



Kandilli Rasathanesi Ve Deprem Araştırma Enstitüsü

ULUSAL DEPREM İZLEME MERKEZİ



*2009 ARALIK AYI
BÜLTENİ*

*YIL: 6 - SAYI: 72
İSTANBUL*

Hazırlayan ve Katkıda Bulunanlar

D. Kalafat

K. Kekovalı

K. Kılıç

Y. Güneş

M. Yilmazer

Z. Öğütcü

M. Kara

M. Suvarıklı

A. Küsmezer

F. Kılıçer Bekler

P. Deniz

A. Berberoğlu

M. Çomoğlu

M. Berberoğlu

H. Gümüş

S. Altuncu

D.Kepekçi

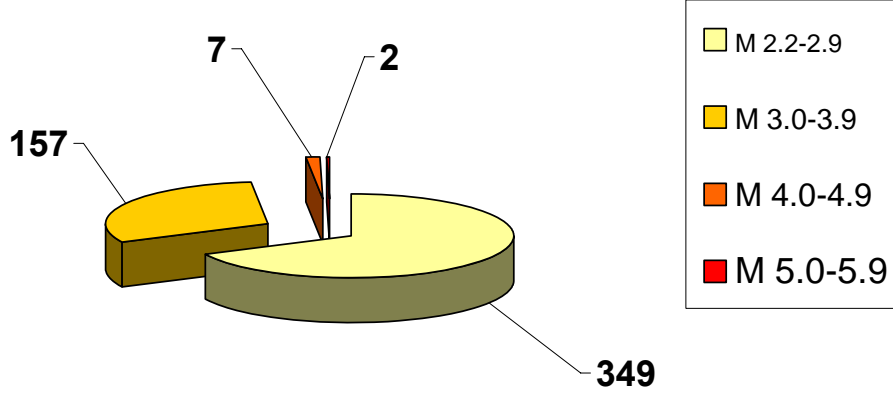
R.Polat

Ö.Çok

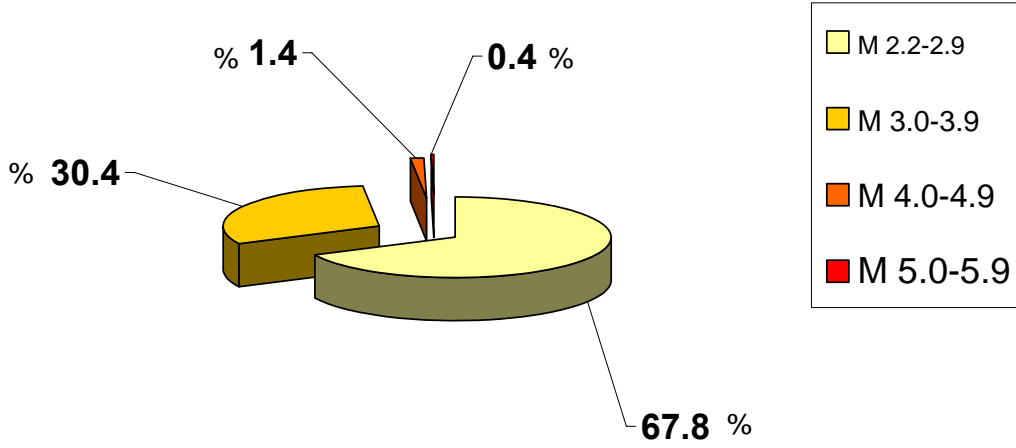
2009 yılı Aralık ayında meydana gelen depremlerin
istatistiksel dağılımı

MAGNİTÜD ARALIĞI	TOPLAM
2.2-2.9	349
3.0-3.9	157
4.0-4.9	7
5.0-5.9	2
6.0-6.9	—
7.0-7.9	—
TOPLAM	515

2009 ARALIK AYI DEPREMLERİNİN İSTATİSTİKSEL DAĞILIMI
(Toplam: 515 Adet)



2009 ARALIK AYI DEPREMLERİNİN İSTATİSTİKSEL DAĞILIMI (%)



DEĞERLENDİRME

Aralık ayında toplam 515 depremin çözümlü yapılmıştır. Büyüklüğü 4.0 ve üzerinde olan deprem sayısı 7 adettir. Toplam meydana gelen depremlerin % 67.8 oranını büyüklükleri $M=2.2-2.9$ arasındaki depremler oluşturmaktadır.

Toplam 100 adet geniş bantlı (Broad Band) istasyonun Aralık ayı içerisindeki çalışma performansları % 80 dir. Bu ay içerisinde 11 adet geniş bantlı (Broad Band) deprem istasyonu verimsiz olmuştur.

Toplam 22 adet kısa periyotlu (SP) istasyonun Aralık ayı içerisindeki çalışma performansları % 80 olup, Hakkari (HKR) bu ay içindeki verimsiz istasyondur.

Bu ay içerisinde, Diyarbakır (DYBB) ve Silvan (SVAN) olmak üzere iki adet uydu iletişimli geniş bantlı deprem istasyonu kurulmuş, Hatay (HTY), Erzincan (EZC), Diyarbakır (DIY), Eskiyaıyla (EYL) olmak üzere dört adet kısa periyotlu (SP) istasyon kapatılmıştır.

Aralık ayı itibarıyla deprem istasyonlarının ve *sismik ağın ortalama verimlilik performansı % 80* olmuştur.

Aralık ayındaki en önemli deprem, 22.12.2009 saat 06:06 (GMT)'de $M=5.3$ Akdeniz'de (Antalya-Kıbrıs arası) meydana gelmiştir. Bundan başka; 04.12.2009 saat 06:02 $M=5.1$ Buharkent-Aydın, 12.12.2009 saat 17:19 (GMT) $M=4.7$ Acıpayam-Denizli, 19.12.2009 saat 06:25 (GMT) $M=4.5$ Kuşadası açıkları-Ege Denizi, 23.12.2009 saat 04:44 (GMT) $M=4.5$ Kuşadası açıkları-Ege Denizi, 31.12.2009 saat 00:18 (GMT) $M=4.5$ Rodos adasının batısı-Akdeniz, 01.09.2009 saat 17:54 (GMT) $M=4.3$ Rodos adasının batısı-Akdeniz, 31.09.2009 saat 00:12 (GMT) $M=4.3$ Girit adası güneyi-Akdeniz olan orta büyüklükte deprem aktiviteleri meydana gelmiştir.

Ayrıca, Tekirdağ açıkları-Marmara Denizi'nde, Aliğa-Bergama-İzmir, Soma-Kırkağaç-Manisa, Oniki Adalar bölgesinde, Gökova Körfezi-Muğla, Girit adası güneyi-Akdeniz, Simav-Kütahya, Honaz-Denizli, Buharkent-Aydın, Bolvadin-Afyon, Afşar-Bala-Ankara, Konya, Kozan-Adana meydana gelen deprem etkinlikleri dikkat çekmektedir. Erzincan, Varto-Muş, Adıyaman, Doğu Anadolu Fay Zonu boyunca ise Sivrice-Elazığ ve Malatya'da deprem etkinlikleri gözlenmiştir.

