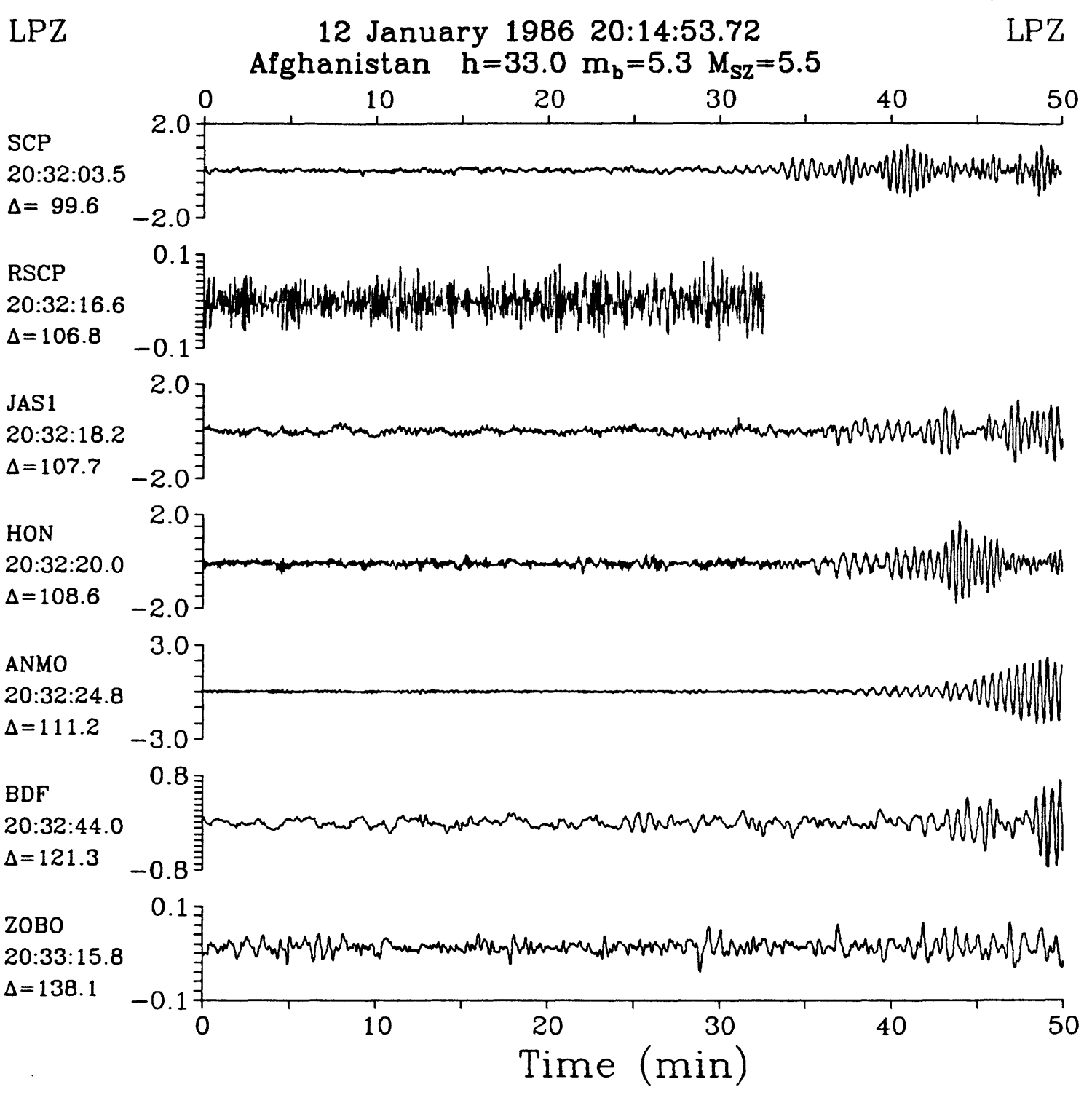
12 January 1986 20:14:53.72

Afghanistan h=33.0 m_b=5.3 M_{SZ}=5.5

LPZ

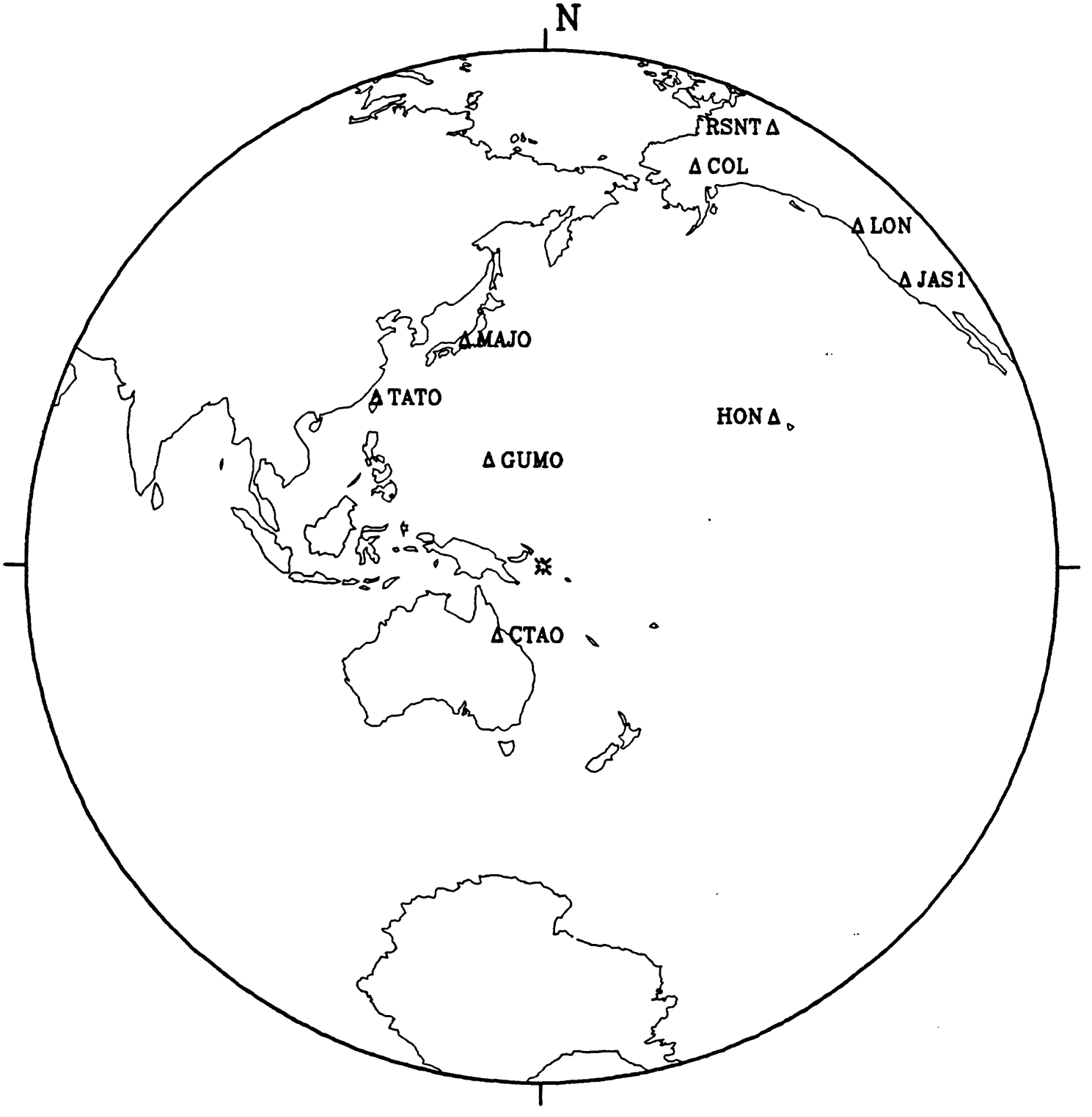


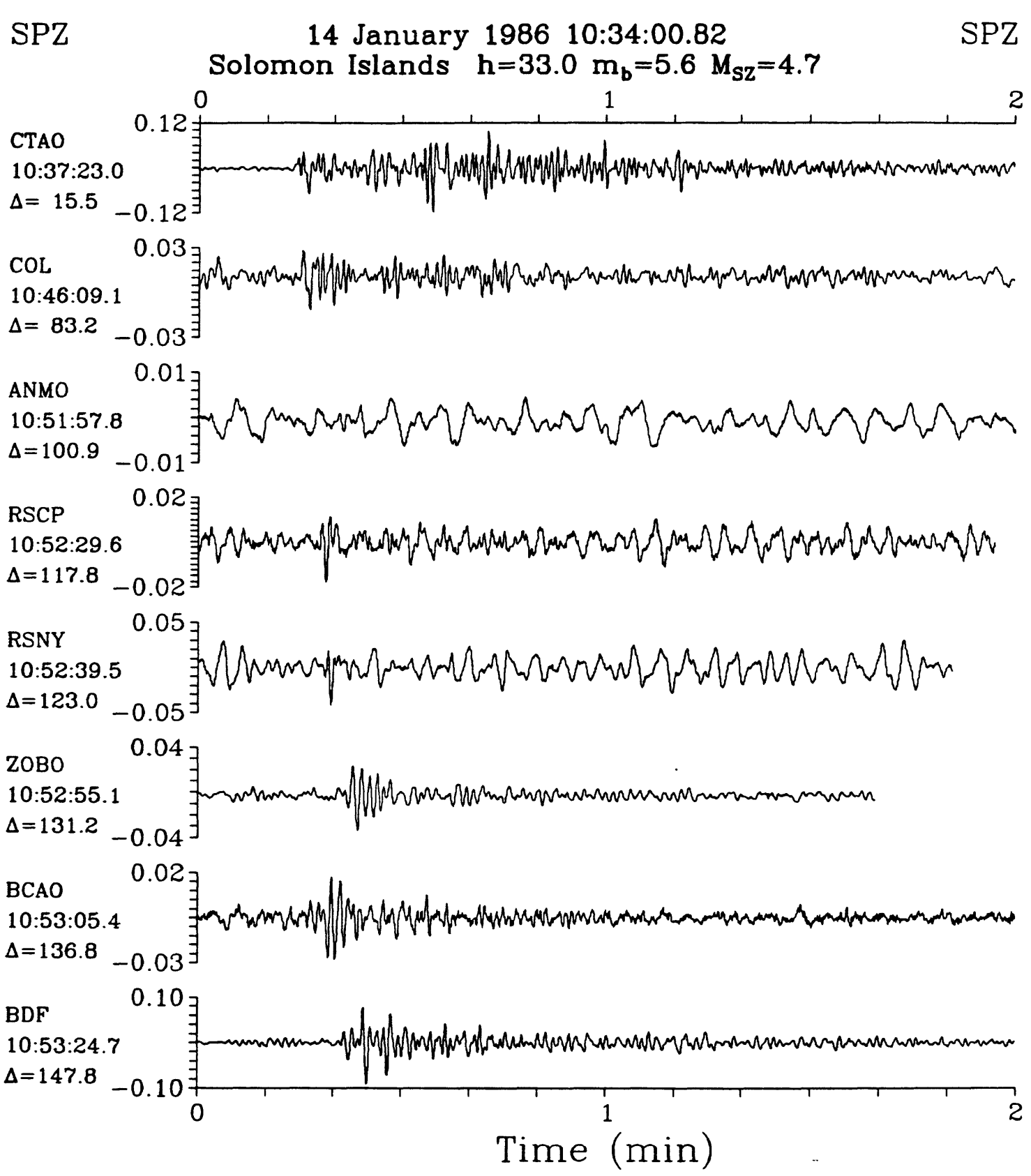

LPZ
12 January 1986 20:14:53.72
Afghanistan h=33.0 m_b=5.3 M_{SZ}=5.5
LPZ
0
10
20
30
40
50
GUMO
20:25:05.0
Δ= 70.4
0.9
-0.9
SLR
20:25:10.5
Δ= 71.3
2.0
-2.0
COL
20:25:43.8
Δ= 77.0
2.0
-2.0
NWAO
20:26:02.1
Δ= 80.3
1.0
-1.0
RSNT
20:26:19.4
Δ= 83.6
3.0
-3.0
CTAO
20:26:53.9
Δ= 90.6
0.5
-0.5
RSON
20:27:09.7
Δ= 94.1
3.0
-3.0
GAC
20:27:11.3
Δ= 94.5
2.0
-2.0
RSNY
20:31:55.6
Δ= 95.2
1.0
-1.0
LON
20:32:02.0
Δ= 98.8
2.0
-2.0
0
10
20
30
40
50
Time (min)

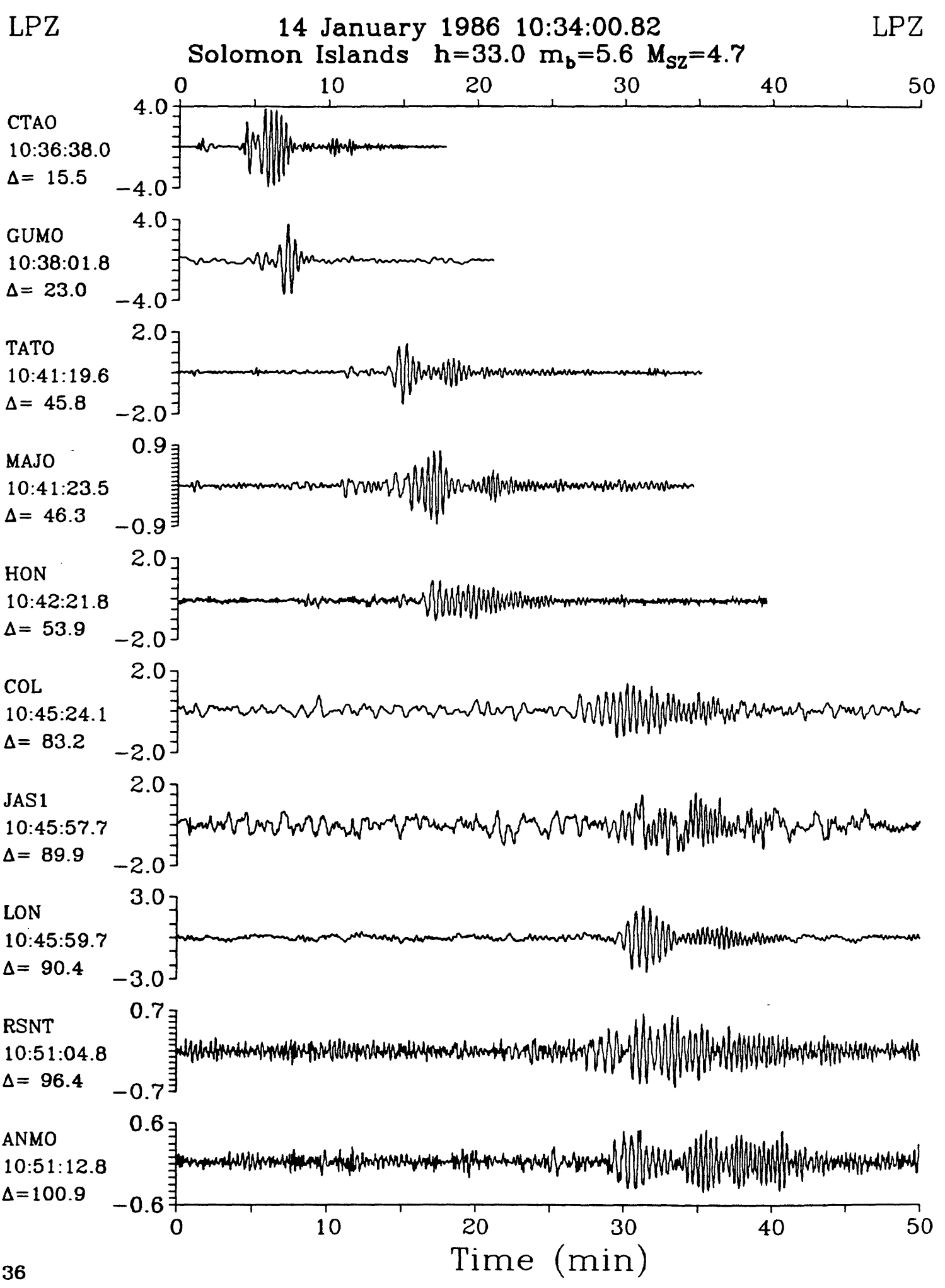

LPZ
12 January 1986 20:14:53.72
Afghanistan h=33.0 m_b=5.3 M_{SZ}=5.5
LPZ
0
10
20
30
40
50
SCP
20:32:03.5
Δ= 99.6
2.0
−2.0
RSCP
20:32:16.6
Δ=106.8
0.1
−0.1
JAS1
20:32:18.2
Δ=107.7
2.0
−2.0
HON
20:32:20.0
Δ=108.6
2.0
−2.0
ANMO
20:32:24.8
Δ=111.2
3.0
−3.0
BDF
20:32:44.0
Δ=121.3
0.8
−0.8
ZOBO
20:33:15.8
Δ=138.1
0.1
−0.1
0
10
20
30
40
50
Time (min)

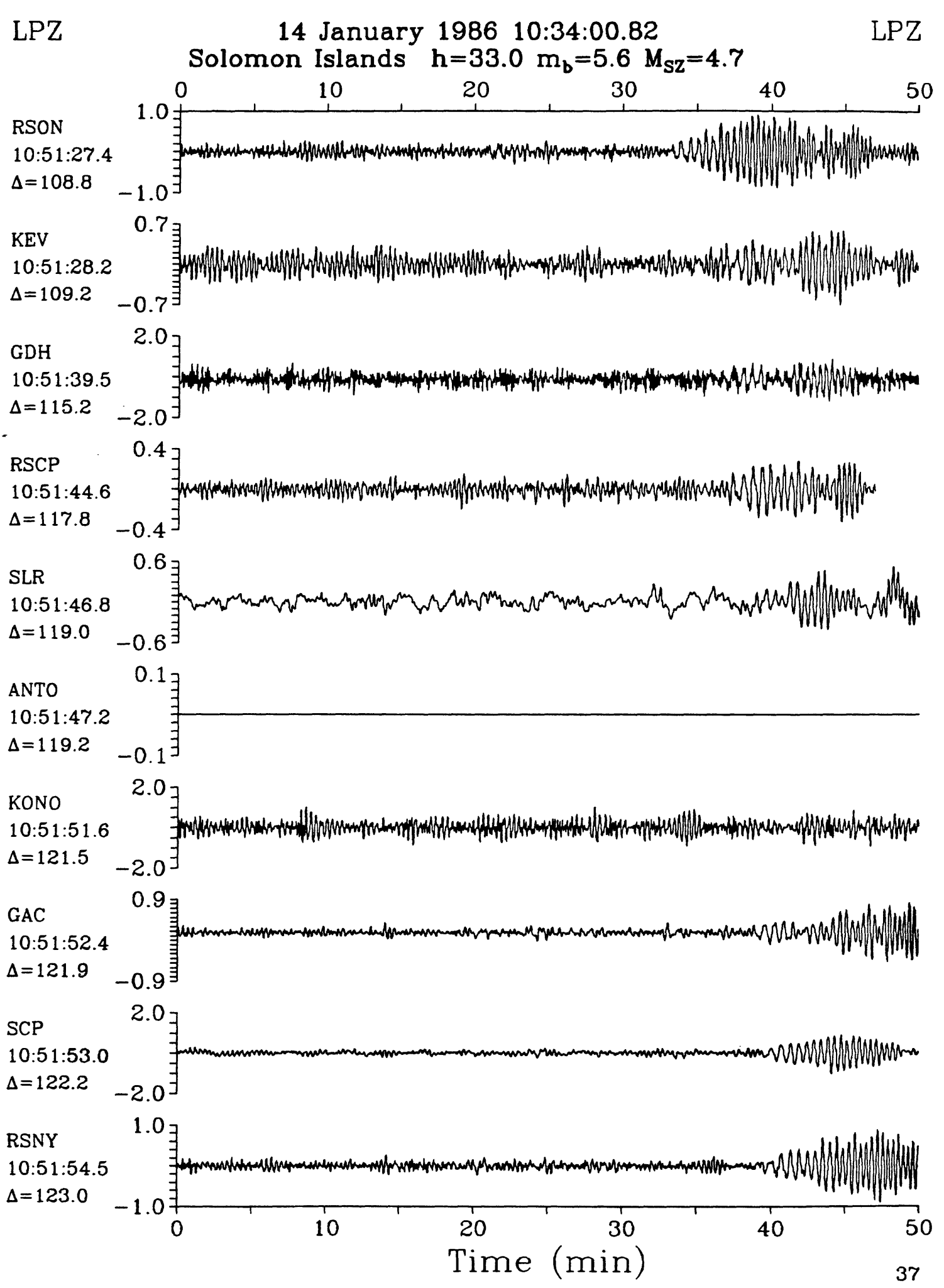
14 January 1986 10:34:00.82

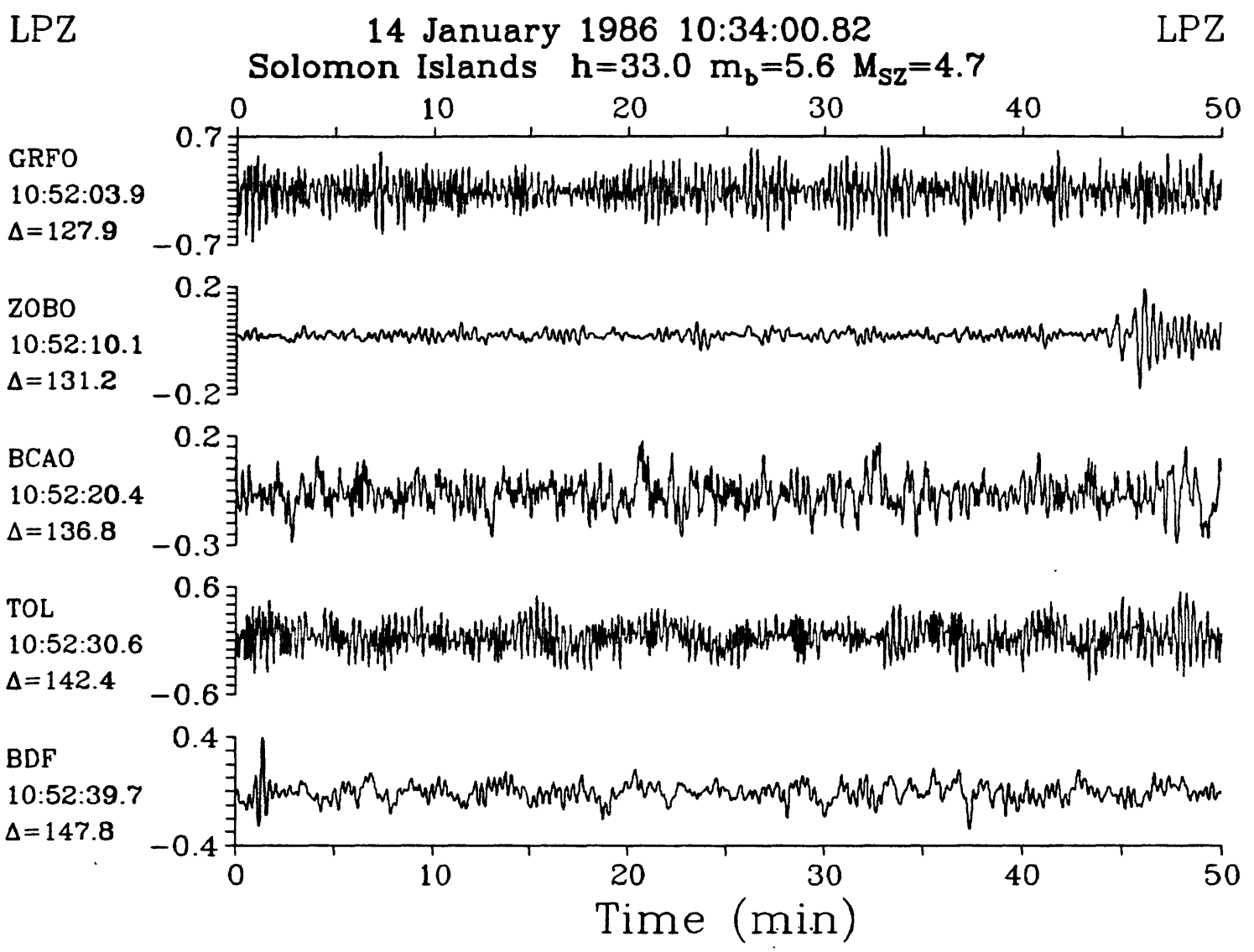
Solomon Islands




SPZ
14 January 1986 10:34:00.82
Solomon Islands h=33.0 m_b=5.6 M_{SZ}=4.7
SPZ
0
1
2
CTAO
10:37:23.0
Δ= 15.5
0.12
−0.12
COL
10:46:09.1
Δ= 83.2
0.03
−0.03
ANMO
10:51:57.8
Δ=100.9
0.01
−0.01
RSCP
10:52:29.6
Δ=117.8
0.02
−0.02
RSNY
10:52:39.5
Δ=123.0
0.05
−0.05
ZOBO
10:52:55.1
Δ=131.2
0.04
−0.04
BCAO
10:53:05.4
Δ=136.8
0.02
−0.03
BDF
10:53:24.7
Δ=147.8
0.10
−0.10
0
1
2
Time (min)

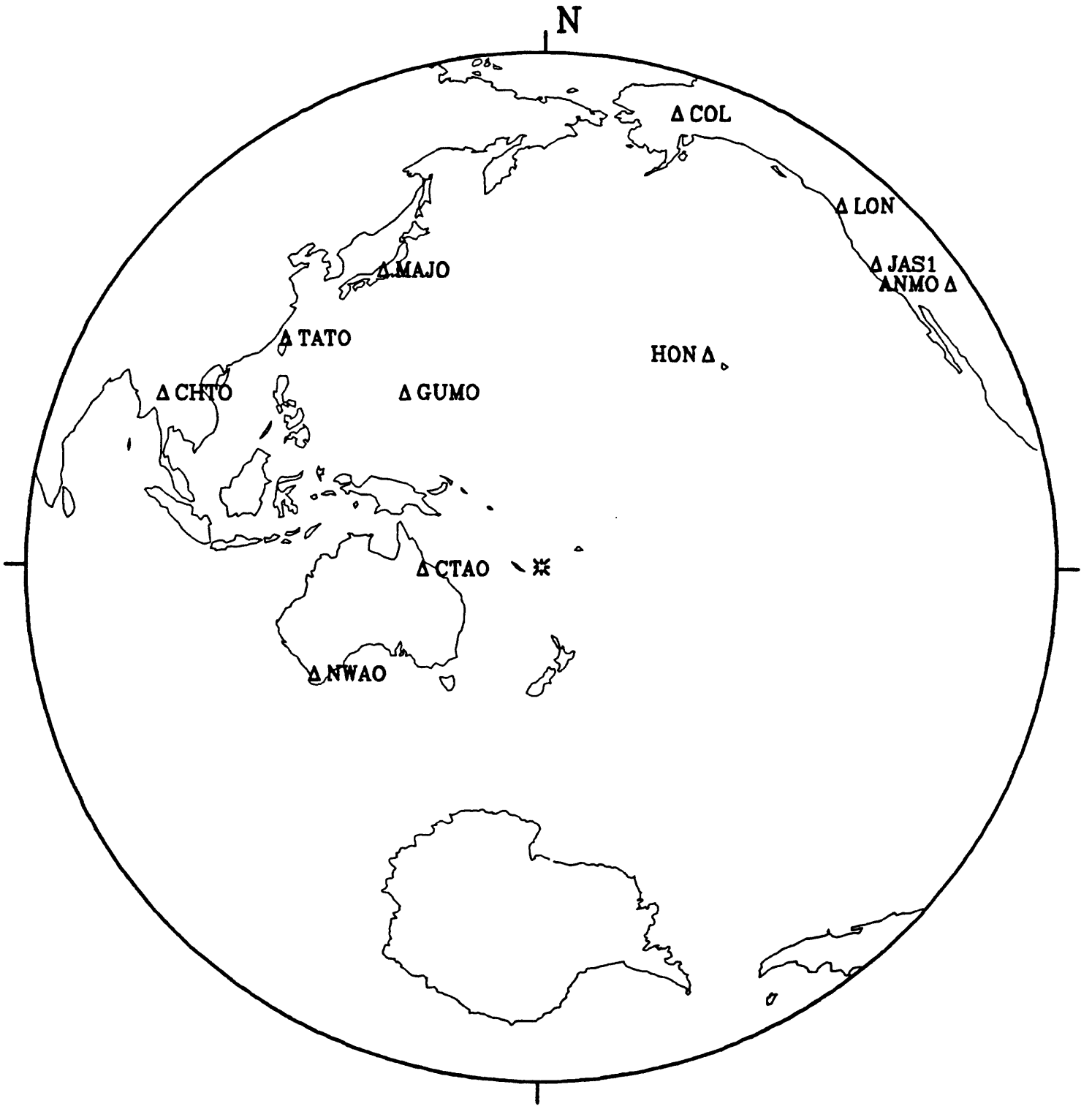

LPZ
14 January 1986 10:34:00.82
Solomon Islands h=33.0 m_b=5.6 M_{SZ}=4.7
LPZ
0
10
20
30
40
50
CTAO
10:36:38.0
Δ= 15.5
4.0
-4.0
GUMO
10:38:01.8
Δ= 23.0
4.0
-4.0
TATO
10:41:19.6
Δ= 45.8
2.0
-2.0
MAJO
10:41:23.5
Δ= 46.3
0.9
-0.9
HON
10:42:21.8
Δ= 53.9
2.0
-2.0
COL
10:45:24.1
Δ= 83.2
2.0
-2.0
JAS1
10:45:57.7
Δ= 89.9
2.0
-2.0
LON
10:45:59.7
Δ= 90.4
3.0
-3.0
RSNT
10:51:04.8
Δ= 96.4
0.7
-0.7
ANMO
10:51:12.8
Δ=100.9
0.6
-0.6
0
10
20
30
40
50
Time (min)

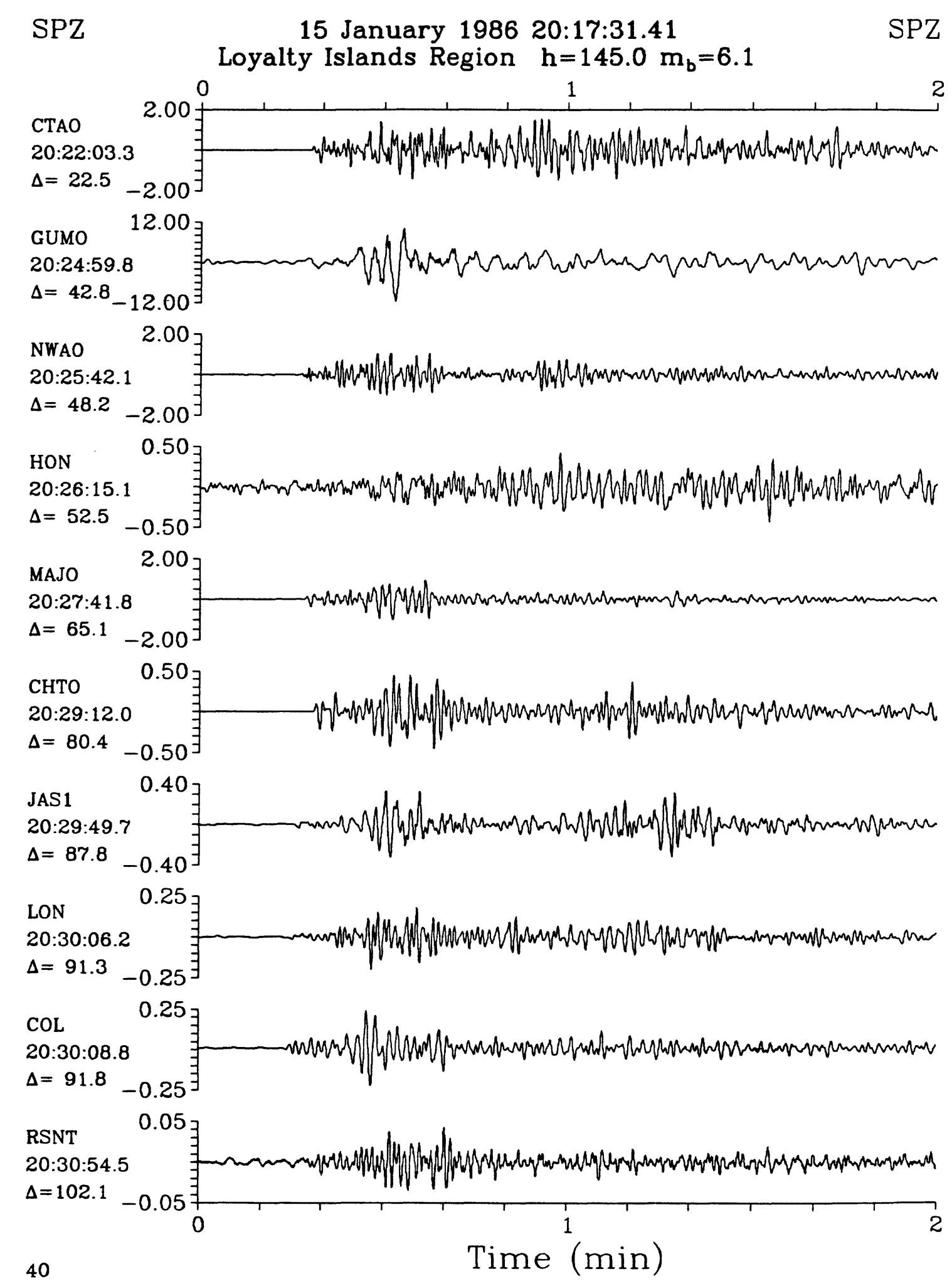

LPZ
14 January 1986 10:34:00.82
Solomon Islands h=33.0 m_b=5.6 M_{SZ}=4.7
LPZ
0
10
20
30
40
50
RSON
10:51:27.4
Δ=108.8
1.0
-1.0
KEV
10:51:28.2
Δ=109.2
0.7
-0.7
GDH
10:51:39.5
Δ=115.2
2.0
-2.0
RSCP
10:51:44.6
Δ=117.8
0.4
-0.4
SLR
10:51:46.8
Δ=119.0
0.6
-0.6
ANTO
10:51:47.2
Δ=119.2
0.1
-0.1
KONO
10:51:51.6
Δ=121.5
2.0
-2.0
GAC
10:51:52.4
Δ=121.9
0.9
-0.9
SCP
10:51:53.0
Δ=122.2
2.0
-2.0
RSNY
10:51:54.5
Δ=123.0
1.0
-1.0
0
10
20
30
40
50
Time (min)

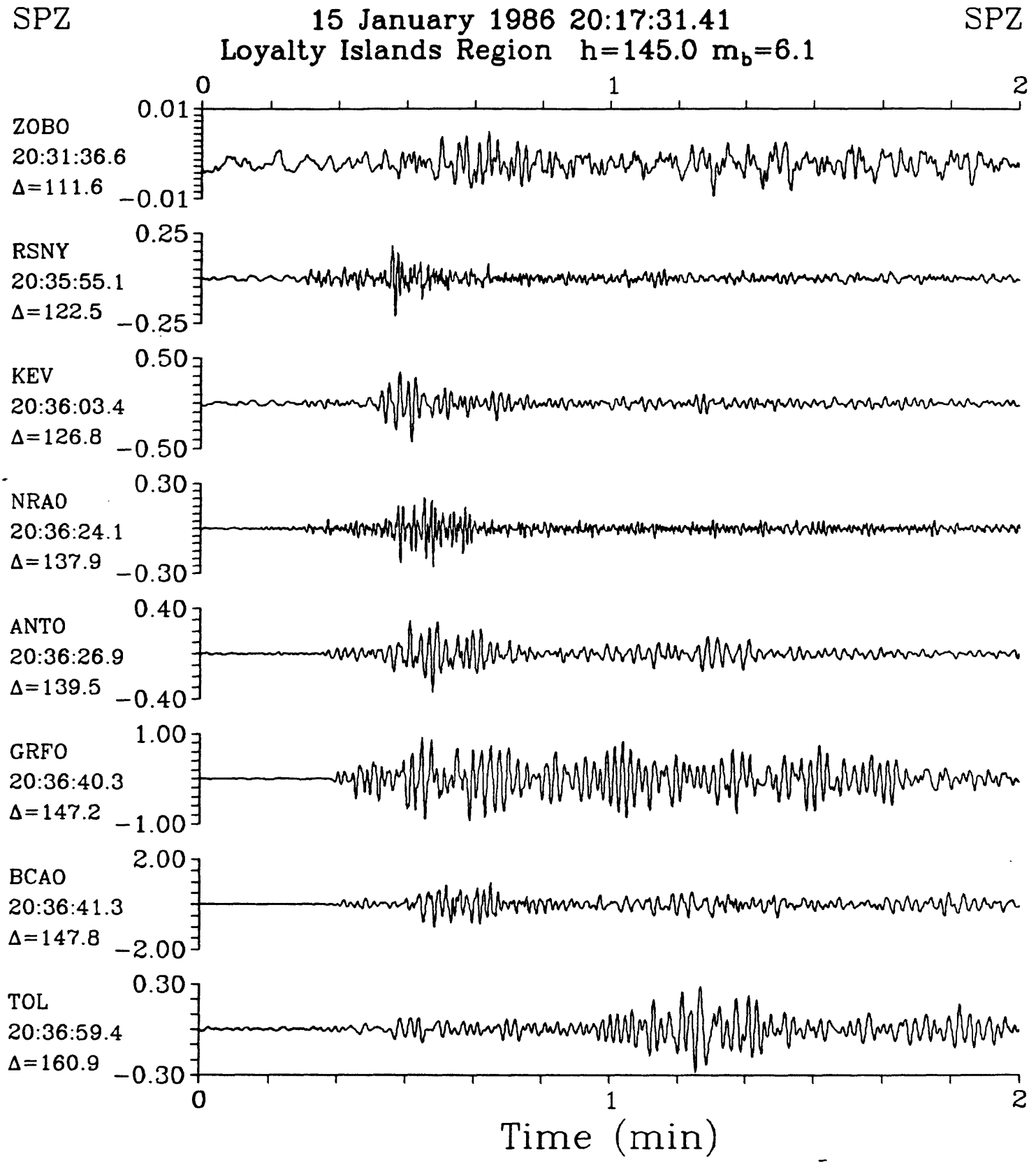

LPZ
14 January 1986 10:34:00.82
Solomon Islands h=33.0 m_b=5.6 M_{SZ}=4.7
LPZ
0
10
20
30
40
50
GRFO
10:52:03.9
Δ=127.9
0.7
−0.7
ZOBO
10:52:10.1
Δ=131.2
0.2
−0.2
BCAO
10:52:20.4
Δ=136.8
0.2
−0.3
TOL
10:52:30.6
Δ=142.4
0.6
−0.6
BDF
10:52:39.7
Δ=147.8
0.4
−0.4
Time (min)

