

Syrian Arab Republic
Ministry of Petroleum and Mineral Resources
National Earthquake Center

Seismological Bulletin

from the

National Seismological Network
(*SNSN*)

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Prepared by

The Staff of National Earthquake Center (NEC)

Tel : +963-11-2261302

E-Mail : info@nec.gov.sy

Fax : +963-11-2261315

Web Sit : www.NEC.gov.sy

Syria-Damascus-Fardouse ST.

GENERAL BULLETIN INFORMATION

The location program currently used for locating earthquakes is Hypocenter (Lienert et al., 1986). Plane parallel layers are assumed for local and regional events, while the IASPEI travel time tables are used for distant events.

The model used for all local and regional events, except for the Arctic island Jan Mayen, is published by Havskov and Bungum (1987).

P-wave velocity (km/sec) depth to top of layer (km)

5.68	0.0
5.87	4.0
6.18	10.00
6.74	18.00
8.00	37.50
8.00	50.00

Magnitudes are calculated from coda duration and/or amplitudes. The coda wave magnitude is estimated via the formula (Engell-Sorensen, personal communication):

$$M_c = -3.0 + 2.6 * \log_{10}(T) + 0.001 * D.$$

where T is the coda duration (sec) and D is the epicentral distance (km).

If instrument corrected maximum ground amplitudes A(nm) are available, local magnitude M_l is calculated by the following formula (Alsaker et al., 1991):

$$M_l = 0.925 * \log(A) + 0.91 * \log(D) + 0.00087 * D - 1.31$$

As a general policy, neither depths nor epicenters are fixed unless stated since this might restrict later use of the data. As a consequence, some event locations might be unrealistic like zero depth earthquakes around Jan Mayen or teleseismic locations off by 1000 km. However, the locations are based on the available data and reflect the location procedure and the models used.

STATIONS USED

The stations listed below are those operated by the National Earthquake center (NEC).

STATION	LATITUDE	LONGITUDE	HEIGHT (m)	NAME
SALM	3612.83N	3755.67E	510	salma
HAWK	3431.27N	3624.33E	1000	HAWEEK
JHLN	3539.88N	3826.01E	389	JAHLAN
BIDA	3502.74N	3618.91E	890	BIDA
KFRA	3512.70N	3647.87E	650	KfRAa
ZALF	3255.37N	3720.12E	670	ZALF
SALA	3242.65N	3643.90E	1740	SALA
TOTH	3321.68N	3625.73E	696	TOTAH
TCHB	3240.00N	3558.00E	450	TL-shahab
BARV	3324.58N	3557.00E	1740	BRBR
QASN	3331.97N	3616.48E	1145	QASUN
DRWC	3637.27N	3639.93E	940	DARWISH
BTCH	3602.23N	3627.52E	795	BTRSH
ARNB	3551.65N	3558.33E	765	ARNAB
WRDH	3530.50N	3624.65E	695	WAREDA
SLNF	3535.32N	3613.01E	1563	SLINFA
ROOS	3410.16N	3717.35E	843	ALROOS
MARH	3401.57N	3628.90E	640	RAS MAARA
RABH	3426.27N	3712.58E	890	RABAH
KBSD	3700.08N	4032.58E	526	KBSDAGH
MZRK	3549.60N	4039.15E	373	MAZAREGH
MNKR	3556.55N	3916.25E	376	MNKER
SRMV	3439.35N	3937.63E	409	SRAYM
DRBT	3630.65N	3829.20E	596	DRB TEHTA
SFNV	3625.08N	4006.07E	810	SFYAN
KSRV	3514.40N	3900.43E	400	KSRH ALI

Abbreviations:

TIME: Origin time in UTC (hr. min. and sec.) or data file onset time if event is not located.
LAT: Latitude of epicenter
LON: Longitude of epicenter
DEPTH: Focal depth in kilometer (trailing F indicates fixed depth)
AGENCY: Hypocenter reporting agency e.g. BER (Bergen), NAO (Norsar)
MAGNITUDES: Up to 3 different magnitudes can be given followed by type and reporting agency, e.g. 3.1 MC BER - coda magnitude calculated in Bergen.
RMS: Root mean square value of travel time residuals
STAT: Station code
CO: Component, S:short period, L:long period, B:broadband,
DIST: Epicenter distance (km)
AZI: Azimuth from source to station
PHAS: Phase; The first letter characterizes onset E(mergent) or I(mpulsive)
P: Polarity (C for compression, D for dilatation)
HR: Hour
MN: Minute
SECON: Seconds
TRES: Residual (seconds)
CODA: Signal duration in seconds
AMPL: Ground Amplitude (0.5*(peak to peak)), (nm) at period PERI
PERI: Period where amplitude is measured
BAZ: Back azimuth (station to event)
ARES: Back azimuth residual
VELO: Apparent phase velocity (km/sec)
WT: Weight of phase in the location
*: An asterix before the phase arrival time implies a potential timing error. If an S phase is read, differential S-P times will be used in the hypocenter location.