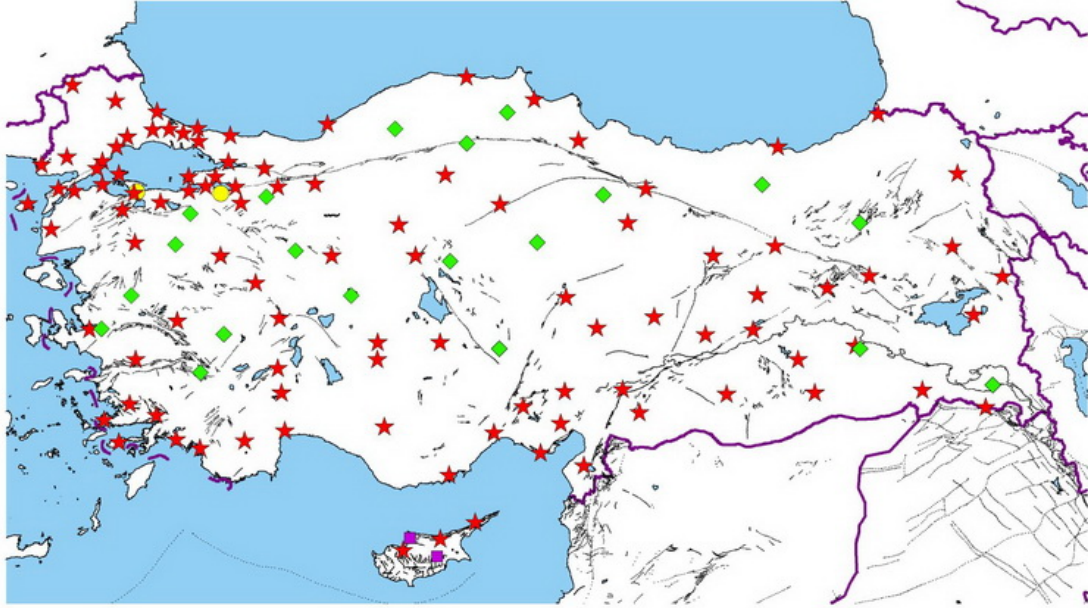
ARALIK 2009

İSTASYON VERİMLİLİK

TABLolarI

B.Ü.
KANDİLLİ RASATHANESİ VE DEPREM ARAŞTIRMA ENSTİTÜSÜ
ULUSAL DEPREM İZLEME MERKEZİ
DEPREM İSTASYONLARI

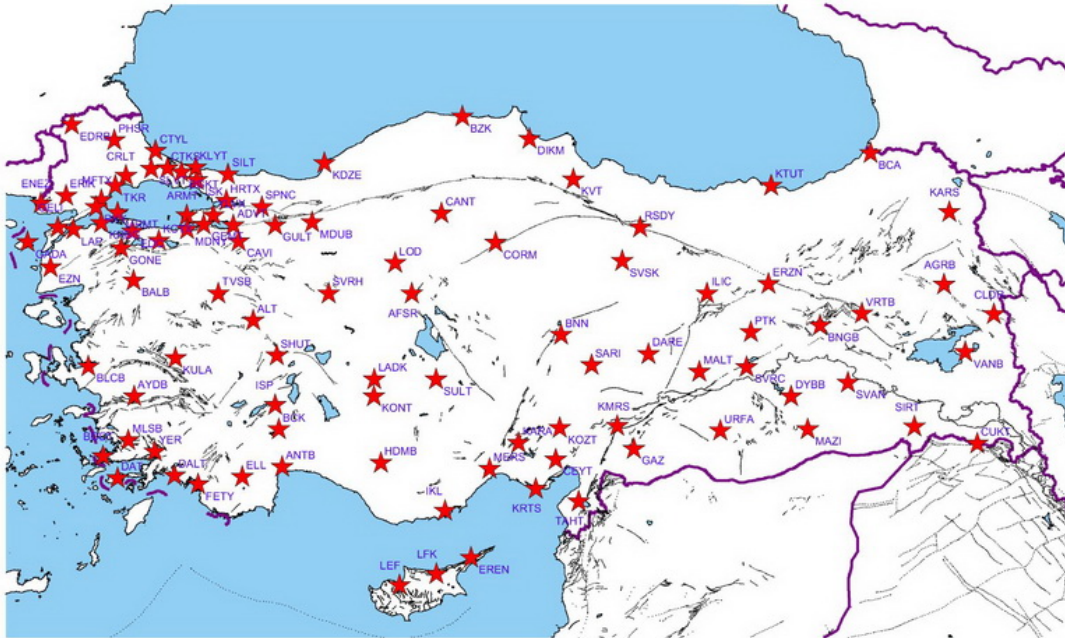
Aralık 2009
Toplam: 124 Adet



★ GENİŞ BAND ◆ KISA PERİYOT ● TELEMETRİ KISA PERİYOT ■ İVME ÖLÇER

GENİŞ BANTLI (BROADBAND) DEPREM İSTASYONLARI

Aralık 2009
Toplam: 100 Adet



Adet	Yöntem	Kod	(+) adet	(-) adet	TOPLAM GÜN	(+)%	(-)%	(+)%	(-)%
1	1	ADVT	31	0	31	100	0		
2	2	AFSR	31	0	31	100	0		
3	3	AGRB	16	15	31	52	48		
4	4	ALT	0	31	31	0	100		
5	5	ANTB	28	3	31	90	10		
6	6	ARMT	29	2	31	94	6		
7	7	AYDB	28	3	31	90	10		
8	8	BALB	28	3	31	90	10		
9	9	BCA	27	4	31	87	13		
10	10	BCK	31	0	31	100	0		
11	11	BGKT	30	1	31	97	3		
12	12	BLCB	20	11	31	65	35		
13	13	BNGB	30	1	31	97	3		
14	14	BNN	26	5	31	84	16		
15	15	BODT	30	1	31	97	3		
16	16	BZK	31	0	31	100	0		
17	17	CANT	31	0	31	100	0		
18	18	CAVI	31	0	31	100	0		
19	19	CEYT	31	0	31	100	0		
20	20	CLDR	30	1	31	97	3		
21	21	CORM	31	0	31	100	0		
22	22	CRLT	31	0	31	100	0		
23	23	CTKS	23	8	31	74	26		
24	24	CTYL	31	0	31	100	0		
25	25	CUKT	30	1	31	97	3		
26	26	DALY	31	0	31	100	0		
27	27	DARE	26	5	31	84	16		
28	28	DAT	4	27	31	13	87		
29	29	DIKM	31	0	31	100	0		
30	30	DYBB	0	20	20	100	0		
31	31	EDC	31	0	31	100	0		
32	32	EDRB	31	0	31	100	0		
33	33	ELL	31	0	31	100	0		
34	34	ENEZ	30	1	31	97	3		
35	35	EREN	31	0	31	100	0		
36	36	ERIK	26	5	31	84	16		
37	37	ERZN	31	0	31	100	0		
38	38	EZYN	13	18	31	42	58		
39	39	FETY	11	20	31	35	65		
40	40	GADA	0	31	31	0	100		
41	41	GAZ	0	31	31	0	100		
42	42	GELI	31	0	31	100	0		
43	43	GEMT	31	0	31	100	0		
44	44	GONE	31	0	31	100	0		
45	45	GULT	31	0	31	100	0		
46	46	HDMB	0	31	31	0	100		
47	47	HRTX	28	3	31	90	10		
48	48	IKL	31	0	31	100	0		
49	49	ILIC	31	0	31	100	0		
50	50	ISK	24	7	31	77	23		
51	51	ISP	24	7	31	77	23		
52	52	KARA	21	10	31	68	32		
53	53	KARS	31	0	31	100	0		
54	54	KCTX	31	0	31	100	0		
55	55	KDZE	31	0	31	100	0		
56	56	KLYT	27	4	31	87	13		
57	57	KMRS	30	1	31	97	3		
58	58	KONT	10	21	31	32	68		
59	59	KOZT	31	0	31	100	0		
60	60	KRBB	31	0	31	100	0		
61	61	KRTS	0	31	31	0	100		
62	62	KTUT	30	1	31	97	3		
63	63	KULA	30	1	31	97	3		
64	64	KVT	21	10	31	68	32		
65	65	LADK	31	0	31	100	0		
66	66	LAP	31	0	31	100	0		
67	67	LEF	31	0	31	100	0		
68	68	LFK	30	1	31	97	3		
69	69	LOD	29	2	31	94	6		
70	70	MALT	31	0	31	100	0		
71	71	MAZI	31	0	31	100	0		
72	72	MDUB	31	0	31	100	0		
73	73	MDYN	31	0	31	100	0		
74	74	MERS	31	0	31	100	0		
75	75	MFTX	0	31	31	0	100		
76	76	MLSB	2	29	31	6	94		
77	77	MRMT	21	10	31	68	32		
78	78	PHSR	31	0	31	100	0		
79	79	PTK	27	4	31	87	13		
80	80	RKY	26	5	31	84	16		
81	81	RSDY	31	0	31	100	0		
82	82	SARIZ	2	29	31	6	94		
83	83	SHUT	31	0	31	100	0		
84	84	SILT	31	0	31	100	0		
85	85	SIRT	31	0	31	100	0		
86	86	SPNC	30	1	31	97	3		
87	87	SLVT	31	0	31	100	0		
88	88	SULT	31	0	31	100	0		
89	89	SVAN	31	0	31	100	0		
90	90	SVRC	4	27	31	13	87		
91	91	SVRH	27	4	31	87	13		
92	92	SVSK	31	0	31	100	0		
93	93	TAHT	31	0	31	100	0		
94	94	TKR	30	1	31	97	3		
95	95	TVSB	25	6	31	81	19		
96	96	URFA	26	5	31	84	16		
97	97	VANB	0	31	31	0	100		
98	98	VRTB	31	0	31	100	0		
99	99	YER	10	21	31	32	68		
100	100	YLVX	0	31	31	0	100		

GENİŞ BANTLI (BROAD-BAND) İSTASYONLAR

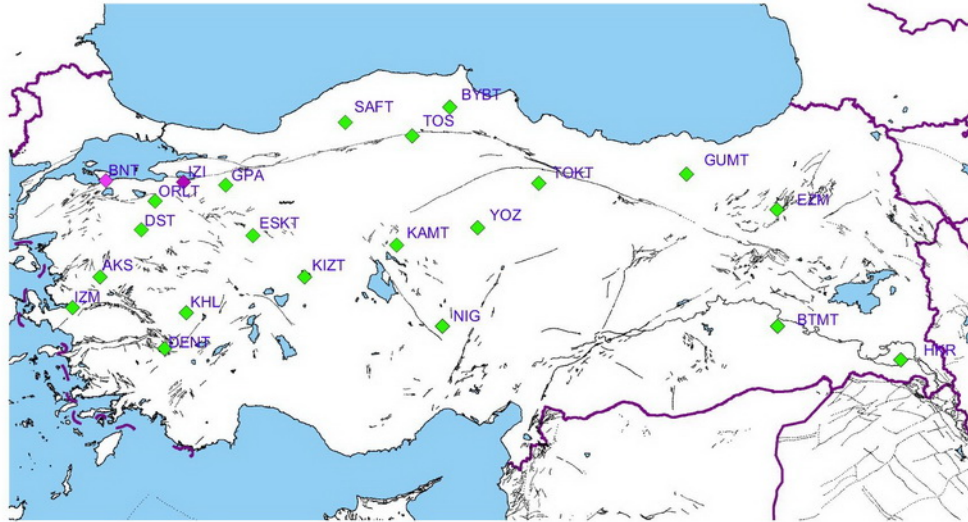
80

20

101	1	AKS	31	0	31	100	0			
102	2	BNT	31	0	31	100	0			
103	3	BTMT	31	0	31	100	0			
104	4	BYBT	25	6	31	81	19			
105	5	DENT	20	11	31	65	35			
106	6	DST	7	24	31	23	77			
107	7	ESKT	12	19	31	39	61			
108	8	EZM	31	0	31	100	0			
109	9	GPA	31	0	31	100	0			
110	10	GUMT	30	1	31	97	3			
111	11	HKR	0	31	31	0	100			
112	12	IZI	20	11	31	65	35	80	20	
113	13	IZM	29	2	31	94	6			
114	14	KAMT	30	1	31	97	3			
115	15	KHL	31	0	31	100	0			
116	16	KIZT	22	9	31	71	29			
117	17	NIG	31	0	31	100	0			
118	18	ORLT	31	0	31	100	0			
119	19	SAFT	31	0	31	100	0			
120	20	TOKT	8	23	31	26	74			
121	21	TOS	31	0	31	100	0			
122	22	YOZ	31	0	31	100	0			
							+	(-)		
2009 ARALIK ORTALAMA %							80	20		