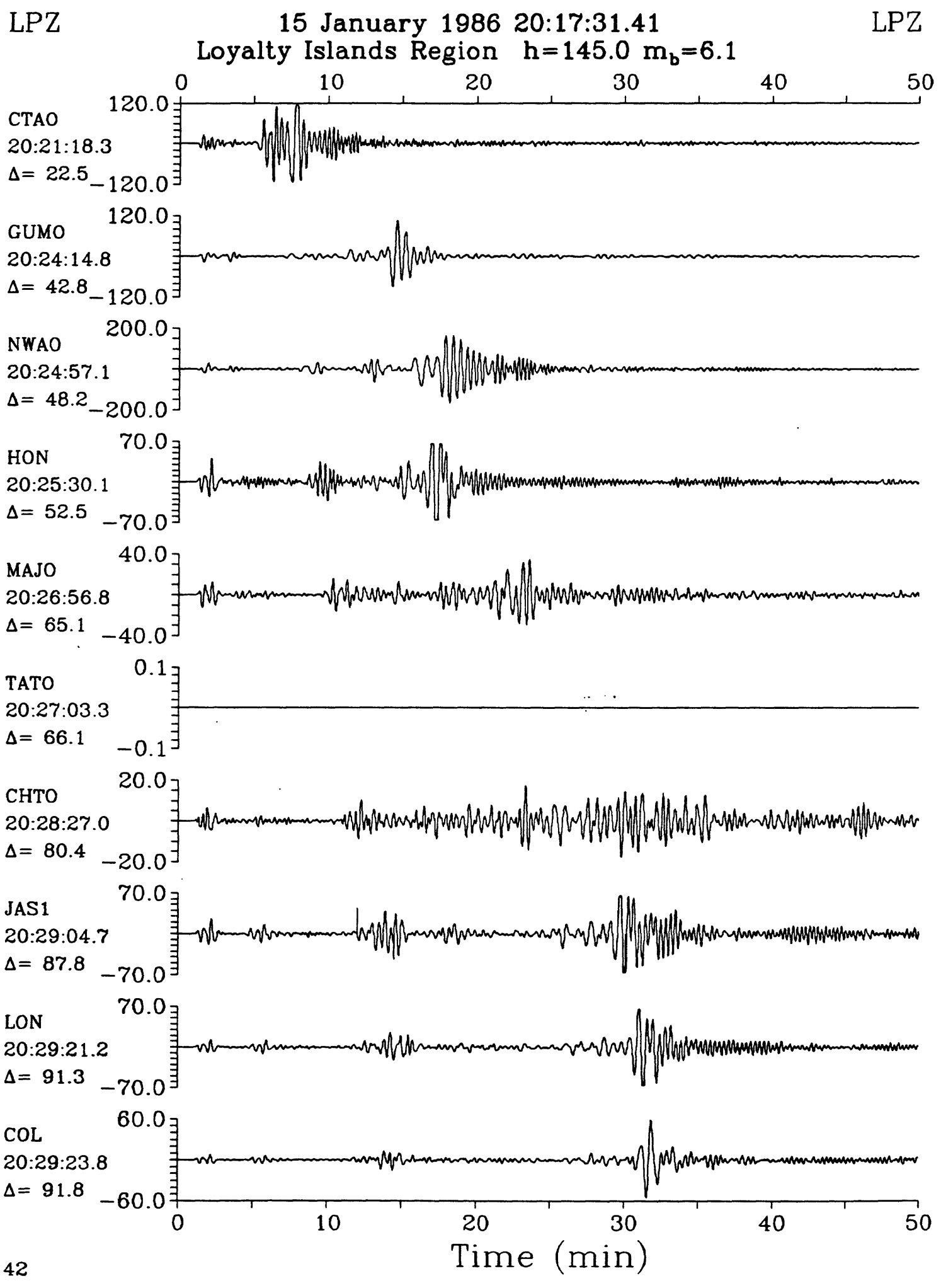
15 January 1986 20:17:31.41

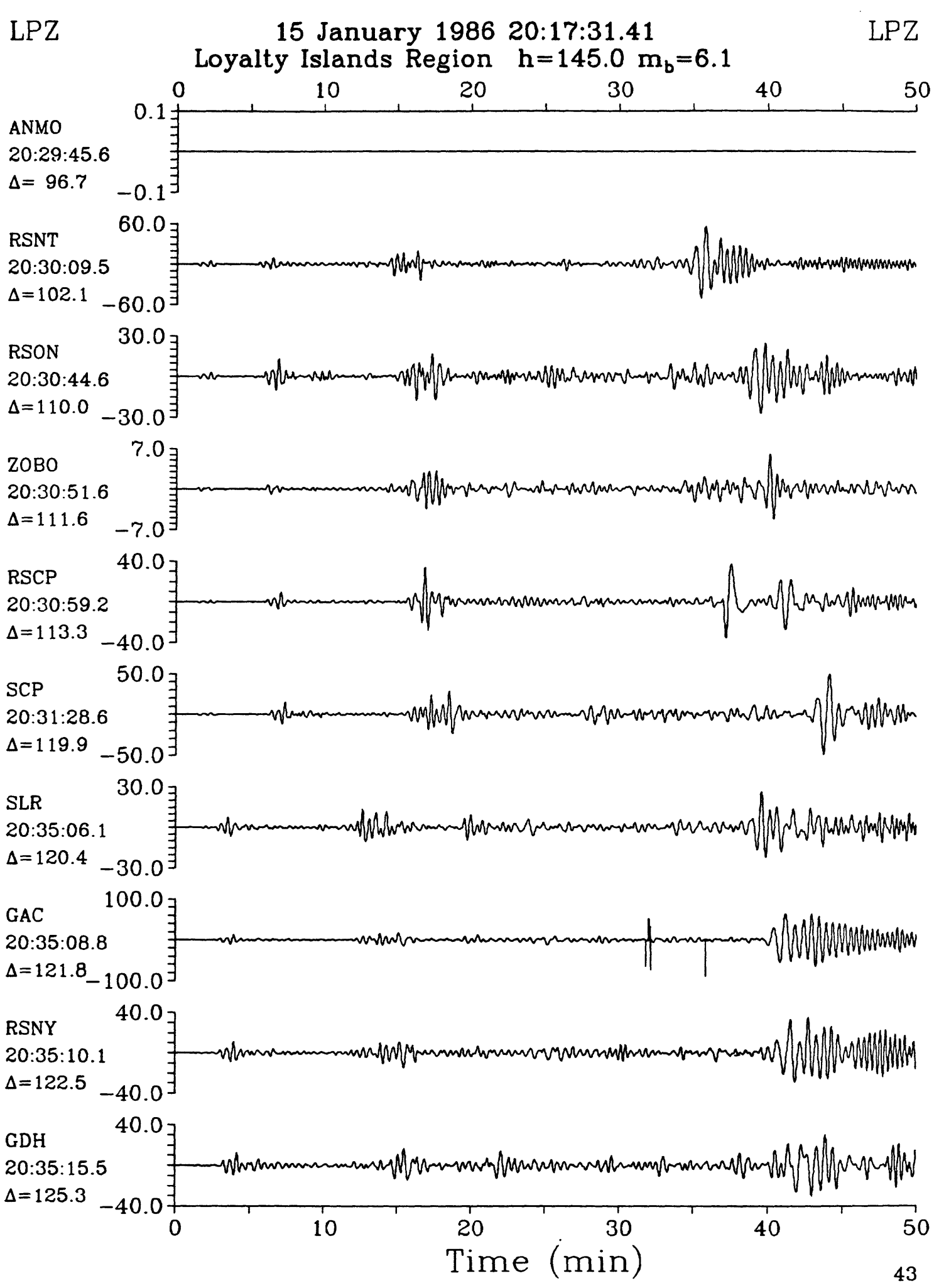
Loyalty Islands Region

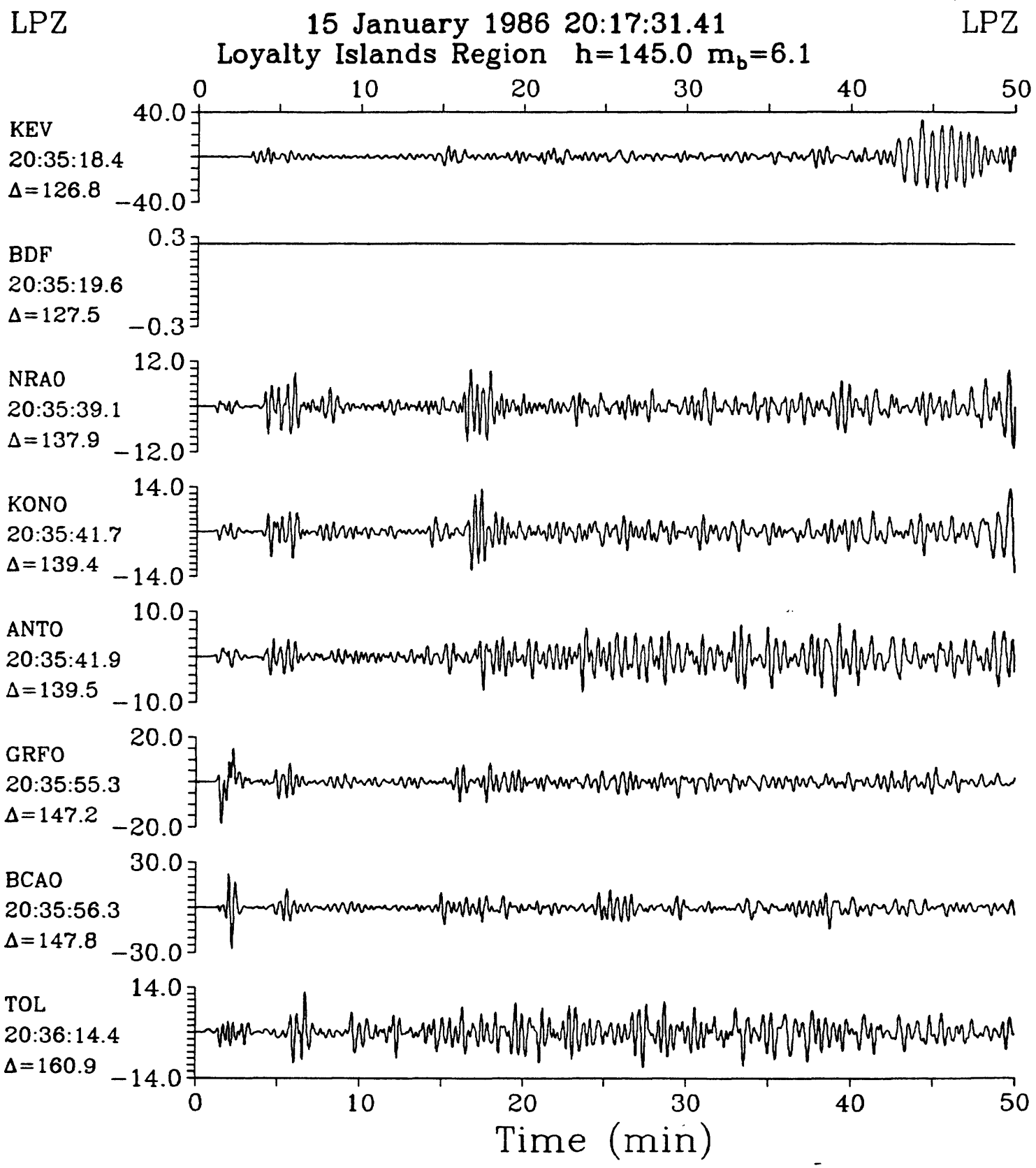


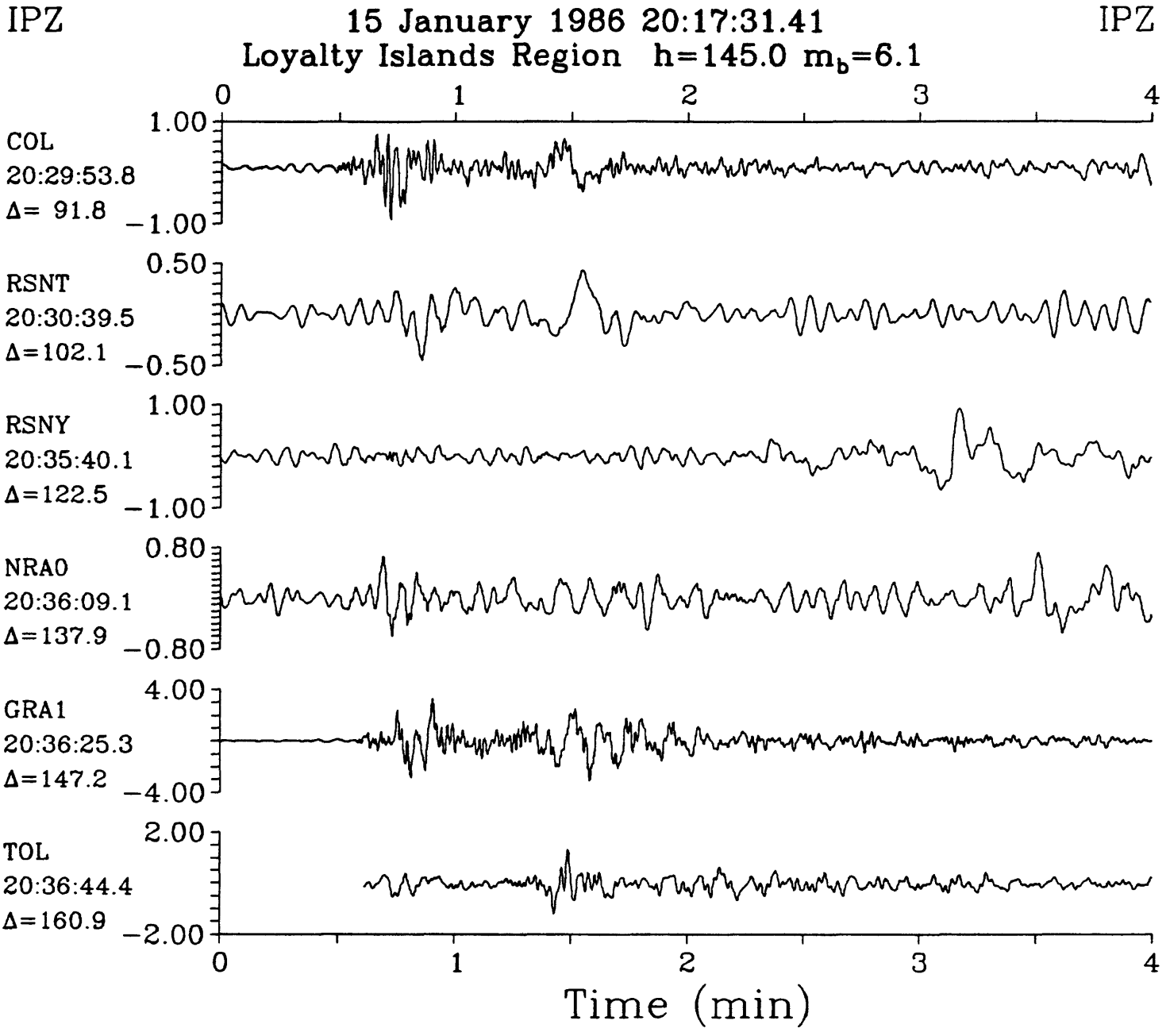

SPZ
15 January 1986 20:17:31.41
Loyalty Islands Region h=145.0 m_b=6.1
SPZ
0
1
2
CTAO
20:22:03.3
Δ= 22.5
2.00
-2.00
GUMO
20:24:59.8
Δ= 42.8
12.00
-12.00
NWAO
20:25:42.1
Δ= 48.2
2.00
-2.00
HON
20:26:15.1
Δ= 52.5
0.50
-0.50
MAJO
20:27:41.8
Δ= 65.1
2.00
-2.00
CHTO
20:29:12.0
Δ= 80.4
0.50
-0.50
JAS1
20:29:49.7
Δ= 87.8
0.40
-0.40
LON
20:30:06.2
Δ= 91.3
0.25
-0.25
COL
20:30:08.8
Δ= 91.8
0.25
-0.25
RSNT
20:30:54.5
Δ=102.1
0.05
-0.05
0
1
2
Time (min)


SPZ
15 January 1986 20:17:31.41
SPZ
Loyalty Islands Region h=145.0 m_b=6.1
0
1
2
0.01
ZOBO
20:31:36.6
Δ=111.6
-0.01
0.25
RSNY
20:35:55.1
Δ=122.5
-0.25
0.50
KEV
20:36:03.4
Δ=126.8
-0.50
0.30
NRAO
20:36:24.1
Δ=137.9
-0.30
0.40
ANTO
20:36:26.9
Δ=139.5
-0.40
1.00
GRFO
20:36:40.3
Δ=147.2
-1.00
2.00
BCAO
20:36:41.3
Δ=147.8
-2.00
0.30
TOL
20:36:59.4
Δ=160.9
-0.30
0
1
2
Time (min)


LPZ
15 January 1986 20:17:31.41
Loyalty Islands Region h=145.0 m_b=6.1
LPZ
0
10
20
30
40
50
CTAO
20:21:18.3
Δ= 22.5
120.0
−120.0
GUMO
20:24:14.8
Δ= 42.8
120.0
−120.0
NWAO
20:24:57.1
Δ= 48.2
200.0
−200.0
HON
20:25:30.1
Δ= 52.5
70.0
−70.0
MAJO
20:26:56.8
Δ= 65.1
40.0
−40.0
TATO
20:27:03.3
Δ= 66.1
0.1
−0.1
CHTO
20:28:27.0
Δ= 80.4
20.0
−20.0
JAS1
20:29:04.7
Δ= 87.8
70.0
−70.0
LON
20:29:21.2
Δ= 91.3
70.0
−70.0
COL
20:29:23.8
Δ= 91.8
60.0
−60.0
0
10
20
30
40
50
Time (min)

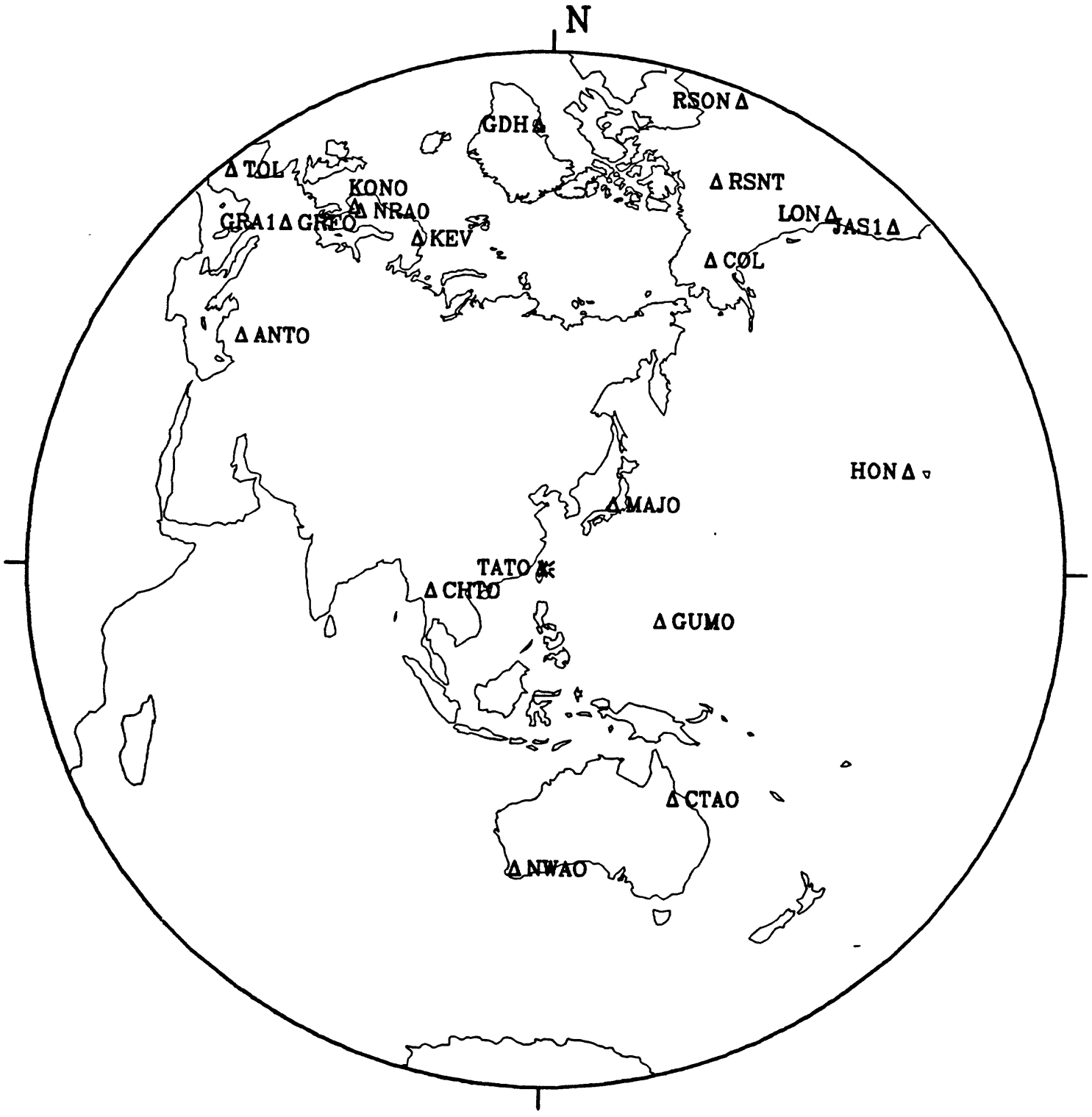

LPZ
15 January 1986 20:17:31.41
Loyalty Islands Region h=145.0 m_b=6.1
LPZ
0
10
20
30
40
50
ANMO
20:29:45.6
Δ= 96.7
0.1
-0.1
RSNT
20:30:09.5
Δ=102.1
60.0
-60.0
RSON
20:30:44.6
Δ=110.0
30.0
-30.0
ZOBO
20:30:51.6
Δ=111.6
7.0
-7.0
RSCP
20:30:59.2
Δ=113.3
40.0
-40.0
SCP
20:31:28.6
Δ=119.9
50.0
-50.0
SLR
20:35:06.1
Δ=120.4
30.0
-30.0
GAC
20:35:08.8
Δ=121.8
100.0
-100.0
RSNY
20:35:10.1
Δ=122.5
40.0
-40.0
GDH
20:35:15.5
Δ=125.3
40.0
-40.0
0
10
20
30
40
50
Time (min)

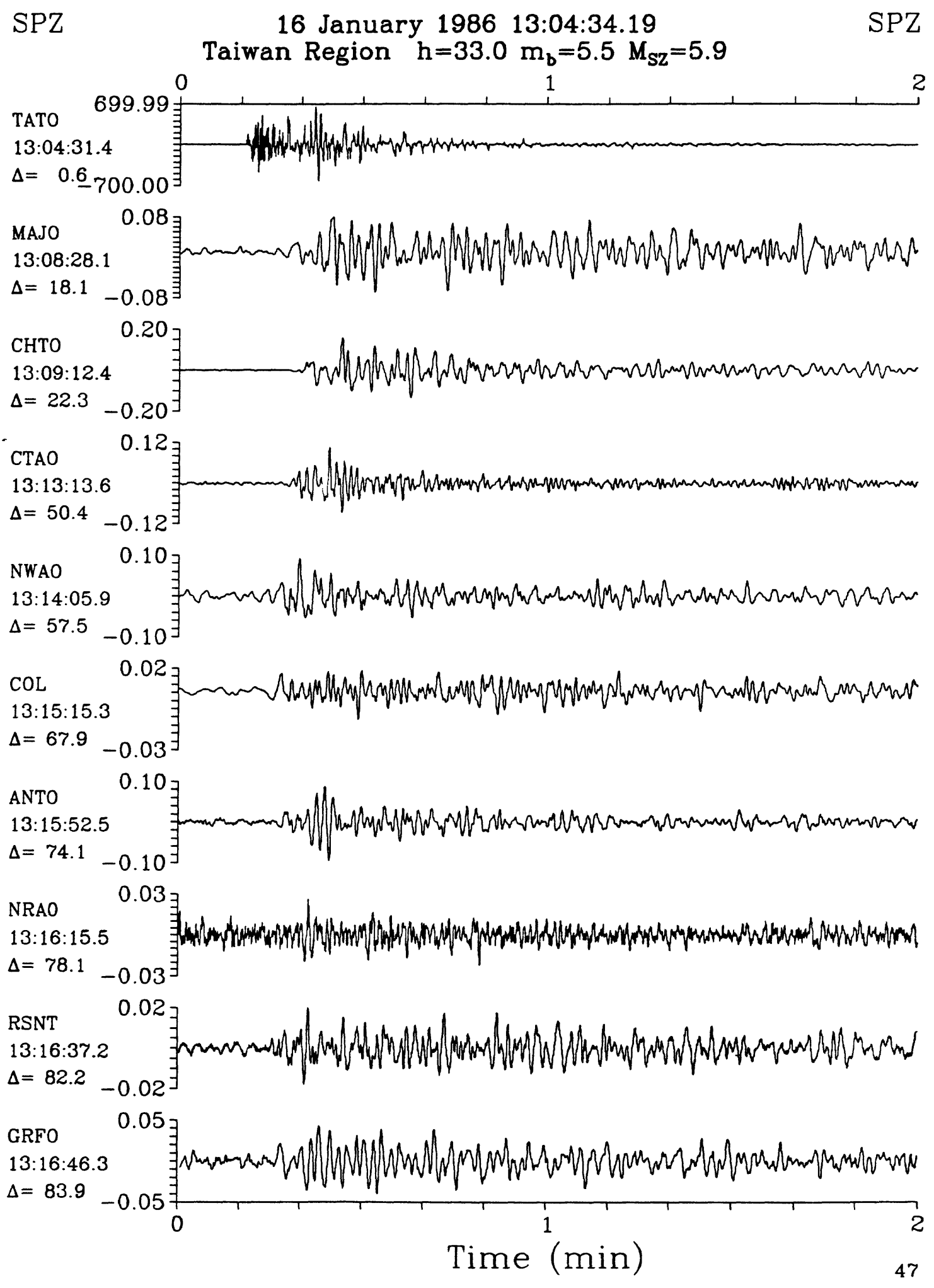

LPZ
15 January 1986 20:17:31.41
Loyalty Islands Region h=145.0 m$_b$=6.1
LPZ
0
10
20
30
40
50
KEV
20:35:18.4
Δ=126.8
40.0
-40.0
BDF
20:35:19.6
Δ=127.5
0.3
-0.3
NRAO
20:35:39.1
Δ=137.9
12.0
-12.0
KONO
20:35:41.7
Δ=139.4
14.0
-14.0
ANTO
20:35:41.9
Δ=139.5
10.0
-10.0
GRFO
20:35:55.3
Δ=147.2
20.0
-20.0
BCAO
20:35:56.3
Δ=147.8
30.0
-30.0
TOL
20:36:14.4
Δ=160.9
14.0
-14.0
0
10
20
30
40
50
Time (min)

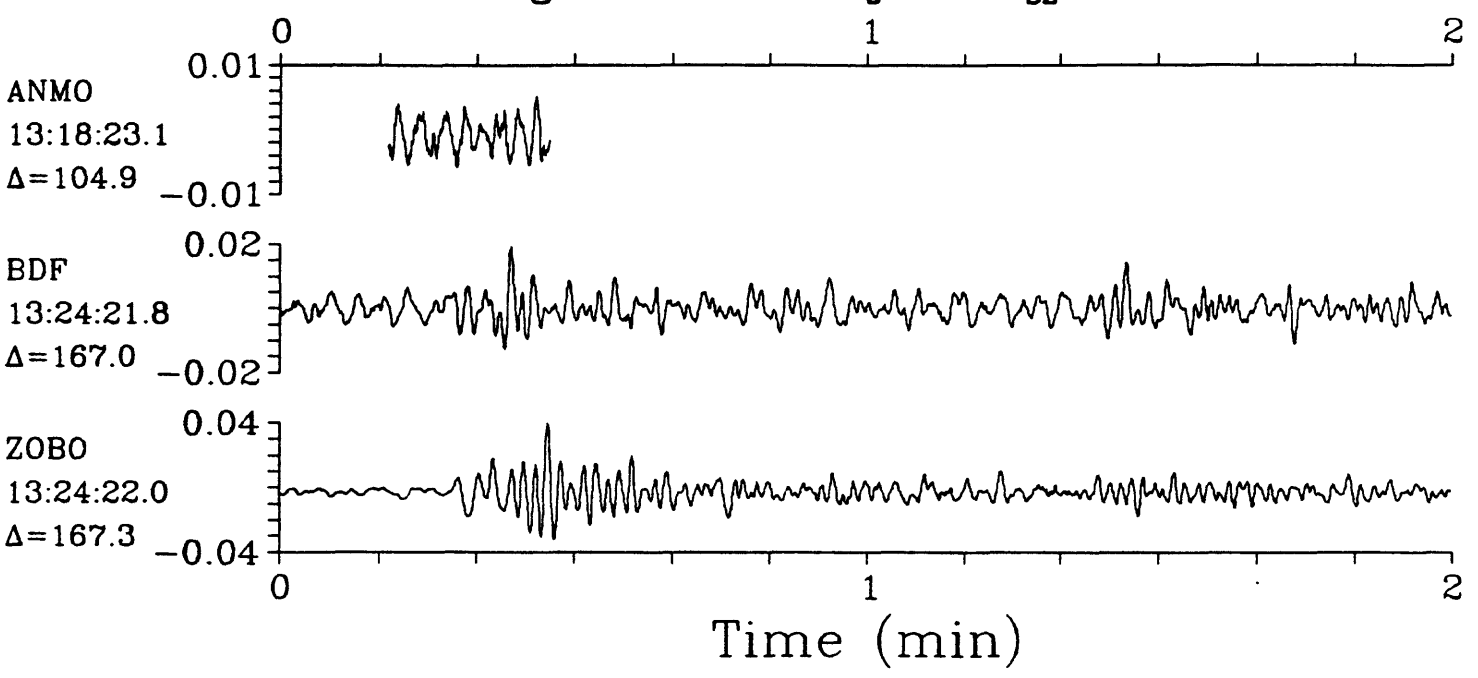

IPZ
15 January 1986 20:17:31.41
IPZ
Loyalty Islands Region h=145.0 m_b=6.1
0
1
2
3
4
1.00
COL
20:29:53.8
Δ= 91.8
−1.00
0.50
RSNT
20:30:39.5
Δ=102.1
−0.50
1.00
RSNY
20:35:40.1
Δ=122.5
−1.00
0.80
NRA0
20:36:09.1
Δ=137.9
−0.80
4.00
GRA1
20:36:25.3
Δ=147.2
−4.00
2.00
TOL
20:36:44.4
Δ=160.9
−2.00
0
1
2
3
4
Time (min)

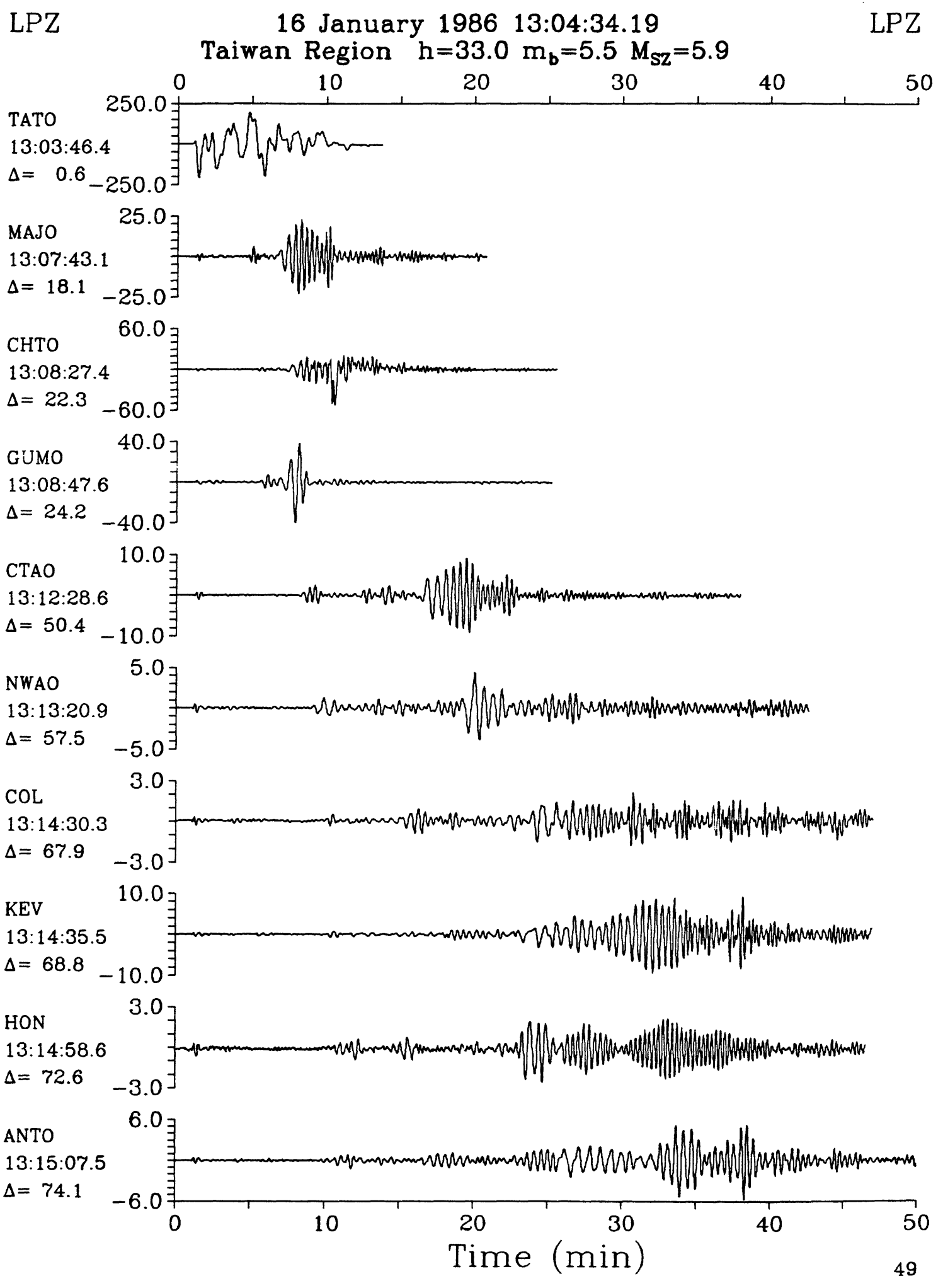
16 January 1986 13:04:34.19

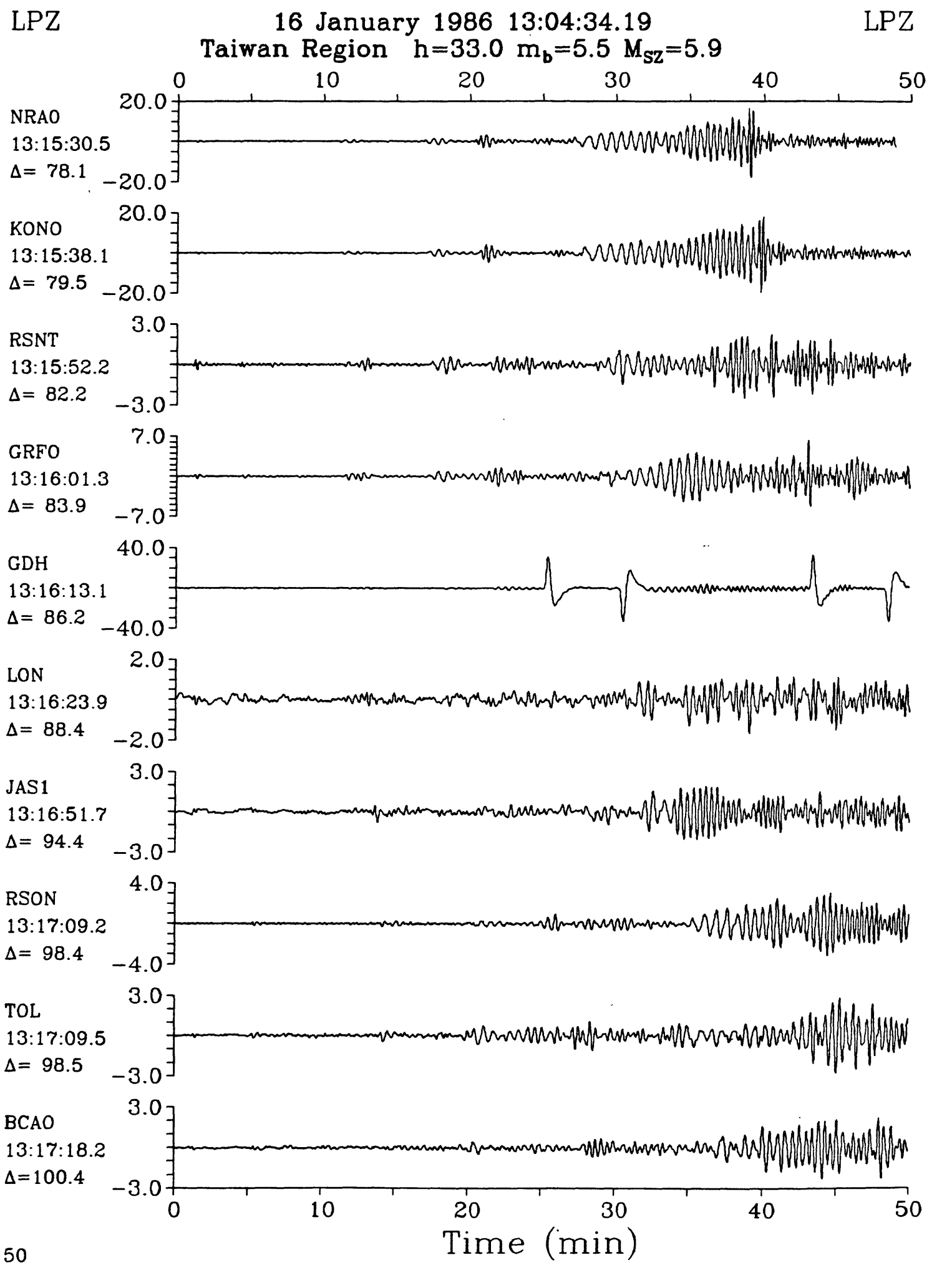
Taiwan Region

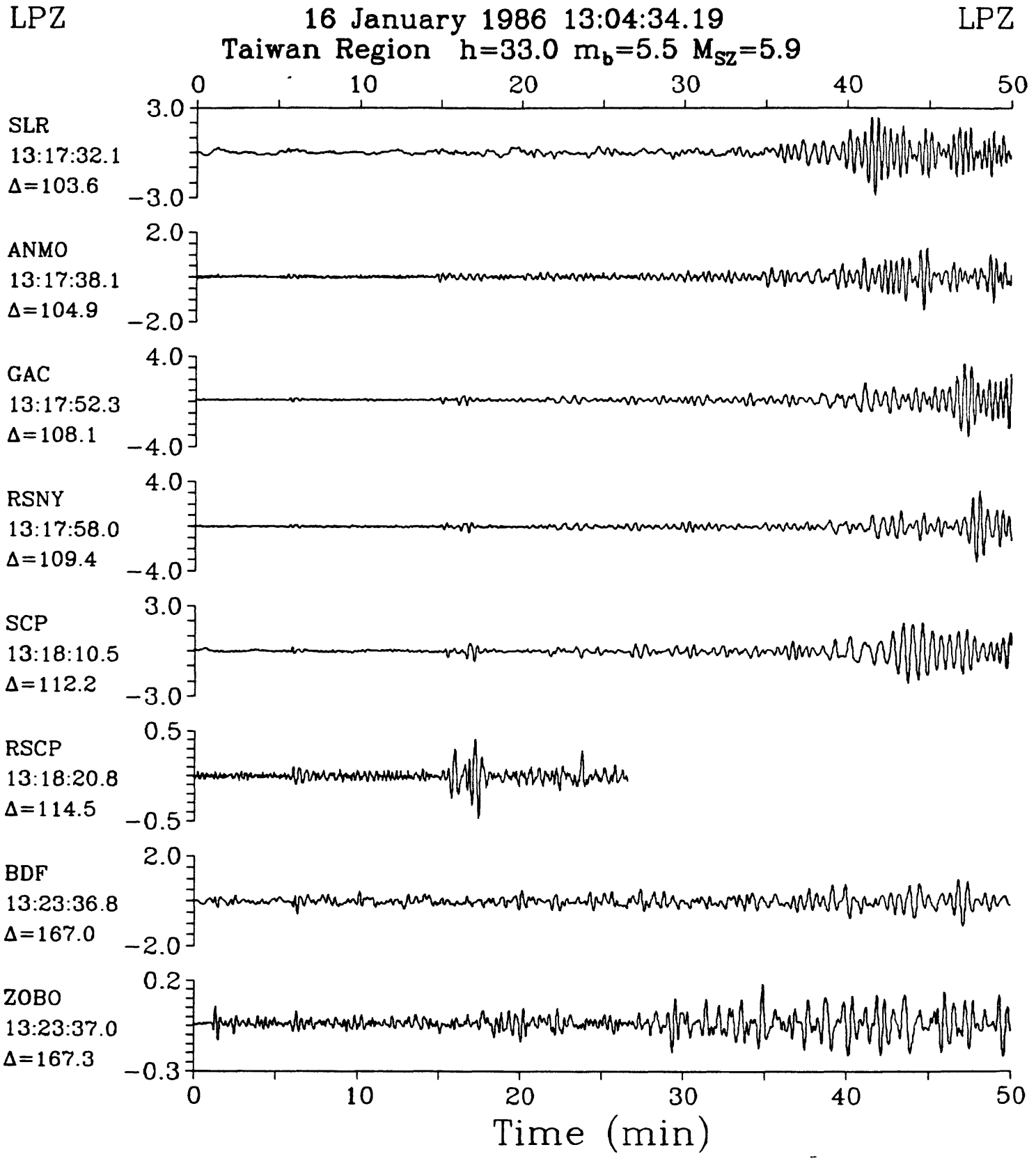



SPZ
16 January 1986 13:04:34.19
Taiwan Region h=33.0 m_b=5.5 M_{SZ}=5.9
SPZ
0
1
2
699.99
TATO
13:04:31.4
Δ= 0.6
-700.00
0.08
MAJO
13:08:28.1
Δ= 18.1
-0.08
0.20
CHTO
13:09:12.4
Δ= 22.3
-0.20
0.12
CTAO
13:13:13.6
Δ= 50.4
-0.12
0.10
NWAO
13:14:05.9
Δ= 57.5
-0.10
0.02
COL
13:15:15.3
Δ= 67.9
-0.03
0.10
ANTO
13:15:52.5
Δ= 74.1
-0.10
0.03
NRAO
13:16:15.5
Δ= 78.1
-0.03
0.02
RSNT
13:16:37.2
Δ= 82.2
-0.02
0.05
GRFO
13:16:46.3
Δ= 83.9
-0.05
0
1
2
Time (min)


16 January 1986 13:04:34.19
Taiwan Region h=33.0 m_b=5.5 M_{SZ}=5.9
0
1
2
0.01
ANMO
13:18:23.1
Δ=104.9
−0.01
0.02
BDF
13:24:21.8
Δ=167.0
−0.02
0.04
ZOBO
13:24:22.0
Δ=167.3
−0.04
0
1
2
Time (min)