Notice:The Depth is uncertain.

References:

- Alsaker, A., Kvamme, L.B., Hansen, R.A., Dahle, A. and Bungum, H. (1991). The ML scale in Norway. Bull. Seism. Soc. Am., 81, pp. 379-398.
- Havskov, J. and Bungum, H. (1987). Source parameters for earthquakes in the northern North Sea, Norsk Geologisk Tidsskrift. 67, pp.51-58.
- Lienert, B.R., Berg, E. and Frazer, L.N.(1986). Hypocenter: An earthquake location method using centered, scaled, and adaptively least squares. Bull. Seism. Soc. Am., 76., pp 771-783.
- Sornes, A. and Navrestad, T. (1975). Seismic survey of Jan Mayen. Norsk Polarinstitutt, Arbok 37-52, Norsk Polarinstitutt, Oslo, Norway.
- Westre, S. (1975). Richter's lokale magnitude og total signal varighet for lokale jordskjelv pa Jan Mayen. Cand. real thesis., Seismological Observatory, University of Bergen, Norway.

May 29 2010 Hour: 9:33 1.7 Lat: 31.95N Lon: 36.10E Depth: 0 Agency: NEC Local
Magnitudes: 1.6ML NEC Rms: 0.4 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TCHB	SZ	80	351	EP		933	16.00	-0.03							1.0
SALA	SZ	103	35	EP		933	20.31	0.27							1.0
SALA	SE	103	35	ES		933	32.35	-0.59							1.0
ZALF	SZ	158	47	EP		933	28.36	-0.12							1.0
ZALF	SN	158	47	ES		933	47.93	0.47							1.0
ZALF	SE	158	47	AML		933	54.02			9	0.3				
BARB	SZ	162	355	EP		933	28.41	-0.35							1.0
BARB	SE	162	355	ES		933	49.11	0.36							1.0
BARB	SE	162	355	AML		933	54.40			21	0.4				
BARB	SN	162	355	AML		933	54.89			11	0.3				

May 29 2010 Hour: 10:12 51.1 Lat: 34.42N Lon: 36.76E Depth: 0 Agency: NEC Local
Magnitudes: 2.3ML NEC 1.0MC NEC Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HAWK	SZ	35	288	EP		1012	56.94	-0.55	48						1.0
HAWK	SN	35	288	ES		1013	2.33	-0.31							1.0
HAWK	SN	35	288	AML		1013	4.53			784	0.3				
HAWK	SE	35	288	AML		1013	5.92			752	0.3				
MARH	SZ	51	211	EP		1012	59.72	-0.87	65						1.0
MARH	SE	51	211	AML		1013	13.64			94	0.3				
BIDA	SZ	80	329	EP		1013	5.66	0.34	71						1.0
BIDA	SN	80	329	ES		1013	16.24	0.51							1.0
BIDA	SN	80	329	AML		1013	19.22			73	0.4				
BIDA	SE	80	329	AML		1013	19.45			258	0.4				
BARB	SZ	135	214	EP		1013	15.07	0.90							1.0
BARB	SE	135	214	ES		1013	31.95	0.60							1.0
BARB	SN	135	214	AML		1013	38.67			21	0.8				
ARNB	SN	175	336	ES		1013	41.12	-0.03							1.0
ARNB	SN	175	336	AML		1013	47.18			96	0.3				
ZALF	SZ	175	162	EP		1013	20.06	-0.28							1.0
ZALF	SN	175	162	EP		1013	40.27								
ARNB	SZ	175	336	EP		1013	19.68	-0.32							1.0

May 29 2010 Hour: 10:20 44.5 Lat: 34.45N Lon: 36.76E Depth: 0 Agency: NEC Local
Magnitudes: 2.1ML NEC 0.6MC NEC Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HAWK	SZ	34	284	EP		1020	50.04	-0.67	46						1.0
HAWK	SN	34	284	ES		1020	55.74	-0.02							1.0
HAWK	SN	34	284	AML		1020	57.82			265	0.3				
HAWK	SE	34	284	AML		1020	59.04			235	0.3				
BARB	SZ	137	213	EP		1021	8.57	0.73							1.0
BARB	SE	137	213	ES		1021	25.31	0.07							1.0
ARNB	SZ	173	336	EP		1021	13.58	0.58							1.0
ARNB	SN	173	336	ES		1021	33.80	-0.11							1.0
ZALF	SZ	177	162	EP		1021	13.49	-0.58							1.0