KISA PERİYOT (SP) İSTASYONLAR Toplam: 22 Adet

Aralık 2009

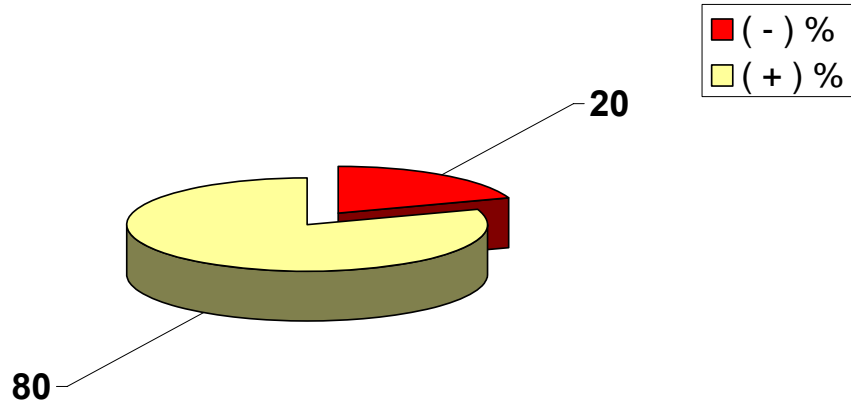


◆ Kısa Periyot
TELEFON HATTI
20 Adet

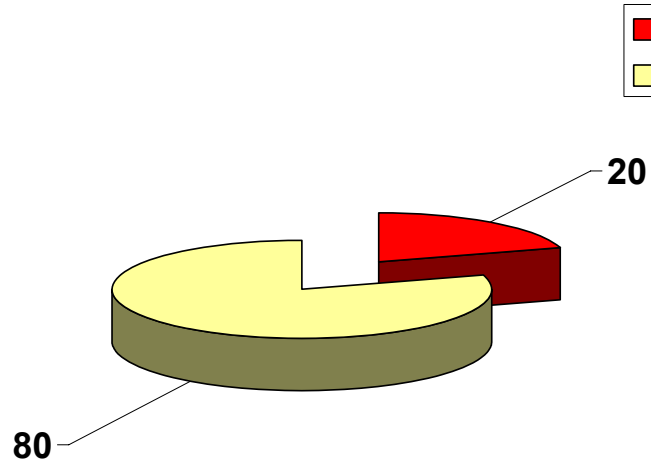
◆ Kısa Periyot
TELEMETRİ
1 Adet

◆ Kısa Periyot
UYDU İLETİŞİMLİ
1 Adet

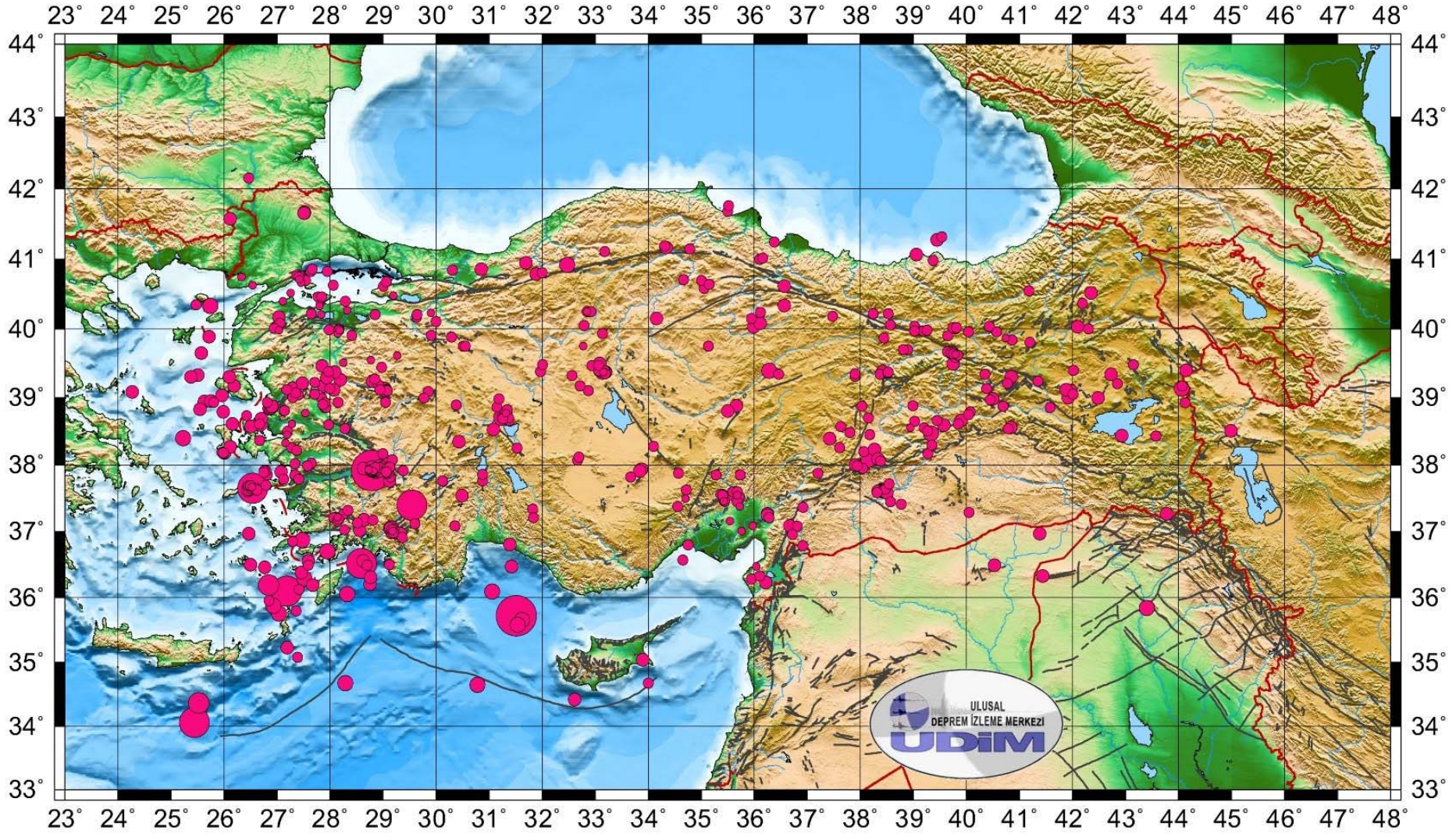
2009 ARALIK AYI BROAD-BAND İSTASYONLARI VERİMLİLİK GRAFİĞİ



2009 ARALIK AYI SHORT PERIOD İSTASYONLARI VERİMLİLİK GRAFİĞİ



TÜRKİYE VE YAKIN ÇEVRESİ DEPREM ETKİNLİĞİ (ARALIK 2009) **Toplam: 515 Adet**



TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
1	1	12	2009	0	46	34.1	40.86	30.85	R	5	R					3.0	R				
2	1	12	2009	1	2	7.2	38.67	31.35	R	5	R					2.8	R				
3	1	12	2009	5	32	32.8	39.37	33.21	R	7	R					2.5	R				
4	1	12	2009	8	49	53.1	37.55	35.68	R	5	R					2.4	R				
5	1	12	2009	8	50	43.6	37.45	35.68	R	2	R					2.5	R				
6	1	12	2009	9	49	20.9	37.21	28.14	R	11	R					2.5	R				
7	1	12	2009	10	56	43.4	40.04	39.02	R	22	R					2.7	R				
8	1	12	2009	13	30	47.8	40.67	27.45	R	8	R					2.4	R				
9	1	12	2009	17	54	3.1	36.19	26.84	N	132	N			4.3	N			4.1	R		
10	1	12	2009	20	41	27.9	39.10	32.87	R	6	R					2.6	R				
11	2	12	2009	5	10	40.5	37.91	28.82	R	22	R					2.4	R				
12	2	12	2009	5	44	9.2	36.28	35.95	R	8	R					2.9	R				
13	2	12	2009	7	8	39.6	39.34	38.37	R	8	R					2.9	R				
14	2	12	2009	8	16	25.1	38.66	31.38	R	5	R					2.9	R				
15	2	12	2009	13	12	14.7	40.62	29.01	R	8	R					2.9	R				
16	3	12	2009	1	4	23.7	37.37	36.92	R	5	R					2.9	R				
17	3	12	2009	7	23	46.6	39.22	27.71	R	8	R					2.5	R				
18	3	12	2009	9	26	3.6	36.23	36.22	R	14	R					3.3	R				
19	3	12	2009	14	12	54.8	38.70	31.37	R	6	R					2.7	R				
20	3	12	2009	18	41	16.5	38.45	27.19	R	2	R					2.2	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
21	3	12	2009	19	42	52.9	38.77	27.53	R	5	R					2.4	R				
22	3	12	2009	20	46	46.7	39.65	25.57	R	5	R					3.3	R				
23	3	12	2009	21	44	9.9	38.55	39.20	R	5	R					2.9	R				
24	3	12	2009	22	39	48.4	39.36	33.13	R	6	R					3.2	R				
25	4	12	2009	1	44	40.7	39.12	29.07	R	5	R					2.8	R				
26	4	12	2009	3	6	54.5	39.11	29.07	R	4	R					2.8	R				
27	4	12	2009	4	43	16.5	39.70	38.89	R	13	R					2.8	R				
28	4	12	2009	6	2	19.0	37.92	28.79	R	4	R			5.1	N			5.1	R		
29	4	12	2009	6	11	25.3	37.89	28.86	R	5	R					3.1	R				
30	4	12	2009	6	30	6.9	37.93	28.83	R	5	R					3.2	R				
31	4	12	2009	6	37	36.0	37.17	28.81	R	6	R					2.9	R				
32	4	12	2009	6	54	9.3	37.91	28.81	R	5	R					3.3	R				
33	4	12	2009	7	0	20.2	37.91	28.80	R	2	R					3.1	R				
34	4	12	2009	7	8	31.0	37.93	28.85	R	11	R					3.0	R				
35	4	12	2009	7	16	58.9	37.92	28.78	R	5	R					3.3	R				
36	4	12	2009	7	23	44.5	37.92	28.79	R	2	R					3.0	R				
37	4	12	2009	7	30	32.3	37.91	28.87	R	6	R					2.6	R				
38	4	12	2009	7	58	13.1	40.72	27.42	R	10	R					2.4	R				
39	4	12	2009	8	15	1.3	37.92	28.85	R	5	R					2.8	R				
40	4	12	2009	8	57	49.8	40.59	35.05	R	13	R					2.6	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
41	4	12	2009	9	39	33.0	37.93	28.85	R	10	R					2.5	R				
42	4	12	2009	9	40	20.1	37.95	28.87	R	7	R					2.9	R				
43	4	12	2009	9	42	9.6	37.92	28.82	R	3	R					2.7	R				
44	4	12	2009	11	7	34.0	38.61	27.28	R	10	R					2.2	R				
45	4	12	2009	11	16	37.9	37.89	28.93	R	5	R					2.6	R				
46	4	12	2009	11	57	49.9	39.88	30.29	R	20	R					2.5	R				
47	4	12	2009	12	27	45.0	41.32	39.54	R	8	R					2.7	R				
48	4	12	2009	12	56	40.4	40.52	27.26	R	13	R					2.4	R				
49	4	12	2009	13	36	29.2	37.91	28.76	R	9	R					2.6	R				
50	4	12	2009	13	44	51.0	37.93	28.73	R	5	R					2.4	R				
51	4	12	2009	13	46	43.8	37.85	35.28	R	5	R					2.8	R				
52	4	12	2009	14	53	33.5	40.21	27.83	R	7	R					2.3	R				
53	4	12	2009	17	19	46.5	37.40	29.54	R	10	R			4.7	N			4.8	R		
54	4	12	2009	18	55	22.4	37.27	43.78	R	6	R					3.0	R				
55	4	12	2009	18	59	59.5	37.91	28.87	R	4	R					2.6	R				
56	4	12	2009	19	29	56.2	37.93	28.78	R	7	R					2.6	R				
57	4	12	2009	20	36	52.5	40.76	27.45	R	10	R					2.6	R				