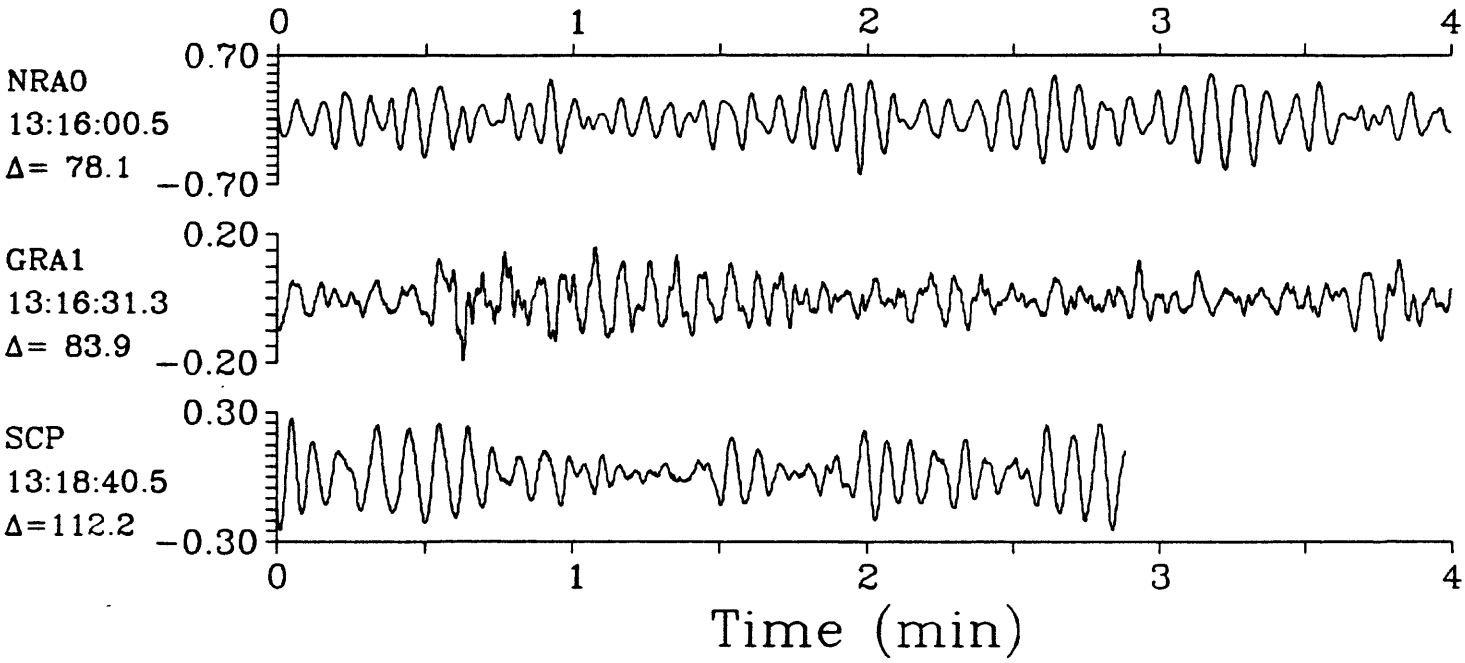

LPZ
16 January 1986 13:04:34.19
LPZ
Taiwan Region h=33.0 m_b=5.5 M_{SZ}=5.9
0
10
20
30
40
50
250.0
TATO
13:03:46.4
Δ= 0.6
-250.0
25.0
MAJO
13:07:43.1
Δ= 18.1
-25.0
60.0
CHTO
13:08:27.4
Δ= 22.3
-60.0
40.0
GUMO
13:08:47.6
Δ= 24.2
-40.0
10.0
CTAO
13:12:28.6
Δ= 50.4
-10.0
5.0
NWAO
13:13:20.9
Δ= 57.5
-5.0
3.0
COL
13:14:30.3
Δ= 67.9
-3.0
10.0
KEV
13:14:35.5
Δ= 68.8
-10.0
3.0
HON
13:14:58.6
Δ= 72.6
-3.0
6.0
ANTO
13:15:07.5
Δ= 74.1
-6.0
0
10
20
30
40
50
Time (min)


LPZ
16 January 1986 13:04:34.19
Taiwan Region h=33.0 m_b=5.5 M_{SZ}=5.9
LPZ
0
10
20
30
40
50
NRAO
13:15:30.5
Δ= 78.1
20.0
-20.0
KONO
13:15:38.1
Δ= 79.5
20.0
-20.0
RSNT
13:15:52.2
Δ= 82.2
3.0
-3.0
GRFO
13:16:01.3
Δ= 83.9
7.0
-7.0
GDH
13:16:13.1
Δ= 86.2
40.0
-40.0
LON
13:16:23.9
Δ= 88.4
2.0
-2.0
JAS1
13:16:51.7
Δ= 94.4
3.0
-3.0
RSON
13:17:09.2
Δ= 98.4
4.0
-4.0
TOL
13:17:09.5
Δ= 98.5
3.0
-3.0
BCAO
13:17:18.2
Δ=100.4
3.0
-3.0
0
10
20
30
40
50
Time (min)


LPZ
16 January 1986 13:04:34.19
LPZ
Taiwan Region h=33.0 m_b=5.5 M_{SZ}=5.9
SLR
13:17:32.1
Δ=103.6
ANMO
13:17:38.1
Δ=104.9
GAC
13:17:52.3
Δ=108.1
RSNY
13:17:58.0
Δ=109.4
SCP
13:18:10.5
Δ=112.2
RSCP
13:18:20.8
Δ=114.5
BDF
13:23:36.8
Δ=167.0
ZOBO
13:23:37.0
Δ=167.3
Time (min)

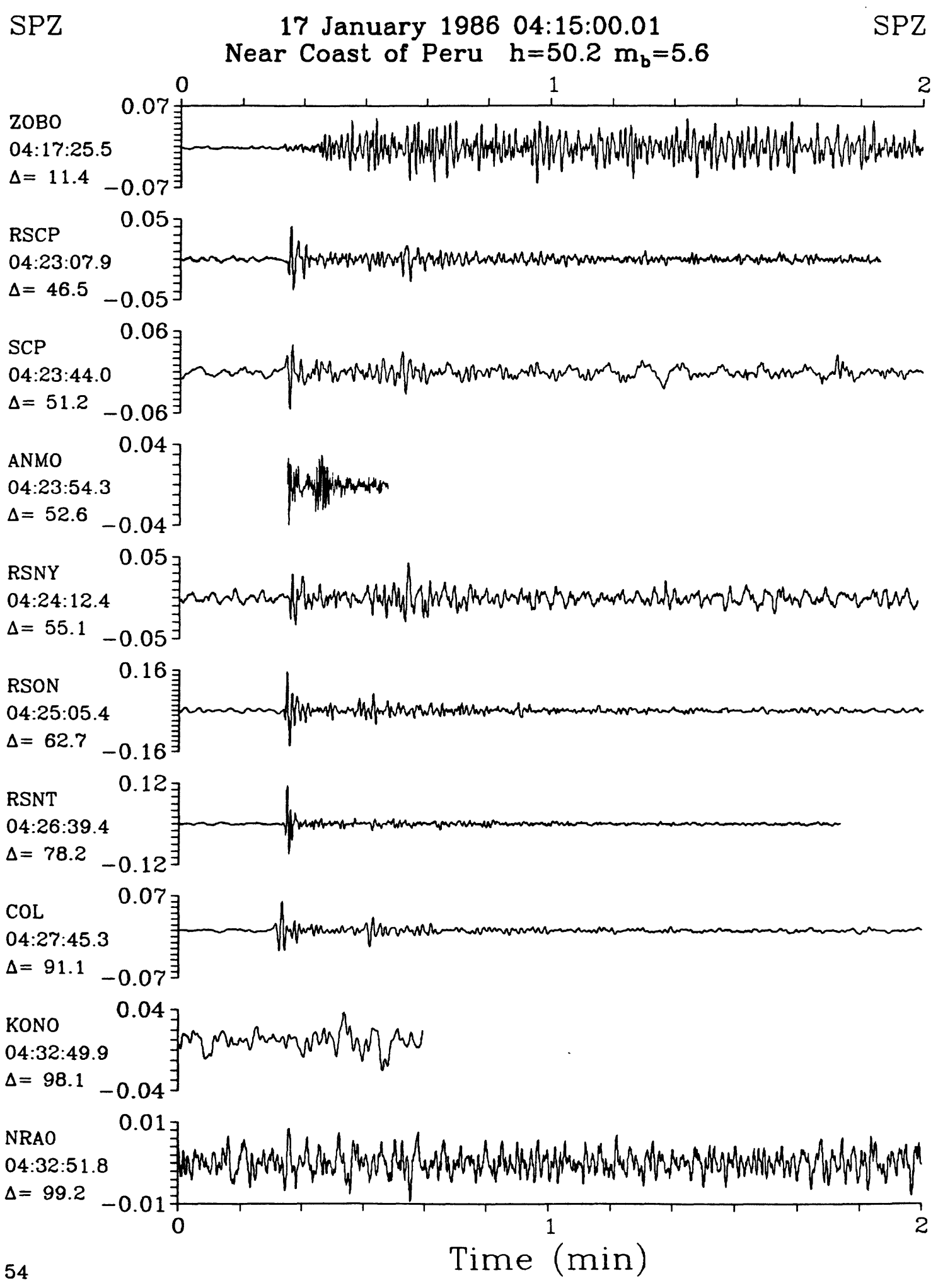
16 January 1986 13:04:34.19

Taiwan Region h=33.0 m_b=5.5 M_{SZ}=5.9



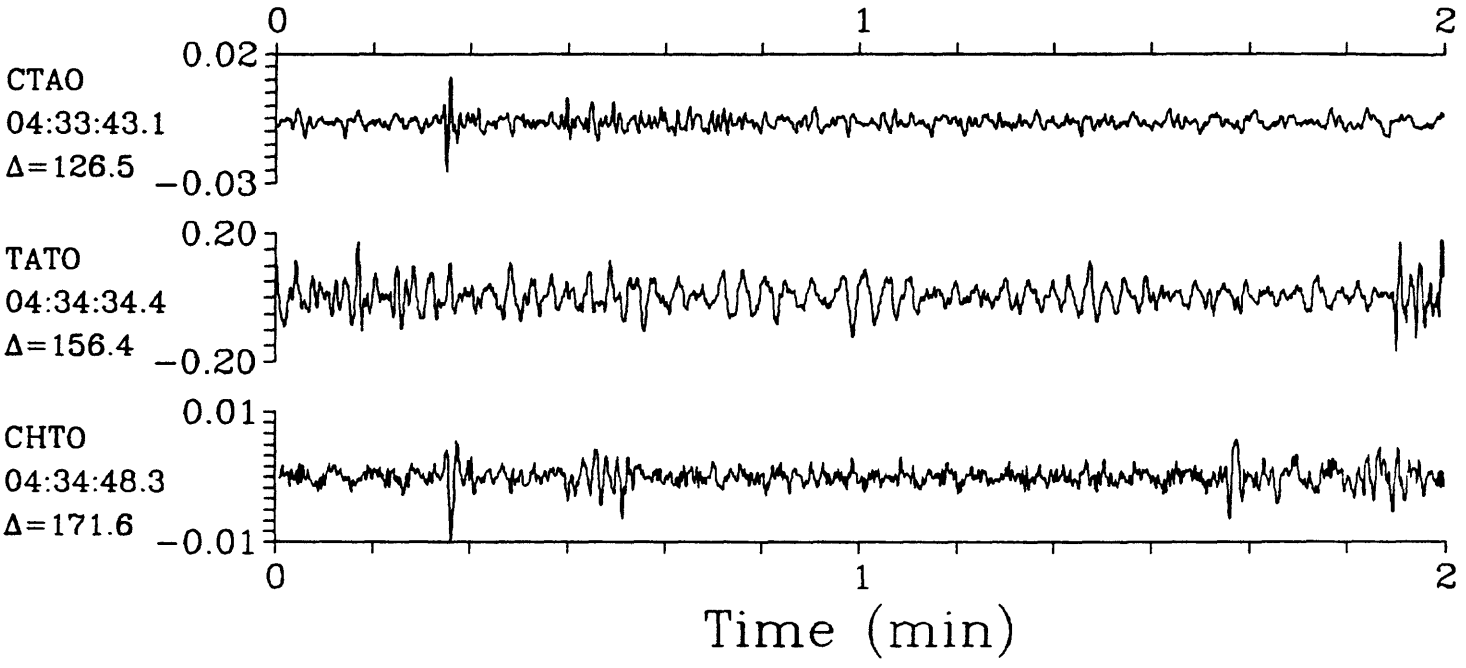
17 January 1986 04:15:00.01

Near Coast of Peru

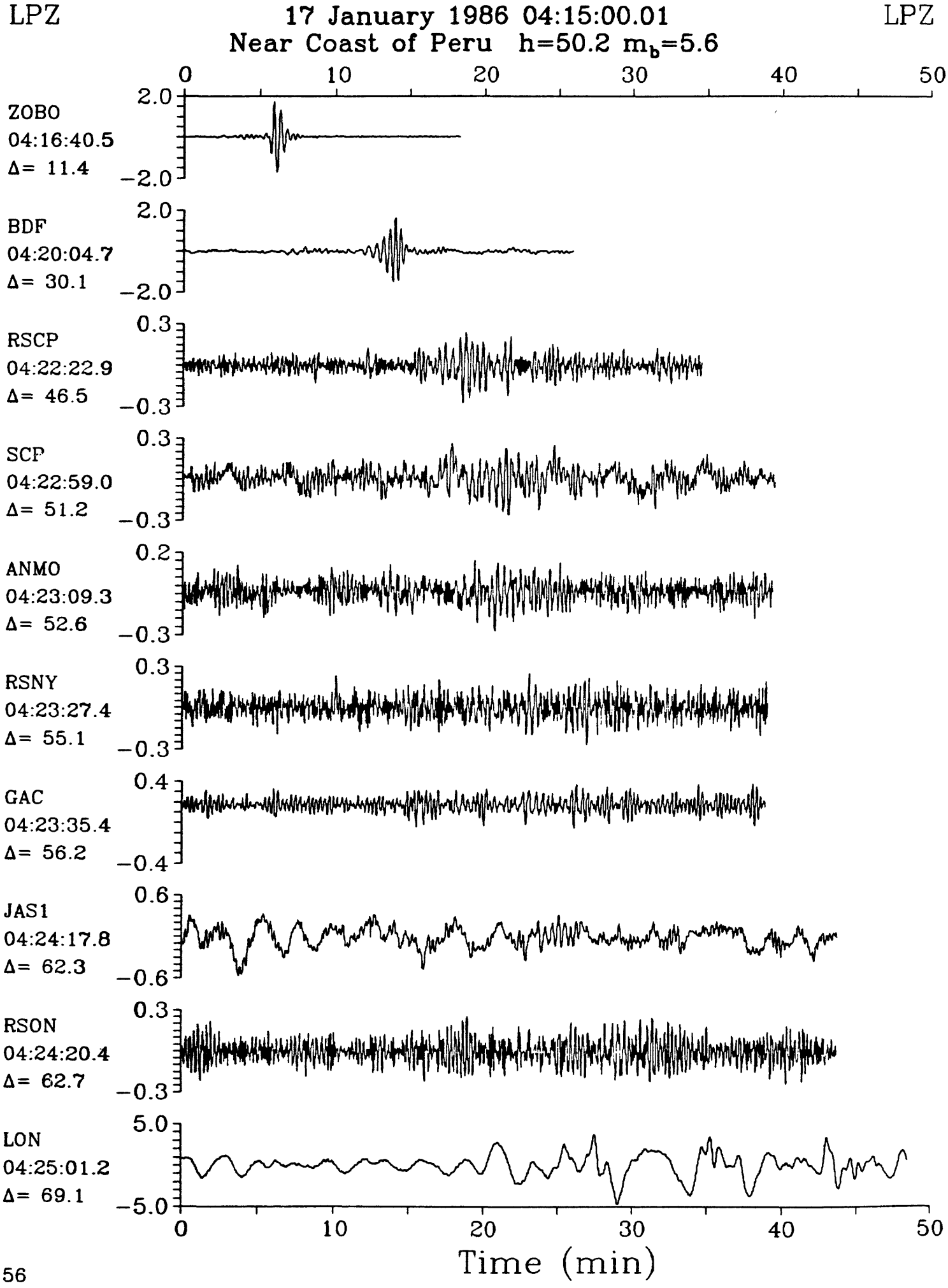

SPZ
17 January 1986 04:15:00.01
Near Coast of Peru h=50.2 m_b=5.6
SPZ
0
1
2
ZOBO
04:17:25.5
Δ= 11.4
0.07
-0.07
RSCP
04:23:07.9
Δ= 46.5
0.05
-0.05
SCP
04:23:44.0
Δ= 51.2
0.06
-0.06
ANMO
04:23:54.3
Δ= 52.6
0.04
-0.04
RSNY
04:24:12.4
Δ= 55.1
0.05
-0.05
RSON
04:25:05.4
Δ= 62.7
0.16
-0.16
RSNT
04:26:39.4
Δ= 78.2
0.12
-0.12
COL
04:27:45.3
Δ= 91.1
0.07
-0.07
KONO
04:32:49.9
Δ= 98.1
0.04
-0.04
NRAO
04:32:51.8
Δ= 99.2
0.01
-0.01
0
1
2
Time (min)

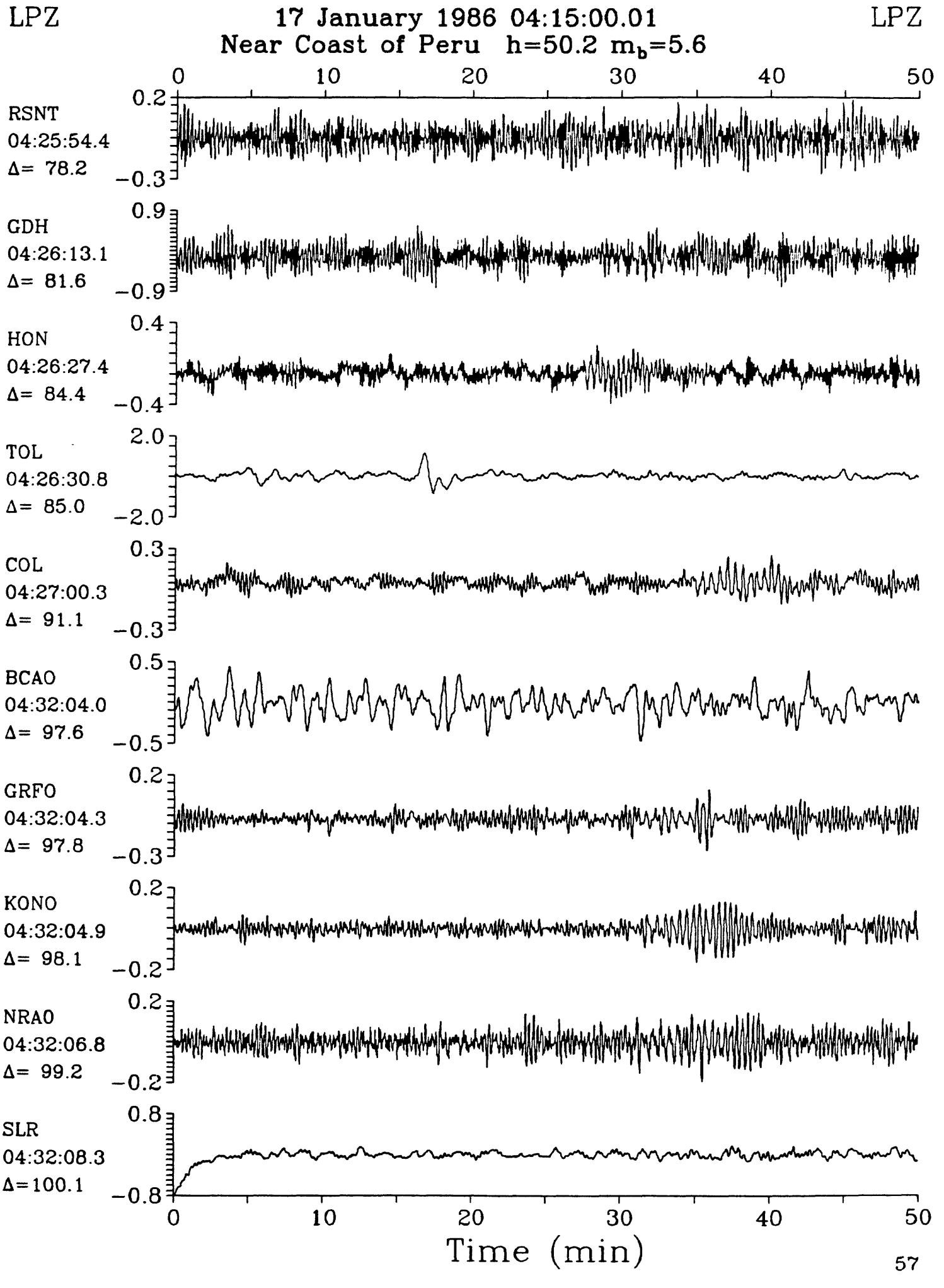
SPZ 17 January 1986 04:15:00.01 SPZ

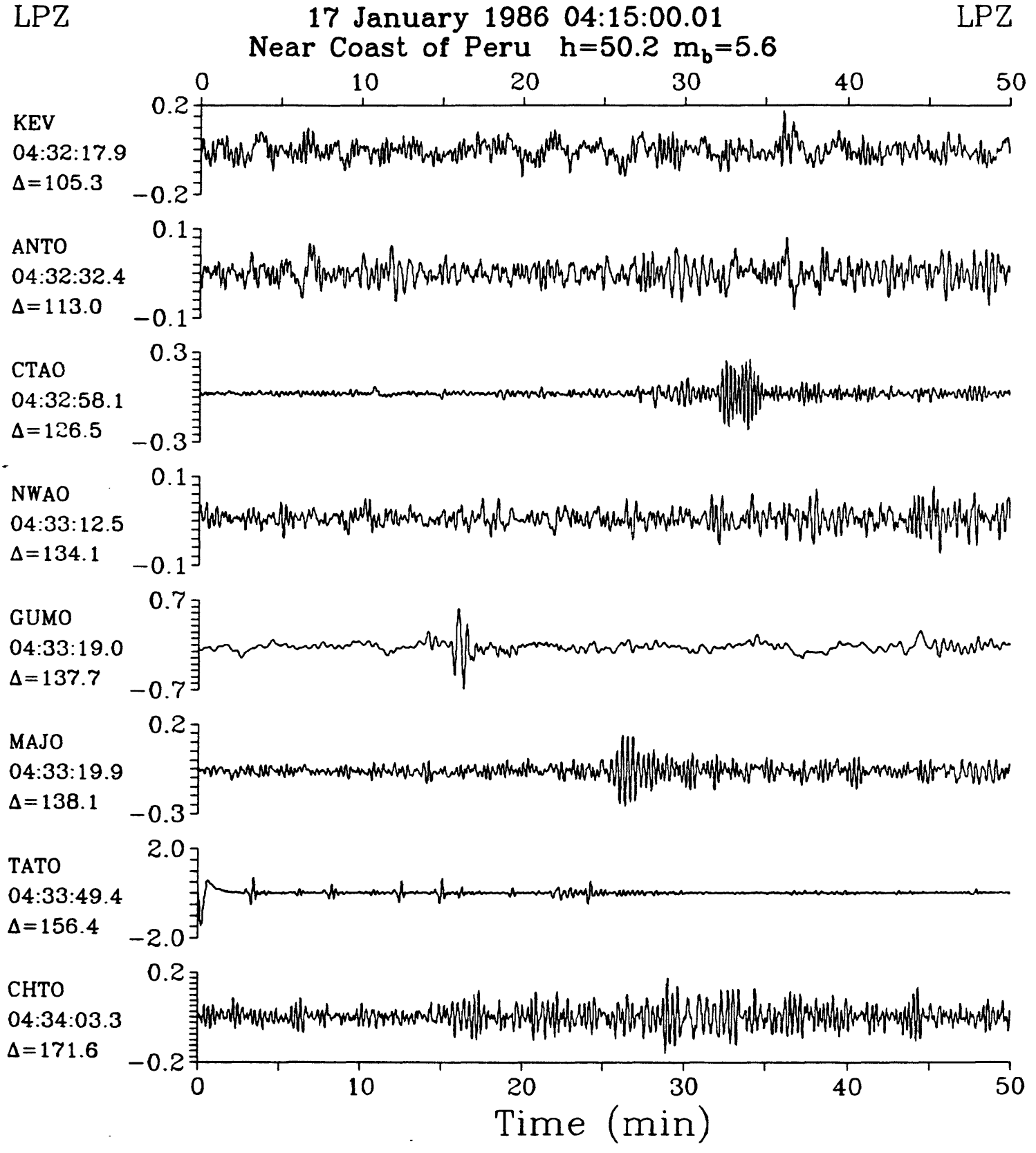
Near Coast of Peru h=50.2 m_b=5.6



Time (min)

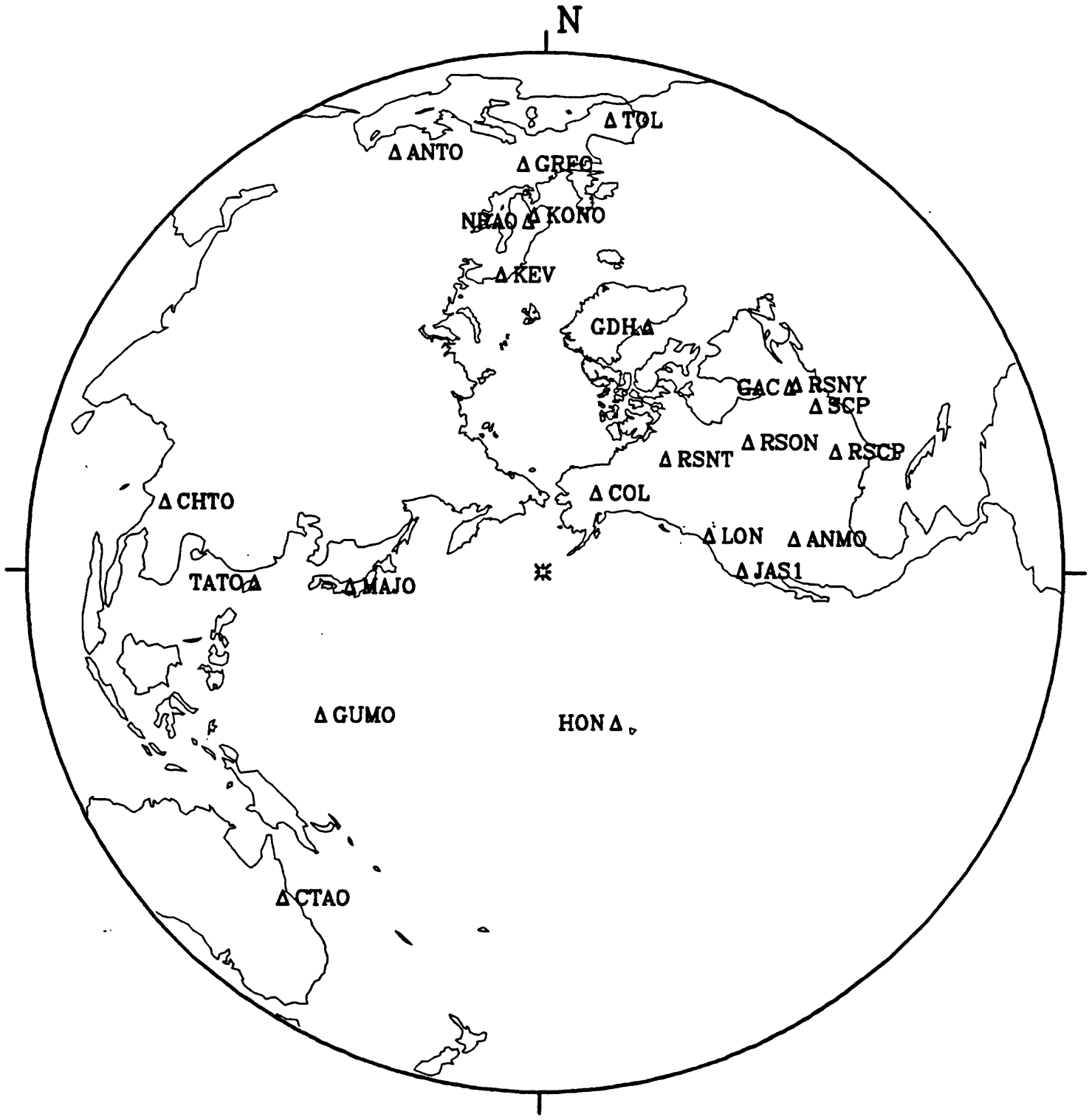

LPZ
17 January 1986 04:15:00.01
Near Coast of Peru h=50.2 m_b=5.6
LPZ
0
10
20
30
40
50
ZOBO
04:16:40.5
Δ= 11.4
2.0
-2.0
BDF
04:20:04.7
Δ= 30.1
2.0
-2.0
RSCP
04:22:22.9
Δ= 46.5
0.3
-0.3
SCP
04:22:59.0
Δ= 51.2
0.3
-0.3
ANMO
04:23:09.3
Δ= 52.6
0.2
-0.3
RSNY
04:23:27.4
Δ= 55.1
0.3
-0.3
GAC
04:23:35.4
Δ= 56.2
0.4
-0.4
JAS1
04:24:17.8
Δ= 62.3
0.6
-0.6
RSON
04:24:20.4
Δ= 62.7
0.3
-0.3
LON
04:25:01.2
Δ= 69.1
5.0
-5.0
0
10
20
30
40
50
Time (min)

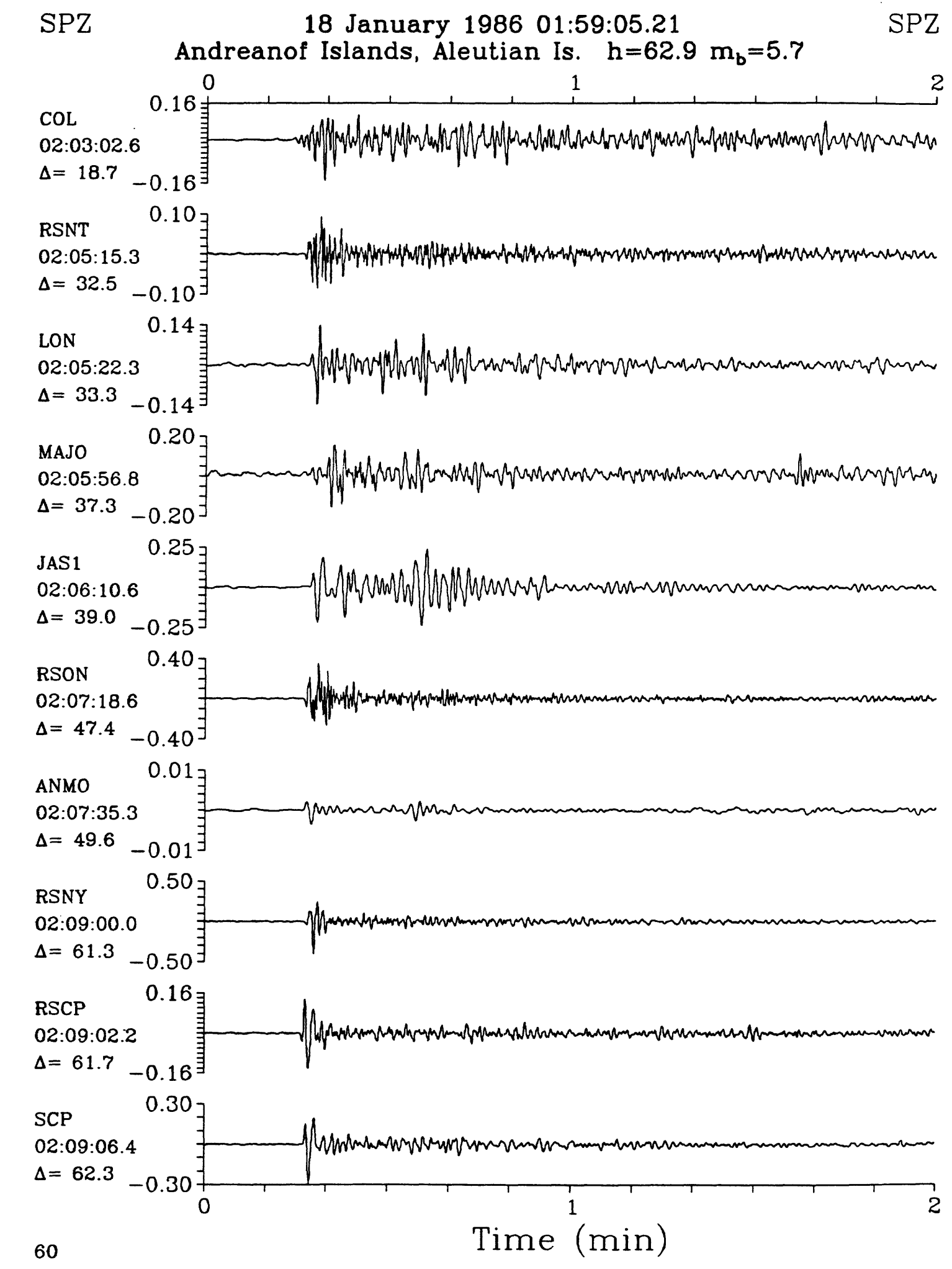

LPZ
17 January 1986 04:15:00.01
Near Coast of Peru h=50.2 m_b=5.6
LPZ
0
10
20
30
40
50
RSNT
04:25:54.4
Δ= 78.2
0.2
−0.3
GDH
04:26:13.1
Δ= 81.6
0.9
−0.9
HON
04:26:27.4
Δ= 84.4
0.4
−0.4
TOL
04:26:30.8
Δ= 85.0
2.0
−2.0
COL
04:27:00.3
Δ= 91.1
0.3
−0.3
BCAO
04:32:04.0
Δ= 97.6
0.5
−0.5
GRFO
04:32:04.3
Δ= 97.8
0.2
−0.3
KONO
04:32:04.9
Δ= 98.1
0.2
−0.2
NRAO
04:32:06.8
Δ= 99.2
0.2
−0.2
SLR
04:32:08.3
Δ=100.1
0.8
−0.8
0
10
20
30
40
50
Time (min)

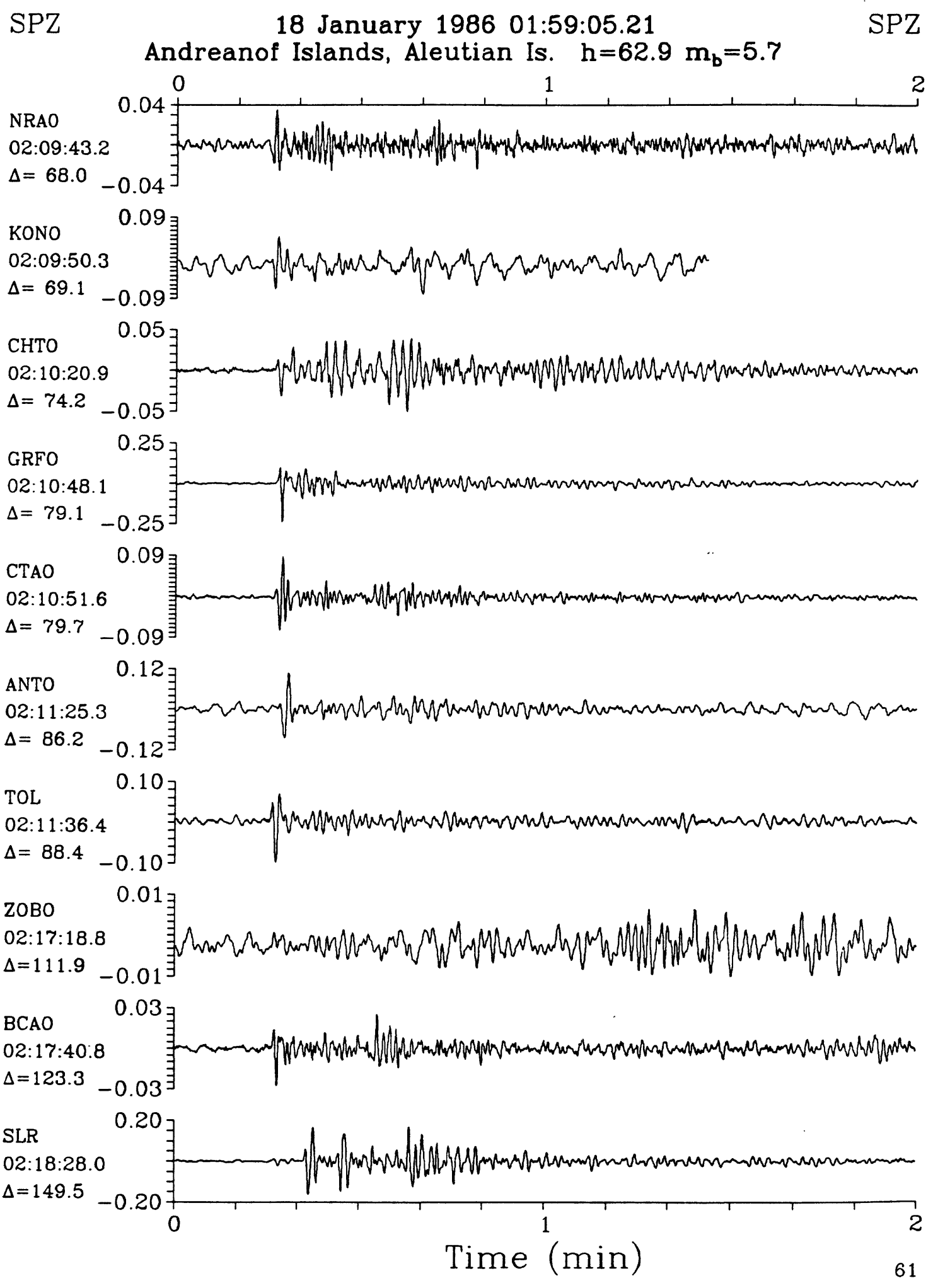

LPZ
17 January 1986 04:15:00.01
Near Coast of Peru h=50.2 m_b=5.6
LPZ
0
10
20
30
40
50
KEV
04:32:17.9
Δ=105.3
0.2
-0.2
ANTO
04:32:32.4
Δ=113.0
0.1
-0.1
CTAO
04:32:58.1
Δ=126.5
0.3
-0.3
NWAO
04:33:12.5
Δ=134.1
0.1
-0.1
GUMO
04:33:19.0
Δ=137.7
0.7
-0.7
MAJO
04:33:19.9
Δ=138.1
0.2
-0.3
TATO
04:33:49.4
Δ=156.4
2.0
-2.0
CHTO
04:34:03.3
Δ=171.6
0.2
-0.2
0
10
20
30
40
50
Time (min)

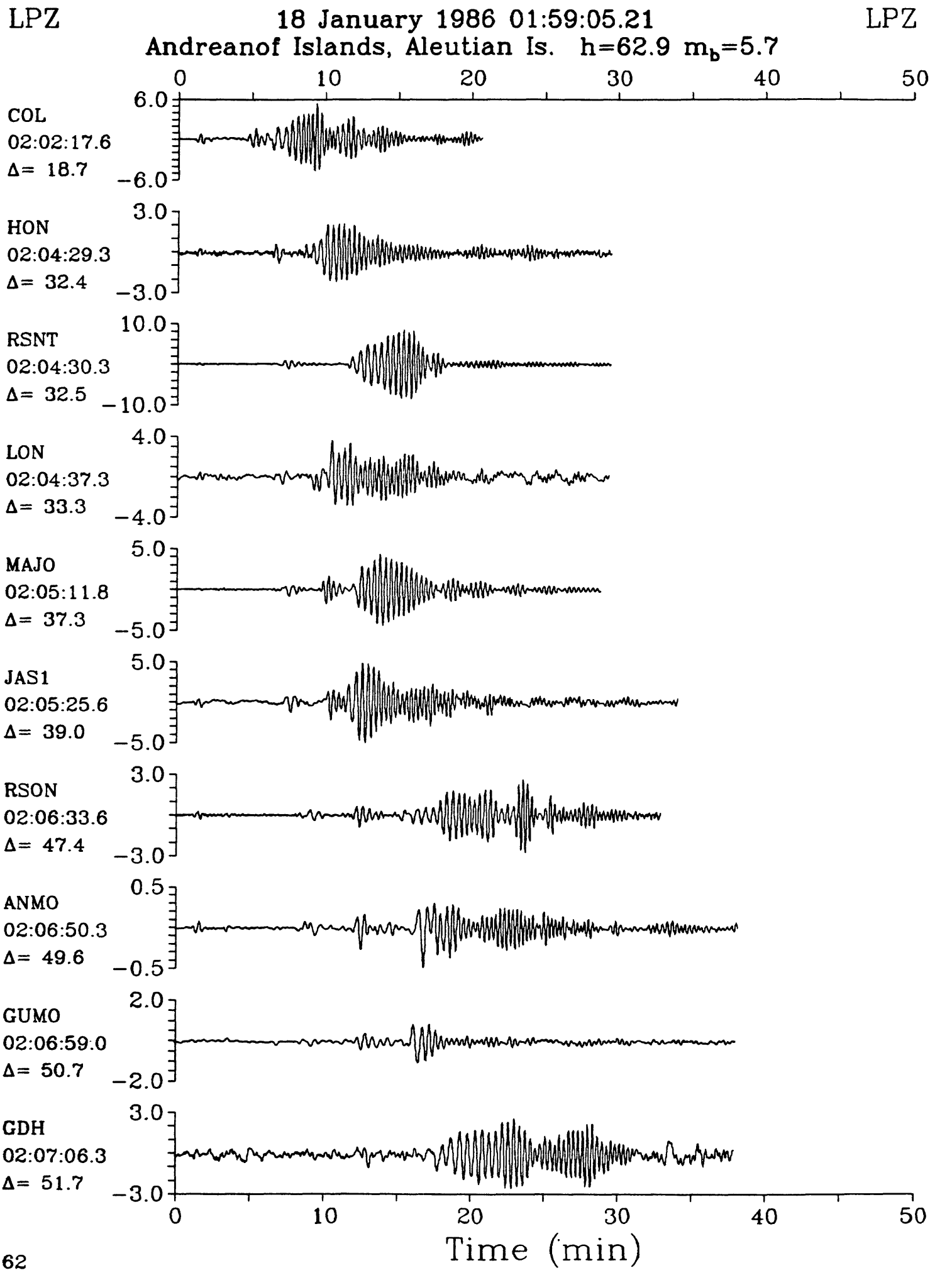
18 January 1986 01:59:05.21

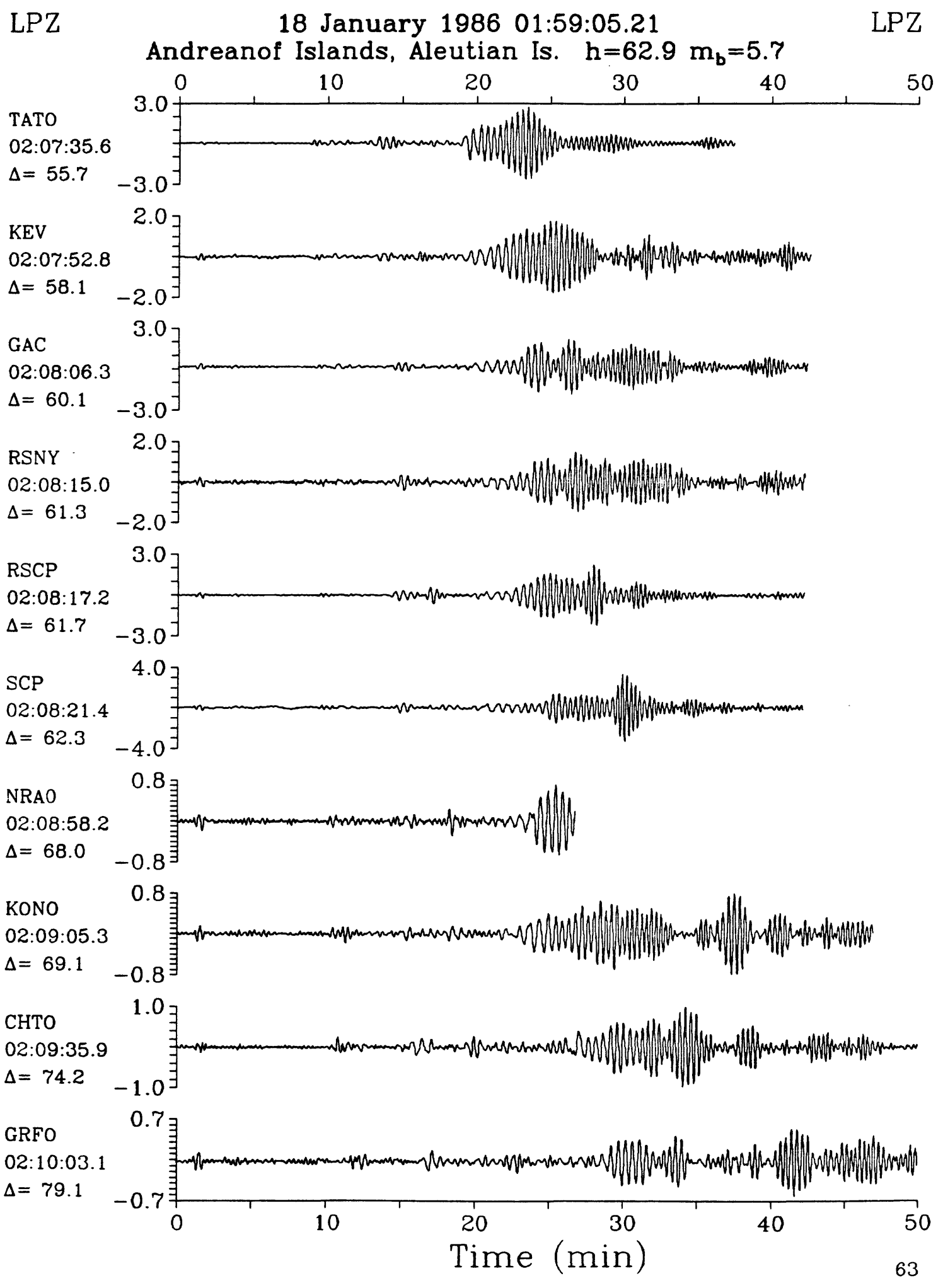
Andreanof Islands, Aleutian Is.