May 29 2010 Hour: 10:59 22.6 Lat: 33.89N Lon: 36.16E Depth: 1 Agency: NEC Local
Magnitudes: 2.1ML NEC 1.2MC NEC Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MARH	SZ	33	62	EP		1059	28.51	-0.42							1.0
QASN	SZ	41	165	EP		1059	29.78	-0.54							1.0
QASN	SE	41	165	AML		1059	35.93			784	0.2				
QASN	SN	41	165	AML		1059	36.07			754	0.3				
BARB	SZ	56	201	EP		1059	33.16	0.61	47						1.0
BARB	SN	56	201	ES		1059	39.82	-0.45							1.0
BARB	SE	56	201	AML		1059	41.53			45	0.3				
BARB	SN	56	201	AML		1059	41.76			19	0.5				
ZALF	SZ	153	134	EP		1059	49.30	0.87							1.0
ZALF	SE	153	134	ES		11 0	6.63	-0.06							1.0

May 29 2010 Hour: 11:48 57.6 Lat: 34.44N Lon: 36.67E Depth: 12 Agency: NEC Local
 Magnitudes: 2.3ML NEC 1.0MC NEC Rms: 0.9 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HAWK	SZ	26	292	EP		1149	2.54	-0.25	52						1.0
HAWK	SN	26	292	ES		1149	7.31	0.91							1.0
HAWK	SN	26	292	AML		1149	9.16			877	0.4				
HAWK	SE	26	292	AML		1149	12.27			473	0.4				
MARH	SZ	48	201	EP		1149	5.73	-0.90	68						1.0
MARH	SN	48	201	ES		1149	12.37	-0.53							1.0
MARH	SN	48	201	AML		1149	19.72			271	0.5				
ROOS	SZ	65	117	EP		1149	9.73	0.58							1.0
BIDA	SZ	75	335	EP		1149	10.83	0.35							1.0
BIDA	SN	75	335	ES		1149	20.35	0.24							1.0
WRDH	SZ	121	349	EP		1149	16.69	-0.65	68						1.0
WRDH	SE	121	349	ES		1149	32.37	0.48							1.0
WRDH	SE	121	349	AML		1149	36.60			86	0.3				
WRDH	SN	121	349	AML		1149	36.99			64	0.3				
ARNB	SZ	170	338	EP		1149	25.92	1.29							1.0
ARNB	SN	170	338	ES		1149	44.35	0.06							1.0
ARNB	SN	170	338	AML		1149	49.43			71	0.3				
ARNB	SE	170	338	AML		1149	50.98			85	0.3				
BTCH	SE	179	354	AML		1149	49.59			57	0.4				
ZALF	SZ	179	159	EP		1149	26.05	-0.02							1.0
BTCH	SZ	179	354	EP		1149	23.68	-2.19							1.0
BTCH	SE	179	354	ES		1149	45.59	-0.52							1.0
ZALF	SE	179	159	ES		1149	47.21	1.12							1.0
ZALF	SE	179	159	AML		1149	49.73			27	0.7				
ZALF	SN	179	159	AML		1149	51.51			26	0.5				

May 29 2010 Hour: 12:35 35.2 Lat: 36.45N Lon: 37.42E Depth: 27 Agency: NEC Local
 Magnitudes: 1.7ML NEC Rms: 0.4 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BTCH	SZ	98	242	EP		1235	50.89	-0.57							1.0
BTCH	SN	98	242	ES		1236	3.36	0.35							1.0
BTCH	SN	98	242	AML		1236	6.30			33	0.5				
BTCH	SE	98	242	AML		1236	6.98			63	0.4				
WRDH	SZ	138	221	EP		1235	57.07	0.11							1.0
WRDH	SE	138	221	ES		1236	12.78	-0.06							1.0
ARNB	SZ	146	244	EP		1235	58.37	0.46							1.0
ARNB	SN	146	244	ES		1236	14.13	-0.28							1.0
ARNB	SE	146	244	AML		1236	22.46			9	0.4				
ARNB	SN	146	244	AML		1236	24.32			12	0.6				

May 29 2010 Hour: 14:21 32.2 Lat: 32.19N Lon: 36.00E Depth: 26 Agency: NEC Local
 Magnitudes: 0.9ML NEC Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TCHB	SZ	53	357	EP		1421	41.32	-0.67							1.0
SALA	SZ	90	50	EP		1421	48.31	0.74							1.0
SALA	SN	90	50	ES		1421	58.31	0.00							1.0
SALA	SN	90	50	AML		1422	2.26			11	0.7				
SALA	SE	90	50	AML		1422	3.84			1.00	0.6				
BARB	SZ	136	358	EP		1421	53.60	-0.19							1.0
BARB	SE	136	358	ES		1422	10.07	0.48							1.0
ZALF	SZ	150	57	EP		1421	56.13	0.26							1.0
ZALF	SN	150	57	ES		1422	11.74	-0.63							1.0
ZALF	SN	150	57	AML		1422	13.25			4	0.2				
ZALF	SE	150	57	AML		1422	15.00			5	0.2				