58	5	12	2009	2	37	12.1	37.92	28.86	R	3	R					3.2	R				
59	5	12	2009	2	54	46.3	39.40	44.14	R	5	R					3.4	R				
60	5	12	2009	4	24	47.7	40.83	27.64	R	24	R					2.5	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
61	5	12	2009	7	18	47.2	39.37	33.16	R	5	R					2.4	R				
62	5	12	2009	8	16	1.5	37.79	27.13	R	11	R					2.6	R				
63	5	12	2009	8	28	6.5	37.92	28.81	R	7	R					3.0	R				
64	5	12	2009	8	31	41.6	40.03	26.97	R	25	R					2.5	R				
65	5	12	2009	10	2	35.7	38.55	38.94	R	5	R					2.4	R				
66	5	12	2009	10	30	35.0	37.48	35.43	R	4	R					2.6	R				
67	5	12	2009	10	43	23.3	40.08	27.05	R	8	R					2.5	R				
68	5	12	2009	10	54	25.6	40.22	38.53	R	3	R					2.6	R				
69	5	12	2009	11	20	45.7	38.70	38.15	R	8	R					2.7	R				
70	5	12	2009	13	56	42.6	37.92	28.82	R	5	R					2.8	R				
71	5	12	2009	14	12	35.8	37.91	28.81	R	2	R					2.9	R				
72	5	12	2009	14	28	51.5	40.85	30.31	R	10	R					2.7	R				
73	5	12	2009	14	51	20.2	40.71	34.67	R	10	R					2.7	R				
74	5	12	2009	15	18	43.1	40.48	29.19	R	5	R					2.2	R				
75	5	12	2009	18	49	16.5	39.39	36.28	R	8	R					3.5	R				
76	5	12	2009	21	16	4.9	37.92	28.82	R	6	R					3.0	R				
77	6	12	2009	5	20	34.0	39.99	27.98	R	5	R					2.8	R				
78	6	12	2009	5	44	45.9	38.86	31.15	R	11	R					2.5	R				
79	6	12	2009	8	43	52.1	38.77	31.32	R	5	R					2.4	R				
80	6	12	2009	9	11	52.6	39.61	29.27	R	20	R					2.3	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
81	6	12	2009	9	18	6.0	38.25	31.53	R	12	R					2.6	R				
82	6	12	2009	13	10	35.2	41.25	36.38	R	8	R					2.9	R				
83	6	12	2009	13	37	7.2	38.57	37.63	R	9	R					2.8	R				
84	6	12	2009	14	8	49.6	41.00	36.10	R	5	R					2.8	R				
85	6	12	2009	14	29	20.6	39.04	27.40	R	9	R					2.7	R				
86	6	12	2009	15	40	50.6	37.85	35.74	R	7	R					2.5	R				
87	6	12	2009	18	21	32.9	40.06	38.57	R	6	R					2.8	R				
88	6	12	2009	20	26	15.5	38.98	31.19	R	4	R					2.6	R				
89	7	12	2009	1	30	31.1	36.33	41.44	R	7	R					3.2	R				
90	7	12	2009	5	23	28.4	41.58	26.12	R	5	R					3.0	R				
91	7	12	2009	7	31	20.6	37.22	28.14	R	5	R					2.4	R				
92	7	12	2009	10	18	8.9	37.34	31.82	R	8	R					2.9	R				
93	7	12	2009	10	42	31.1	39.90	39.65	R	9	R					2.6	R				
94	7	12	2009	11	24	56.3	38.79	40.07	R	9	R					2.6	R				
95	7	12	2009	11	39	41.1	39.21	40.77	R	5	R					2.5	R				
96	7	12	2009	13	10	58.9	41.15	34.78	R	8	R					2.8	R				
97	7	12	2009	13	39	19.0	36.80	34.75	R	4	R					2.5	R				
98	7	12	2009	14	4	32.4	35.75	27.04	R	34	R							3.7	R		
99	7	12	2009	15	37	45.7	38.65	39.02	R	22	R					2.6	R				
100	7	12	2009	16	6	50.7	39.75	32.77	R	24	R					2.3	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude										
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref	
101	7	12	2009	18	53	40.5	39.17	32.72	R	5	R					2.7	R					
102	7	12	2009	21	2	58.3	36.97	29.32	R	4	R					3.3	R	3.5	R			
103	7	12	2009	21	26	35.5	39.32	32.56	R	10	R					2.7	R					
104	7	12	2009	21	44	6.0	37.13	28.52	R	13	R					2.5	R					
105	7	12	2009	22	17	10.0	39.47	32.94	R	6	R					2.7	R					
106	7	12	2009	23	36	45.1	40.03	35.99	R	6	R					3.2	R					
107	8	12	2009	3	30	20.6	35.79	27.36	R	7	R					2.8	R					
108	8	12	2009	4	34	13.7	40.00	39.79	R	6	R					2.7	R					
109	8	12	2009	6	6	17.2	38.62	26.68	R	13	R					3.5	R	3.5	R			
110	8	12	2009	6	8	47.4	38.61	26.67	R	5	R					2.9	R					
111	8	12	2009	6	15	45.5	37.21	28.07	R	8	R					2.7	R					
112	8	12	2009	9	42	50.6	37.12	29.60	R	16	R					2.8	R					
113	8	12	2009	9	52	10.0	37.21	28.18	R	4	R					2.6	R					
114	8	12	2009	10	8	43.8	37.27	28.26	R	2	R					2.6	R					
115	8	12	2009	10	37	49.7	38.69	26.70	R	9	R					3.1	R					
116	8	12	2009	10	53	27.5	38.99	27.84	R	6	R					2.6	R					
117	8	12	2009	12	21	26.1	40.01	26.95	R	9	R					2.5	R					
118	8	12	2009	13	2	46.1	38.48	37.80	R	5	R					2.5	R					
119	8	12	2009	13	11	9.0	39.87	38.45	R	9	R					2.7	R					
120	8	12	2009	13	21	32.2	39.47	33.07	R	10	R					2.6	R					