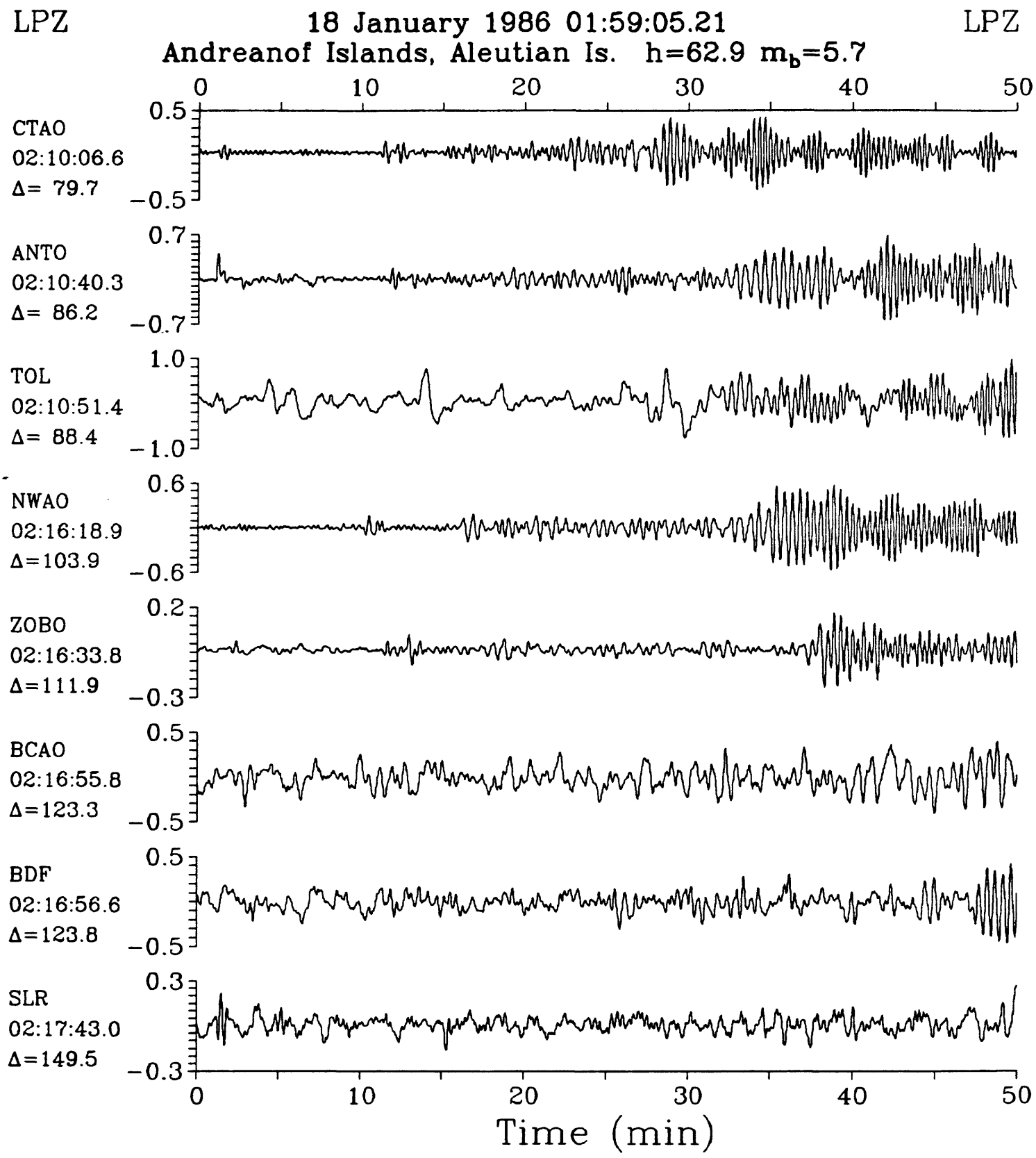



SPZ
18 January 1986 01:59:05.21
Andreanof Islands, Aleutian Is. h=62.9 m_b=5.7
SPZ
0
1
2
0.16
COL
02:03:02.6
Δ= 18.7
−0.16
0.10
RSNT
02:05:15.3
Δ= 32.5
−0.10
0.14
LON
02:05:22.3
Δ= 33.3
−0.14
0.20
MAJO
02:05:56.8
Δ= 37.3
−0.20
0.25
JAS1
02:06:10.6
Δ= 39.0
−0.25
0.40
RSON
02:07:18.6
Δ= 47.4
−0.40
0.01
ANMO
02:07:35.3
Δ= 49.6
−0.01
0.50
RSNY
02:09:00.0
Δ= 61.3
−0.50
0.16
RSCP
02:09:02.2
Δ= 61.7
−0.16
0.30
SCP
02:09:06.4
Δ= 62.3
−0.30
0
1
2
Time (min)


SPZ
18 January 1986 01:59:05.21
SPZ
Andreanof Islands, Aleutian Is. h=62.9 m_b=5.7
0
1
2
0.04
NRAO
02:09:43.2
Δ= 68.0
−0.04
0.09
KONO
02:09:50.3
Δ= 69.1
−0.09
0.05
CHTO
02:10:20.9
Δ= 74.2
−0.05
0.25
GRFO
02:10:48.1
Δ= 79.1
−0.25
0.09
CTAO
02:10:51.6
Δ= 79.7
−0.09
0.12
ANTO
02:11:25.3
Δ= 86.2
−0.12
0.10
TOL
02:11:36.4
Δ= 88.4
−0.10
0.01
ZOBO
02:17:18.8
Δ=111.9
−0.01
0.03
BCAO
02:17:40.8
Δ=123.3
−0.03
0.20
SLR
02:18:28.0
Δ=149.5
−0.20
0
1
2
Time (min)

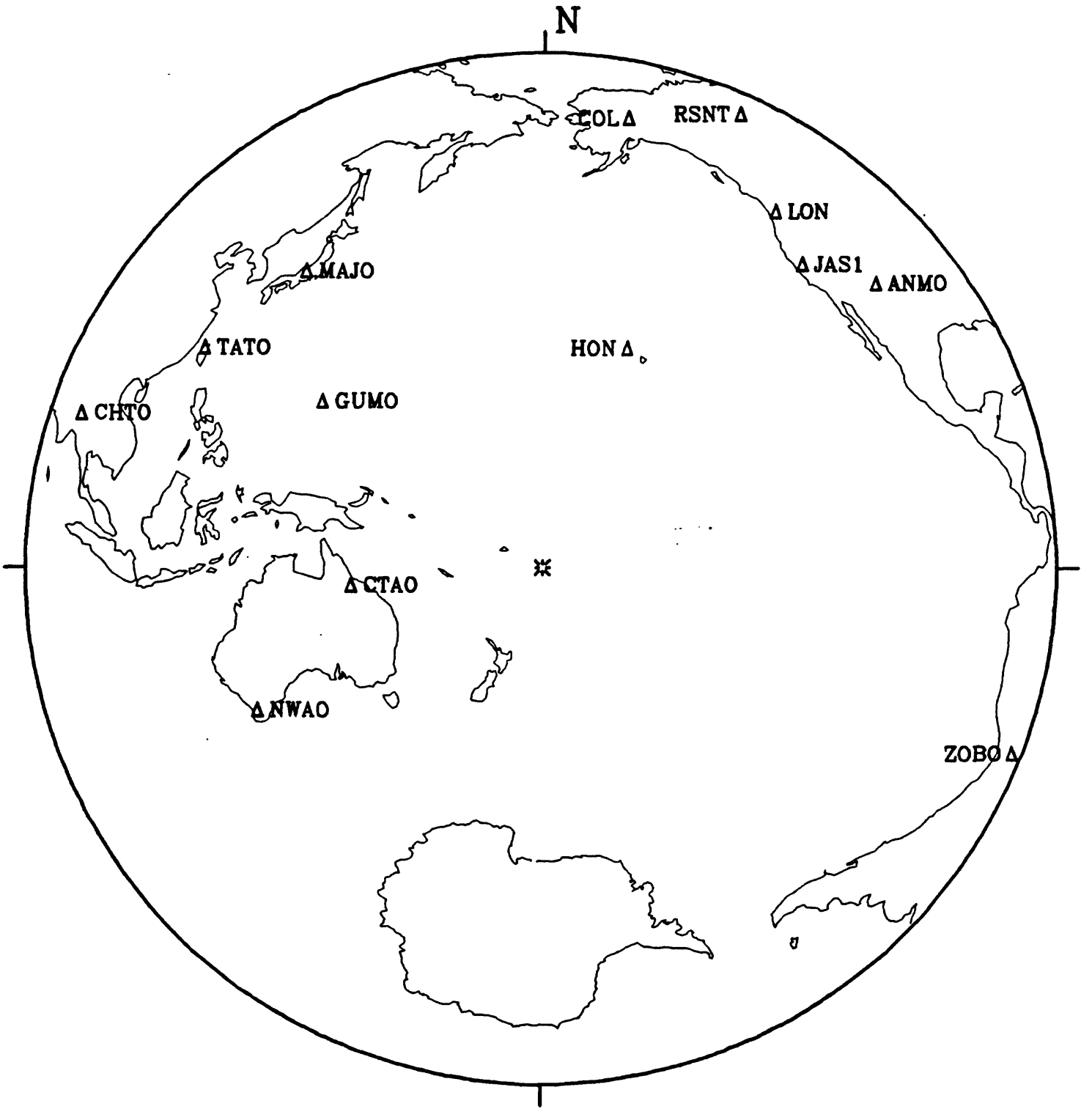

LPZ
18 January 1986 01:59:05.21
LPZ
Andreanof Islands, Aleutian Is. h=62.9 m_b=5.7
0
10
20
30
40
50
6.0
COL
02:02:17.6
Δ= 18.7
-6.0
3.0
HON
02:04:29.3
Δ= 32.4
-3.0
10.0
RSNT
02:04:30.3
Δ= 32.5
-10.0
4.0
LON
02:04:37.3
Δ= 33.3
-4.0
5.0
MAJO
02:05:11.8
Δ= 37.3
-5.0
5.0
JAS1
02:05:25.6
Δ= 39.0
-5.0
3.0
RSON
02:06:33.6
Δ= 47.4
-3.0
0.5
ANMO
02:06:50.3
Δ= 49.6
-0.5
2.0
GUMO
02:06:59.0
Δ= 50.7
-2.0
3.0
GDH
02:07:06.3
Δ= 51.7
-3.0
0
10
20
30
40
50
Time (min)

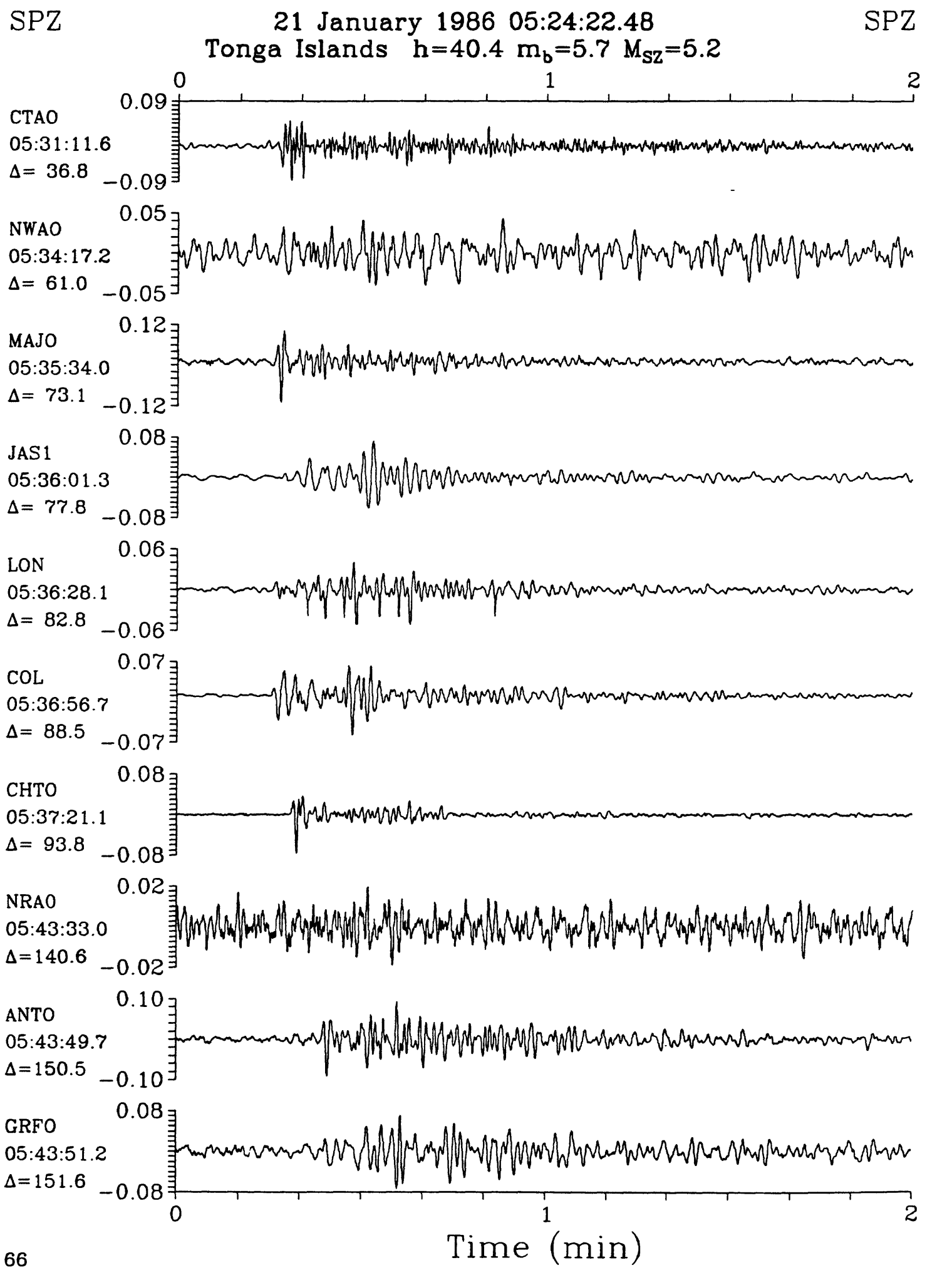

LPZ
18 January 1986 01:59:05.21
LPZ
Andreanof Islands, Aleutian Is. h=62.9 m_b=5.7
0
10
20
30
40
50
TATO
02:07:35.6
Δ= 55.7
3.0
-3.0
KEV
02:07:52.8
Δ= 58.1
2.0
-2.0
GAC
02:08:06.3
Δ= 60.1
3.0
-3.0
RSNY
02:08:15.0
Δ= 61.3
2.0
-2.0
RSCP
02:08:17.2
Δ= 61.7
3.0
-3.0
SCP
02:08:21.4
Δ= 62.3
4.0
-4.0
NRAO
02:08:58.2
Δ= 68.0
0.8
-0.8
KONO
02:09:05.3
Δ= 69.1
0.8
-0.8
CHTO
02:09:35.9
Δ= 74.2
1.0
-1.0
GRFO
02:10:03.1
Δ= 79.1
0.7
-0.7
0
10
20
30
40
50
Time (min)


LPZ
18 January 1986 01:59:05.21
LPZ
Andreanof Islands, Aleutian Is. h=62.9 m_b=5.7
0
10
20
30
40
50
0.5
CTAO
02:10:06.6
Δ= 79.7
−0.5
0.7
ANTO
02:10:40.3
Δ= 86.2
−0.7
1.0
TOL
02:10:51.4
Δ= 88.4
−1.0
0.6
NWAO
02:16:18.9
Δ=103.9
−0.6
0.2
ZOBO
02:16:33.8
Δ=111.9
−0.3
0.5
BCAO
02:16:55.8
Δ=123.3
−0.5
0.5
BDF
02:16:56.6
Δ=123.8
−0.5
0.3
SLR
02:17:43.0
Δ=149.5
−0.3
0
10
20
30
40
50
Time (min)

21 January 1986 05:24:22.48

Tonga Islands



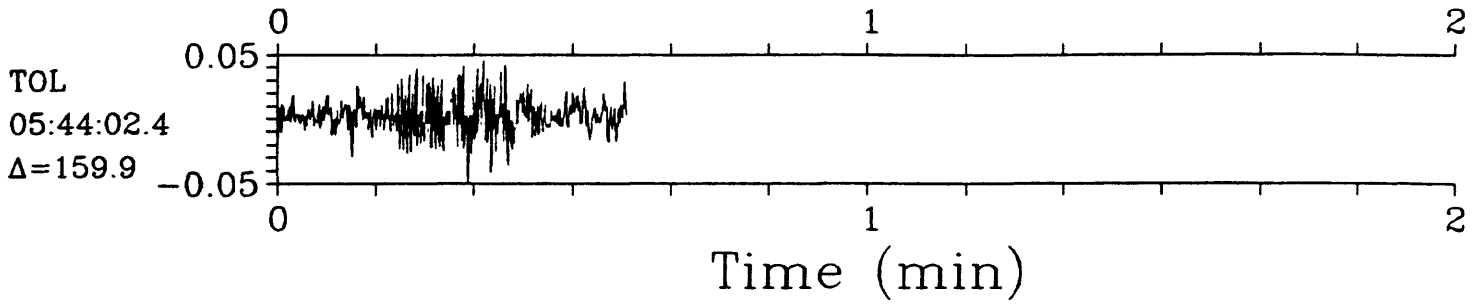

SPZ
21 January 1986 05:24:22.48
Tonga Islands h=40.4 m_b=5.7 M_{SZ}=5.2
SPZ
0
1
2
0.09
CTAO
05:31:11.6
Δ= 36.8
−0.09
0.05
NWAO
05:34:17.2
Δ= 61.0
−0.05
0.12
MAJO
05:35:34.0
Δ= 73.1
−0.12
0.08
JAS1
05:36:01.3
Δ= 77.8
−0.08
0.06
LON
05:36:28.1
Δ= 82.8
−0.06
0.07
COL
05:36:56.7
Δ= 88.5
−0.07
0.08
CHTO
05:37:21.1
Δ= 93.8
−0.08
0.02
NRAO
05:43:33.0
Δ=140.6
−0.02
0.10
ANTO
05:43:49.7
Δ=150.5
−0.10
0.08
GRFO
05:43:51.2
Δ=151.6
−0.08
0
1
2
Time (min)

SPZ

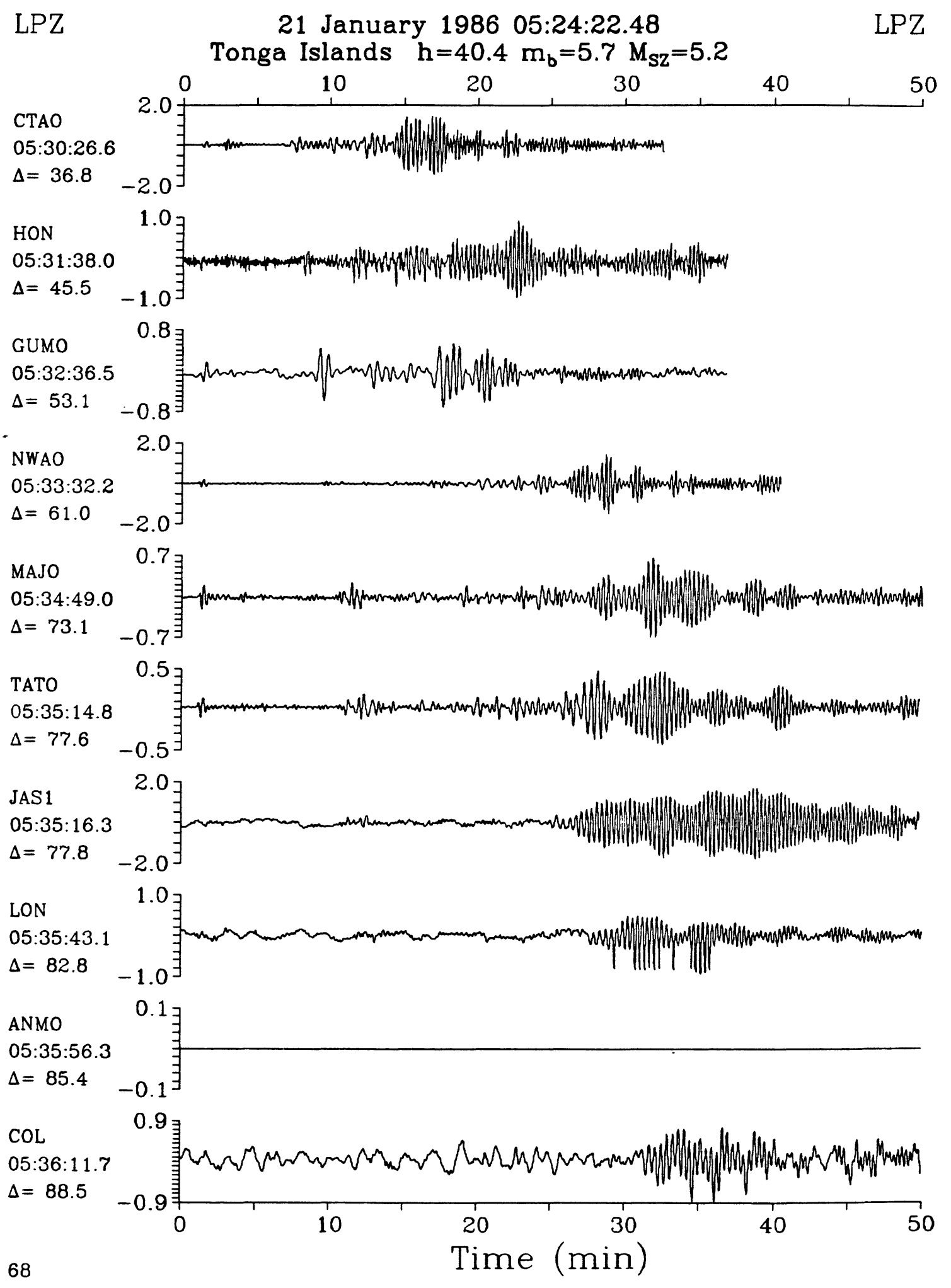
21 January 1986 05:24:22.48

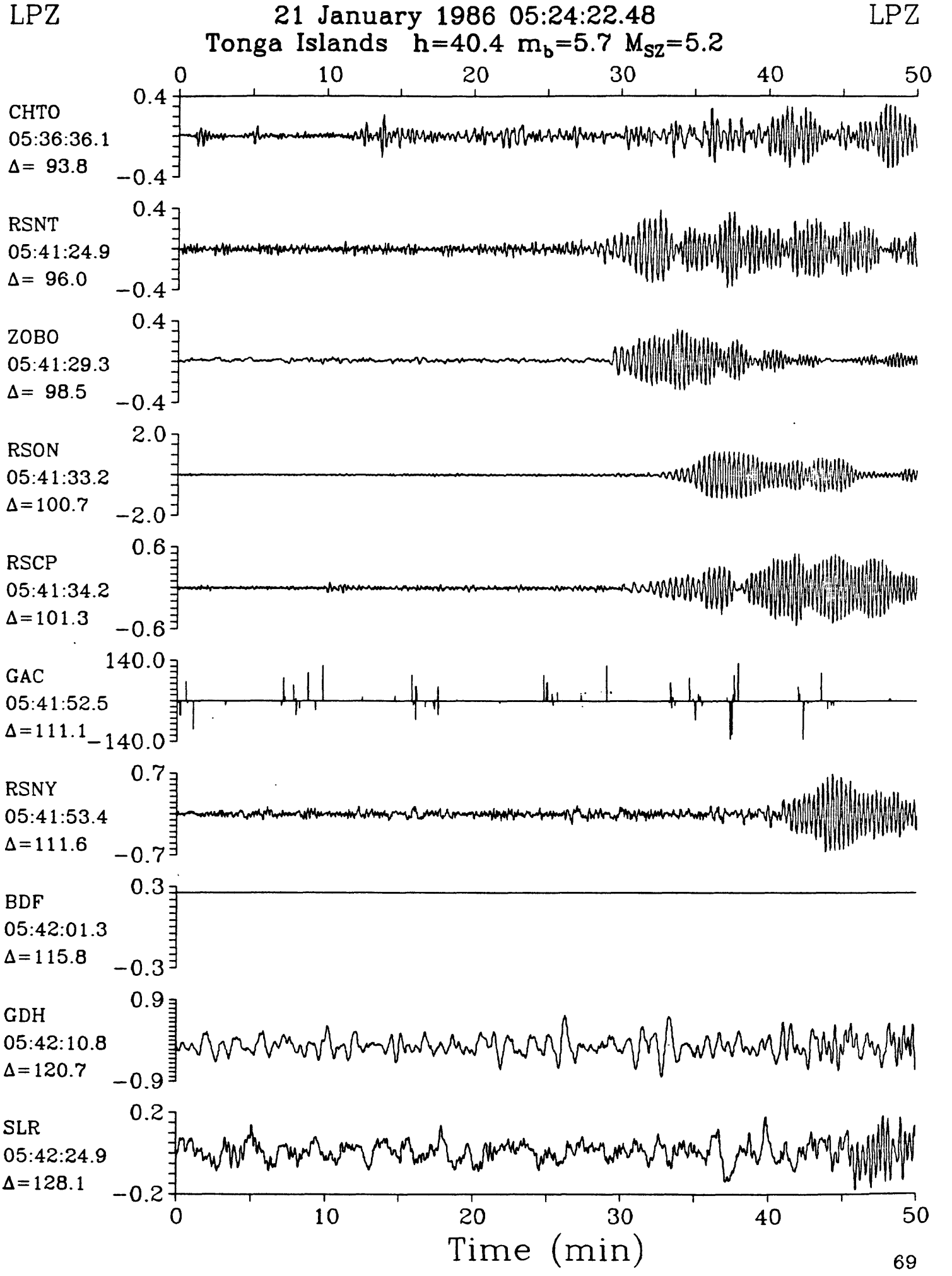
Tonga Islands h=40.4 m_b=5.7 M_{SZ}=5.2

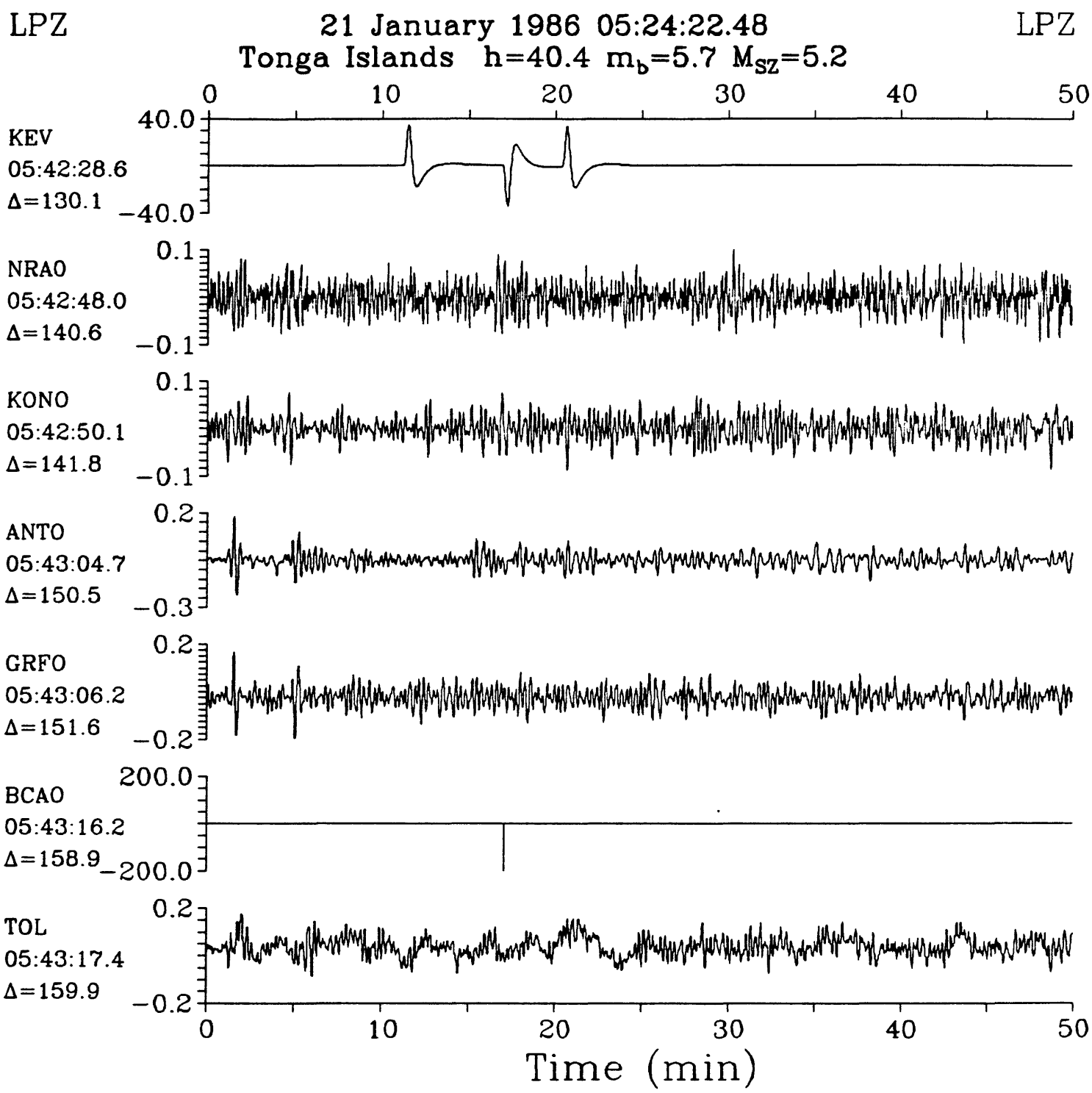
SPZ



Time (min)

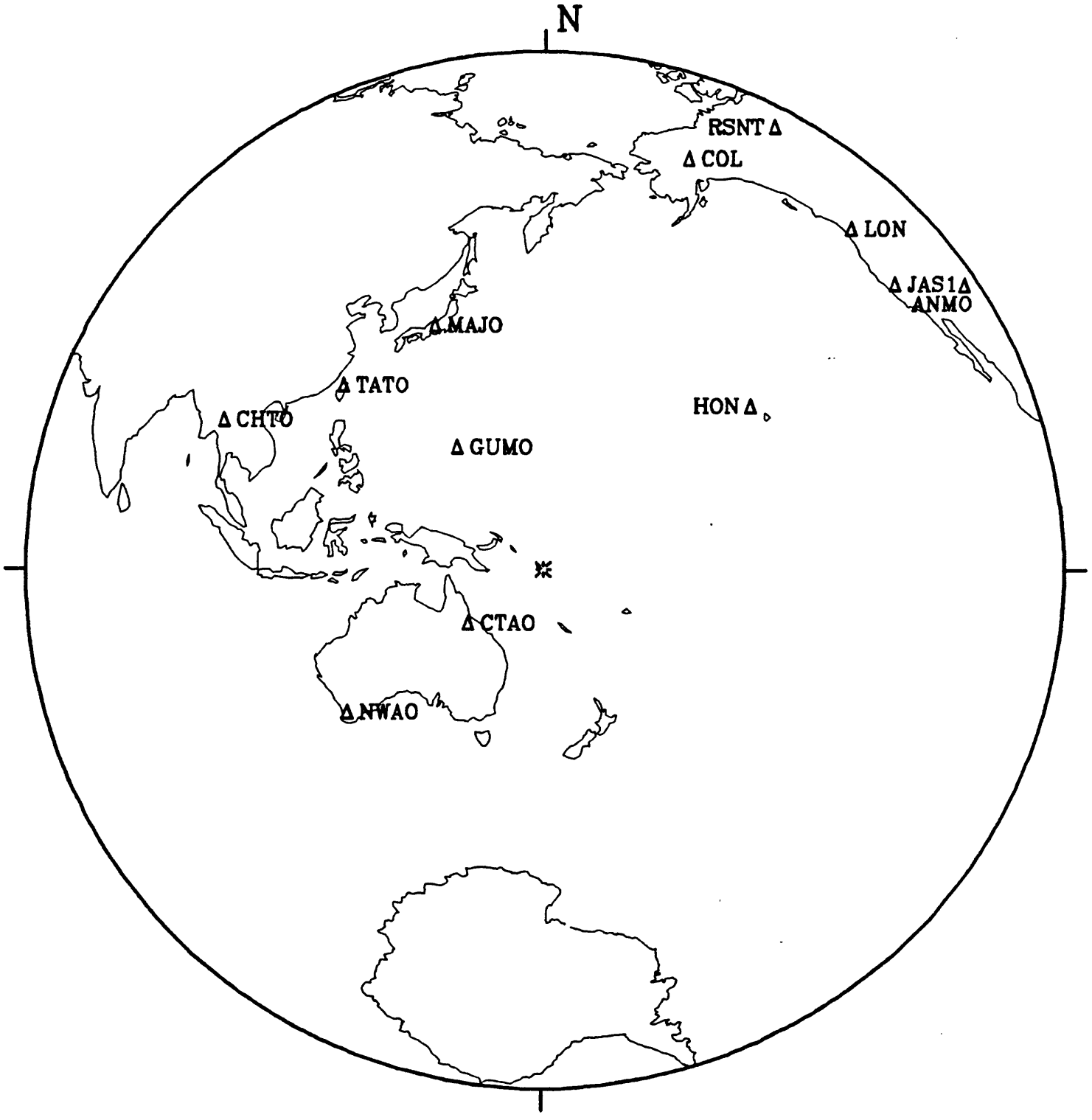

LPZ
21 January 1986 05:24:22.48
Tonga Islands h=40.4 m_b=5.7 M_{SZ}=5.2
LPZ
0
10
20
30
40
50
CTAO
05:30:26.6
Δ= 36.8
2.0
-2.0
HON
05:31:38.0
Δ= 45.5
1.0
-1.0
GUMO
05:32:36.5
Δ= 53.1
0.8
-0.8
NWAO
05:33:32.2
Δ= 61.0
2.0
-2.0
MAJO
05:34:49.0
Δ= 73.1
0.7
-0.7
TATO
05:35:14.8
Δ= 77.6
0.5
-0.5
JAS1
05:35:16.3
Δ= 77.8
2.0
-2.0
LON
05:35:43.1
Δ= 82.8
1.0
-1.0
ANMO
05:35:56.3
Δ= 85.4
0.1
-0.1
COL
05:36:11.7
Δ= 88.5
0.9
-0.9
0
10
20
30
40
50
Time (min)

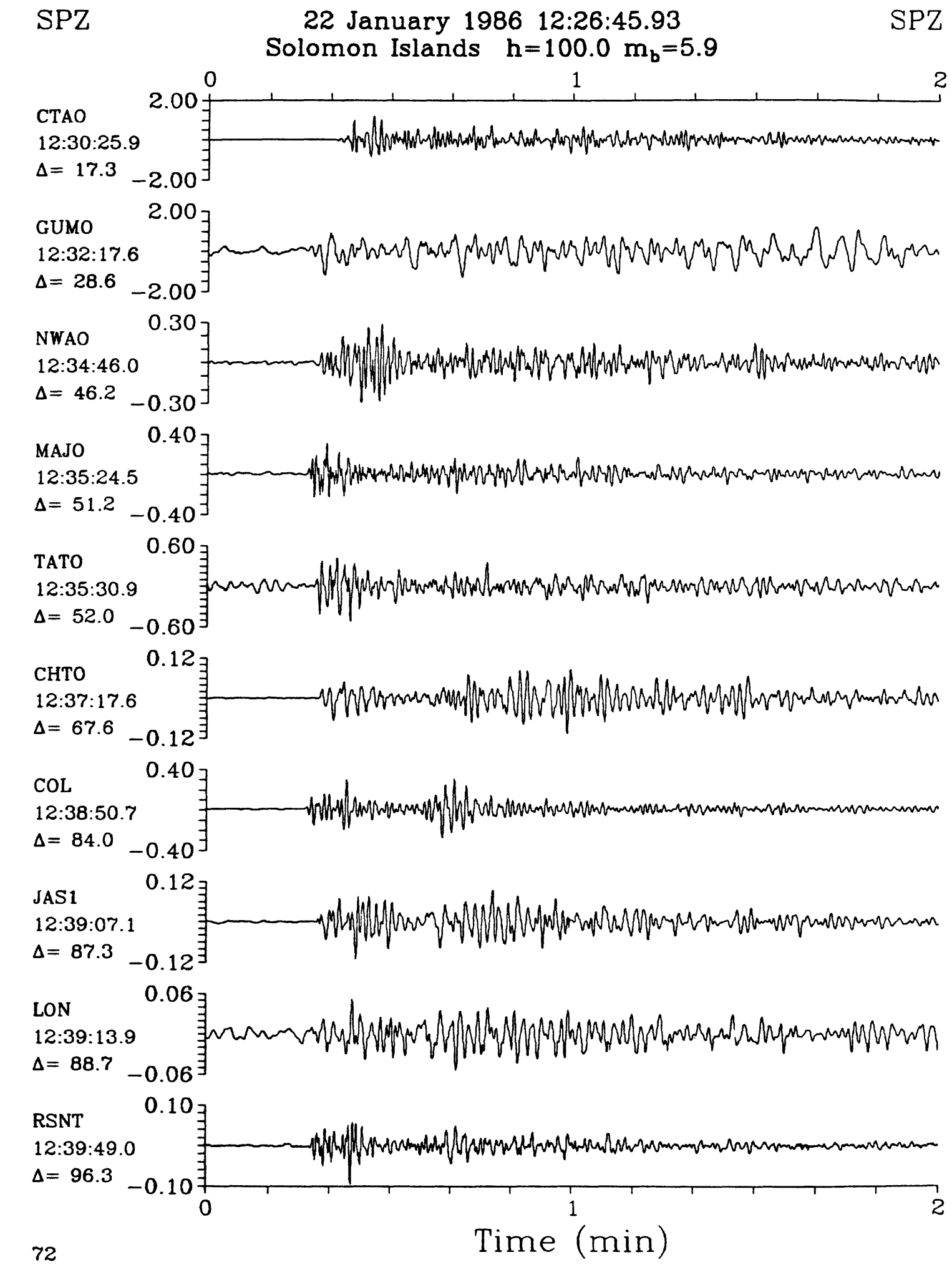

LPZ
21 January 1986 05:24:22.48
Tonga Islands h=40.4 m_b=5.7 M_{SZ}=5.2
LPZ
0
10
20
30
40
50
CHTO
05:36:36.1
Δ= 93.8
0.4
-0.4
RSNT
05:41:24.9
Δ= 96.0
0.4
-0.4
ZOBO
05:41:29.3
Δ= 98.5
0.4
-0.4
RSON
05:41:33.2
Δ=100.7
2.0
-2.0
RSCP
05:41:34.2
Δ=101.3
0.6
-0.6
GAC
05:41:52.5
Δ=111.1
140.0
-140.0
RSNY
05:41:53.4
Δ=111.6
0.7
-0.7
BDF
05:42:01.3
Δ=115.8
0.3
-0.3
GDH
05:42:10.8
Δ=120.7
0.9
-0.9
SLR
05:42:24.9
Δ=128.1
0.2
-0.2
0
10
20
30
40
50
Time (min)