May 30 2010 Hour: 3: 9 13.7 Lat: 37.02N Lon: 40.87E Depth: 0 Agency: NEC Local
 Magnitudes: 2.6ML NEC 1.5MC NEC Rms: 5.9 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KBSD	SZ	29	267	EP		3	9	14.36-4.38							1.0
KBSD	SE	29	267	ES		3	9	19.44-3.87							1.0
MZRK	SZ	133	188	EP		3	9	36.54 0.16	71						1.0
MZRK	SE	133	188	ES		3	9	45.80-7.30							1.0
MZRK	SZ	133	188	AML		3	9	50.60		159	0.4				
MZRK	SN	133	188	AML		3	9	51.95		203	0.8				
MZRK	SE	133	188	AML		3	9	52.90		301	0.6				
MNKR	SZ	186	231	EP		3	9	52.48 8.22	71						1.0
MNKR	SE	186	231	ES		310		13.61 7.17							1.0
MNKR	SE	186	231	AML		310		14.56		42	0.2				
MNKR	SN	186	231	AML		310		18.52		99	0.2				
MNKR	SZ	186	231	AML		310		19.61		135	0.2				

May 30 2010 Hour: 3: 9 28.1 Lat: 35.55N Lon: 41.08E Depth: 39 Agency: NEC Local
 Rms: 1.0 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KBSD	SN	168	344	EP		3	9	51.88-0.81							1.0
MNKR	SZ	169	285	EP		3	9	53.35 0.39							1.0
MNKR	SN	169	285	ES		310		11.73 0.86							1.0
KSRV	SZ	191	260	EP		3	9	56.89 1.16							1.0
KSRV	SN	191	260	ES		310		14.05-1.60							1.0

May 30 2010 Hour: 9:37 29.9 Lat: 33.80N Lon: 37.02E Depth: 5 Agency: NEC Local
 Magnitudes: 1.2ML NEC Rms: 0.8 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZALF	SZ	102	163	EP		937		47.92 0.27							1.0
ZALF	SN	102	163	ES		938		0.78 0.92							1.0
ZALF	SE	102	163	AML		938		13.00		6	0.6				
ZALF	SN	102	163	AML		938		15.50		6	0.4				
BARB	SZ	109	247	EP		937		47.60-0.83							1.0
BARB	SN	109	247	ES		938		3.18 1.09							1.0
BARB	SN	109	247	AML		938		6.71		6	0.3				
BARB	SE	109	247	AML		938		10.98		12	0.4				
SALA	SZ	124	193	EP		937		50.44-0.67							1.0
SALA	SN	124	193	ES		938		5.11-1.04							1.0
SALA	SE	124	193	AML		938		11.55		2	0.3				
SALA	SN	124	193	AML		938		11.73		11	0.3				
BIDA	SZ	153	335	EP		937		55.66 0.57							1.0
BIDA	SN	153	335	ES		938		13.01-0.30							1.0
BIDA	SE	153	335	AML		938		18.05		17	0.6				
BIDA	SN	153	335	AML		938		19.75		7	0.4				

May 30 2010 Hour: 10: 8 28.7 Lat: 33.62N Lon: 36.25E Depth: 0 Agency: NEC Local
 Magnitudes: 1.2ML NEC Rms: 0.4 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QASN	SZ	10	168	EP		10	8	30.85-0.26							1.0
QASN	SN	10	168	ES		10	8	32.33 0.13							1.0
TOTH	SZ	33	151	EP		10	8	35.66 0.36							1.0
TOTH	SN	33	151	ES		10	8	40.72 0.93							1.0
TOTH	SN	33	151	AML		10	8	41.49		49	0.4				
TOTH	SE	33	151	AML		10	8	45.38		36	0.3				
BARB	SZ	37	230	EP		10	8	35.16-0.05							1.0
BARB	SN	37	230	ES		10	8	40.98 0.04							1.0
BARB	SN	37	230	AML		10	8	42.42		31	0.2				
BARB	SE	37	230	AML		10	8	42.50		63	0.3				
MARH	SZ	49	25	EP		10	8	37.90 0.02							1.0
MARH	SN	49	25	ES		10	8	44.99 0.25							1.0
MARH	SN	49	25	AML		10	8	50.23		39	0.2				
MARH	SE	49	25	AML		10	8	53.84		20	0.5				
SALA	SZ	111	156	EP		10	8	47.96-0.34							1.0