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
121	8	12	2009	14	48	26.5	36.56	27.59	R	86	R					3.2	R				
122	8	12	2009	16	52	51.3	37.94	33.87	R	7	R					3.3	R				
123	8	12	2009	17	47	51.0	37.82	33.67	R	22	R					2.8	R				
124	8	12	2009	19	10	10.8	35.23	27.19	R	29	R					3.4	R				
125	9	12	2009	0	40	28.3	39.31	37.90	R	10	R					2.9	R				
126	9	12	2009	1	52	58.3	39.26	28.19	R	8	R					3.3	R				
127	9	12	2009	2	10	47.1	39.46	27.85	R	3	R					3.1	R				
128	9	12	2009	2	18	20.2	39.17	26.19	R	10	R					3.3	R				
129	9	12	2009	3	18	52.5	39.37	28.09	R	5	R					3.0	R				
130	9	12	2009	3	21	42.4	40.83	27.95	R	17	R					2.9	R				
131	9	12	2009	3	59	23.2	40.98	39.37	R	5	R					2.9	R				
132	9	12	2009	4	5	36.1	39.38	27.97	R	17	R					2.7	R				
133	9	12	2009	5	24	54.7	38.19	25.96	R	5	R					2.8	R				
134	9	12	2009	5	35	6.3	41.28	39.45	R	20	R					3.1	R				
135	9	12	2009	8	12	23.9	38.87	40.69	R	7	R					2.7	R				
136	9	12	2009	9	28	19.5	39.89	25.72	R	8	R					3.0	R				
137	9	12	2009	9	32	1.2	39.98	27.04	R	5	R					2.4	R				
138	9	12	2009	9	53	2.4	37.16	28.14	R	5	R					2.5	R				
139	9	12	2009	9	56	40.4	37.32	28.34	R	8	R					2.6	R				
140	9	12	2009	10	41	38.0	39.51	28.25	R	5	R					2.4	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
141	9	12	2009	10	42	21.0	37.95	38.05	R	5	R					2.5	R				
142	9	12	2009	13	27	29.4	41.68	35.50	R	8	R					2.9	R				
143	9	12	2009	14	16	59.3	41.66	27.52	R	5	R					3.1	R				
144	9	12	2009	14	54	25.2	39.81	41.20	R	5	R					2.8	R				
145	9	12	2009	15	54	42.2	37.62	38.40	R	4	R					3.3	R				
146	9	12	2009	16	5	16.3	40.86	27.66	R	7	R					2.7	R				
147	9	12	2009	16	6	9.6	37.88	37.20	R	8	R					2.7	R				
148	9	12	2009	16	55	17.8	37.64	38.46	R	6	R					2.8	R				
149	9	12	2009	18	32	28.8	38.51	39.27	R	11	R					2.6	R				
150	9	12	2009	18	33	35.6	37.64	38.47	R	5	R					2.8	R				
151	9	12	2009	18	42	49.2	38.73	26.43	R	24	R					2.7	R				
152	9	12	2009	19	4	4.0	39.70	38.81	R	5	R					2.8	R				
153	9	12	2009	19	53	59.9	34.68	28.29	R	22	R					3.5	R				
154	9	12	2009	19	58	18.4	39.84	40.86	R	8	R					2.8	R				
155	9	12	2009	20	1	52.2	37.61	38.33	R	7	R					3.2	R				
156	9	12	2009	21	50	36.3	37.62	38.45	R	5	R					3.0	R				
157	9	12	2009	22	22	28.6	39.34	40.35	R	9	R					2.7	R				
158	9	12	2009	23	0	53.4	37.59	38.32	R	6	R					2.7	R				
159	10	12	2009	0	13	30.7	37.62	38.42	R	5	R					3.6	R				
160	10	12	2009	0	32	36.2	37.27	36.25	R	5	R					3.3	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
161	10	12	2009	1	57	59.3	39.93	33.14	R	6	R					2.9	R				
162	10	12	2009	4	48	28.3	37.29	40.05	R	2	R					2.9	R				
163	10	12	2009	4	55	5.8	38.17	29.00	R	16	R					2.7	R				
164	10	12	2009	6	11	13.9	39.13	28.00	R	8	R					2.7	R				
165	10	12	2009	6	13	38.0	37.93	28.75	R	9	R					2.7	R				
166	10	12	2009	7	44	15.3	38.26	37.61	R	14	R					2.6	R				
167	10	12	2009	9	50	54.8	38.18	26.01	R	9	R					3.3	R	3.4	R		
168	10	12	2009	10	8	43.6	37.91	33.84	R	5	R					3.2	R				
169	10	12	2009	11	26	8.0	37.41	38.77	R	3	R					2.6	R				
170	10	12	2009	14	12	25.7	35.84	43.40	R	5	R					3.8	R				
171	10	12	2009	14	38	34.7	41.02	36.16	R	5	R					2.5	R				
172	10	12	2009	19	41	18.7	38.87	38.03	R	13	R					2.6	R				
173	10	12	2009	19	46	57.6	36.49	40.53	R	5	R					3.3	R				
174	10	12	2009	22	49	27.1	39.34	42.73	R	5	R					3.0	R				
175	11	12	2009	2	21	30.1	39.93	28.14	R	9	R					2.4	R				
176	11	12	2009	12	13	13.1	38.93	29.05	R	6	R					2.8	R				
177	11	12	2009	12	19	28.1	40.24	36.12	R	5	R					2.9	R				
178	11	12	2009	13	3	50.4	38.44	42.93	R	5	R					3.2	R				
179	11	12	2009	16	54	0.5	35.95	26.85	R	30	R					2.9	R				
180	11	12	2009	17	43	18.0	39.67	39.64	R	8	R					2.5	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
181	11	12	2009	18	59	10.9	40.08	36.11	R	5	R					3.3	R				
182	11	12	2009	19	10	22.8	39.96	40.04	R	10	R					2.7	R				
183	11	12	2009	23	4	37.8	37.99	28.93	R	5	R					3.0	R				
184	12	12	2009	2	34	24.3	38.54	40.79	R	7	R					2.7	R				
185	12	12	2009	2	37	6.9	38.51	44.99	R	28	R					3.4	R				
186	12	12	2009	6	0	38.2	39.37	33.20	R	3	R					3.0	R				
187	12	12	2009	7	36	39.5	40.25	32.85	R	10	R					2.5	R				
188	12	12	2009	8	48	59.7	40.25	32.91	R	5	R					2.9	R				
189	12	12	2009	9	45	3.3	39.97	39.17	R	5	R					2.7	R				
190	12	12	2009	9	54	53.0	39.97	39.19	R	14	R					2.9	R				
191	12	12	2009	10	5	1.4	40.25	32.92	R	5	R					2.9	R				
192	12	12	2009	10	30	53.6	40.62	36.57	R	4	R					3.4	R				
193	12	12	2009	12	45	58.3	37.96	28.93	R	28	R					2.7	R				
194	12	12	2009	12	57	15.2	38.89	30.38	R	14	R					2.6	R				
195	12	12	2009	13	7	4.9	37.80	27.39	R	10	R					2.6	R				
196	12	12	2009	14	41	48.2	39.13	44.06	R	12	R					3.6	R	3.7	R		
197	12	12	2009	15	23	15.6	36.52	28.59	R	84	R			4.7	N			4.5	R		
198	12	12	2009	15	56	19.6	39.97	39.02	R	21	R					2.6	R				
199	12	12	2009	16	17	15.0	38.88	35.66	R	8	R					3.0	R				
200	12	12	2009	17	33	42.2	39.17	44.07	R	13	R					2.7	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
201	12	12	2009	17	53	26.7	39.87	40.74	R	18	R					2.4	R				
202	12	12	2009	19	54	53.1	39.75	35.13	R	5	R					2.9	R				
203	12	12	2009	20	58	36.6	38.03	27.65	R	27	R					2.6	R				
204	12	12	2009	21	3	18.5	36.47	36.04	R	20	R					2.4	R				
205	12	12	2009	23	30	14.5	36.09	31.06	R	25	R					3.5	R				
206	13	12	2009	0	31	7.8	39.24	41.35	R	7	R					2.7	R				
207	13	12	2009	1	9	42.7	38.17	39.28	R	10	R					2.7	R				
208	13	12	2009	1	54	36.6	38.76	31.32	R	5	R					3.0	R				
209	13	12	2009	1	57	24.5	40.25	32.85	R	13	R					2.4	R				
210	13	12	2009	4	58	46.3	38.35	30.43	R	3	R					3.0	R				
211	13	12	2009	10	2	3.8	40.22	38.24	R	9	R					2.8	R				
212	13	12	2009	10	45	3.5	40.05	32.79	R	3	R					2.9	R				
213	13	12	2009	17	21	8.4	39.05	42.01	R	4	R					2.8	R				
214	13	12	2009	18	7	0.5	39.35	37.90	R	9	R					2.9	R				
215	13	12	2009	18	37	20.6	39.05	27.71	R	10	R					2.7	R				
216	13	12	2009	21	29	44.6	39.09	29.02	R	5	R					2.8	R				
217	14	12	2009	1	16	10.3	37.85	27.34	R	9	R					2.7	R				
218	14	12	2009	1	42	57.7	38.01	38.24	R	13	R					3.0	R				
219	14	12	2009	1	58	50.7	37.95	28.63	R	12	R					3.1	R				
220	14	12	2009	2	4	28.5	37.92	28.80	R	5	R					2.8	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
221	14	12	2009	2	37	14.0	37.97	28.79	R	5	R					3.2	R				
222	14	12	2009	4	31	27.6	40.77	27.37	R	8	R					2.6	R				
223	14	12	2009	4	53	34.2	40.15	35.95	R	16	R					2.8	R				
224	14	12	2009	5	4	3.9	37.99	27.57	R	5	R					2.8	R				
225	14	12	2009	5	10	10.0	39.33	25.51	R	13	R					3.3	R				
226	14	12	2009	6	18	56.7	39.00	27.30	R	7	R					2.7	R				
227	14	12	2009	9	35	44.5	40.33	25.74	R	5	R					3.5	R				
228	14	12	2009	10	26	24.6	38.23	38.27	R	7	R					3.0	R				
229	14	12	2009	12	26	51.8	39.39	33.18	R	6	R					2.8	R				
230	14	12	2009	12	39	24.2	39.38	31.97	R	24	R					2.7	R				
231	14	12	2009	18	6	30.1	39.09	29.85	R	9	R					2.7	R				
232	14	12	2009	18	20	53.8	40.72	27.51	R	8	R					2.9	R				
233	14	12	2009	20	25	30.0	38.56	40.84	R	5	R					3.0	R				
234	14	12	2009	23	24	32.4	36.47	31.42	R	25	R					3.2	R				
235	15	12	2009	0	9	47.6	37.45	38.57	R	15	R					2.9	R				
236	15	12	2009	1	36	37.8	36.99	29.17	R	11	R					3.1	R				
237	15	12	2009	2	9	41.4	40.55	41.18	R	18	R					2.8	R				
238	15	12	2009	2	51	18.7	40.34	36.57	R	2	R					3.3	R				
239	15	12	2009	6	57	57.8	38.60	27.97	R	10	R					2.6	R				
240	15	12	2009	8	48	48.1	37.00	29.18	R	10	R					2.9	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
241	15	12	2009	9	25	40.9	40.27	28.32	R	4	R					2.2	R				
242	15	12	2009	15	16	32.7	41.07	39.06	R	8	R					3.3	R				
243	15	12	2009	19	13	19.7	38.84	26.85	R	18	R					3.3	R				
244	15	12	2009	19	40	55.8	38.66	39.90	R	5	R					3.1	R				
245	15	12	2009	20	11	45.2	41.11	33.18	R	16	R					2.9	R				
246	16	12	2009	0	30	28.0	37.21	31.84	R	6	R					2.9	R				
247	16	12	2009	2	8	10.4	39.13	40.38	R	8	R					2.9	R				
248	16	12	2009	2	25	45.6	38.47	39.33	R	8	R					3.5	R				
249	16	12	2009	5	56	45.7	39.18	28.92	R	6	R					2.8	R				
250	16	12	2009	9	36	34.6	40.79	31.89	R	5	R					3.0	R				
251	16	12	2009	10	18	28.8	38.45	38.18	R	8	R					2.6	R				
252	16	12	2009	11	47	56.4	39.20	42.85	R	23	R					2.7	R				
253	16	12	2009	12	20	49.5	40.18	37.48	R	12	R					2.8	R				
254	16	12	2009	12	31	38.6	36.49	28.70	R	18	R					2.9	R				
255	16	12	2009	12	50	22.9	38.99	29.77	R	11	R					2.7	R				
256	16	12	2009	13	27	13.1	39.03	25.96	R	18	R					3.0	R				
257	16	12	2009	13	41	22.7	39.38	38.42	R	7	R					3.0	R				
258	16	12	2009	14	51	41.3	36.56	28.62	R	24	R					3.0	R				
259	17	12	2009	0	5	4.5	38.27	26.12	R	6	R					3.2	R				
260	17	12	2009	0	28	30.7	37.85	26.82	R	5	R					2.8	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude										
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref	
261	17	12	2009	1	20	37.9	37.96	28.85	R	10	R					2.5	R					
262	17	12	2009	1	57	6.1	38.37	26.67	R	9	R					2.8	R					
263	17	12	2009	4	39	55.2	37.51	35.70	R	6	R					3.4	R					
264	17	12	2009	4	42	38.8	37.52	35.67	R	5	R					3.2	R					
265	17	12	2009	4	56	13.9	37.53	35.69	R	5	R					3.3	R					
266	17	12	2009	6	16	54.5	39.55	28.77	R	11	R					2.4	R					
267	17	12	2009	10	6	56.7	37.46	35.43	R	10	R					2.4	R					
268	17	12	2009	12	34	57.4	37.01	35.76	R	5	R					2.2	R					
269	17	12	2009	13	8	56.4	40.70	35.00	R	5	R					2.8	R					
270	17	12	2009	13	52	47.1	40.36	27.81	R	6	R					2.4	R					
271	17	12	2009	16	13	10.4	37.88	34.57	R	13	R					2.7	R					
272	17	12	2009	16	44	11.9	40.02	39.75	R	8	R					2.9	R					
273	17	12	2009	19	57	12.4	36.57	34.65	R	5	R					2.6	R					
274	17	12	2009	23	58	54.6	38.85	27.90	R	9	R					2.9	R					
275	18	12	2009	0	1	4.5	37.02	28.56	R	13	R					3.1	R					
276	18	12	2009	0	12	35.1	36.20	28.75	R	20	R					3.1	R					
277	18	12	2009	0	28	3.0	38.33	27.16	R	12	R					2.3	R					
278	18	12	2009	4	24	8.0	37.58	38.50	R	22	R					3.0	R					
279	18	12	2009	5	19	10.3	37.05	29.15	R	7	R							3.9	R			
280	18	12	2009	5	38	30.9	37.76	29.12	R	7	R					3.2	R					