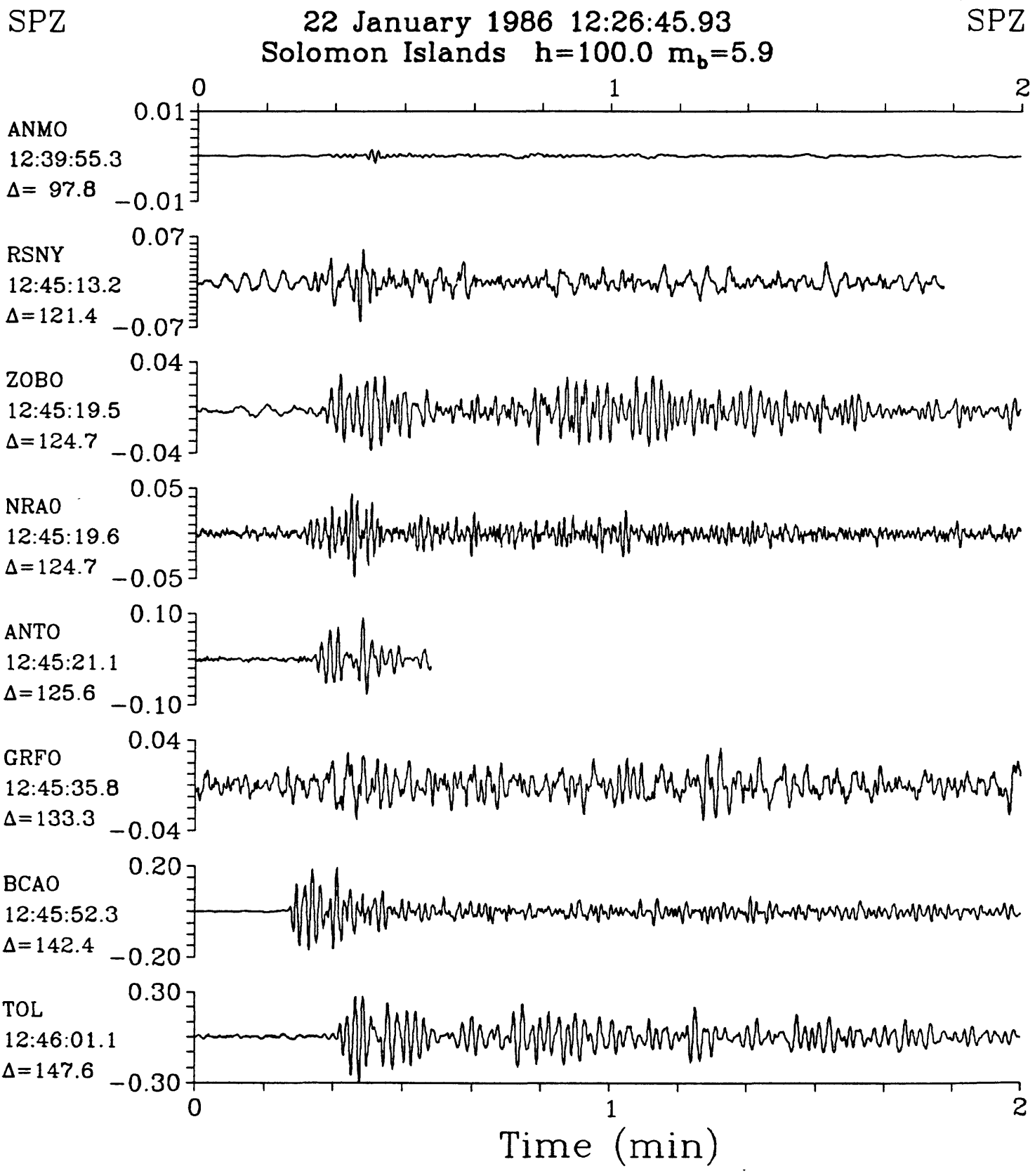

LPZ
21 January 1986 05:24:22.48
Tonga Islands h=40.4 m_b=5.7 M_{SZ}=5.2
LPZ
0
10
20
30
40
50
KEV
05:42:28.6
Δ=130.1
40.0
-40.0
NRAO
05:42:48.0
Δ=140.6
0.1
-0.1
KONO
05:42:50.1
Δ=141.8
0.1
-0.1
ANTO
05:43:04.7
Δ=150.5
0.2
-0.3
GRFO
05:43:06.2
Δ=151.6
0.2
-0.2
BCAO
05:43:16.2
Δ=158.9
200.0
-200.0
TOL
05:43:17.4
Δ=159.9
0.2
-0.2
0
10
20
30
40
50
Time (min)

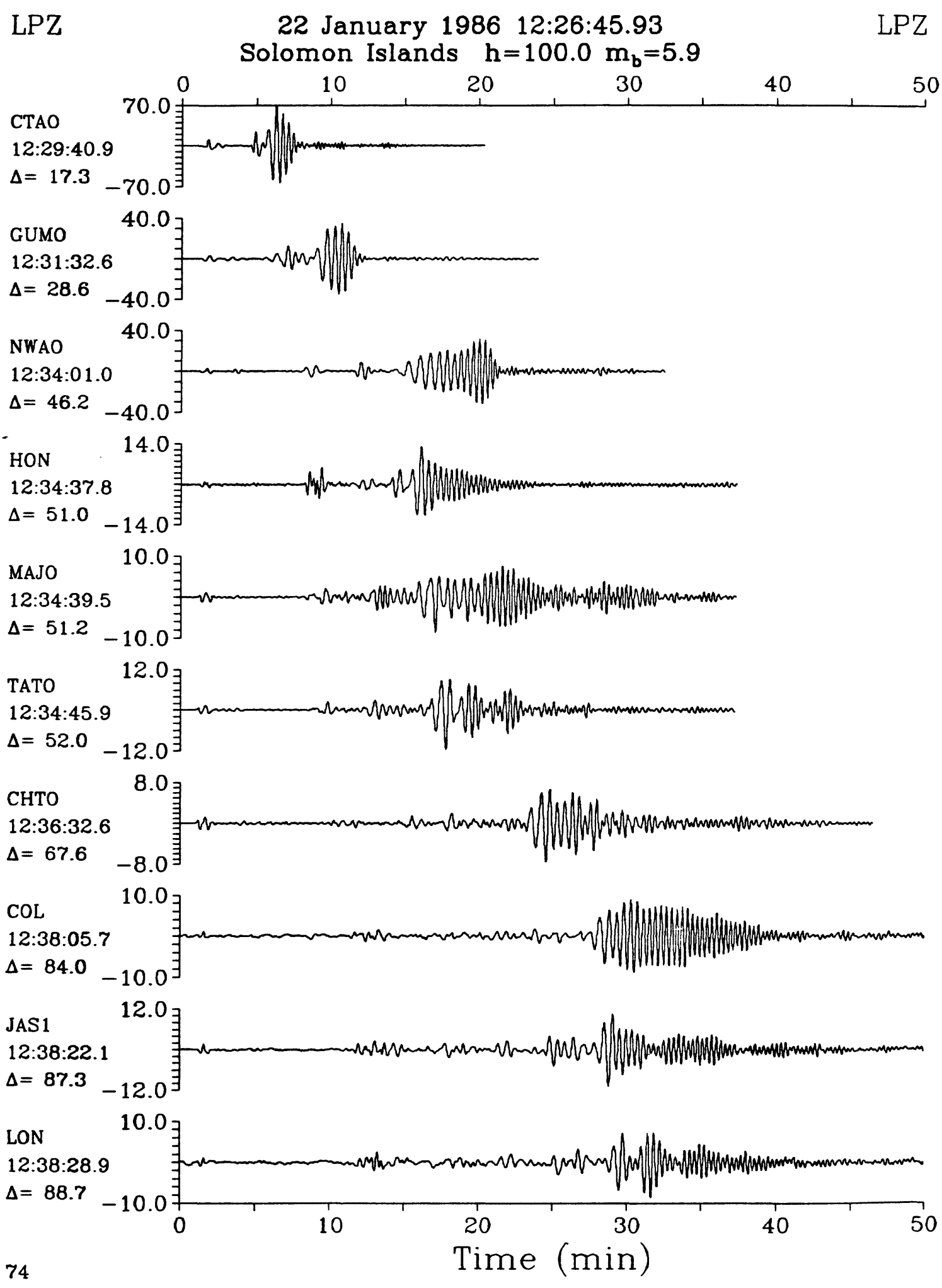
22 January 1986 12:26:45.93

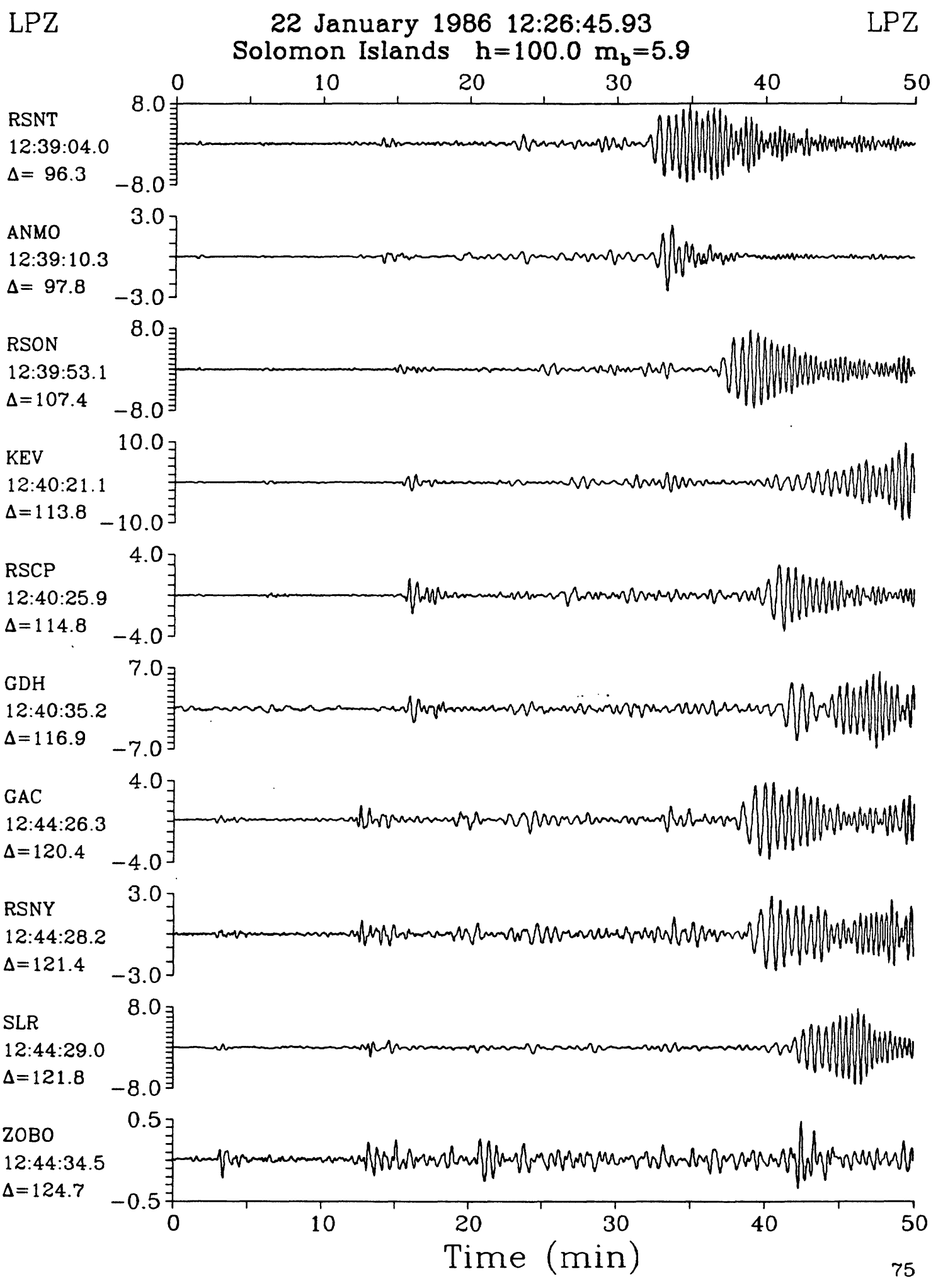
Solomon Islands

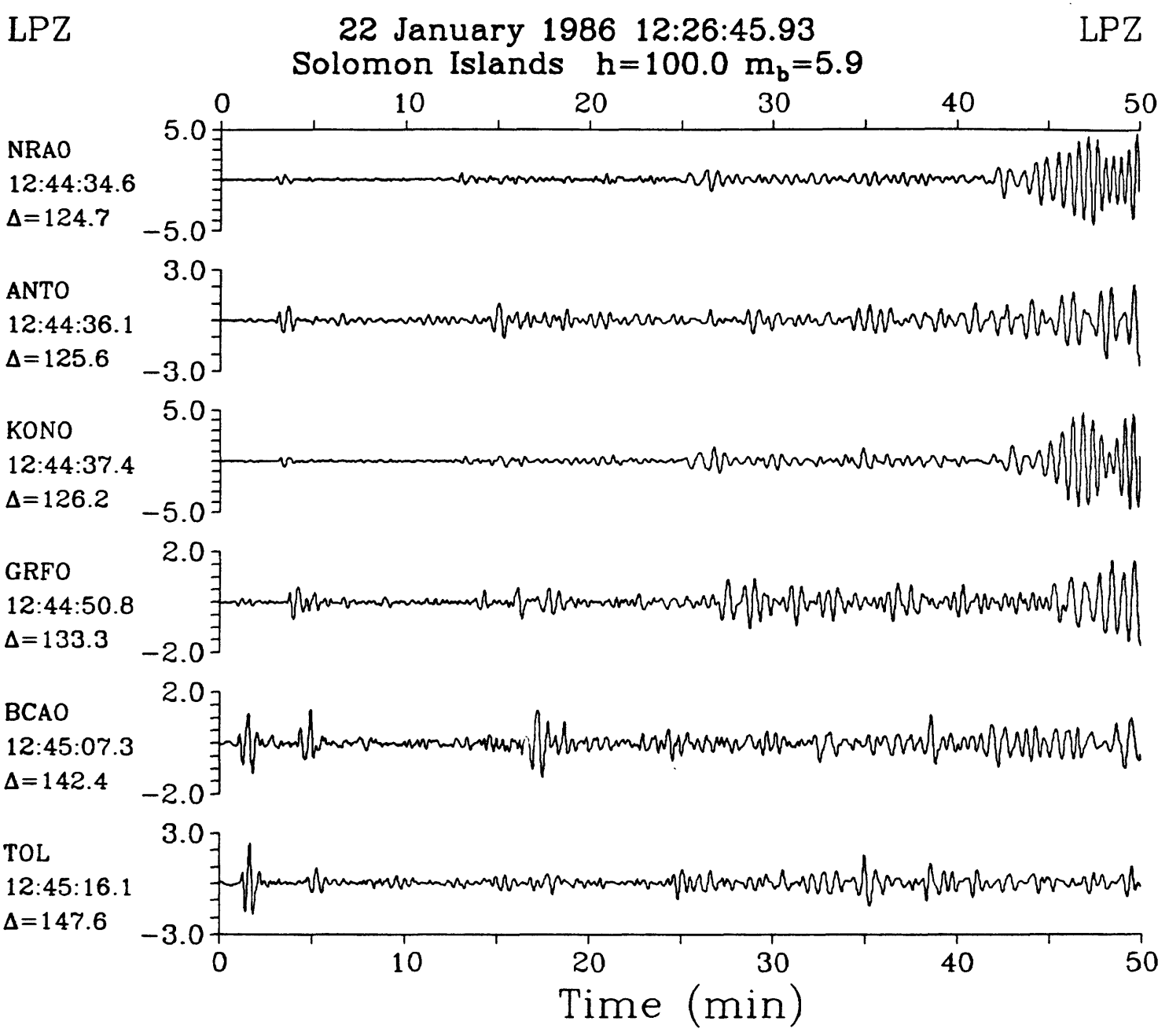


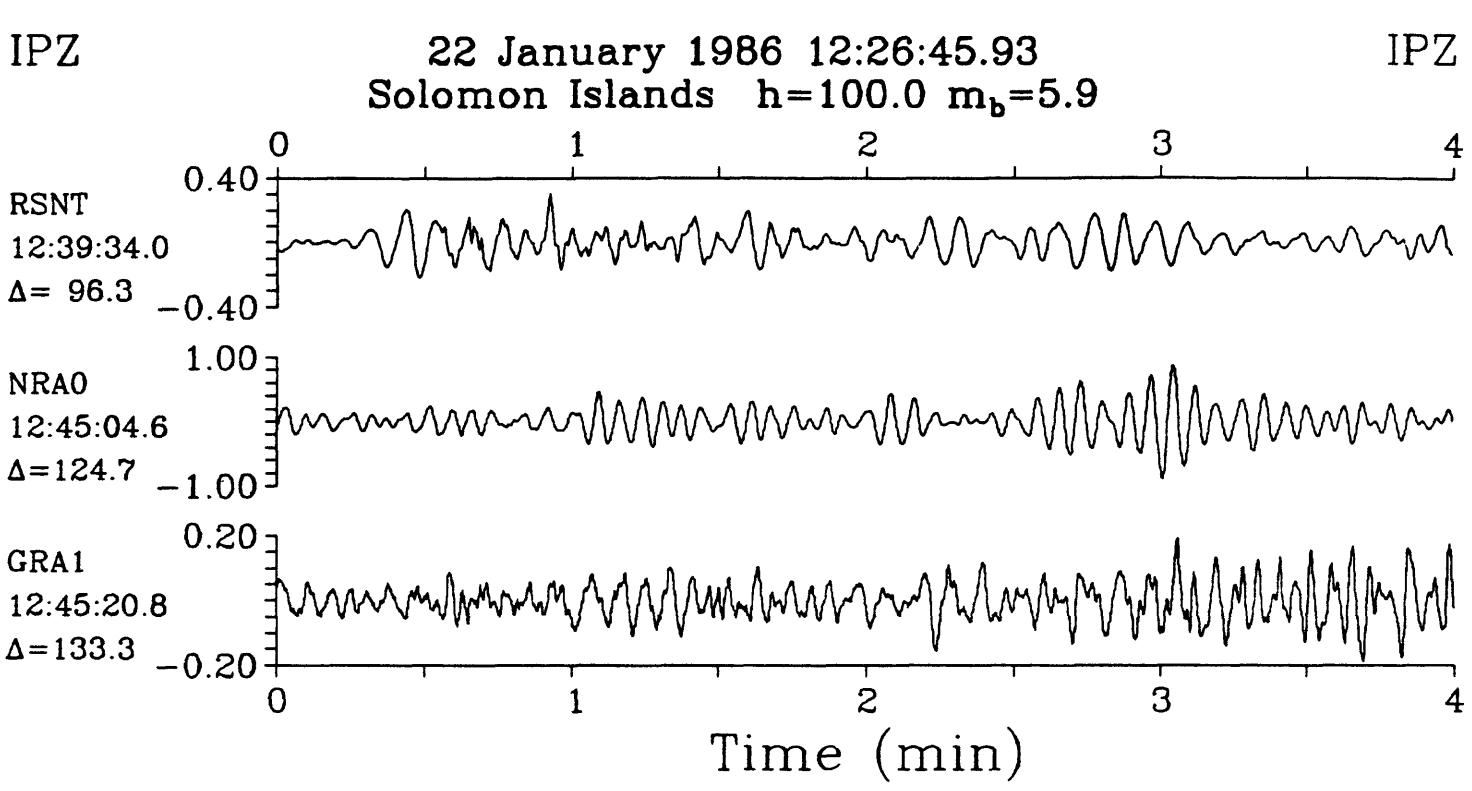

SPZ
22 January 1986 12:26:45.93
Solomon Islands h=100.0 m_b=5.9
SPZ
0
1
2
CTAO
12:30:25.9
Δ= 17.3
2.00
-2.00
GUMO
12:32:17.6
Δ= 28.6
2.00
-2.00
NWAO
12:34:46.0
Δ= 46.2
0.30
-0.30
MAJO
12:35:24.5
Δ= 51.2
0.40
-0.40
TATO
12:35:30.9
Δ= 52.0
0.60
-0.60
CHTO
12:37:17.6
Δ= 67.6
0.12
-0.12
COL
12:38:50.7
Δ= 84.0
0.40
-0.40
JAS1
12:39:07.1
Δ= 87.3
0.12
-0.12
LON
12:39:13.9
Δ= 88.7
0.06
-0.06
RSNT
12:39:49.0
Δ= 96.3
0.10
-0.10
0
1
2
Time (min)


SPZ
22 January 1986 12:26:45.93
Solomon Islands h=100.0 m_b=5.9
SPZ
0
1
2
0.01
ANMO
12:39:55.3
Δ= 97.8
−0.01
0.07
RSNY
12:45:13.2
Δ=121.4
−0.07
0.04
ZOBO
12:45:19.5
Δ=124.7
−0.04
0.05
NRAO
12:45:19.6
Δ=124.7
−0.05
0.10
ANTO
12:45:21.1
Δ=125.6
−0.10
0.04
GRFO
12:45:35.8
Δ=133.3
−0.04
0.20
BCAO
12:45:52.3
Δ=142.4
−0.20
0.30
TOL
12:46:01.1
Δ=147.6
−0.30
0
1
2
Time (min)


LPZ
22 January 1986 12:26:45.93
Solomon Islands h=100.0 m_b=5.9
LPZ
0
10
20
30
40
50
CTAO
12:29:40.9
Δ= 17.3
70.0
-70.0
GUMO
12:31:32.6
Δ= 28.6
40.0
-40.0
NWAO
12:34:01.0
Δ= 46.2
40.0
-40.0
HON
12:34:37.8
Δ= 51.0
14.0
-14.0
MAJO
12:34:39.5
Δ= 51.2
10.0
-10.0
TATO
12:34:45.9
Δ= 52.0
12.0
-12.0
CHTO
12:36:32.6
Δ= 67.6
8.0
-8.0
COL
12:38:05.7
Δ= 84.0
10.0
-10.0
JAS1
12:38:22.1
Δ= 87.3
12.0
-12.0
LON
12:38:28.9
Δ= 88.7
10.0
-10.0
0
10
20
30
40
50
Time (min)

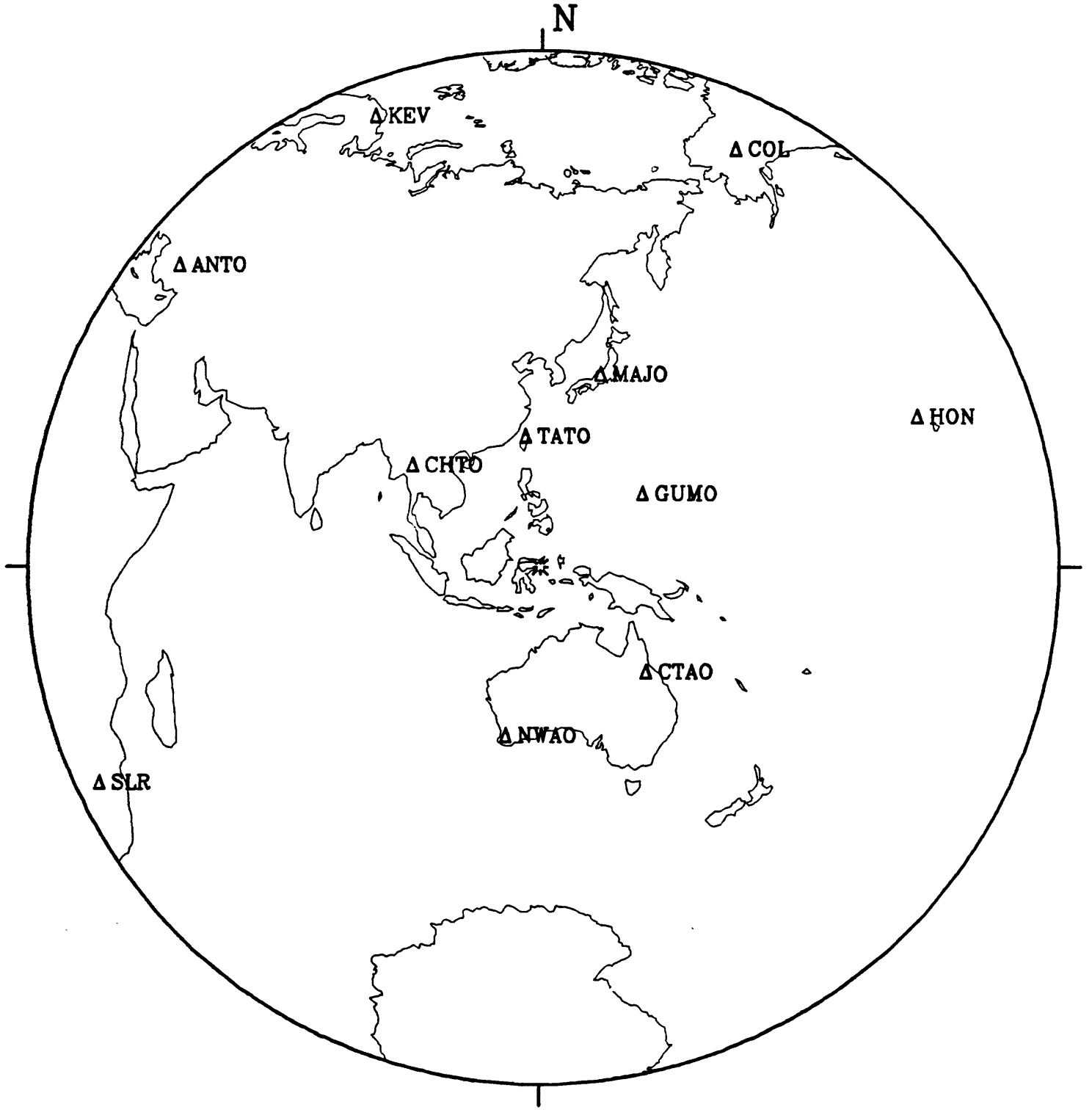

LPZ
22 January 1986 12:26:45.93
Solomon Islands h=100.0 m_b=5.9
LPZ
0
10
20
30
40
50
RSNT
12:39:04.0
Δ= 96.3
8.0
-8.0
ANMO
12:39:10.3
Δ= 97.8
3.0
-3.0
RSON
12:39:53.1
Δ=107.4
8.0
-8.0
KEV
12:40:21.1
Δ=113.8
10.0
-10.0
RSCP
12:40:25.9
Δ=114.8
4.0
-4.0
GDH
12:40:35.2
Δ=116.9
7.0
-7.0
GAC
12:44:26.3
Δ=120.4
4.0
-4.0
RSNY
12:44:28.2
Δ=121.4
3.0
-3.0
SLR
12:44:29.0
Δ=121.8
8.0
-8.0
ZOBO
12:44:34.5
Δ=124.7
0.5
-0.5
0
10
20
30
40
50
Time (min)


LPZ
22 January 1986 12:26:45.93
Solomon Islands h=100.0 m_b=5.9
LPZ
0
10
20
30
40
50
NRAO
12:44:34.6
Δ=124.7
5.0
-5.0
ANTO
12:44:36.1
Δ=125.6
3.0
-3.0
KONO
12:44:37.4
Δ=126.2
5.0
-5.0
GRFO
12:44:50.8
Δ=133.3
2.0
-2.0
BCAO
12:45:07.3
Δ=142.4
2.0
-2.0
TOL
12:45:16.1
Δ=147.6
3.0
-3.0
Time (min)


IPZ
22 January 1986 12:26:45.93
Solomon Islands h=100.0 m_b=5.9
IPZ
RSNT
12:39:34.0
Δ= 96.3
NRA0
12:45:04.6
Δ=124.7
GRA1
12:45:20.8
Δ=133.3
0.40
-0.40
1.00
-1.00
0.20
-0.20
0
1
2
3
4
Time (min)

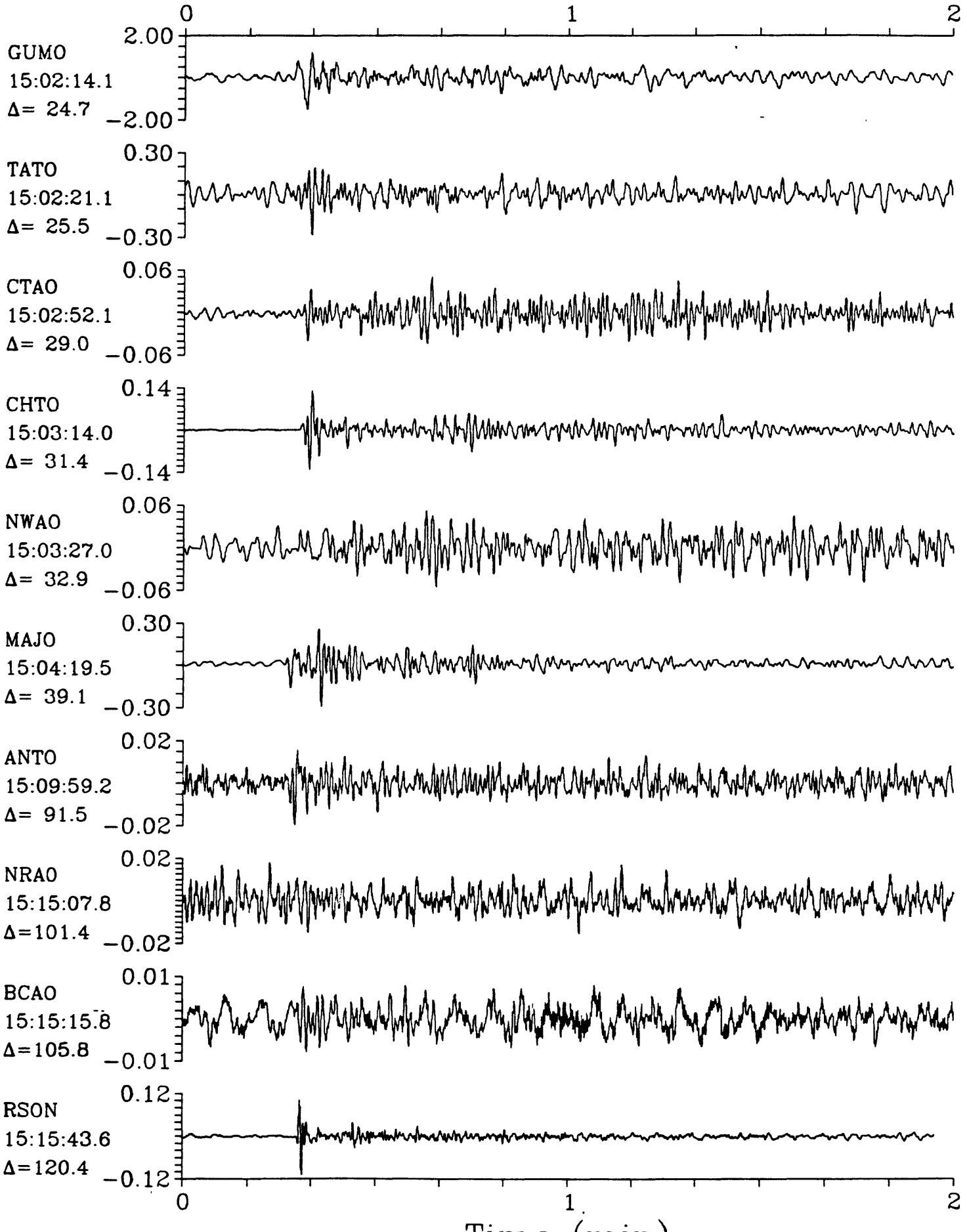
22 January 1986 14:57:12.95

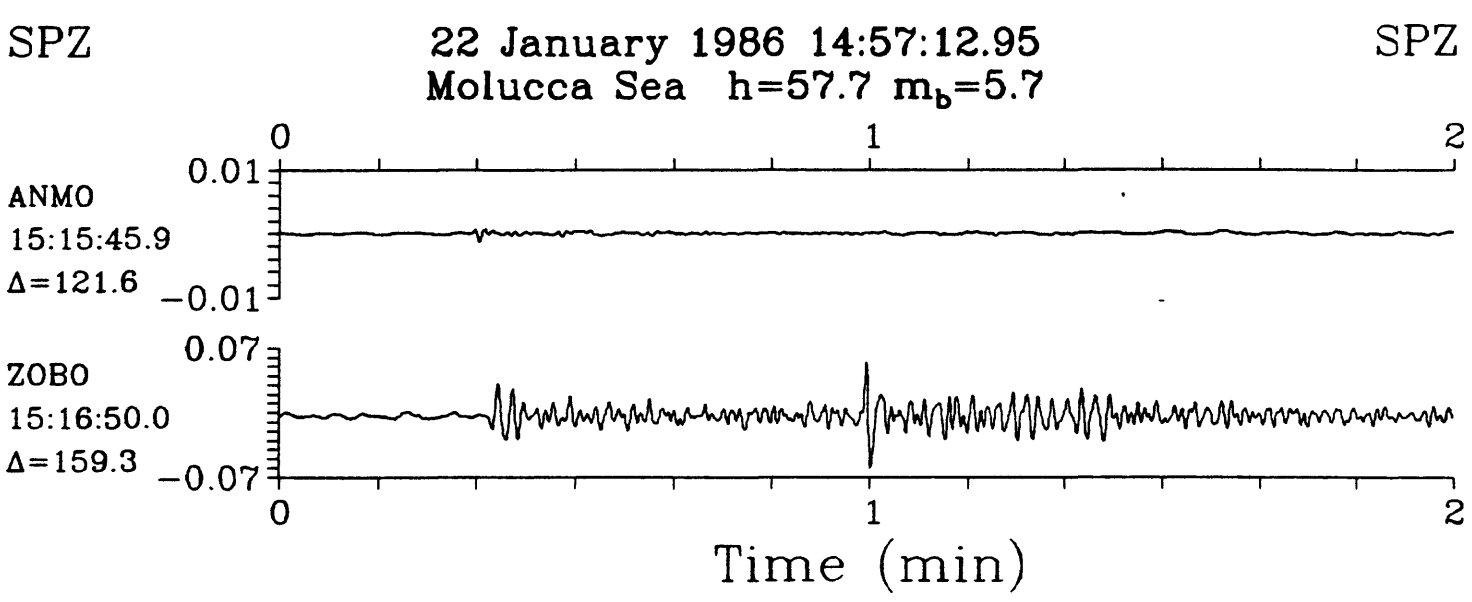
Molucca Sea

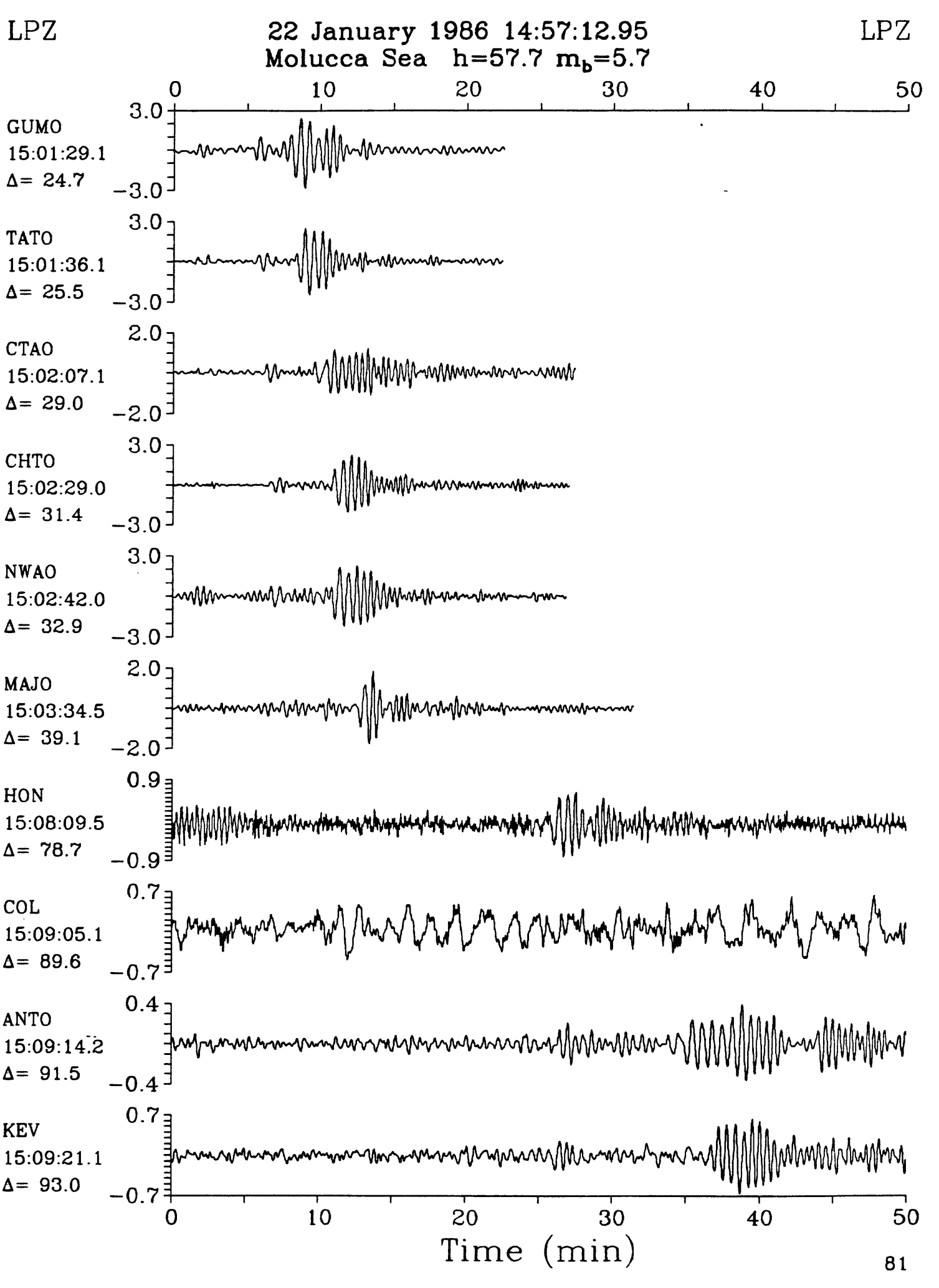


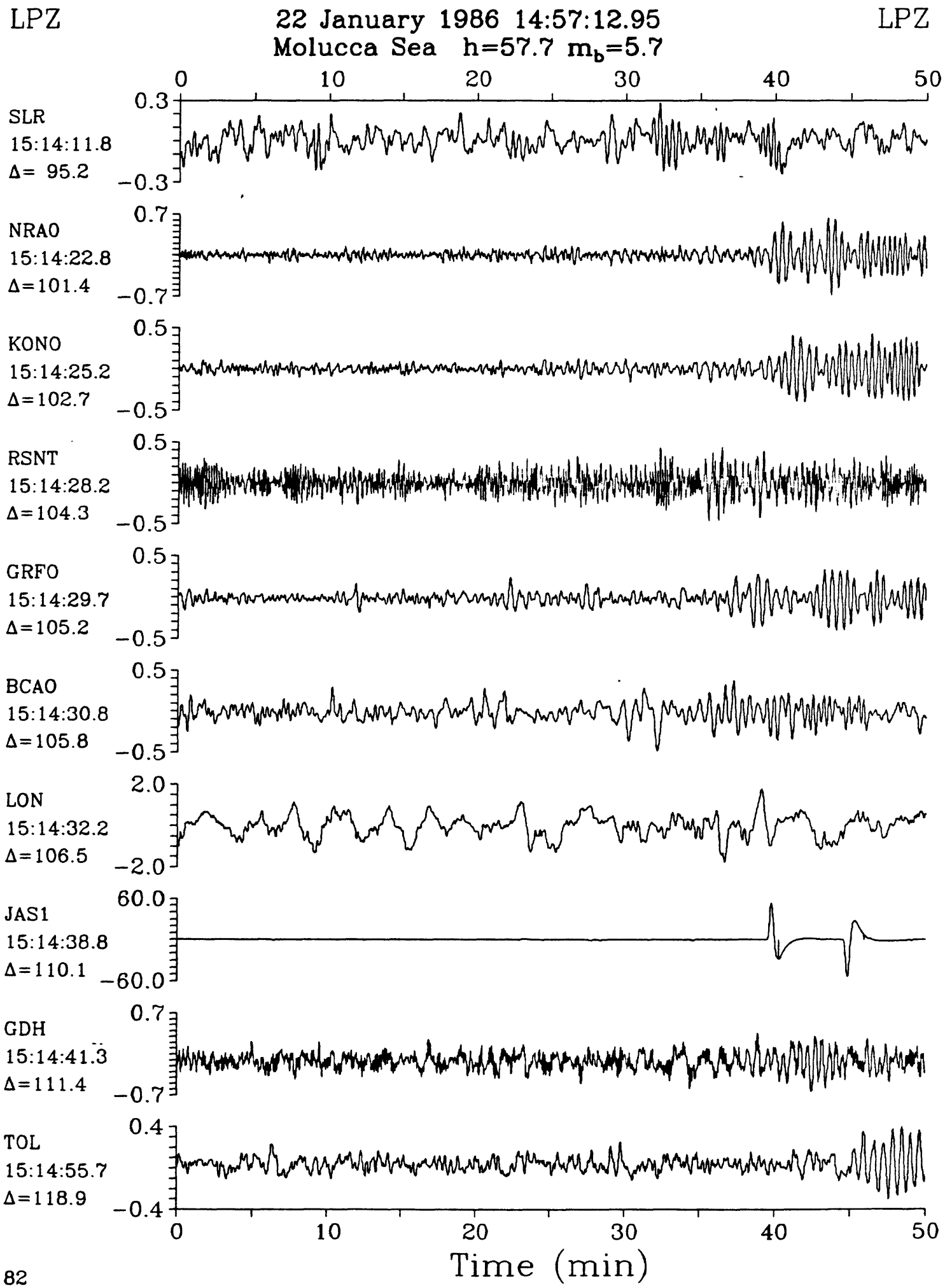
22 January 1986 14:57:12.95
Molucca Sea h=57.7 m_b=5.7