SALA	SN	111	156	ES	10	9	1.93-0.24										1.0
SALA	SE	111	156	AML	10	9	6.33			1	0.3						
SALA	SN	111	156	AML	10	9	12.69			8	0.4						
ZALF	SZ	127	127	EP	10	8	50.56-0.34										1.0
ZALF	SN	127	127	ES	10	9	6.14-0.50										1.0
ZALF	SE	127	127	AML	10	9	11.51			8	0.6						
ZALF	SN	127	127	AML	10	9	14.06			7	0.5						

May 30 2010 Hour: 10:36 7.8 Lat: 35.57N Lon: 39.19E Depth: 13 Agency: NEC Local
Magnitudes: 1.6ML NEC Rms: 0.8 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KSRV	SZ	40	205	EP		1036	14.91-0.21								1.0
KSRV	SN	40	205	ES		1036	20.31-0.14								1.0
KSRV	SZ	40	205	AML		1036	26.75			41	0.4				
MNKR	SZ	42	9	EP		1036	15.10-0.36								1.0
MNKR	SN	42	9	ES		1036	21.05 0.01								1.0
MNKR	SZ	42	9	AML		1036	22.63			354	0.5				
SFNV	SZ	125	41	EP		1036	30.23 1.69								1.0
SFNV	SN	125	41	ES		1036	42.10-0.98								1.0
SFNV	SZ	125	41	AML		1036	51.60			4	0.3				

May 30 2010 Hour: 11:19 56.8 Lat: 35.81N Lon: 36.26E Depth: 1 Agency: NEC Local
Magnitudes: 1.2ML NEC Rms: 0.2 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ARNB	SZ	27	282	EP		1120	1.29-0.34								1.0
ARNB	SN	27	282	ES	D	1120	6.09 0.21								1.0
ARNB	SE	27	282	AML		1120	9.26			32	0.3				
ARNB	SN	27	282	AML		1120	11.72			25	0.8				
BTCH	SZ	30	35	EP		1120	2.50 0.09								1.0
BTCH	SN	30	35	ES		1120	6.87-0.01								1.0
BTCH	SE	30	35	AML		1120	9.44			45	0.6				
BTCH	SN	30	35	AML		1120	9.74			36	0.4				
WRDH	SZ	36	159	EP		1120	3.23 0.03								1.0
WRDH	SN	36	159	ES		1120	8.56 0.03								1.0
WRDH	SN	36	159	AML		1120	11.02			14	0.3				
WRDH	SE	36	159	AML		1120	12.15			27	0.3				

May 30 2010 Hour: 11:34 54.5 Lat: 35.74N Lon: 28.73E Depth: 26 Agency: NEC Local
Magnitudes: 3.0ML NEC Rms: 0.6 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ARNB	SZ	654	87	EP		1136	21.24 0.31								1.0
ARNB	SN	654	87	ES		1137	23.03-0.50								1.0
ARNB	SE	654	87	AML		1137	35.30			35	0.6				
ARNB	SN	654	87	AML		1137	37.27			33	0.7				
BIDA	SZ	693	94	EP		1136	26.91 1.06								1.0
BIDA	SN	693	94	ES		1137	31.74-0.14								1.0
BIDA	SN	693	94	AML		1137	37.08			37	0.2				
BIDA	SE	693	94	AML		1137	37.31			111	0.5				
WRDH	SZ	696	90	EP		1136	25.79-0.27								1.0
WRDH	SN	696	90	ES		1137	32.74 0.29								1.0
WRDH	SE	696	90	AML		1137	38.55			21	0.3				
WRDH	SN	696	90	AML		1137	40.57			21	0.3				
BTCH	SZ	698	85	EP		1136	26.17-0.43								1.0
BTCH	SN	698	85	ES		1137	32.81-0.17								1.0
BTCH	SE	698	85	AML		1137	48.83			55	0.4				
BTCH	SN	698	85	AML		1137	49.58			28	0.3				
BARB	SZ	711	109	EP		1136	27.81-0.23								1.0
BARB	SN	711	109	ES		1137	35.11-0.80								1.0
BARB	SN	711	109	AML		1137	40.69			22	0.7				
BARB	SE	711	109	AML		1137	42.19			35	0.7				
HAWK	SZ	712	99	EP		1136	28.66 0.28								1.0
HAWK	SN	712	99	ES		1137	36.40 0.38								1.0
HAWK	SN	712	99	AML		1137	42.68			45	0.3				
HAWK	SE	712	99	AML		1137	46.10			25	0.6				

TCHB	SZ	748	115	EP		1136	31.84	-1.03									1.0
TCHB	SN	748	115	ES		1137	44.43	0.69									1.0
TCHB	SE	748	115	AML		1137	50.87			53	0.3						
TCHB	SN	748	115	AML		1137	54.86			37	0.5						
SALA	SZ	810	112	EP		1136	40.82	0.04									1.0
SALA	SN	810	112	ES		1137	56.60	-0.64									1.0
SALA	SN	810	112	AML		1138	9.08			12	0.6						
ZALF	SZ	851	109	EP		1136	46.17	0.32									1.0
ZALF	SN	851	109	ES		1138	6.65	0.83									1.0
ZALF	SN	851	109	AML		1138	27.48			5	0.4						
ZALF	SE	851	109	AML		1138	29.53			6	0.5						