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
281	18	12	2009	6	17	50.9	38.94	25.63	R	25	R					3.4	R				
282	18	12	2009	9	2	41.3	37.76	30.12	R	16	R					2.7	R				
283	18	12	2009	11	54	16.7	40.11	30.00	R	18	R					2.5	R				
284	18	12	2009	14	12	53.2	38.20	38.06	R	2	R					2.5	R				
285	18	12	2009	14	35	14.2	38.85	27.92	R	6	R					2.6	R				
286	18	12	2009	14	46	12.0	39.48	43.15	R	15	R					2.6	R				
287	18	12	2009	18	34	13.4	39.98	39.26	R	22	R					2.7	R				
288	18	12	2009	21	21	54.9	37.38	35.73	R	4	R					2.4	R				
289	18	12	2009	21	40	20.1	37.02	29.18	R	9	R					2.9	R				
290	18	12	2009	22	6	1.4	39.10	29.08	R	5	R					2.6	R				
291	18	12	2009	22	19	50.1	36.97	26.47	R	2	R					3.1	R				
292	19	12	2009	1	33	6.9	38.08	38.15	R	5	R					3.8	R				
293	19	12	2009	3	8	54.9	38.17	25.99	R	5	R					2.9	R				
294	19	12	2009	3	24	23.2	37.82	29.14	R	8	R					2.7	R				
295	19	12	2009	6	25	59.9	36.10	27.18	R	113	R			4.5	N			4.1	R		
296	19	12	2009	8	48	20.8	36.79	36.92	R	8	R					2.9	R				
297	19	12	2009	8	56	29.6	39.48	32.01	R	8	R					2.6	R				
298	19	12	2009	10	2	17.5	37.63	34.72	R	25	R					2.5	R				
299	19	12	2009	11	10	41.8	37.56	35.40	R	8	R					2.5	R				
300	19	12	2009	14	43	3.1	38.50	27.20	R	5	R					2.7	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
301	19	12	2009	18	42	7.9	38.26	27.27	R	9	R					2.6	R				
302	19	12	2009	19	30	40.2	37.72	38.54	R	5	R					2.5	R				
303	19	12	2009	20	48	25.0	36.33	36.10	R	7	R					2.6	R				
304	19	12	2009	23	4	17.2	39.24	28.80	R	5	R					3.1	R				
305	20	12	2009	1	55	37.1	37.92	29.38	R	13	R					2.8	R				
306	20	12	2009	2	1	12.0	37.94	29.06	R	12	R					2.7	R				
307	20	12	2009	2	52	30.7	39.59	39.79	R	5	R					2.8	R				
308	20	12	2009	3	31	38.3	39.27	28.84	R	13	R					2.8	R				
309	20	12	2009	16	17	1.9	40.92	32.47	R	5	R							3.5	R		
310	20	12	2009	21	30	35.2	39.49	39.75	R	7	R					3.0	R				
311	21	12	2009	3	6	8.6	37.09	36.67	R	8	R					3.1	R				
312	21	12	2009	3	39	9.7	39.17	27.88	R	5	R					3.0	R				
313	21	12	2009	4	21	59.4	37.08	36.81	R	6	R					2.9	R				
314	21	12	2009	4	46	49.9	38.00	37.91	R	7	R					3.1	R				
315	21	12	2009	5	12	36.9	39.35	33.19	R	8	R					2.9	R				
316	21	12	2009	5	59	45.1	39.75	30.51	R	8	R					2.9	R				
317	21	12	2009	5	59	45.1	39.75	30.51	R	8	R					2.9	R				
318	21	12	2009	13	31	22.5	40.71	27.46	R	6	R					2.6	R				
319	21	12	2009	14	13	1.0	37.48	35.43	R	14	R					2.6	R				
320	21	12	2009	14	32	23.1	40.52	42.35	R	11	R					3.1	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude										
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref	
321	21	12	2009	15	16	46.4	37.99	37.94	R	8	R					2.8	R					
322	21	12	2009	16	45	24.9	38.39	37.42	R	5	R					3.3	R					
323	21	12	2009	16	59	10.2	40.40	28.29	R	6	R					2.8	R					
324	21	12	2009	19	2	14.5	39.11	28.07	R	7	R					3.2	R					
325	21	12	2009	21	9	1.8	38.70	31.23	R	4	R							3.6	R			
326	21	12	2009	21	18	2.9	38.70	31.24	R	6	R					2.9	R					
327	21	12	2009	23	53	50.0	38.75	40.04	R	14	R					2.9	R					
328	21	12	2009	23	54	47.8	40.95	31.69	R	6	R					3.0	R					
329	22	12	2009	1	13	28.0	40.68	29.06	R	12	R					2.7	R					
330	22	12	2009	2	35	7.6	39.30	25.38	R	9	R					3.4	R					
331	22	12	2009	3	6	34.1	36.50	26.50	R	86	R					3.1	R					
332	22	12	2009	4	6	51.0	38.18	25.99	R	9	R					2.9	R					
333	22	12	2009	4	10	32.4	40.21	28.85	R	11	R					2.6	R					
334	22	12	2009	6	6	23.4	35.72	31.51	N	63	N			5.3	N			5.4	R			
335	22	12	2009	9	28	33.3	37.87	29.08	R	7	R					2.9	R					
336	22	12	2009	13	49	38.8	38.92	27.91	R	3	R					2.8	R					
337	22	12	2009	14	6	24.3	37.09	35.97	R	14	R					2.2	R					
338	22	12	2009	14	20	10.7	37.92	29.11	R	6	R					2.7	R					
339	22	12	2009	15	16	29.3	37.56	35.60	R	13	R					3.3	R	3.3	R			
340	22	12	2009	15	21	18.2	38.22	27.37	R	17	R					2.5	R					