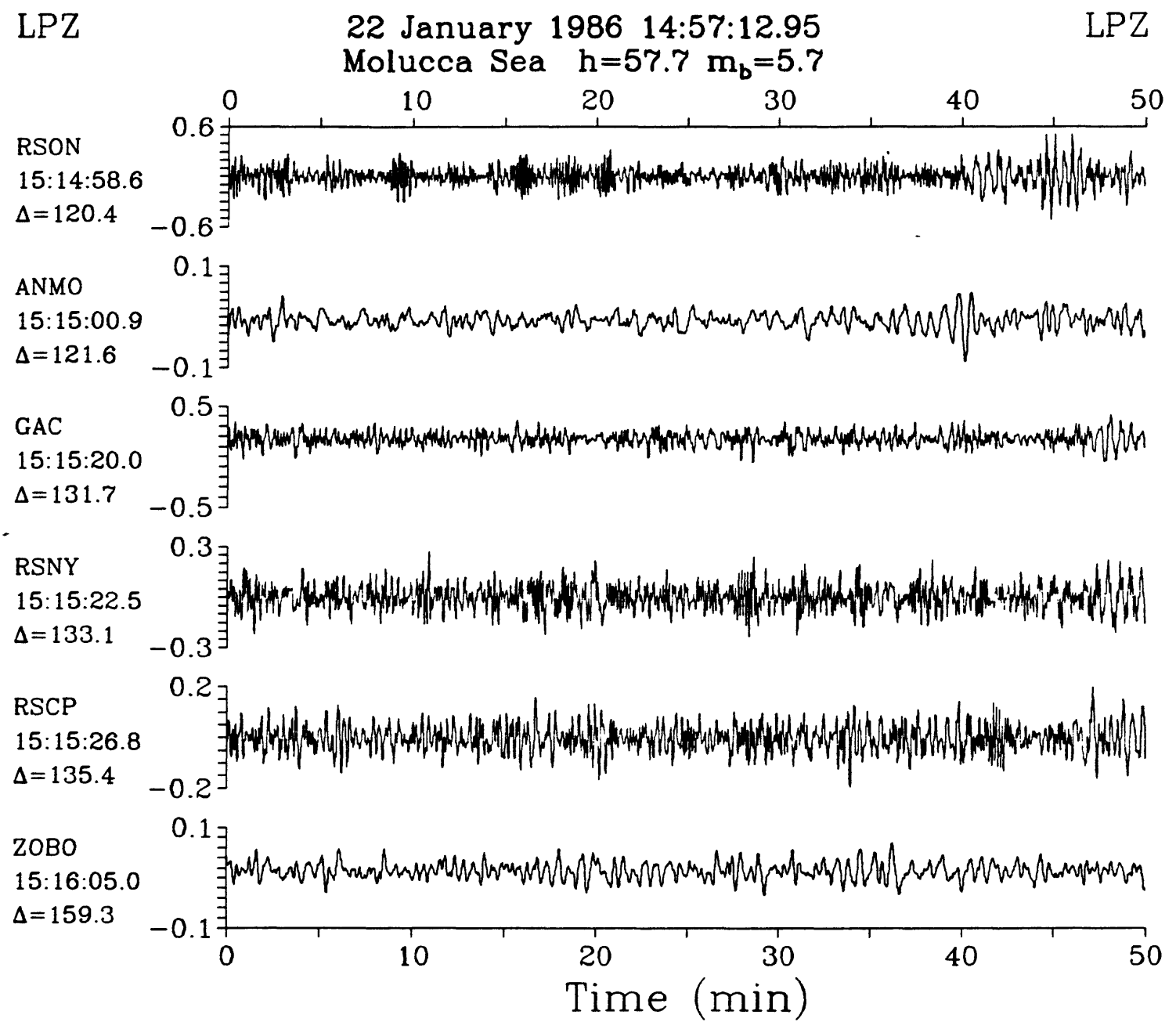
SPZ




SPZ
22 January 1986 14:57:12.95
Molucca Sea h=57.7 m_b=5.7
SPZ
0
1
2
0.01
ANMO
15:15:45.9
Δ=121.6
−0.01
0.07
ZOBO
15:16:50.0
Δ=159.3
−0.07
0
1
2
Time (min)


LPZ
22 January 1986 14:57:12.95
Molucca Sea h=57.7 m_b=5.7
LPZ
0
10
20
30
40
50
GUMO
15:01:29.1
Δ= 24.7
3.0
-3.0
TATO
15:01:36.1
Δ= 25.5
3.0
-3.0
CTAO
15:02:07.1
Δ= 29.0
2.0
-2.0
CHTO
15:02:29.0
Δ= 31.4
3.0
-3.0
NWAO
15:02:42.0
Δ= 32.9
3.0
-3.0
MAJO
15:03:34.5
Δ= 39.1
2.0
-2.0
HON
15:08:09.5
Δ= 78.7
0.9
-0.9
COL
15:09:05.1
Δ= 89.6
0.7
-0.7
ANTO
15:09:14.2
Δ= 91.5
0.4
-0.4
KEV
15:09:21.1
Δ= 93.0
0.7
-0.7
0
10
20
30
40
50
Time (min)


LPZ
22 January 1986 14:57:12.95
Molucca Sea h=57.7 m_b=5.7
LPZ
0
10
20
30
40
50
SLR
15:14:11.8
Δ= 95.2
0.3
-0.3
NRAO
15:14:22.8
Δ=101.4
0.7
-0.7
KONO
15:14:25.2
Δ=102.7
0.5
-0.5
RSNT
15:14:28.2
Δ=104.3
0.5
-0.5
GRFO
15:14:29.7
Δ=105.2
0.5
-0.5
BCAO
15:14:30.8
Δ=105.8
0.5
-0.5
LON
15:14:32.2
Δ=106.5
2.0
-2.0
JAS1
15:14:38.8
Δ=110.1
60.0
-60.0
GDH
15:14:41.3
Δ=111.4
0.7
-0.7
TOL
15:14:55.7
Δ=118.9
0.4
-0.4
0
10
20
30
40
50
Time (min)

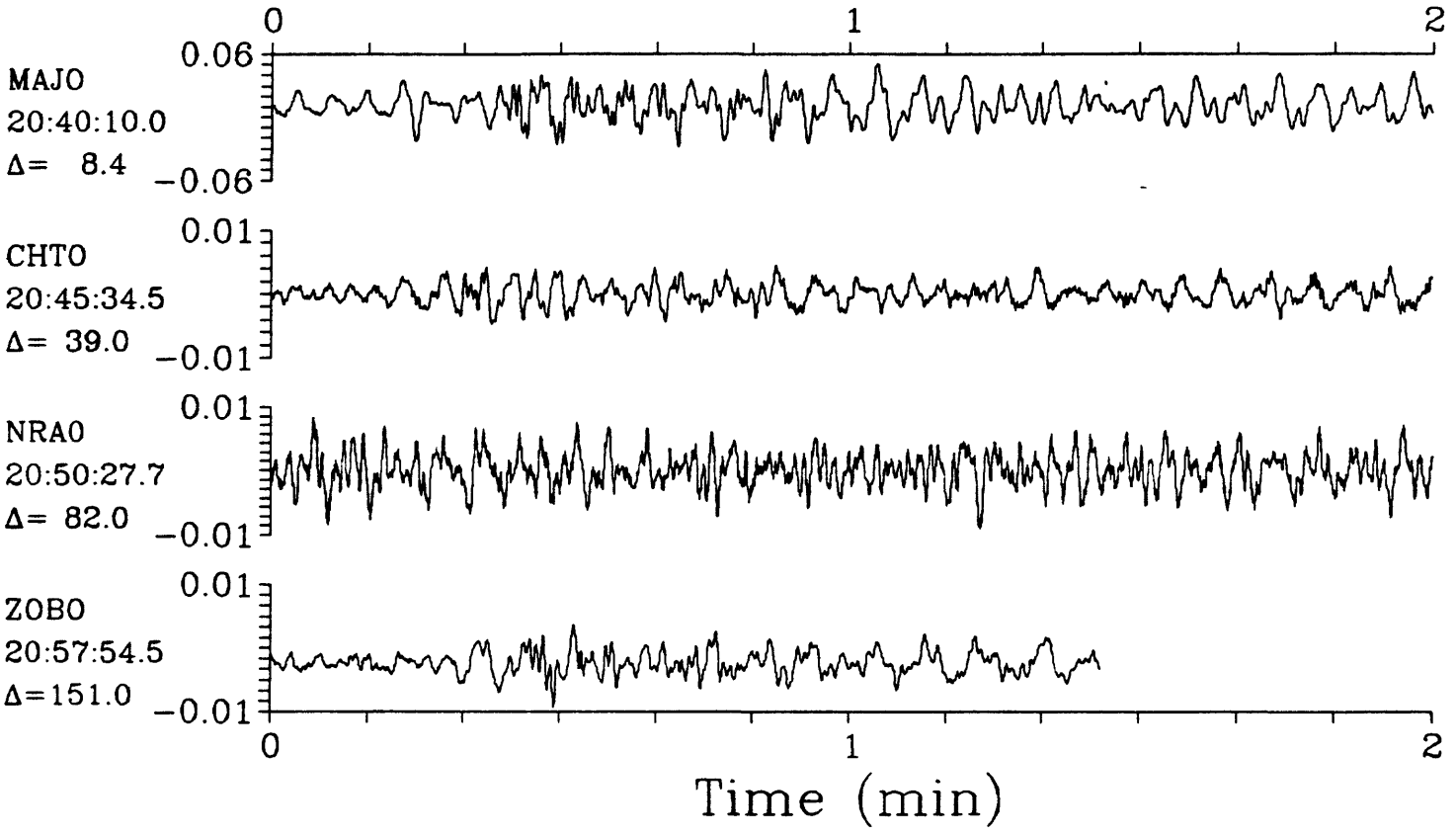

LPZ
22 January 1986 14:57:12.95
Molucca Sea h=57.7 m_b=5.7
LPZ
0
10
20
30
40
50
RSON
15:14:58.6
Δ=120.4
0.6
−0.6
ANMO
15:15:00.9
Δ=121.6
0.1
−0.1
GAC
15:15:20.0
Δ=131.7
0.5
−0.5
RSNY
15:15:22.5
Δ=133.1
0.3
−0.3
RSCP
15:15:26.8
Δ=135.4
0.2
−0.2
ZOBO
15:16:05.0
Δ=159.3
0.1
−0.1
0
10
20
30
40
50
Time (min)

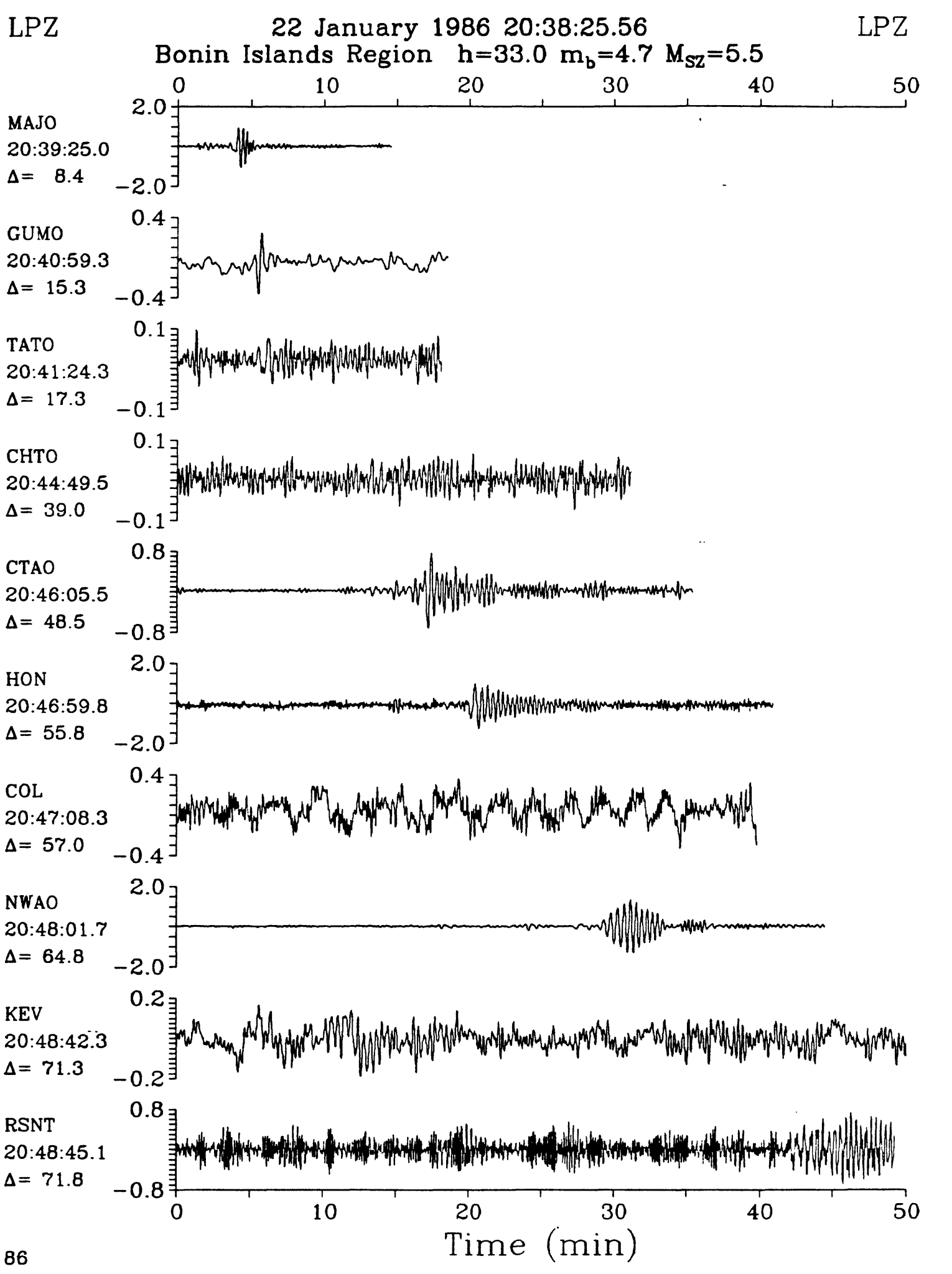
22 January 1986 20:38:25.56

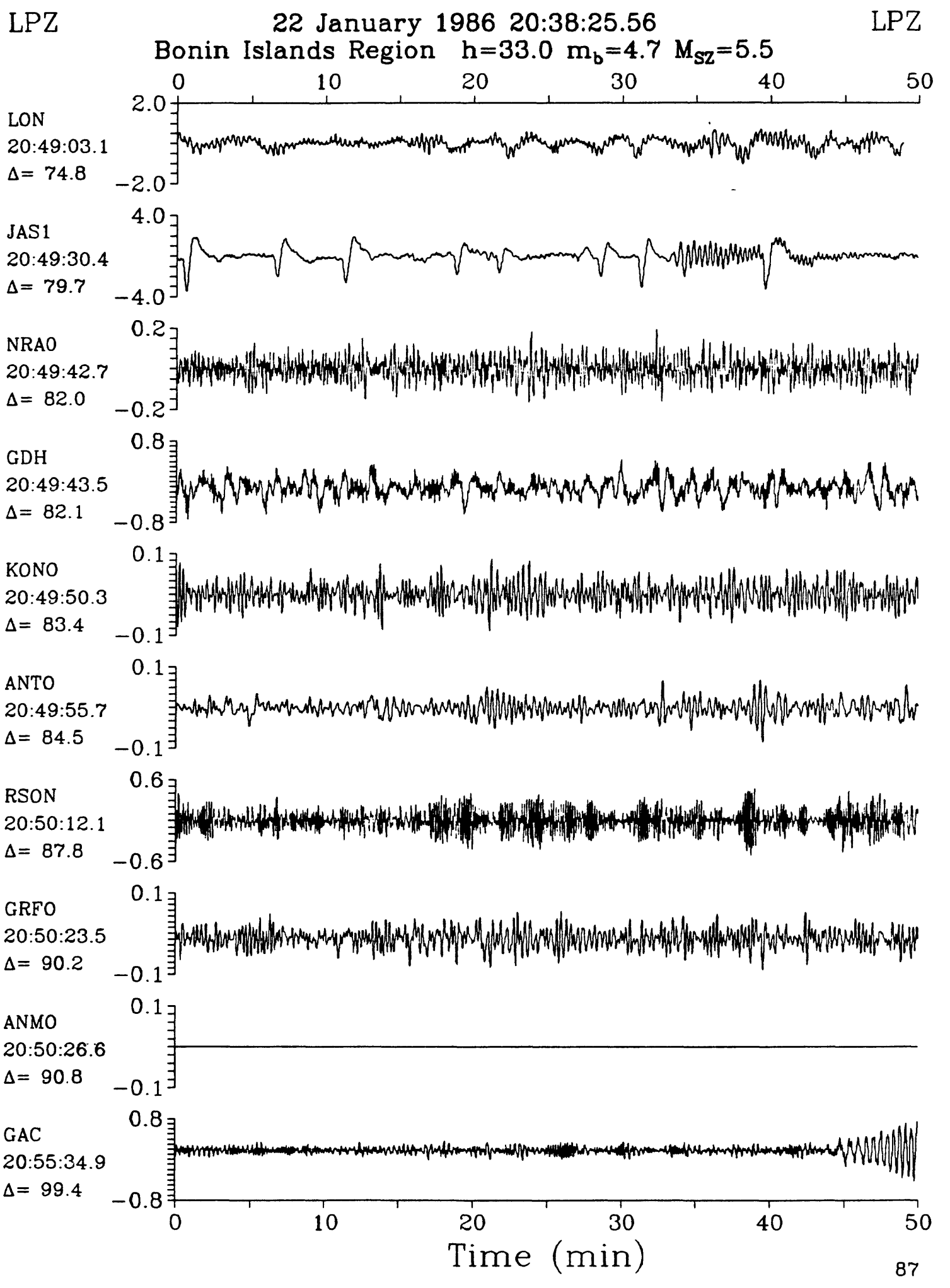
Bonin Islands Region

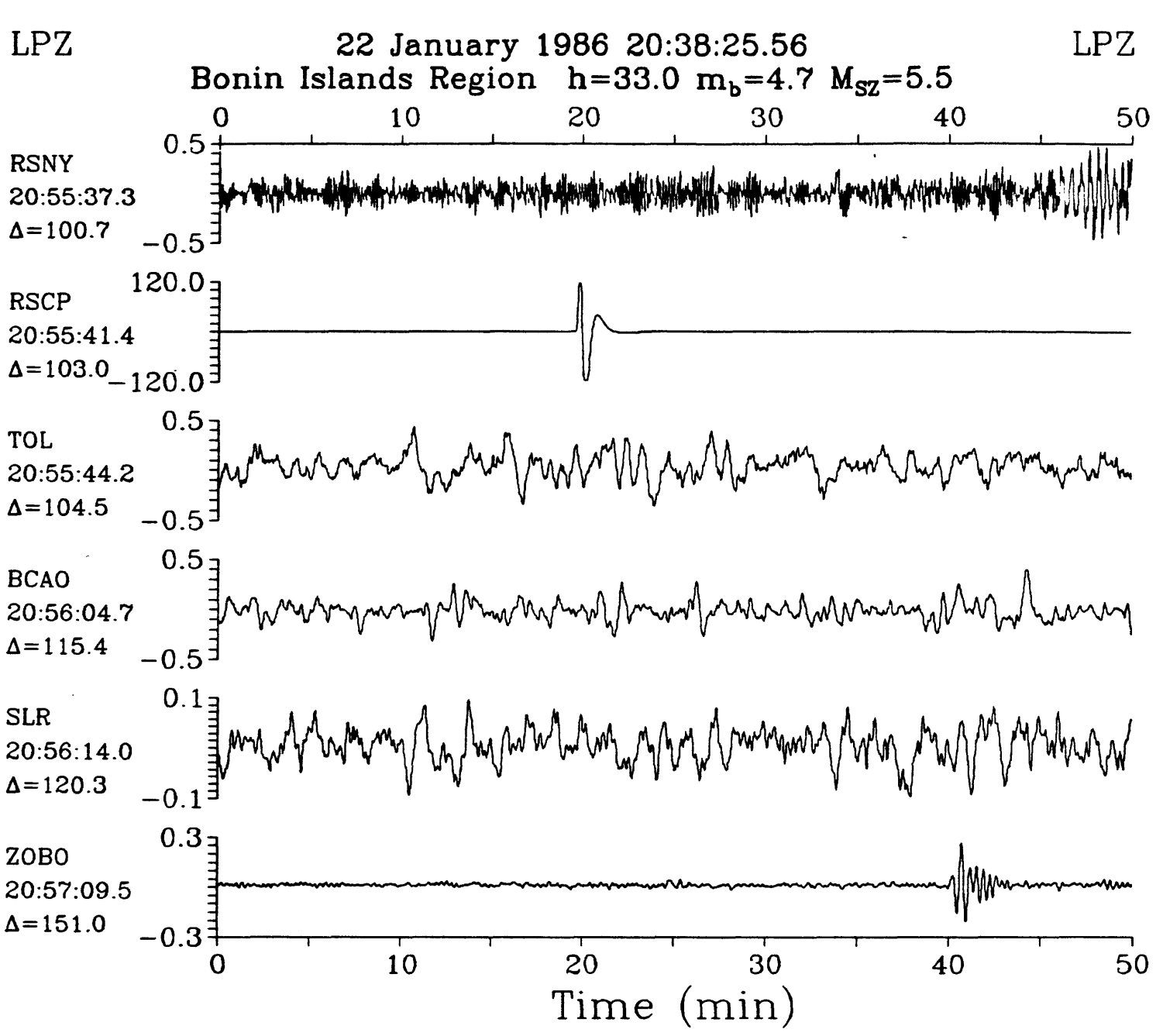
22 January 1986 20:38:25.56

Bonin Islands Region h=33.0 m_b=4.7 M_{SZ}=5.5



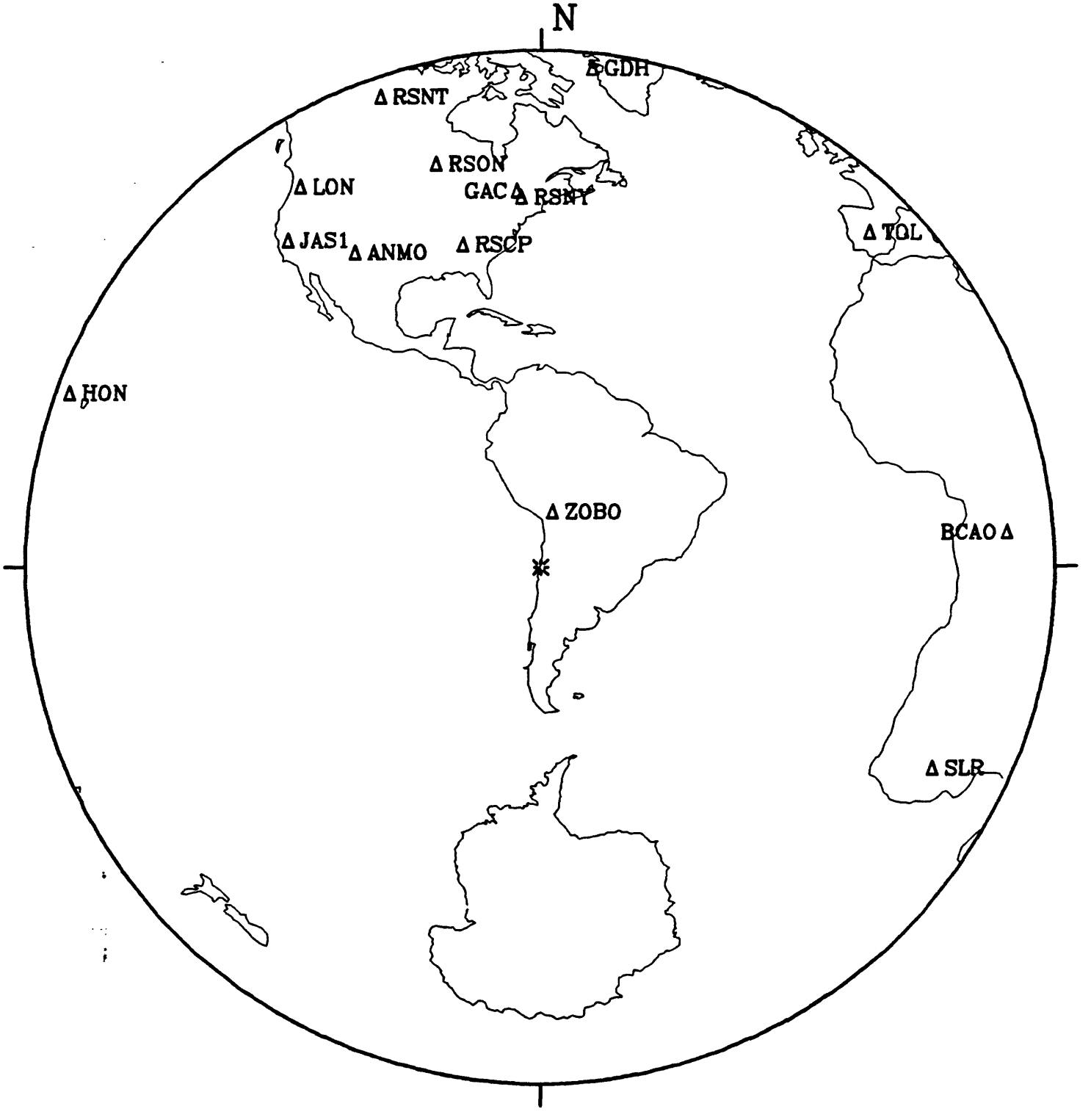

LPZ
22 January 1986 20:38:25.56
LPZ
Bonin Islands Region h=33.0 m_b=4.7 M_{SZ}=5.5
0
10
20
30
40
50
MAJO
20:39:25.0
Δ= 8.4
2.0
−2.0
GUMO
20:40:59.3
Δ= 15.3
0.4
−0.4
TATO
20:41:24.3
Δ= 17.3
0.1
−0.1
CHTO
20:44:49.5
Δ= 39.0
0.1
−0.1
CTAO
20:46:05.5
Δ= 48.5
0.8
−0.8
HON
20:46:59.8
Δ= 55.8
2.0
−2.0
COL
20:47:08.3
Δ= 57.0
0.4
−0.4
NWAO
20:48:01.7
Δ= 64.8
2.0
−2.0
KEV
20:48:42.3
Δ= 71.3
0.2
−0.2
RSNT
20:48:45.1
Δ= 71.8
0.8
−0.8
0
10
20
30
40
50
Time (min)

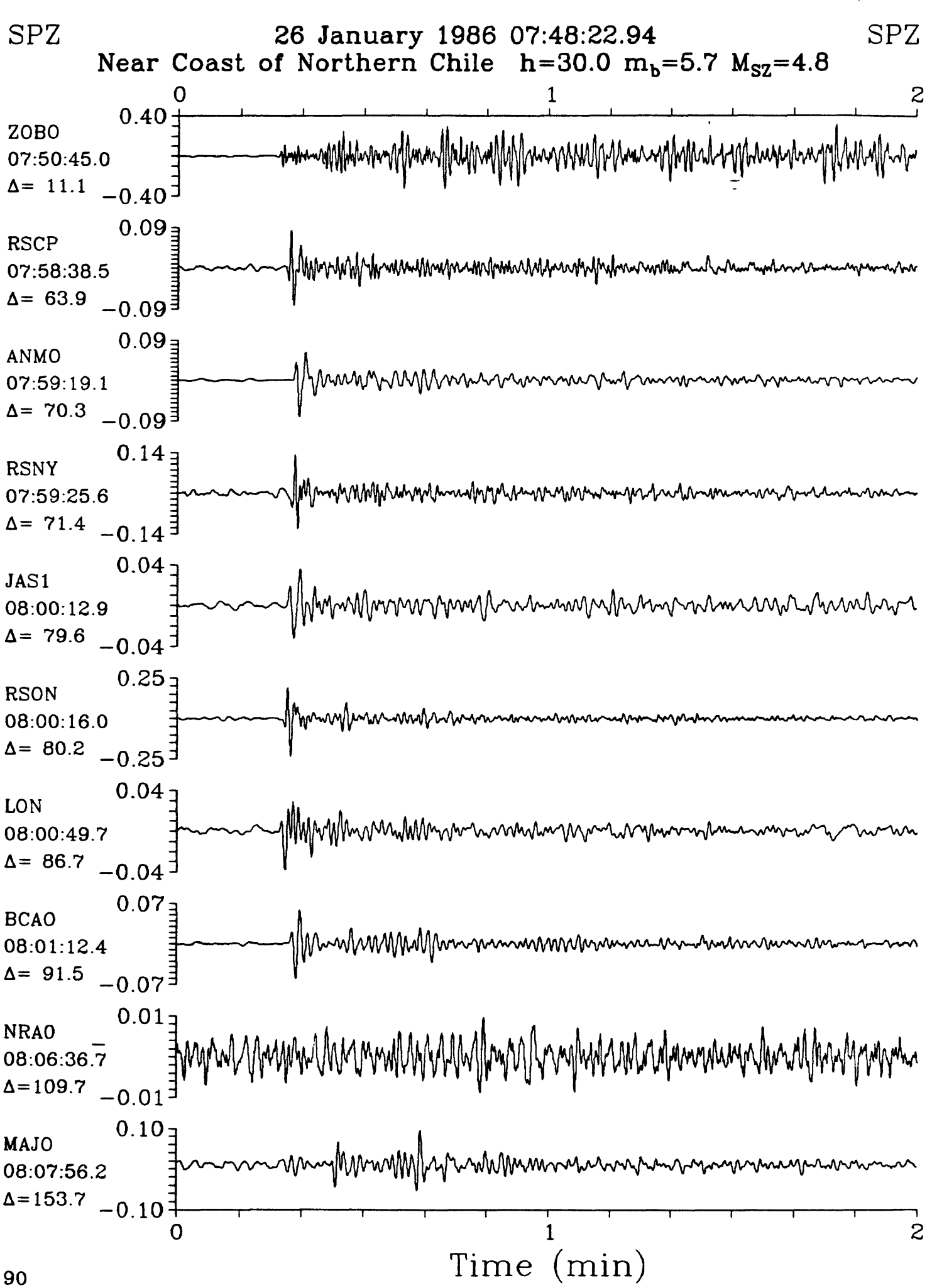

LPZ
22 January 1986 20:38:25.56
LPZ
Bonin Islands Region h=33.0 m_b=4.7 M_{SZ}=5.5
0
10
20
30
40
50
LON
20:49:03.1
Δ= 74.8
2.0
-2.0
JAS1
20:49:30.4
Δ= 79.7
4.0
-4.0
NRA0
20:49:42.7
Δ= 82.0
0.2
-0.2
GDH
20:49:43.5
Δ= 82.1
0.8
-0.8
KONO
20:49:50.3
Δ= 83.4
0.1
-0.1
ANTO
20:49:55.7
Δ= 84.5
0.1
-0.1
RSON
20:50:12.1
Δ= 87.8
0.6
-0.6
GRFO
20:50:23.5
Δ= 90.2
0.1
-0.1
ANMO
20:50:26.6
Δ= 90.8
0.1
-0.1
GAC
20:55:34.9
Δ= 99.4
0.8
-0.8
0
10
20
30
40
50
Time (min)


LPZ
22 January 1986 20:38:25.56
LPZ
Bonin Islands Region h=33.0 m_b=4.7 M_{SZ}=5.5
0
10
20
30
40
50
RSNY
20:55:37.3
Δ=100.7
0.5
−0.5
RSCP
20:55:41.4
Δ=103.0
120.0
−120.0
TOL
20:55:44.2
Δ=104.5
0.5
−0.5
BCAO
20:56:04.7
Δ=115.4
0.5
−0.5
SLR
20:56:14.0
Δ=120.3
0.1
−0.1
ZOBO
20:57:09.5
Δ=151.0
0.3
−0.3
0
10
20
30
40
50
Time (min)

26 January 1986 07:48:22.94

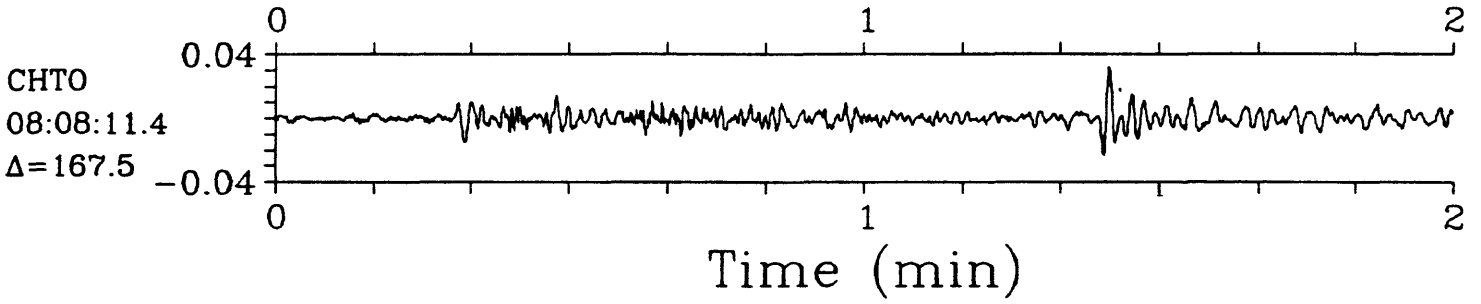
Near Coast of Northern Chile



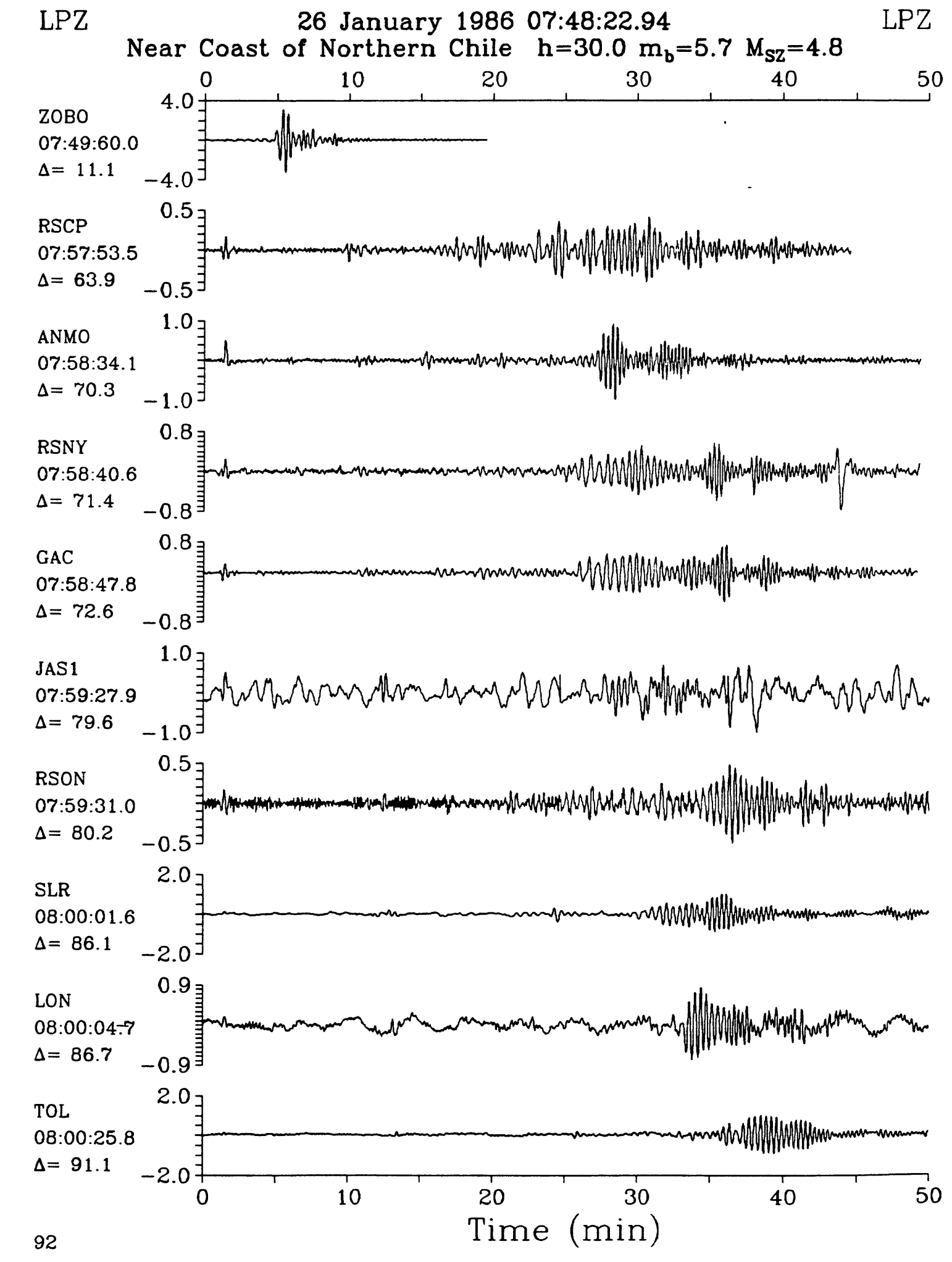

SPZ
26 January 1986 07:48:22.94
SPZ
Near Coast of Northern Chile h=30.0 m_b=5.7 M_{SZ}=4.8
0
1
2
0.40
ZOBO
07:50:45.0
Δ= 11.1
−0.40
0.09
RSCP
07:58:38.5
Δ= 63.9
−0.09
0.09
ANMO
07:59:19.1
Δ= 70.3
−0.09
0.14
RSNY
07:59:25.6
Δ= 71.4
−0.14
0.04
JAS1
08:00:12.9
Δ= 79.6
−0.04
0.25
RSON
08:00:16.0
Δ= 80.2
−0.25
0.04
LON
08:00:49.7
Δ= 86.7
−0.04
0.07
BCAO
08:01:12.4
Δ= 91.5
−0.07
0.01
NRAO
08:06:36.7
Δ=109.7
−0.01
0.10
MAJO
08:07:56.2
Δ=153.7
−0.10
0
1
2
Time (min)