May 30 2010 Hour: 11:38 14.8 Lat: 29.47N Lon: 36.63E Depth: 0 Agency: NEC Local
 Magnitudes: 1.9ML NEC Rms: 0.7 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SALA	SZ	360	1	EP		1139	7.63	0.09							1.0
SALA	SN	360	1	ES		1139	43.98	-1.40							1.0
SALA	SE	360	1	AML		1139	56.43			2	0.6				
SALA	SN	360	1	AML		1139	59.28			19	0.4				
ZALF	SZ	389	10	EP		1139	11.74	0.62							1.0
ZALF	SN	389	10	ES		1139	51.77	0.37							1.0
ZALF	SE	389	10	AML		1140	4.33			14	0.5				
ZALF	SN	389	10	AML		1140	7.94			7	0.6				
BARB	SZ	442	352	EP		1139	17.59	0.15							1.0
BARB	SN	442	352	ES		1140	3.61	0.52							1.0
BARB	SE	442	352	AML		1140	18.78			6	0.4				
BARB	SN	442	352	AML		1140	22.59			6	0.5				
MARH	SZ	506	358	EP		1139	25.06	-0.90							1.0
MARH	SN	506	358	ES		1140	17.62	0.55							1.0

May 30 2010 Hour: 11:41 1.1 Lat: 33.00N Lon: 35.80E Depth: 0 Agency: NEC Local
 Magnitudes: 0.9ML NEC Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BARB	SZ	48	17	EP		1141	9.30	-0.22							1.0
BARB	SN	48	17	ES		1141	16.49	0.10							1.0
BARB	SN	48	17	AML		1141	20.77			8	0.5				
BARB	SE	48	17	AML		1141	22.02			10	0.3				
SALA	SZ	93	110	EP		1141	18.51	0.84							1.0
SALA	SN	93	110	ES		1141	28.72	-0.61							1.0
SALA	SN	93	110	AML		1141	35.60			8	0.4				
SALA	SE	93	110	AML		1141	37.53			0.90	0.3				
ZALF	SZ	144	93	EP		1141	25.05	-0.60							1.0
ZALF	SN	144	93	ES		1141	43.53	0.47							1.0
ZALF	SN	144	93	AML		1141	49.39			6	0.4				
ZALF	SE	144	93	AML		1141	51.72			3	0.5				

May 30 2010 Hour: 12:46 2.9 Lat: 33.39N Lon: 35.44E Depth: 9 Agency: NEC Local
 Magnitudes: 1.5ML NEC Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BARB	SZ	47	87	EP		1246	11.94	0.74							1.0
BARB	SN	47	87	ES		1246	16.64	-0.83							1.0
BARB	SE	47	87	AML		1246	20.40			64	0.4				
BARB	SN	47	87	AML		1246	21.78			41	0.4				
MARH	SZ	119	53	EP		1246	24.02	0.83							1.0
MARH	SN	119	53	ES		1246	38.37	0.78							1.0
MARH	SN	119	53	AML		1246	47.15			28	0.4				
MARH	SE	119	53	AML		1246	49.02			10	0.3				
SALA	SZ	142	122	EP		1246	26.09	-0.28							1.0
SALA	SN	142	122	ES		1246	42.93	-0.13							1.0
SALA	SN	142	122	AML		1246	48.43			13	0.2				
SALA	SE	142	122	AML		1246	49.40			2	0.3				
HAWK	SZ	154	35	EP		1246	27.51	-0.48							1.0
HAWK	SN	154	35	ES		1246	45.75	-0.22							1.0
HAWK	SE	154	35	AML		1246	52.00			15	0.6				

HAWK	SN	154	35	AML		1246	56.26			12	0.5					
ZALF	SZ	184	106	EP		1246	32.57	0.22								1.0
ZALF	SN	184	106	ES		1246	53.04	-0.08								1.0
ZALF	SE	184	106	AML		1246	57.18			11	0.2					
ZALF	SN	184	106	AML		1246	57.51			11	0.3					
ARNB	SZ	279	10	EP		1246	43.81	-0.01								1.0
ARNB	SN	279	10	ES		1247	13.01	-0.56								1.0
ARNB	SN	279	10	AML		1247	23.19				8	0.4				
ARNB	SE	279	10	AML		1247	30.43				7	0.6				