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
341	22	12	2009	15	57	59.2	41.17	34.34	R	5	R					3.1	R				
342	22	12	2009	16	3	26.1	41.19	34.31	R	5	R					2.9	R				
343	22	12	2009	16	3	47.5	38.08	29.18	R	16	R					2.6	R				
344	22	12	2009	16	5	1.2	38.81	27.14	R	16	R					2.8	R				
345	22	12	2009	17	32	2.7	40.35	25.47	R	8	R					2.8	R				
346	22	12	2009	18	36	26.2	40.40	27.11	R	16	R					2.3	R				
347	22	12	2009	20	26	48.0	37.92	29.09	R	5	R					2.9	R				
348	22	12	2009	20	31	27.7	40.37	42.19	R	9	R					2.9	R				
349	22	12	2009	20	43	42.2	37.96	29.09	R	9	R					2.5	R				
350	22	12	2009	23	13	20.7	38.61	26.16	R	12	R							3.3	R		
351	22	12	2009	23	28	16.2	36.97	41.38	R	18	R					3.3	R				
352	23	12	2009	0	16	32.4	39.39	33.07	R	7	R					2.5	R				
353	23	12	2009	1	0	49.8	37.89	29.11	R	8	R					2.8	R				
354	23	12	2009	1	5	9.3	37.91	29.09	R	12	R					2.6	R				
355	23	12	2009	2	0	53.1	37.97	29.13	R	7	R					2.7	R				
356	23	12	2009	2	28	41.1	38.02	27.34	R	5	R					2.7	R				
357	23	12	2009	3	13	24.1	37.90	29.06	R	9	R					2.6	R				
358	23	12	2009	3	57	3.5	37.60	35.60	R	8	R					2.9	R				
359	23	12	2009	4	21	59.4	36.81	31.39	R	87	R					3.2	R				
360	23	12	2009	4	44	39.3	37.65	26.54	N	32	N			4.5	N			4.3	R		

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
361	23	12	2009	4	46	3.9	37.70	26.79	R	5	R					2.7	R				
362	23	12	2009	4	50	0.4	37.67	26.52	R	15	R					2.4	R				
363	23	12	2009	4	52	0.8	37.62	26.47	R	8	R					2.7	R				
364	23	12	2009	4	52	57.1	37.66	26.46	R	19	R					3.0	R				
365	23	12	2009	4	56	31.9	37.65	26.50	R	24	R					2.6	R				
366	23	12	2009	5	4	44.5	37.62	26.45	R	5	R					3.3	R				
367	23	12	2009	5	36	33.8	36.50	29.12	R	10	R					2.8	R				
368	23	12	2009	6	15	18.9	37.65	26.58	R	19	R					2.6	R				
369	23	12	2009	6	16	51.6	37.69	26.47	R	27	R					2.6	R				
370	23	12	2009	6	21	51.3	39.16	27.29	R	7	R					2.7	R				
371	23	12	2009	6	29	12.8	39.07	27.35	R	5	R					2.7	R				
372	23	12	2009	6	46	46.5	38.98	40.50	R	5	R					3.2	R				
373	23	12	2009	7	57	28.5	35.87	26.93	R	10	R					3.8	R				
374	23	12	2009	8	46	35.6	40.00	28.17	R	15	R					2.9	R				
375	23	12	2009	9	12	46.9	39.96	40.57	R	7	R					2.7	R				
376	23	12	2009	10	40	33.9	36.38	27.46	R	2	R					3.4	R				
377	23	12	2009	10	50	45.6	38.79	25.99	R	9	R					3.1	R				
378	23	12	2009	11	30	58.8	37.07	29.12	R	7	R					2.8	R				
379	23	12	2009	14	1	57.0	38.82	31.34	R	20	R					2.8	R				
380	23	12	2009	14	39	31.8	39.11	28.94	R	9	R					2.9	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
381	23	12	2009	15	12	26.2	39.34	36.46	R	5	R					2.8	R				
382	23	12	2009	21	17	29.9	39.47	33.07	R	5	R					2.9	R				
383	23	12	2009	23	47	51.1	40.63	28.06	R	12	R					2.5	R				
384	23	12	2009	23	49	31.4	38.93	26.82	R	14	R					2.7	R				
385	24	12	2009	0	42	54.5	39.40	33.08	R	5	R					3.4	R				
386	24	12	2009	1	13	26.7	36.05	28.32	R	23	R					3.6	R				
387	24	12	2009	2	58	40.1	40.46	27.78	R	15	R					2.6	R				
388	24	12	2009	4	23	31.6	40.70	27.54	R	11	R					2.7	R				
389	24	12	2009	6	38	8.0	38.93	25.81	R	9	R					2.9	R				
390	24	12	2009	12	9	40.1	37.56	35.37	R	8	R					2.8	R				
391	24	12	2009	13	30	40.9	40.23	29.90	R	15	R					2.4	R				
392	24	12	2009	13	36	58.6	40.04	40.43	R	5	R					2.6	R				
393	24	12	2009	14	46	22.0	38.30	39.35	R	7	R					2.9	R				
394	24	12	2009	16	38	32.5	40.22	27.65	R	13	R					2.6	R				
395	24	12	2009	19	34	30.4	34.42	32.61	R	5	R					3.3	R				
396	24	12	2009	20	12	49.3	36.49	27.59	R	6	R					2.8	R				
397	24	12	2009	20	19	24.1	37.92	26.79	R	7	R					2.9	R				
398	24	12	2009	20	28	7.5	37.92	26.76	R	7	R					2.8	R				
399	24	12	2009	20	31	36.9	37.89	26.75	R	8	R					2.6	R				
400	24	12	2009	22	17	1.2	39.65	39.72	R	6	R					3.3	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
401	24	12	2009	22	26	8.9	39.66	39.73	R	6	R					3.1	R				
402	24	12	2009	22	29	44.2	39.11	27.18	R	12	R					2.7	R				
403	24	12	2009	22	45	46.8	39.66	39.74	R	6	R					2.8	R				
404	24	12	2009	23	4	52.9	39.62	39.84	R	7	R					2.7	R				
405	24	12	2009	23	35	37.2	39.65	39.71	R	8	R					2.8	R				
406	25	12	2009	0	21	12.9	37.09	30.36	R	9	R					2.9	R				
407	25	12	2009	1	36	15.0	35.65	31.62	R	11	R					3.6	R				
408	25	12	2009	2	14	54.2	38.40	25.23	R	5	R					3.7	R				
409	25	12	2009	2	27	43.8	38.43	43.57	R	3	R					2.9	R				
410	25	12	2009	3	27	32.2	37.76	30.88	R	14	R					2.7	R				
411	25	12	2009	3	39	3.0	38.88	38.99	R	8	R					2.8	R				
412	25	12	2009	4	4	1.3	37.60	35.68	R	10	R					2.5	R				
413	25	12	2009	4	29	14.3	37.03	29.18	R	7	R					3.0	R				
414	25	12	2009	5	39	59.6	39.64	39.76	R	15	R					2.8	R				
415	25	12	2009	5	40	25.9	40.81	32.00	R	10	R					2.7	R				
416	25	12	2009	6	36	2.1	40.75	27.41	R	16	R					2.6	R				
417	25	12	2009	8	45	29.7	35.58	31.54	R	43	R					3.5	R				
418	25	12	2009	10	24	46.6	36.87	27.48	R	17	R					3.7	R				
419	25	12	2009	11	11	18.7	37.03	28.27	R	9	R							2.7	R		
420	25	12	2009	11	53	1.5	38.07	32.67	R	11	R					2.6	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
421	25	12	2009	13	11	22.1	38.53	31.08	R	5	R					3.0	R				
422	25	12	2009	13	53	12.2	38.28	34.10	R	10	R					2.9	R				
423	25	12	2009	14	28	25.8	34.68	34.00	R	26	R					2.9	R				
424	25	12	2009	15	55	28.5	37.03	29.17	R	3	R					2.9	R				
425	25	12	2009	22	10	3.3	37.65	26.60	R	23	R					2.7	R				
426	25	12	2009	22	18	10.4	37.69	26.50	R	12	R					2.7	R				
427	25	12	2009	22	20	20.0	42.15	26.47	R	6	R					2.7	R				
428	26	12	2009	2	39	3.9	40.00	42.30	R	15	R					2.8	R				
429	26	12	2009	7	20	9.6	38.97	40.45	R	8	R					2.7	R				
430	26	12	2009	9	47	13.4	37.54	30.49	R	6	R					3.2	R				
431	26	12	2009	11	5	9.1	37.38	34.56	R	6	R					2.6	R				
432	26	12	2009	11	35	56.0	37.47	35.43	R	5	R					2.6	R				
433	26	12	2009	12	6	6.5	41.76	35.52	R	7	R					2.6	R				
434	26	12	2009	14	11	6.0	40.33	27.80	R	4	R					2.2	R				
435	26	12	2009	14	49	51.1	37.79	27.41	R	3	R					2.7	R				
436	26	12	2009	15	36	28.8	38.69	31.26	R	8	R					2.8	R				
437	26	12	2009	18	3	33.1	39.63	39.80	R	9	R					2.4	R				
438	26	12	2009	18	51	55.5	37.63	26.62	R	16	R					2.5	R				
439	26	12	2009	18	56	49.3	39.21	27.48	R	8	R					3.3	R				
440	26	12	2009	20	22	52.9	35.04	33.90	R	31	R					3.4	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude										
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref	
441	26	12	2009	21	5	13.3	34.65	30.78	R	11	R					3.8	R					
442	26	12	2009	22	35	32.9	38.59	39.58	R	6	R					3.1	R					
443	27	12	2009	1	32	16.3	36.96	36.72	R	6	R					2.9	R					
444	27	12	2009	5	2	29.4	39.40	42.02	R	10	R					2.7	R					
445	27	12	2009	5	6	26.2	38.61	39.85	R	9	R					2.6	R					
446	27	12	2009	6	28	20.8	39.98	28.18	R	17	R					2.4	R					
447	27	12	2009	7	39	25.6	39.98	28.17	R	8	R					2.7	R					
448	27	12	2009	9	6	13.6	36.31	28.76	R	26	R					3.4	R					
449	27	12	2009	9	12	20.7	38.83	25.55	R	31	R							3.3	R			
450	27	12	2009	9	14	3.3	38.95	25.75	R	6	R					3.4	R					
451	27	12	2009	14	45	37.1	38.57	26.51	R	22	R					3.3	R					
452	28	12	2009	1	1	32.8	39.13	29.03	R	5	R					3.0	R					
453	28	12	2009	1	34	43.9	39.91	28.41	R	20	R					2.6	R					
454	28	12	2009	9	10	38.0	40.03	42.10	R	7	R					3.1	R					
455	28	12	2009	12	48	51.5	37.01	29.18	R	23	R					2.3	R	2.3	R			
456	28	12	2009	13	16	57.8	39.29	27.94	R	7	R					3.0	R					
457	28	12	2009	14	6	24.8	37.46	35.44	R	4	R					2.8	R					
458	28	12	2009	15	59	51.4	36.46	26.77	R	12	R					3.3	R					
459	28	12	2009	16	13	0.1	36.85	27.30	R	8	R					2.9	R					
460	28	12	2009	22	2	4.1	38.84	26.87	R	8	R					3.4	R	3.4	R			