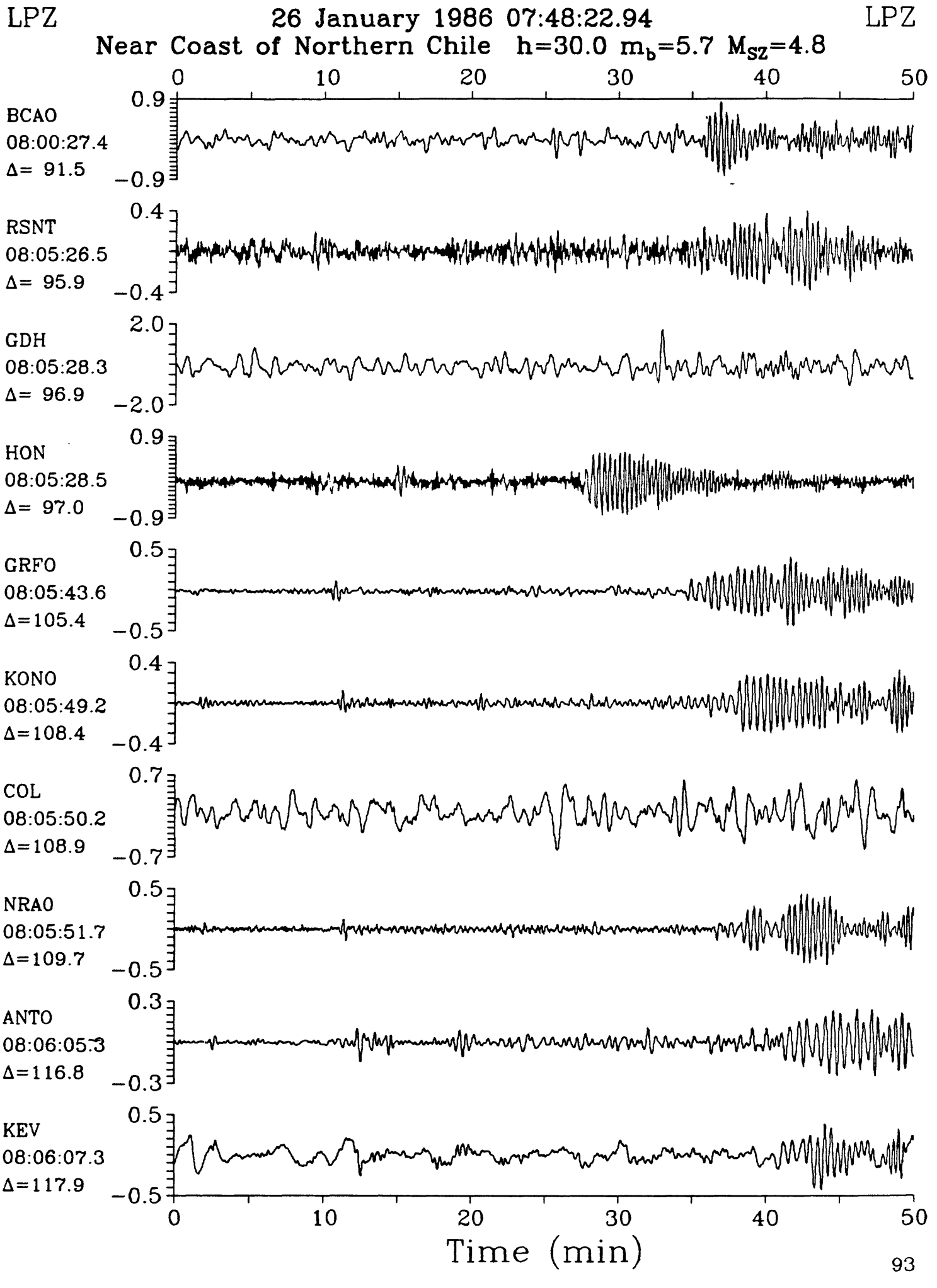
SPZ 26 January 1986 07:48:22.94 SPZ

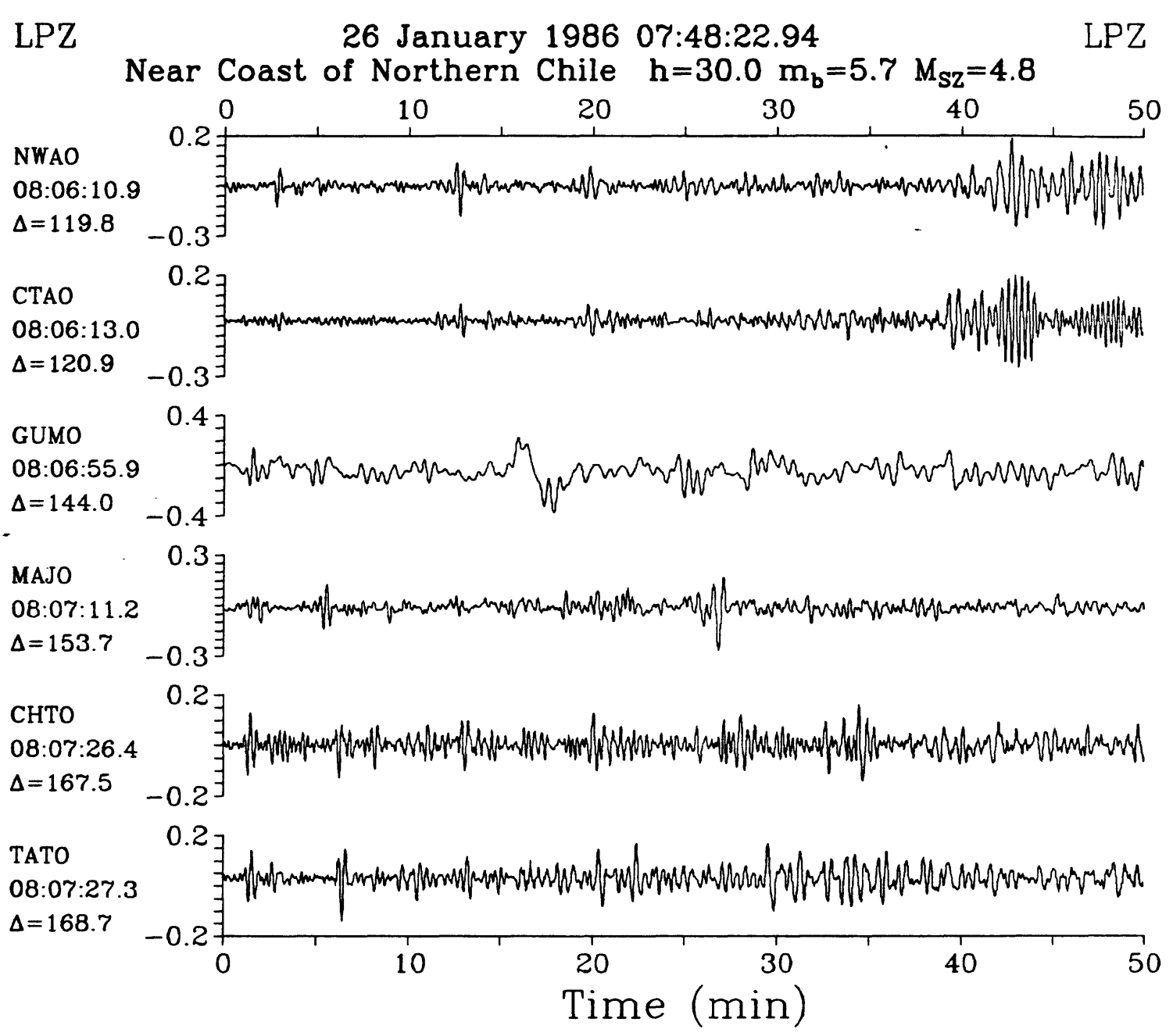
Near Coast of Northern Chile h=30.0 m_b=5.7 M_{SZ}=4.8



Time (min)

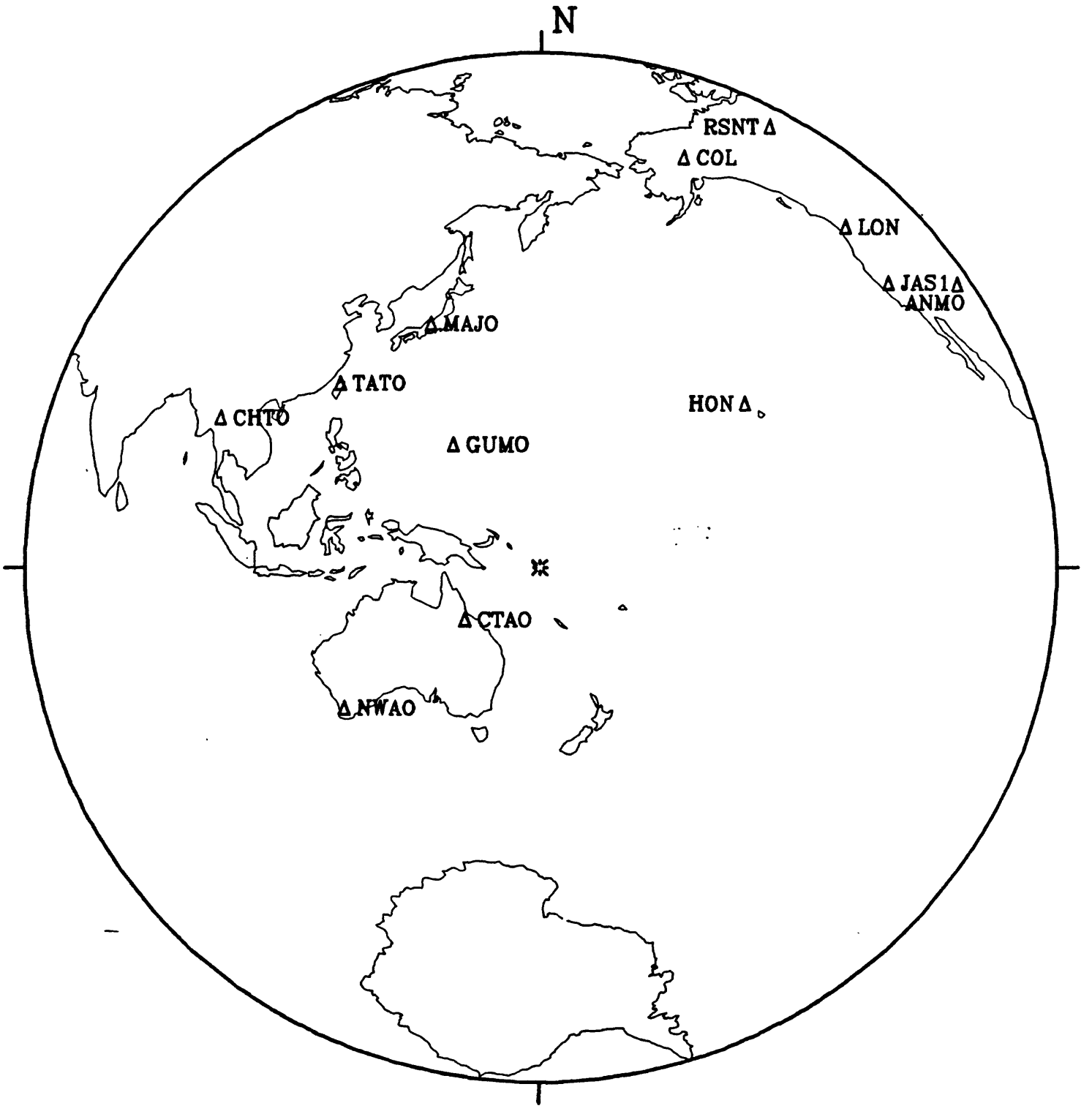

LPZ
26 January 1986 07:48:22.94
LPZ
Near Coast of Northern Chile h=30.0 m_b=5.7 M_{SZ}=4.8
0
10
20
30
40
50
ZOBO
07:49:60.0
Δ= 11.1
4.0
-4.0
RSCP
07:57:53.5
Δ= 63.9
0.5
-0.5
ANMO
07:58:34.1
Δ= 70.3
1.0
-1.0
RSNY
07:58:40.6
Δ= 71.4
0.8
-0.8
GAC
07:58:47.8
Δ= 72.6
0.8
-0.8
JAS1
07:59:27.9
Δ= 79.6
1.0
-1.0
RSON
07:59:31.0
Δ= 80.2
0.5
-0.5
SLR
08:00:01.6
Δ= 86.1
2.0
-2.0
LON
08:00:04.7
Δ= 86.7
0.9
-0.9
TOL
08:00:25.8
Δ= 91.1
2.0
-2.0
0
10
20
30
40
50
Time (min)

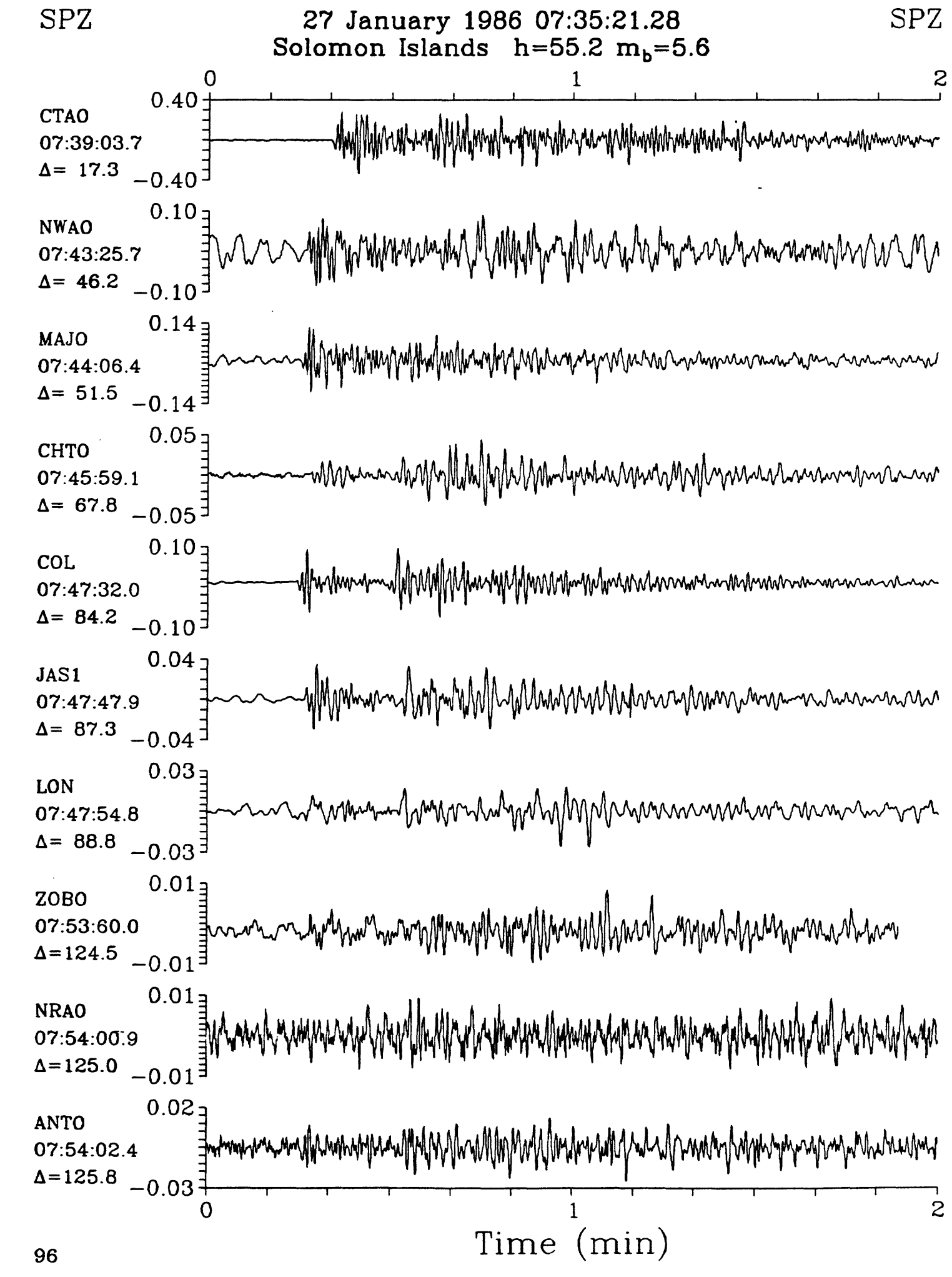

LPZ
26 January 1986 07:48:22.94
LPZ
Near Coast of Northern Chile h=30.0 m_b=5.7 M_{SZ}=4.8
0
10
20
30
40
50
BCAO
08:00:27.4
Δ= 91.5
0.9
-0.9
RSNT
08:05:26.5
Δ= 95.9
0.4
-0.4
GDH
08:05:28.3
Δ= 96.9
2.0
-2.0
HON
08:05:28.5
Δ= 97.0
0.9
-0.9
GRFO
08:05:43.6
Δ=105.4
0.5
-0.5
KONO
08:05:49.2
Δ=108.4
0.4
-0.4
COL
08:05:50.2
Δ=108.9
0.7
-0.7
NRAO
08:05:51.7
Δ=109.7
0.5
-0.5
ANTO
08:06:05.3
Δ=116.8
0.3
-0.3
KEV
08:06:07.3
Δ=117.9
0.5
-0.5
0
10
20
30
40
50
Time (min)

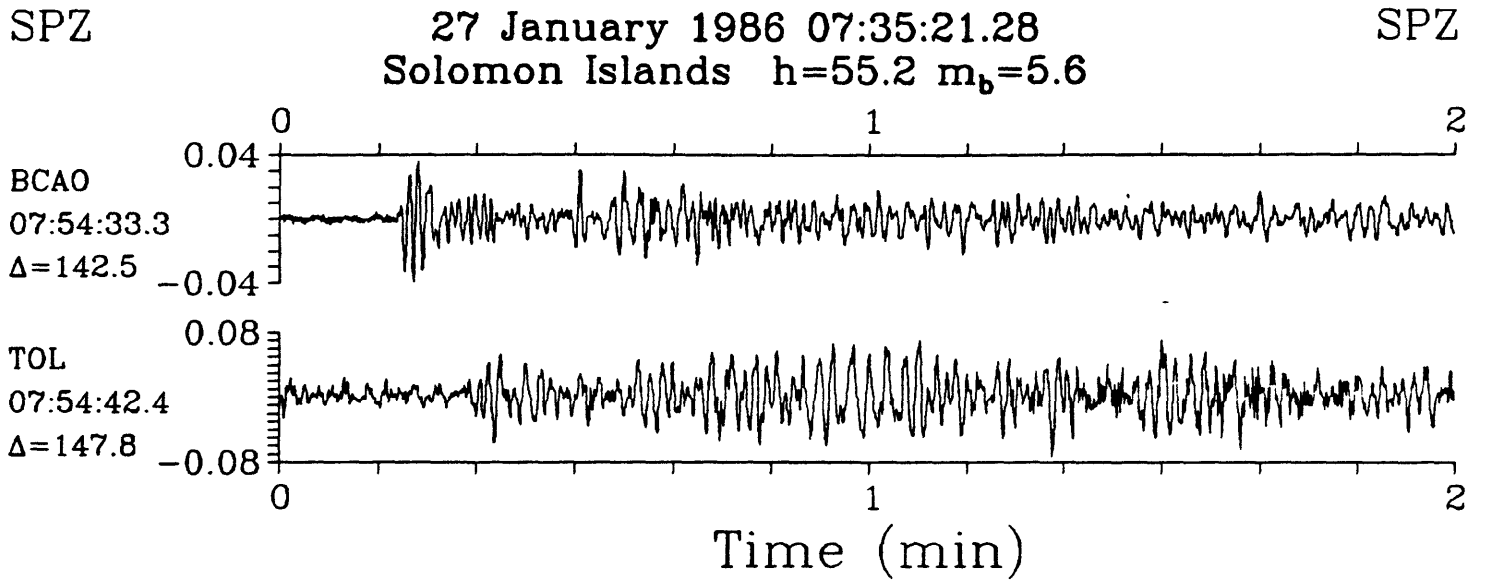

LPZ
26 January 1986 07:48:22.94
LPZ
Near Coast of Northern Chile h=30.0 m_b=5.7 M_{SZ}=4.8
0
10
20
30
40
50
NWAO
08:06:10.9
Δ=119.8
0.2
−0.3
CTAO
08:06:13.0
Δ=120.9
0.2
−0.3
GUMO
08:06:55.9
Δ=144.0
0.4
−0.4
MAJO
08:07:11.2
Δ=153.7
0.3
−0.3
CHTO
08:07:26.4
Δ=167.5
0.2
−0.2
TATO
08:07:27.3
Δ=168.7
0.2
−0.2
Time (min)

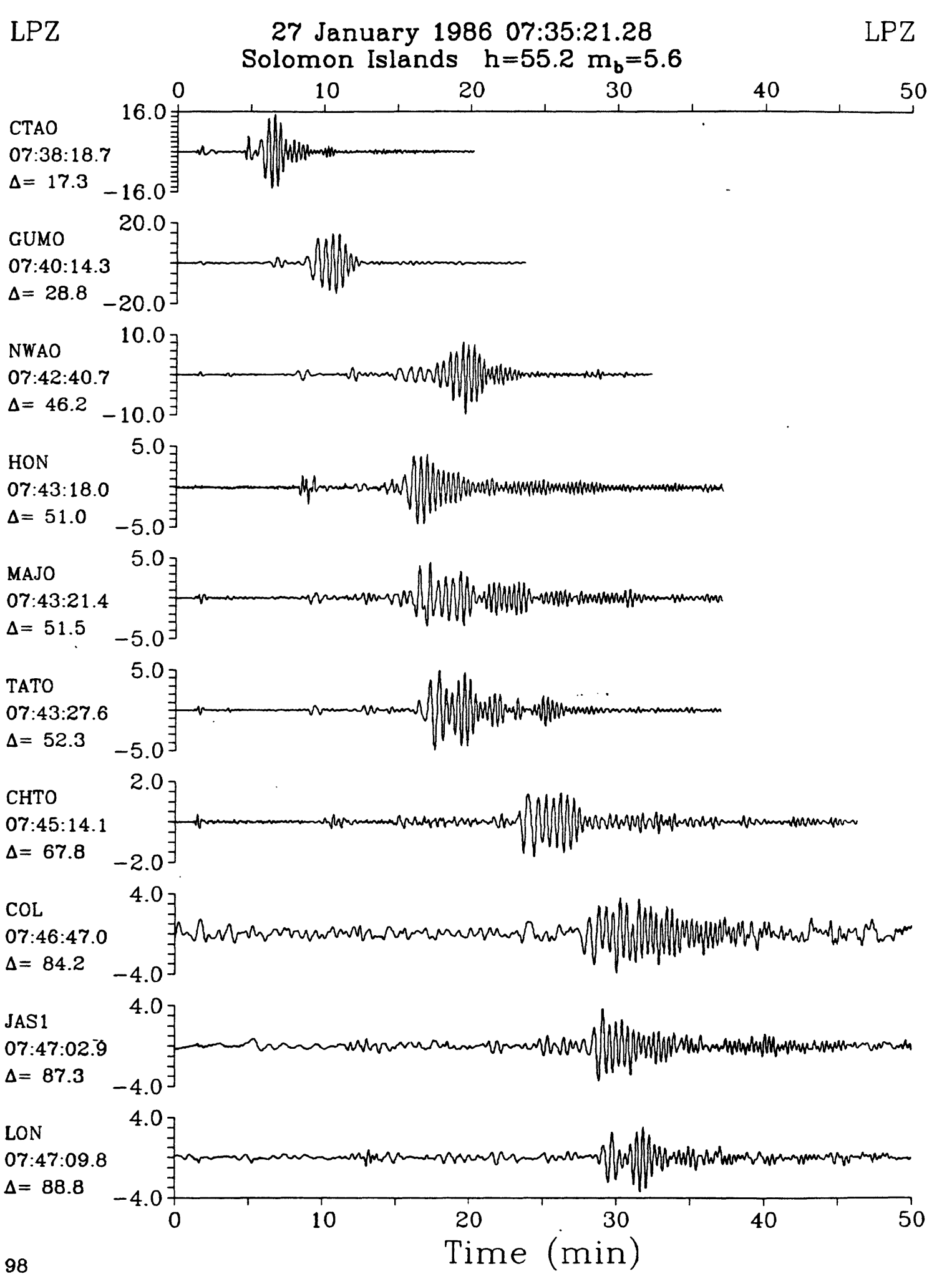
27 January 1986 07:35:21.28

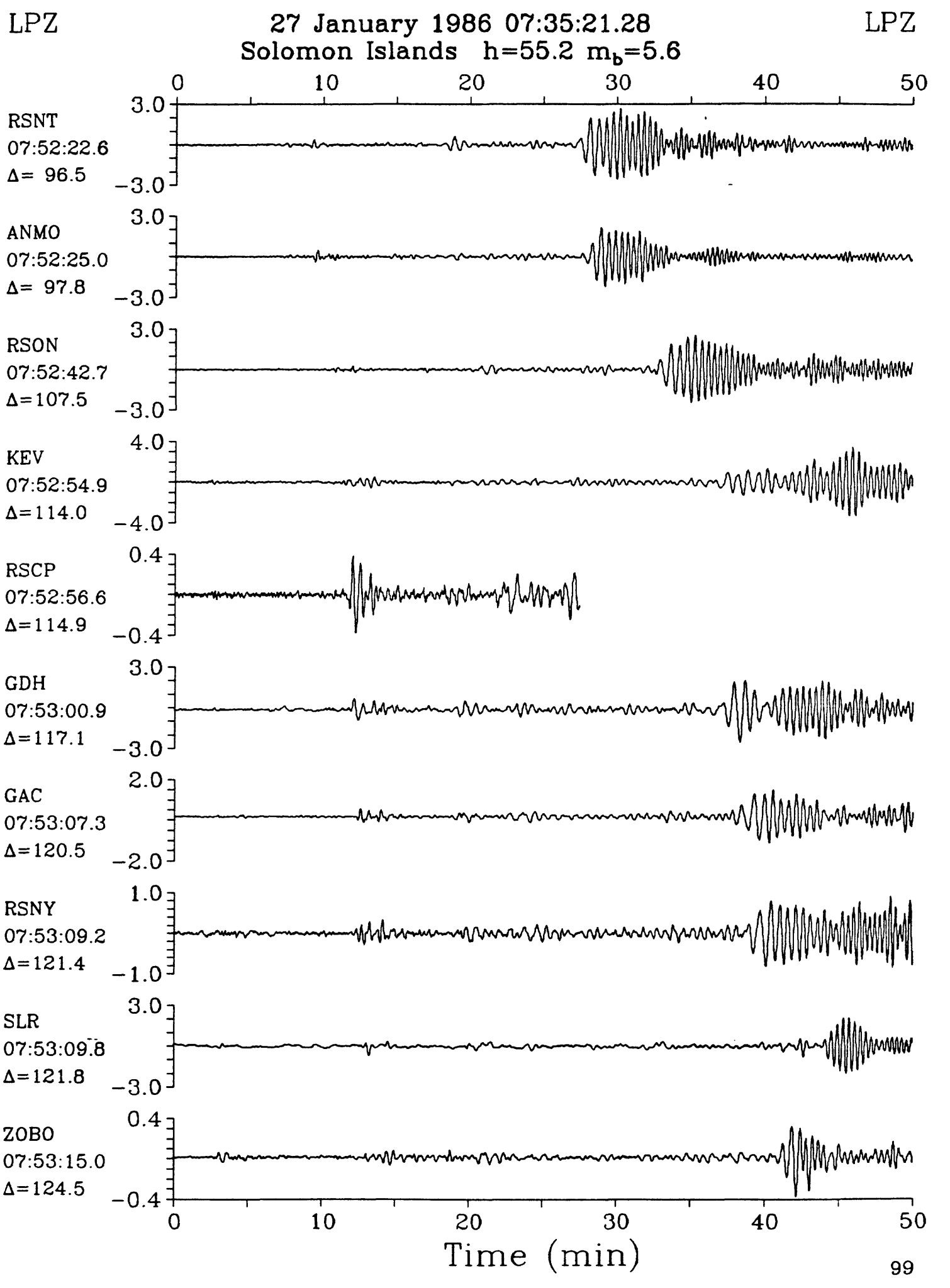
Solomon Islands

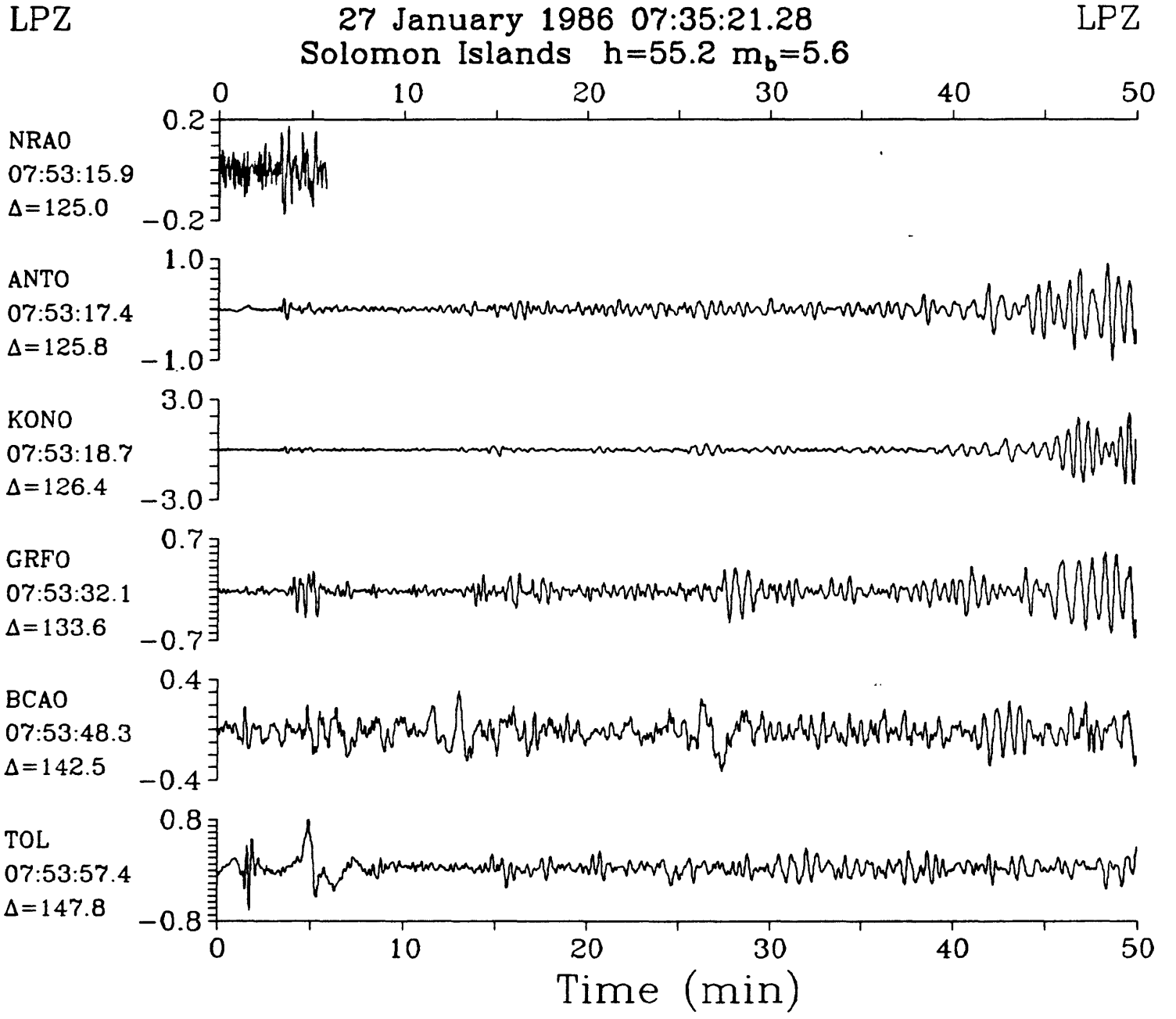



SPZ
27 January 1986 07:35:21.28
Solomon Islands h=55.2 m_b=5.6
SPZ
0
1
2
CTAO
07:39:03.7
Δ= 17.3
0.40
−0.40
NWAO
07:43:25.7
Δ= 46.2
0.10
−0.10
MAJO
07:44:06.4
Δ= 51.5
0.14
−0.14
CHTO
07:45:59.1
Δ= 67.8
0.05
−0.05
COL
07:47:32.0
Δ= 84.2
0.10
−0.10
JAS1
07:47:47.9
Δ= 87.3
0.04
−0.04
LON
07:47:54.8
Δ= 88.8
0.03
−0.03
ZOBO
07:53:60.0
Δ=124.5
0.01
−0.01
NRAO
07:54:00.9
Δ=125.0
0.01
−0.01
ANTO
07:54:02.4
Δ=125.8
0.02
−0.03
0
1
2
Time (min)


SPZ
27 January 1986 07:35:21.28
Solomon Islands h=55.2 m_b=5.6
SPZ
0
1
2
0.04
BCAO
07:54:33.3
Δ=142.5
−0.04
0.08
TOL
07:54:42.4
Δ=147.8
−0.08
0
1
2
Time (min)

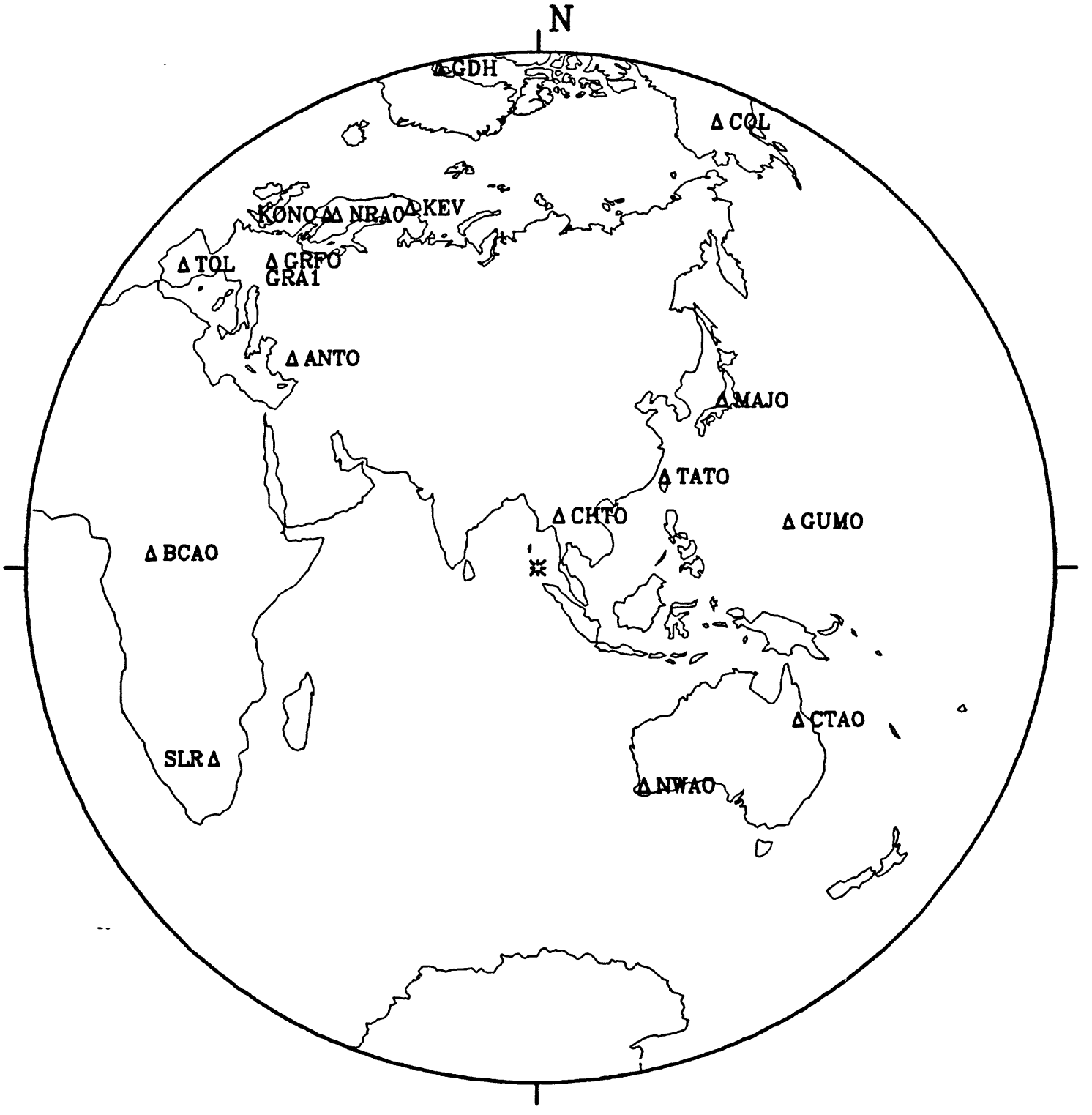

LPZ
27 January 1986 07:35:21.28
Solomon Islands h=55.2 m_b=5.6
LPZ
0
10
20
30
40
50
CTAO
07:38:18.7
Δ= 17.3
16.0
-16.0
GUMO
07:40:14.3
Δ= 28.8
20.0
-20.0
NWAO
07:42:40.7
Δ= 46.2
10.0
-10.0
HON
07:43:18.0
Δ= 51.0
5.0
-5.0
MAJO
07:43:21.4
Δ= 51.5
5.0
-5.0
TATO
07:43:27.6
Δ= 52.3
5.0
-5.0
CHTO
07:45:14.1
Δ= 67.8
2.0
-2.0
COL
07:46:47.0
Δ= 84.2
4.0
-4.0
JAS1
07:47:02.9
Δ= 87.3
4.0
-4.0
LON
07:47:09.8
Δ= 88.8
4.0
-4.0
0
10
20
30
40
50
Time (min)

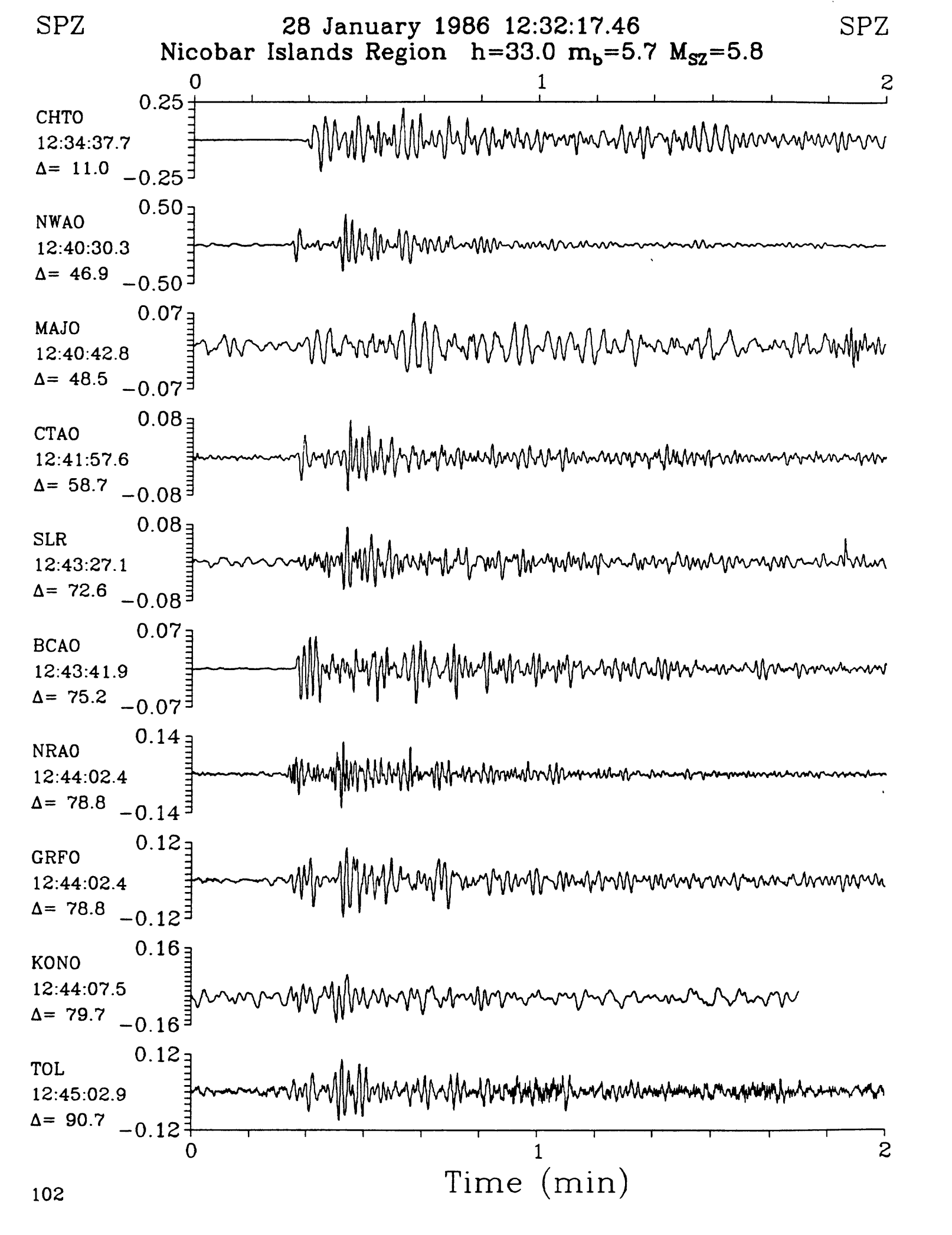

LPZ
27 January 1986 07:35:21.28
Solomon Islands h=55.2 m_b=5.6
LPZ
0
10
20
30
40
50
RSNT
07:52:22.6
Δ= 96.5
3.0
-3.0
ANMO
07:52:25.0
Δ= 97.8
3.0
-3.0
RSON
07:52:42.7
Δ=107.5
3.0
-3.0
KEV
07:52:54.9
Δ=114.0
4.0
-4.0
RSCP
07:52:56.6
Δ=114.9
0.4
-0.4
GDH
07:53:00.9
Δ=117.1
3.0
-3.0
GAC
07:53:07.3
Δ=120.5
2.0
-2.0
RSNY
07:53:09.2
Δ=121.4
1.0
-1.0
SLR
07:53:09.8
Δ=121.8
3.0
-3.0
ZOBO
07:53:15.0
Δ=124.5
0.4
-0.4
0
10
20
30
40
50
Time (min)


LPZ
27 January 1986 07:35:21.28
LPZ
Solomon Islands h=55.2 m_b=5.6
0
10
20
30
40
50
NRAO
07:53:15.9
Δ=125.0
0.2
-0.2
ANTO
07:53:17.4
Δ=125.8
1.0
-1.0
KONO
07:53:18.7
Δ=126.4
3.0
-3.0
GRFO
07:53:32.1
Δ=133.6
0.7
-0.7
BCAO
07:53:48.3
Δ=142.5
0.4
-0.4
TOL
07:53:57.4
Δ=147.8
0.8
-0.8
Time (min)