May 30 2010 Hour: 16:56 3.3 Lat: 33.32N Lon: 35.41E Depth: 8 Agency: NEC Local
Magnitudes: 2.1ML NEC 1.4MC NEC Rms: 0.6 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BARB	SZ	51	78	EP		1656	12.97	0.68	56						1.0
BARB	SN	51	78	ES		1656	19.28	0.28							1.0
BARB	SE	51	78	AML		1656	21.45			199	0.5				
BARB	SN	51	78	AML		1656	23.18			123	0.3				
QASN	SZ	84	73	EP		1656	18.25	0.10	72						1.0
QASN	SN	84	73	ES		1656	28.36	0.11							1.0
QASN	SE	84	73	AML		1656	31.18			384	0.5				
QASN	SN	84	73	AML		1656	31.51			295	0.5				
TCHB	SZ	89	144	EP		1656	18.72	0.10	84						1.0
TCHB	SN	89	144	ES		1656	28.89	-0.68							1.0
TCHB	SN	89	144	AML		1656	33.44			175	0.2				
TCHB	SE	89	144	AML		1656	38.52			179	0.7				
TOTH	SZ	95	87	EP		1656	20.07	0.02	93						1.0
TOTH	SN	95	87	ES		1656	29.83	-1.51							1.0
TOTH	SE	95	87	AML		1656	37.27			52	0.5				
TOTH	SN	95	87	AML		1656	38.75			56	0.5				
MARH	SZ	127	51	EP		1656	25.31	0.50	96						1.0
MARH	SN	127	51	ES		1656	40.18	0.15							1.0
MARH	SN	127	51	AML		1656	47.14			84	0.8				
MARH	SE	127	51	AML		1656	50.96			39	0.6				
SALA	SZ	140	118	EP		1656	27.09	0.39	86						1.0
SALA	SN	140	118	ES		1656	43.76	0.46							1.0
SALA	SN	140	118	AML		1656	46.91			61	0.4				
SALA	SE	140	118	AML		1656	48.06			7	0.4				
HAWK	SZ	162	34	EP		1656	30.14	0.37	93						1.0
HAWK	SN	162	34	ES		1656	49.12	0.45							1.0
HAWK	SE	162	34	AML		1656	56.73			37	0.3				
HAWK	SN	162	34	AML		1656	57.11			45	0.4				
ZALF	SZ	185	103	EP		1656	33.18	0.14	88						1.0
ZALF	SN	185	103	ES		1656	53.89	-0.08							1.0
ZALF	SN	185	103	AML		1656	58.37			26	0.3				
ZALF	SE	185	103	AML		1656	59.93			25	0.2				
BIDA	SZ	209	23	EP		1656	36.27	0.44	91						1.0
BIDA	SN	209	23	ES		1656	59.45	0.13							1.0
ARNB	SZ	287	10	EP		1656	44.87	-0.59							1.0
ARNB	SN	287	10	ES		1657	14.62	-1.44							1.0
ARNB	SE	287	10	AML		1657	24.45			14	0.2				
ARNB	SN	287	10	AML		1657	30.07			19	0.3				

May 30 2010 Hour: 18:12 12.5 Lat: 25.38N Lon: 34.08E Depth: 97 Agency: NEC Local
Magnitudes: 3.8ML NEC Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TCHB	SZ	828	12	EP		1813	59.97	-0.19							1.0
TCHB	SN	828	12	ES		1815	17.18	-0.65							1.0
TCHB	SE	828	12	AML		1815	36.94			375	0.6				
TCHB	SN	828	12	AML		1815	37.22			462	0.5				
SALA	SZ	852	17	EP		1814	2.75	-0.70							1.0
SALA	SE	852	17	ES		1815	23.86	0.49							1.0
SALA	SN	852	17	AML		1815	41.18			160	0.5				
SALA	SE	852	17	AML		1815	45.19			23	0.5				
ZALF	SZ	894	20	EP		1814	8.17	-0.38							1.0

ZALF	SN	894	20	ES	1815	32.65	0.66										1.0
ZALF	SE	894	20	AML	1815	47.11			148	0.7							
ZALF	SN	894	20	AML	1815	49.25			147	0.7							
BARB	SZ	908	11	EP	1814	10.53	0.48										1.0
BARB	SN	908	11	ES	1815	35.29	-0.09										1.0
BARB	SN	908	11	AML	1815	49.11			106	0.6							
BARB	SE	908	11	AML	1816	1.35			126	0.7							
MARH	SN	986	13	ES	1815	53.11	0.77										1.0
MARH	SE	986	13	AML	1816	15.04			52	0.7							
MARH	SN	986	13	AML	1816	32.09			75	0.6							
HAWK	SZ	1038	12	EP	1814	25.77	-0.60										1.0
HAWK	SN	1038	12	ES	1816	2.71	-0.34										1.0
HAWK	SE	1038	12	AML	1816	26.07			50	0.6							
HAWK	SN	1038	12	AML	1816	36.32			29	0.5							
BIDA	SZ	1093	11	EP	1814	33.72	0.62										1.0
BIDA	SN	1093	11	ES	1816	14.47	-0.39										1.0
BIDA	SN	1093	11	AML	1816	48.10			44	0.6							
BIDA	SE	1093	11	AML	1816	55.17			88	0.6							
ARNB	SZ	1176	8	EP	1814	44.20	0.82										1.0
ARNB	SE	1176	8	AML	1817	38.98			20	0.6							
ARNB	SN	1176	8	AML	1817	39.34			16	0.7							
BTCH	SZ	1203	10	EP	1814	47.02	0.04										1.0
BTCH	SN	1203	10	ES	1816	38.35	-0.25										1.0
SFNV	SZ	1352	24	EP	1815	5.57	-0.10										1.0
SFNV	SN	1352	24	ES	1817	10.35	-0.20										1.0
SFNV	SZ	1352	24	AML	1818	3.33			26	0.7							