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
461	28	12	2009	22	43	21.2	40.17	29.63	R	3	R					2.9	R				
462	29	12	2009	0	52	11.6	39.00	41.92	R	2	R					3.2	R				
463	29	12	2009	2	21	30.7	37.86	30.88	R	9	R					2.8	R				
464	29	12	2009	3	15	41.4	39.10	41.97	R	5	R					3.3	R				
465	29	12	2009	4	16	19.4	39.11	41.88	R	15	R					3.1	R				
466	29	12	2009	4	51	9.3	39.75	30.55	R	5	R					2.8	R				
467	29	12	2009	6	13	24.3	38.85	26.90	R	13	R					3.3	R	3.4	R		
468	29	12	2009	9	18	10.9	38.85	41.58	R	10	R					2.9	R				
469	29	12	2009	10	24	55.4	40.64	35.15	R	14	R					2.7	R				
470	29	12	2009	11	34	9.0	37.55	35.41	R	7	R					2.8	R				
471	29	12	2009	11	49	21.8	37.50	34.70	R	24	R					2.4	R				
472	29	12	2009	12	58	55.1	38.09	38.33	R	2	R					3.1	R				
473	29	12	2009	13	30	49.1	40.63	26.54	R	11	R					2.4	R				
474	29	12	2009	13	46	27.5	40.15	34.16	R	5	R					3.3	R				
475	29	12	2009	13	56	52.0	38.87	26.91	R	7	R					3.3	R				
476	29	12	2009	20	42	34.3	40.46	27.84	R	7	R					2.8	R				
477	29	12	2009	22	25	49.8	39.50	33.08	R	5	R					3.1	R				
478	30	12	2009	0	2	58.5	40.17	27.04	R	8	R					3.0	R				
479	30	12	2009	1	21	25.5	37.90	27.08	R	6	R					3.0	R				
480	30	12	2009	2	29	10.5	36.19	27.67	R	12	R					3.0	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude									
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref
481	30	12	2009	5	36	27.8	39.08	24.27	R	7	R					3.2	R				
482	30	12	2009	8	1	37.2	37.18	28.64	R	11	R					3.0	R				
483	30	12	2009	10	43	29.6	37.55	35.40	R	9	R					2.6	R				
484	30	12	2009	11	0	50.6	36.70	27.95	R	6	R					3.5	R				
485	30	12	2009	11	6	4.2	38.99	42.48	R	8	R					3.0	R				
486	30	12	2009	11	25	51.2	40.21	29.64	R	9	R					2.6	R				
487	30	12	2009	13	18	47.0	38.90	27.87	R	5	R					2.7	R				
488	30	12	2009	15	19	38.3	38.80	35.50	R	5	R					3.0	R				
489	30	12	2009	15	26	29.4	40.75	26.33	R	15	R					2.3	R				
490	30	12	2009	16	28	3.0	35.08	27.39	R	29	R							2.6	R		
491	30	12	2009	16	55	19.9	41.67	27.52	R	5	R					3.2	R				
492	30	12	2009	17	23	24.8	41.66	27.51	R	4	R					3.3	R				
493	30	12	2009	20	40	54.7	37.96	29.00	R	8	R					3.0	R				
494	30	12	2009	22	16	25.2	36.98	29.19	R	20	R					2.5	R				
495	30	12	2009	22	56	29.0	36.12	27.42	R	7	R					2.9	R				
496	31	12	2009	0	12	41.4	34.37	25.52	R	19	R					4.3	R				
497	31	12	2009	0	18	30.5	34.06	25.44	R	14	R					4.5	R				
498	31	12	2009	2	49	21.3	36.91	29.36	R	9	R					2.9	R				
499	31	12	2009	6	34	52.4	38.06	38.38	R	16	R					2.6	R				
500	31	12	2009	10	12	7.6	37.19	28.16	R	14	R					2.7	R				

TÜRKİYE DEPREM ETKİNLİĞİ (2009 YILI ARALIK AYI)

No	Tarih - Date			Zaman - Time			Koordinat - Coordinate			Derinlik - Depth		Magnitüd - Magnitude										
	Gün	Ay	Yıl	Saat	Dak.	San.	Enlem-K	Boylam-D	Ref	Km.	Ref	Ms	Ref	Mb	Ref	Md	Ref	MI	Ref	Mw	Ref	
501	31	12	2009	11	38	30.6	39.36	38.52	R	14	R					2.6	R					
502	31	12	2009	11	51	42.2	40.02	39.81	R	26	R					2.6	R					
503	31	12	2009	13	1	37.8	36.29	27.52	R	85	R					3.5	R	3.9	R			
504	31	12	2009	13	37	43.5	38.66	39.45	R	5	R					2.6	R					
505	31	12	2009	14	19	26.4	39.37	38.53	R	17	R					2.5	R					
506	31	12	2009	14	29	41.8	39.91	29.91	R	8	R					2.5	R					
507	31	12	2009	14	54	3.7	38.12	32.69	R	4	R					2.7	R					
508	31	12	2009	14	56	38.2	37.21	36.28	R	16	R					2.6	R					
509	31	12	2009	17	18	35.0	39.44	28.97	R	10	R					2.8	R					
510	31	12	2009	17	50	29.2	39.30	40.85	R	5	R					3.2	R					
511	31	12	2009	18	9	42.1	38.93	28.15	R	9	R					2.9	R					
512	31	12	2009	20	8	33.9	38.54	28.28	R	4	R					2.6	R					
513	31	12	2009	21	47	38.4	37.16	35.54	R	22	R					2.2	R					
514	31	12	2009	22	5	1.2	37.25	36.25	R	5	R					3.4	R					
515	31	12	2009	22	21	33.4	38.92	44.13	R	11	R					2.7	R					