28 January 1986 12:32:17.46

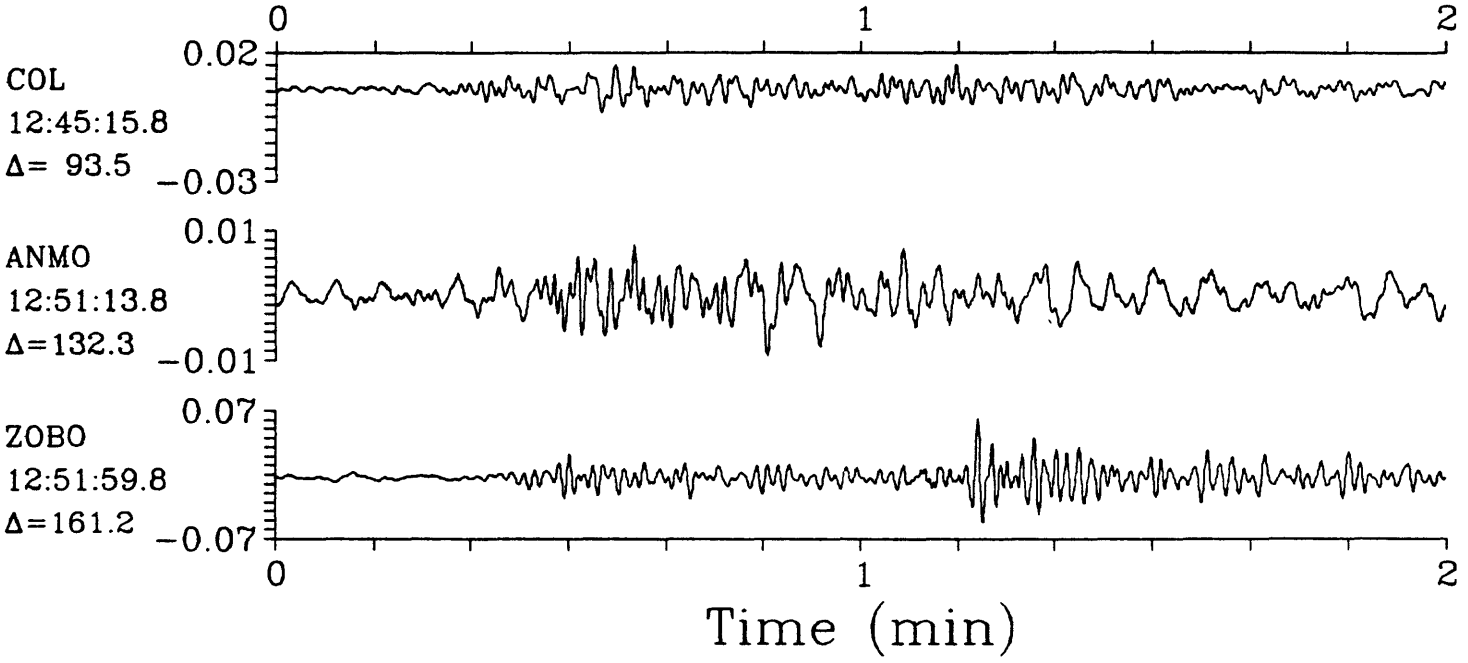
Nicobar Islands Region

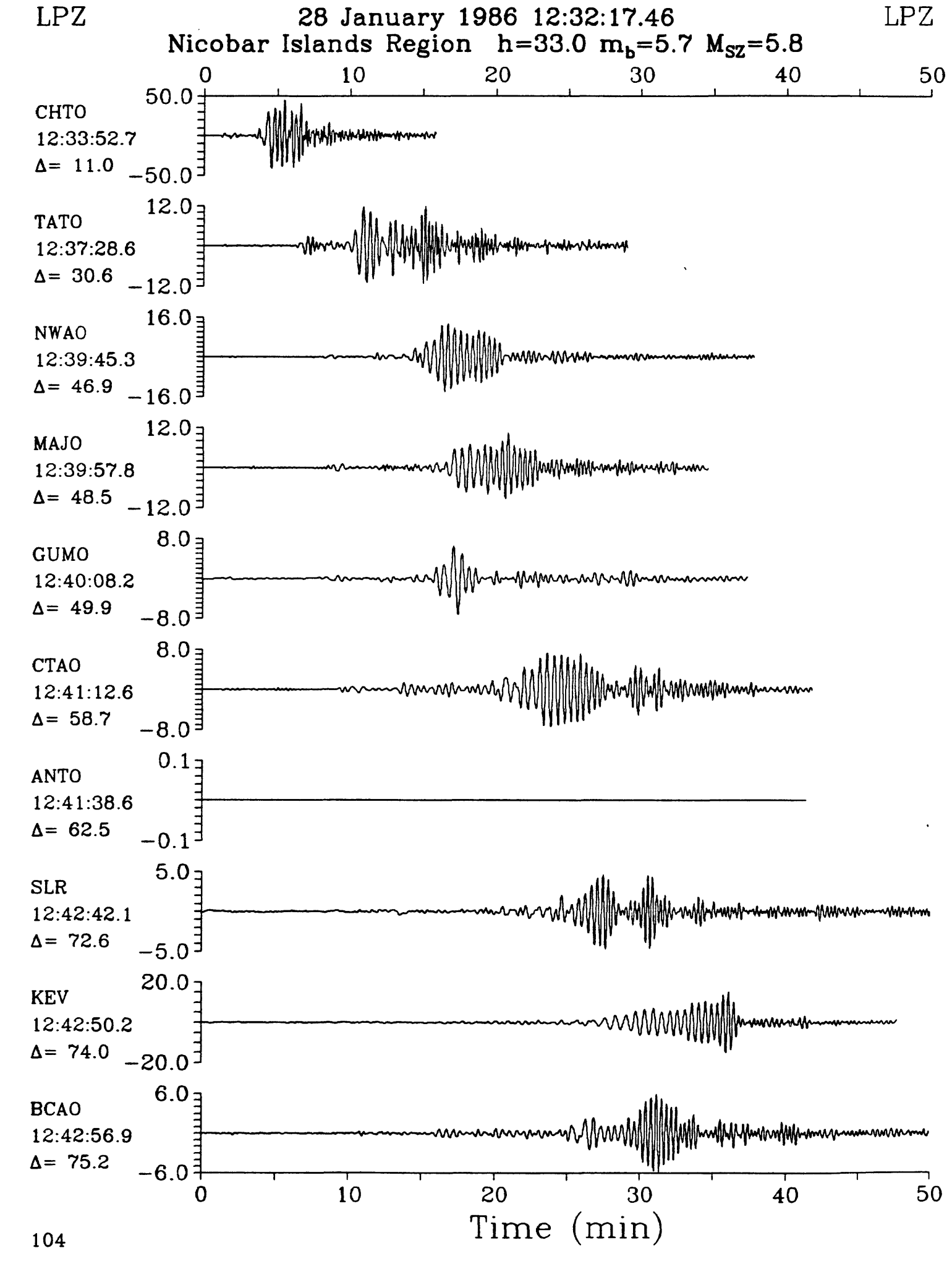


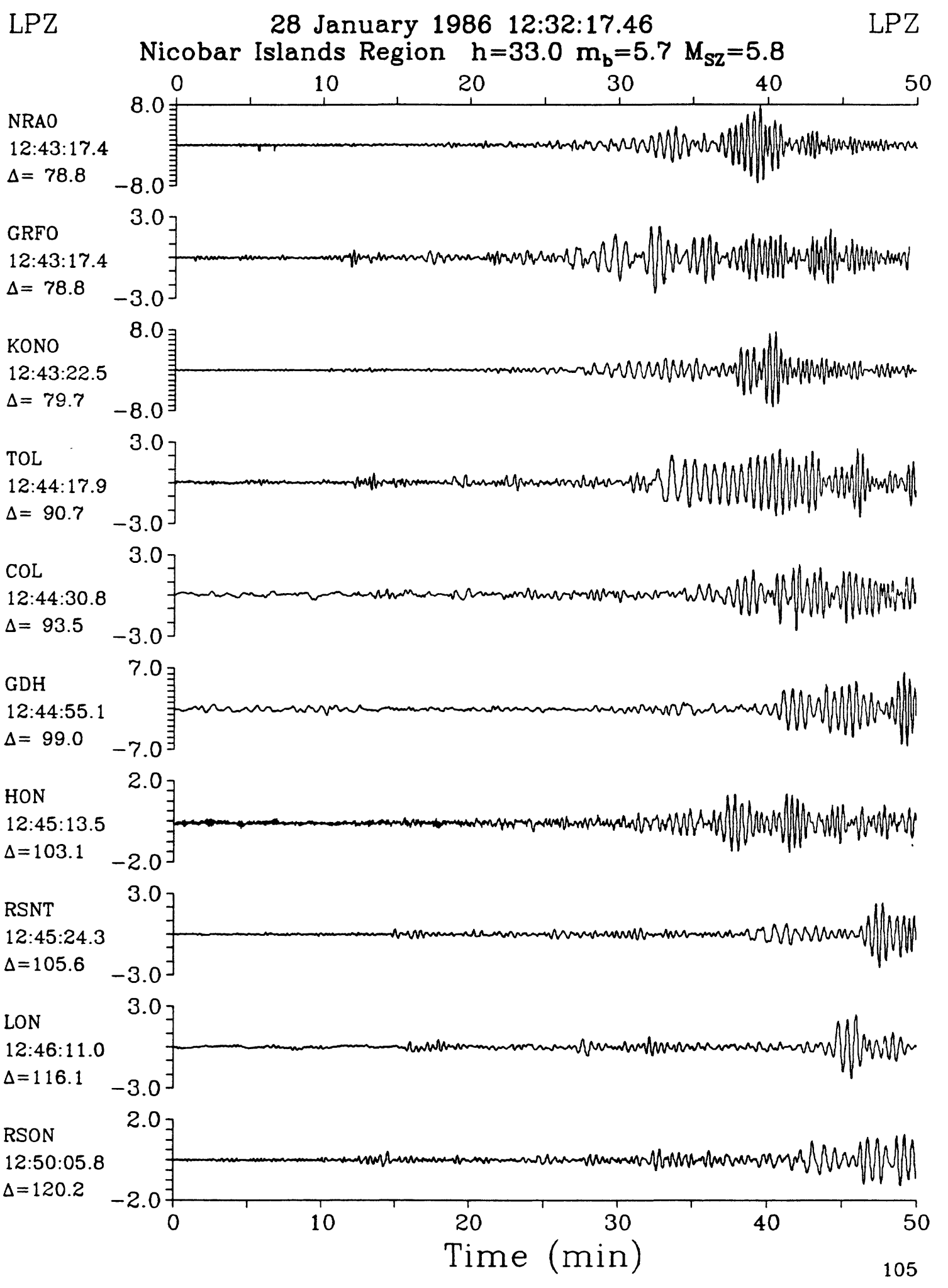

SPZ
28 January 1986 12:32:17.46
SPZ
Nicobar Islands Region h=33.0 m_b=5.7 M_{SZ}=5.8
0
1
2
CHTO
12:34:37.7
Δ= 11.0
0.25
-0.25
NWAO
12:40:30.3
Δ= 46.9
0.50
-0.50
MAJO
12:40:42.8
Δ= 48.5
0.07
-0.07
CTAO
12:41:57.6
Δ= 58.7
0.08
-0.08
SLR
12:43:27.1
Δ= 72.6
0.08
-0.08
BCAO
12:43:41.9
Δ= 75.2
0.07
-0.07
NRAO
12:44:02.4
Δ= 78.8
0.14
-0.14
GRFO
12:44:02.4
Δ= 78.8
0.12
-0.12
KONO
12:44:07.5
Δ= 79.7
0.16
-0.16
TOL
12:45:02.9
Δ= 90.7
0.12
-0.12
0
1
2
Time (min)

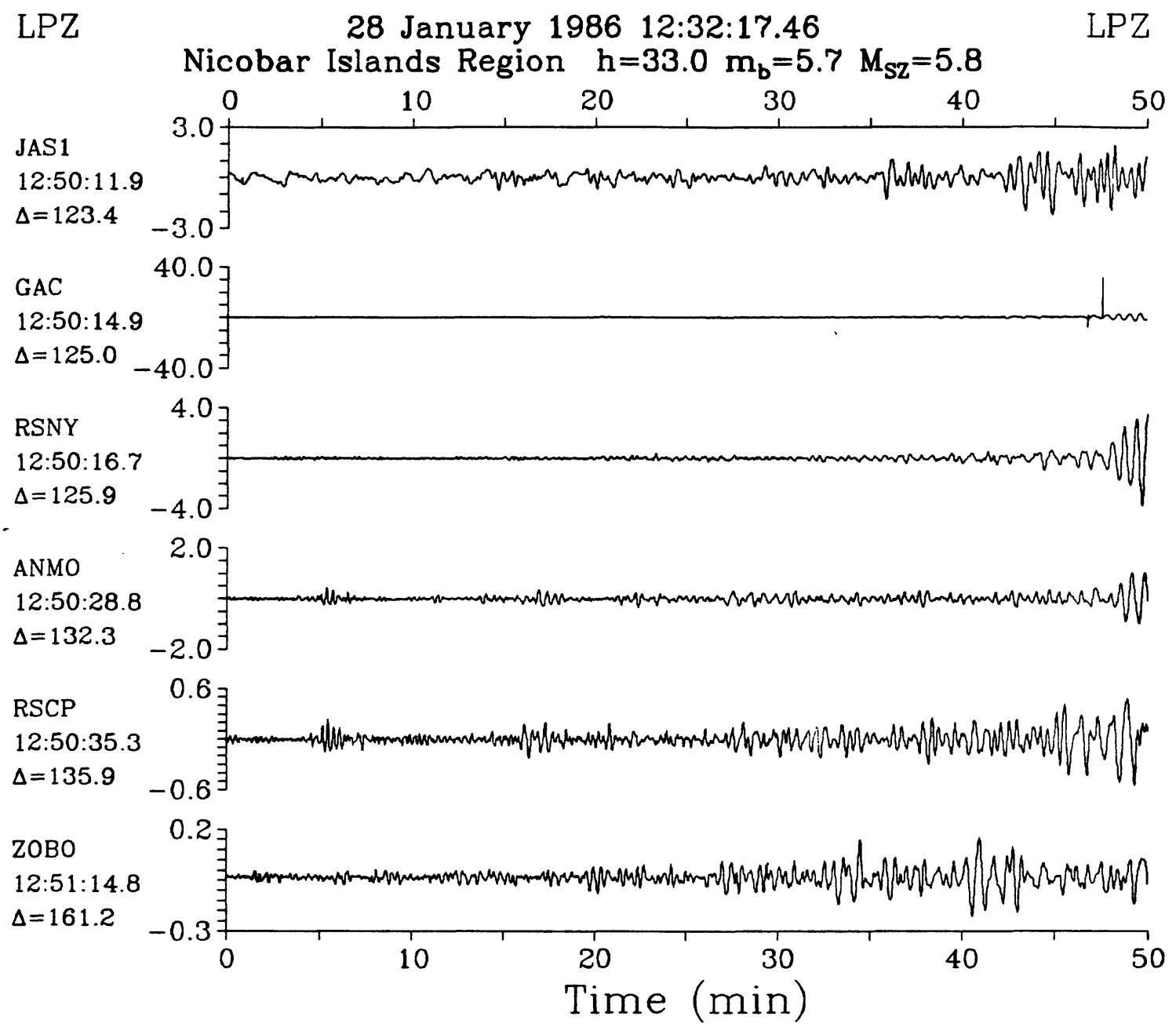
28 January 1986 12:32:17.46

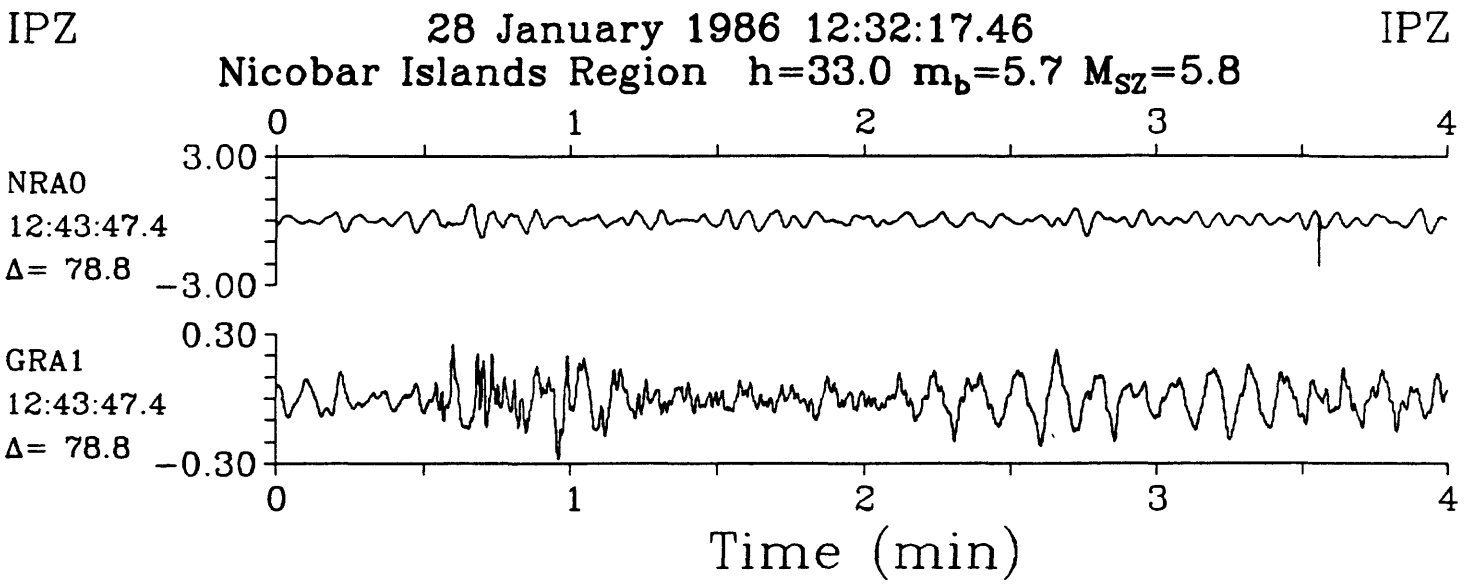
Nicobar Islands Region h=33.0 m_b=5.7 M_{SZ}=5.8




LPZ
28 January 1986 12:32:17.46
LPZ
Nicobar Islands Region h=33.0 m_b=5.7 M_{SZ}=5.8
0
10
20
30
40
50
CHTO
12:33:52.7
Δ= 11.0
50.0
-50.0
TATO
12:37:28.6
Δ= 30.6
12.0
-12.0
NWAO
12:39:45.3
Δ= 46.9
16.0
-16.0
MAJO
12:39:57.8
Δ= 48.5
12.0
-12.0
GUMO
12:40:08.2
Δ= 49.9
8.0
-8.0
CTAO
12:41:12.6
Δ= 58.7
8.0
-8.0
ANTO
12:41:38.6
Δ= 62.5
0.1
-0.1
SLR
12:42:42.1
Δ= 72.6
5.0
-5.0
KEV
12:42:50.2
Δ= 74.0
20.0
-20.0
BCAO
12:42:56.9
Δ= 75.2
6.0
-6.0
0
10
20
30
40
50
Time (min)


LPZ
28 January 1986 12:32:17.46
LPZ
Nicobar Islands Region h=33.0 m_b=5.7 M_{SZ}=5.8
0
10
20
30
40
50
NRAO
12:43:17.4
Δ= 78.8
8.0
-8.0
GRFO
12:43:17.4
Δ= 78.8
3.0
-3.0
KONO
12:43:22.5
Δ= 79.7
8.0
-8.0
TOL
12:44:17.9
Δ= 90.7
3.0
-3.0
COL
12:44:30.8
Δ= 93.5
3.0
-3.0
GDH
12:44:55.1
Δ= 99.0
7.0
-7.0
HON
12:45:13.5
Δ=103.1
2.0
-2.0
RSNT
12:45:24.3
Δ=105.6
3.0
-3.0
LON
12:46:11.0
Δ=116.1
3.0
-3.0
RSON
12:50:05.8
Δ=120.2
2.0
-2.0
0
10
20
30
40
50
Time (min)


LPZ
28 January 1986 12:32:17.46
LPZ
Nicobar Islands Region h=33.0 m_b=5.7 M_{SZ}=5.8
0
10
20
30
40
50
JAS1
12:50:11.9
Δ=123.4
3.0
-3.0
GAC
12:50:14.9
Δ=125.0
40.0
-40.0
RSNY
12:50:16.7
Δ=125.9
4.0
-4.0
ANMO
12:50:28.8
Δ=132.3
2.0
-2.0
RSCP
12:50:35.3
Δ=135.9
0.6
-0.6
ZOBO
12:51:14.8
Δ=161.2
0.2
-0.3
Time (min)


IPZ
28 January 1986 12:32:17.46
IPZ
Nicobar Islands Region h=33.0 m_b=5.7 M_{SZ}=5.8
0
1
2
3
4
3.00
NRA0
12:43:47.4
Δ= 78.8
-3.00
0.30
GRA1
12:43:47.4
Δ= 78.8
-0.30
0
1
2
3
4
Time (min)

29 January 1986 13:34:09.66

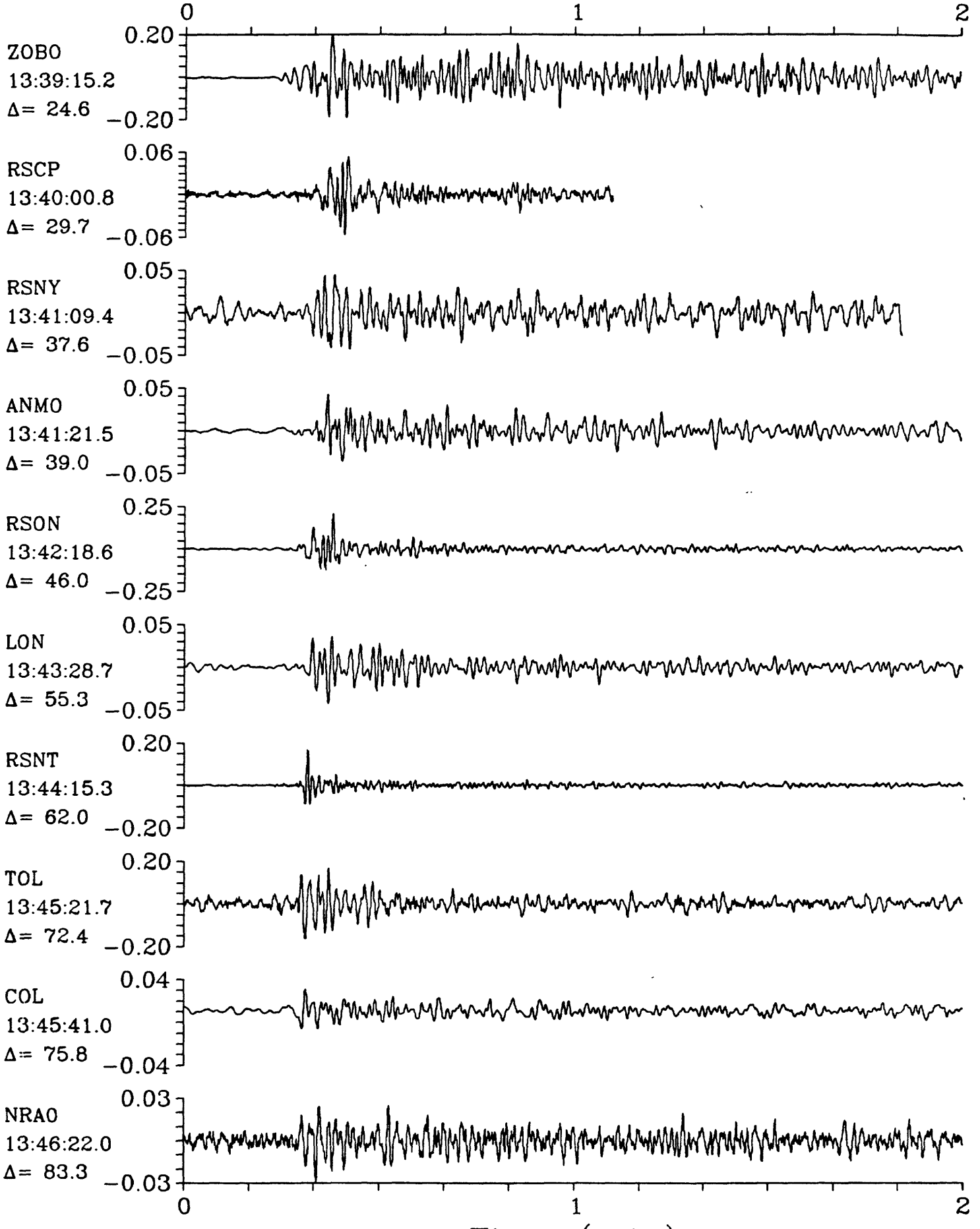
Northern Colombia

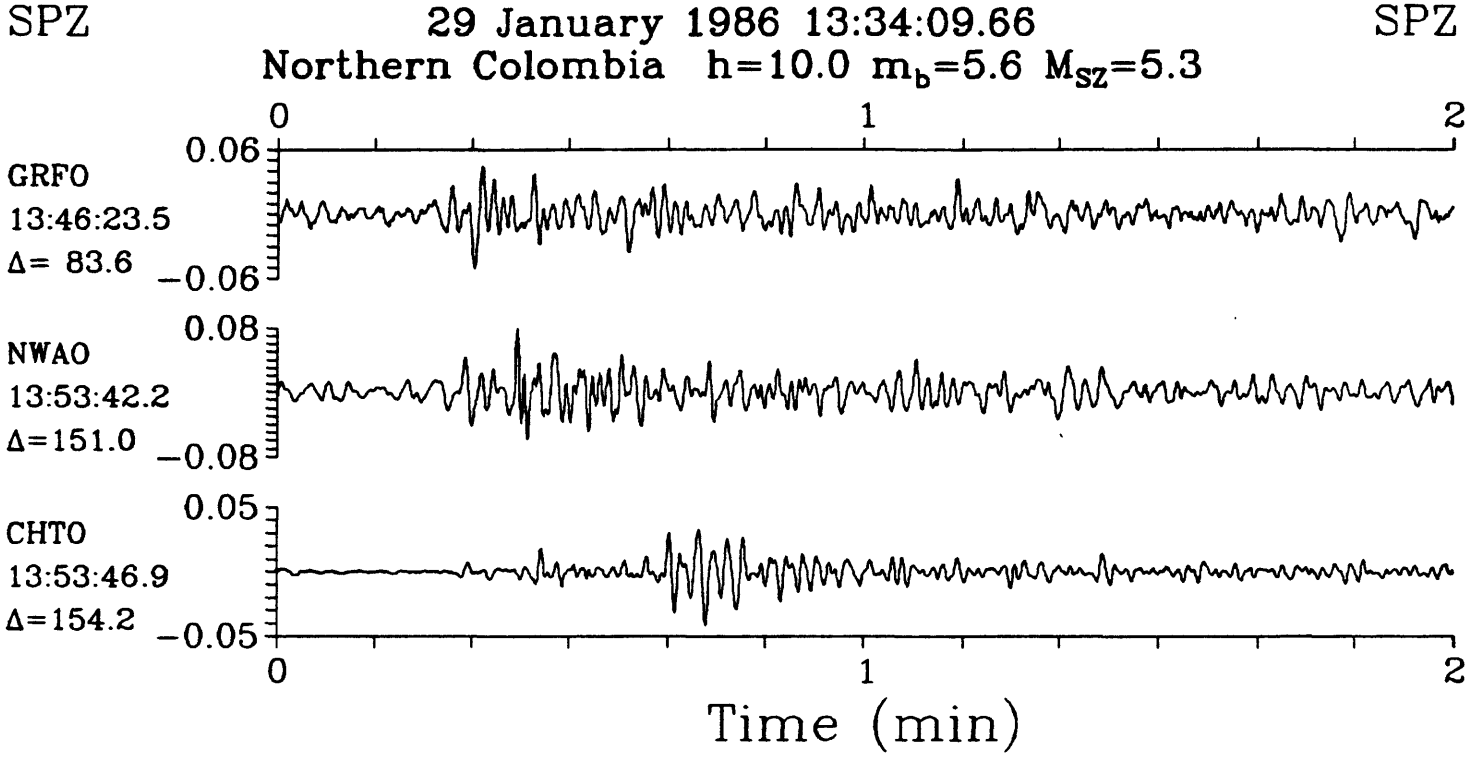
SPZ

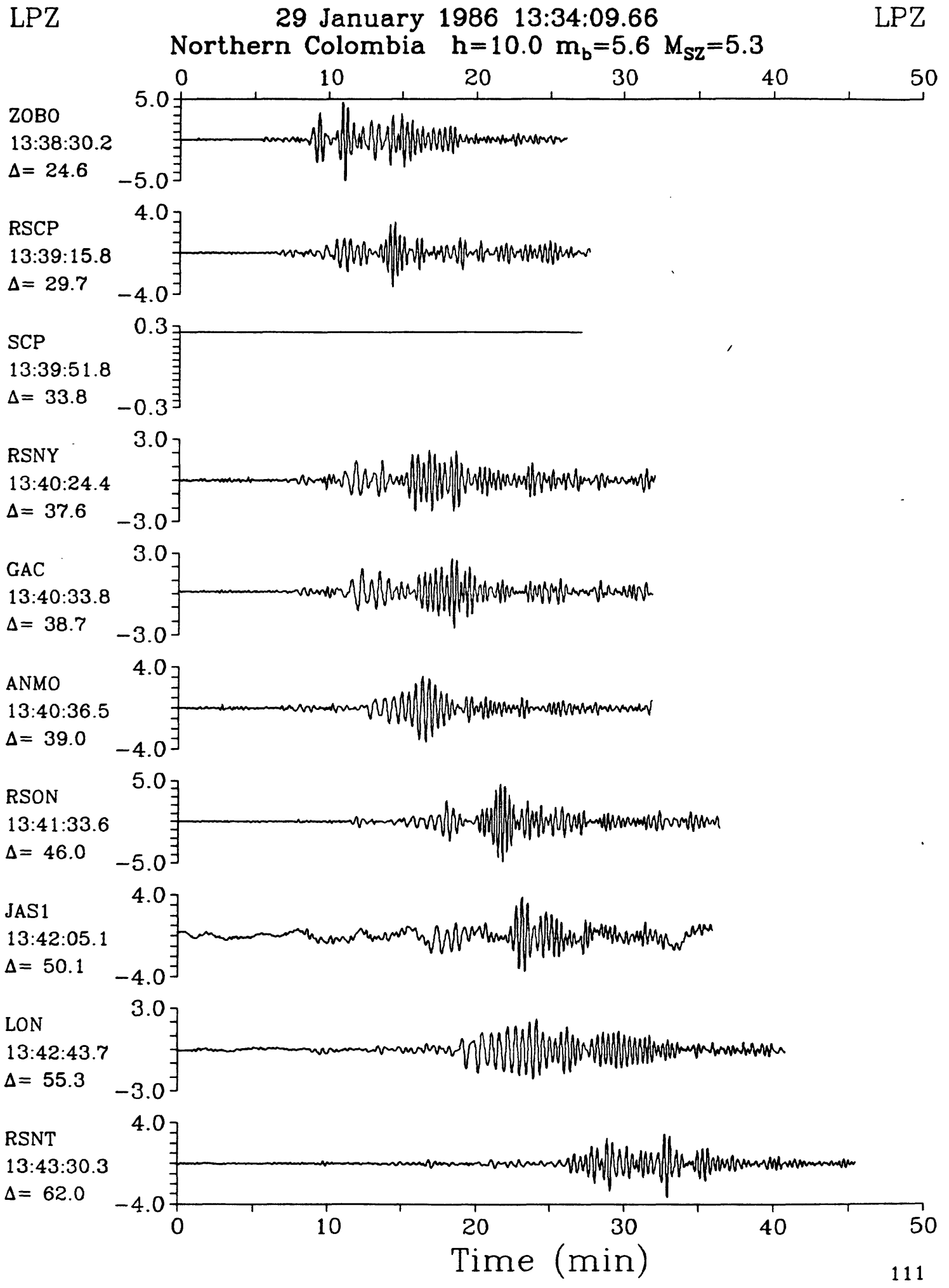
29 January 1986 13:34:09.66

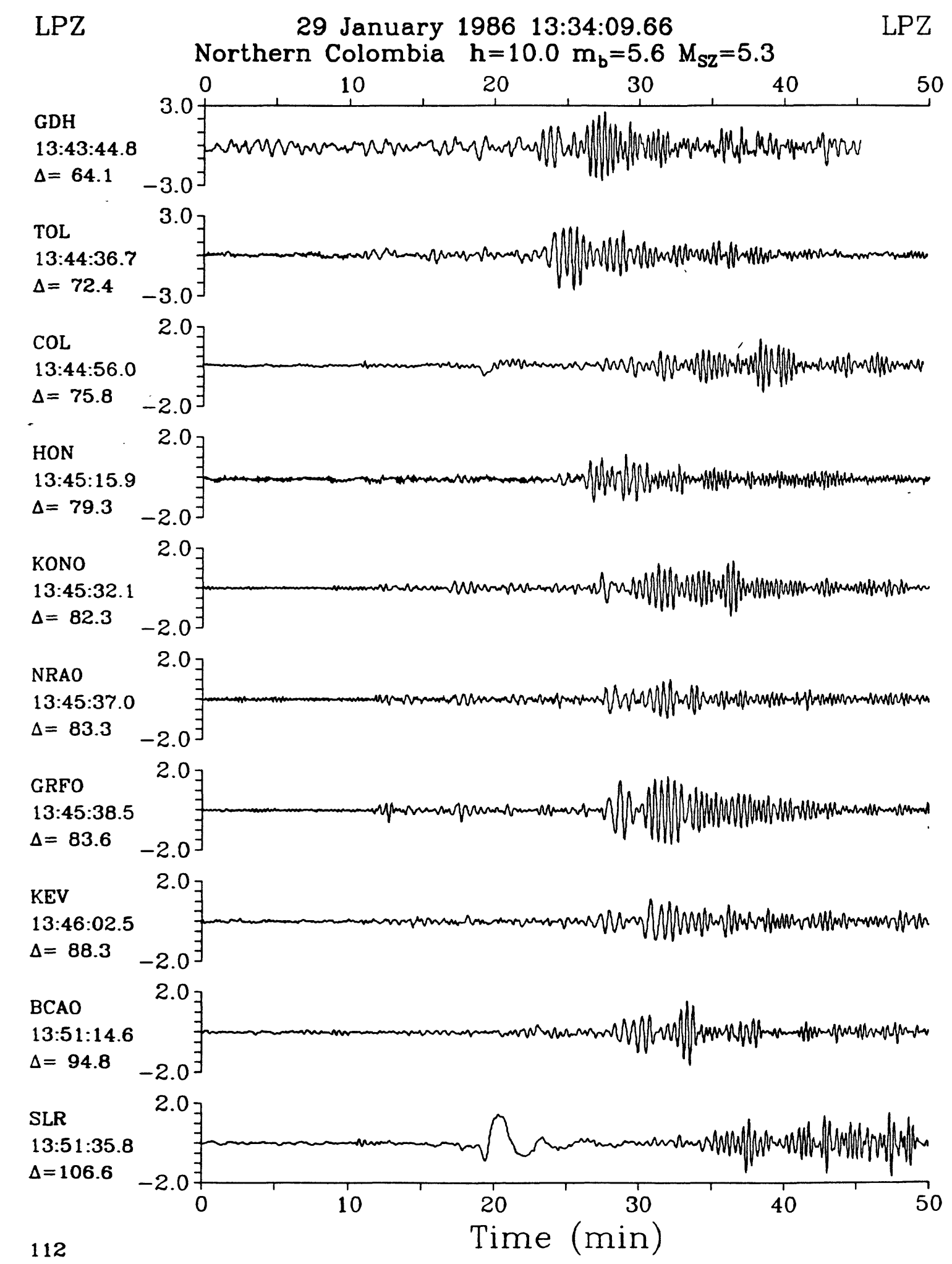
SPZ

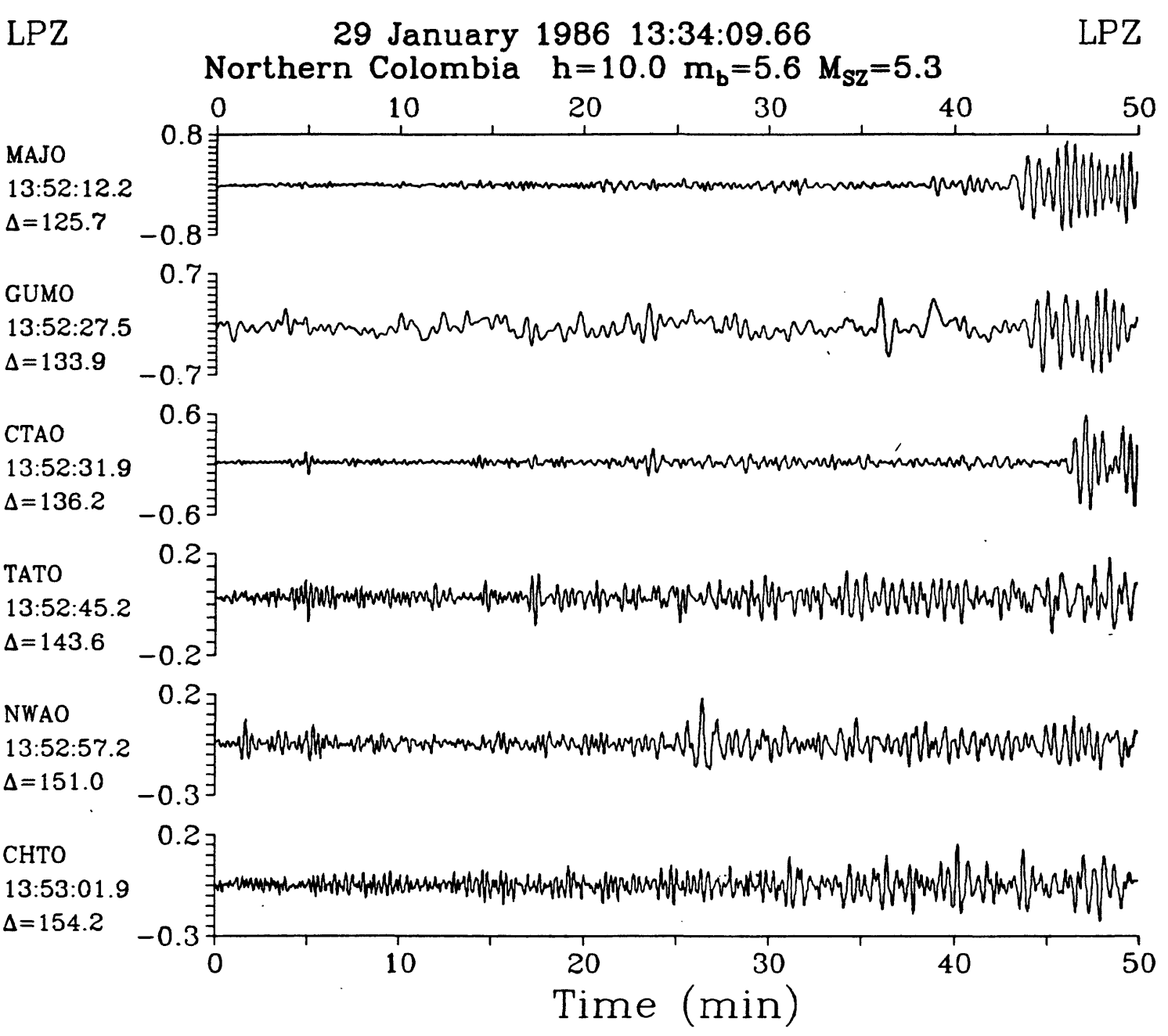
Northern Colombia h=10.0 m_b=5.6 M_{SZ}=5.3




SPZ
29 January 1986 13:34:09.66
SPZ
Northern Colombia h=10.0 m_b=5.6 M_{SZ}=5.3
GRFO
13:46:23.5
Δ= 83.6
NWAO
13:53:42.2
Δ=151.0
CHTO
13:53:46.9
Δ=154.2
0.06
−0.06
0.08
−0.08
0.05
−0.05
0
1
2
Time (min)


LPZ
29 January 1986 13:34:09.66
LPZ
Northern Colombia h=10.0 m_b=5.6 M_{SZ}=5.3
0
10
20
30
40
50
ZOBO
13:38:30.2
Δ= 24.6
5.0
-5.0
RSCP
13:39:15.8
Δ= 29.7
4.0
-4.0
SCP
13:39:51.8
Δ= 33.8
0.3
-0.3
RSNY
13:40:24.4
Δ= 37.6
3.0
-3.0
GAC
13:40:33.8
Δ= 38.7
3.0
-3.0
ANMO
13:40:36.5
Δ= 39.0
4.0
-4.0
RSON
13:41:33.6
Δ= 46.0
5.0
-5.0
JAS1
13:42:05.1
Δ= 50.1
4.0
-4.0
LON
13:42:43.7
Δ= 55.3
3.0
-3.0
RSNT
13:43:30.3
Δ= 62.0
4.0
-4.0
0
10
20
30
40
50
Time (min)


LPZ
29 January 1986 13:34:09.66
LPZ
Northern Colombia h=10.0 m_b=5.6 M_{SZ}=5.3
0
10
20
30
40
50
GDH
13:43:44.8
Δ= 64.1
3.0
-3.0
TOL
13:44:36.7
Δ= 72.4
3.0
-3.0
COL
13:44:56.0
Δ= 75.8
2.0
-2.0
HON
13:45:15.9
Δ= 79.3
2.0
-2.0
KONO
13:45:32.1
Δ= 82.3
2.0
-2.0
NRAO
13:45:37.0
Δ= 83.3
2.0
-2.0
GRFO
13:45:38.5
Δ= 83.6
2.0
-2.0
KEV
13:46:02.5
Δ= 88.3
2.0
-2.0
BCAO
13:51:14.6
Δ= 94.8
2.0
-2.0
SLR
13:51:35.8
Δ=106.6
2.0
-2.0
0
10
20
30
40
50
Time (min)


LPZ
29 January 1986 13:34:09.66
LPZ
Northern Colombia h=10.0 m_b=5.6 M_{SZ}=5.3
0
10
20
30
40
50
MAJO
13:52:12.2
Δ=125.7
0.8
−0.8
GUMO
13:52:27.5
Δ=133.9
0.7
−0.7
CTAO
13:52:31.9
Δ=136.2
0.6
−0.6
TATO
13:52:45.2
Δ=143.6
0.2
−0.2
NWAO
13:52:57.2
Δ=151.0
0.2
−0.3
CHTO
13:53:01.9
Δ=154.2
0.2
−0.3
0
10
20
30
40
50
Time (min)