May 30 2010 Hour: 19:41 14.1 Lat: 34.11N Lon: 35.75E Depth: 14 Agency: NEC Local
Magnitudes: 1.8ML NEC Rms: 0.4 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MARH	SZ	68	98	EP		1941	26.67	0.28							1.0
MARH	SN	68	98	ES		1941	34.93	-0.17							1.0
MARH	SE	68	98	AML		1941	37.12			41	0.4				
MARH	SN	68	98	AML		1941	40.96			74	0.4				
HAWK	SZ	75	53	EP		1941	27.40	0.12							1.0
HAWK	SN	75	53	ES		1941	37.45	0.78							1.0
HAWK	SN	75	53	AML		1941	39.74			23	0.4				
HAWK	SE	75	53	AML		1941	41.00			35	0.4				
BARB	SZ	80	167	EP		1941	28.22	0.47							1.0
BARB	SN	80	167	ES		1941	38.17	0.21							1.0
BARB	SN	80	167	AML		1941	39.51			36	0.3				
BARB	SE	80	167	AML		1941	40.68			41	0.4				
BIDA	SZ	116	26	EP		1941	32.94	-0.21							1.0
BIDA	SN	116	26	ES		1941	45.97	-0.92							1.0
BIDA	SN	116	26	AML		1941	48.13			70	0.5				
BIDA	SE	116	26	AML		1941	49.77			85	0.6				
SALA	SZ	180	149	EP		1941	42.40	-0.28							1.0
SALA	SN	180	149	ES		1942	2.54	-0.32							1.0
ARNB	SZ	195	6	EP		1941	44.32	0.18							1.0
ARNB	SN	195	6	ES		1942	6.27	0.38							1.0
ARNB	SE	195	6	AML		1942	8.66			28	0.2				
ARNB	SN	195	6	AML		1942	14.40			18	0.3				
ZALF	SZ	197	131	EP		1941	44.10	-0.69							1.0
ZALF	SN	197	131	ES		1942	6.51	0.17							1.0
ZALF	SE	197	131	AML		1942	9.92			9	0.5				
ZALF	SN	197	131	AML		1942	13.36			6	0.5				

May 30 2010 Hour: 19:47 1.2 Lat: 35.99N Lon: 35.66E Depth: 32 Agency: NEC Local
Magnitudes: 1.8ML NEC 0.5MC NEC Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ARNB	SZ	32	117	EP		1947	8.34	-0.18		32					1.0
ARNB	SE	32	117	ES		1947	13.63	-0.31							1.0
ARNB	SN	32	117	AML		1947	15.75			73	0.2				
ARNB	SE	32	117	AML		1947	15.76			84	0.3				

ARNB	SZ	32	117	AML	1947	17.99		44	0.6	
BTCH	SZ	72	86	EP	1947	14.57	0.63	42		1.0
BTCH	SE	72	86	ES	1947	22.57	-0.40			1.0
BTCH	SE	72	86	AML	1947	28.62		48	0.3	
BTCH	SZ	72	86	AML	1947	29.42		57	0.5	
BTCH	SN	72	86	AML	1947	30.68		34	0.4	
WRDH	SZ	87	128	EP	1947	16.57	0.82	40		1.0
WRDH	SE	87	128	ES	1947	26.54	0.08			1.0
WRDH	SZ	87	128	AML	1947	29.38		38	0.2	
WRDH	SN	87	128	AML	1947	29.97		26	0.3	
WRDH	SE	87	128	AML	1947	30.51		54	0.3	
BIDA	SZ	121	150	EP	1947	19.57	-0.87	46		1.0
BIDA	SE	121	150	ES	1947	34.57	0.25			1.0
BIDA	SE	121	150	AML	1947	38.09		27	0.3	
BIDA	SN	121	150	AML	1947	38.77		15	0.2	
BIDA	SZ	121	150	AML	1947	39.79		45	0.2	