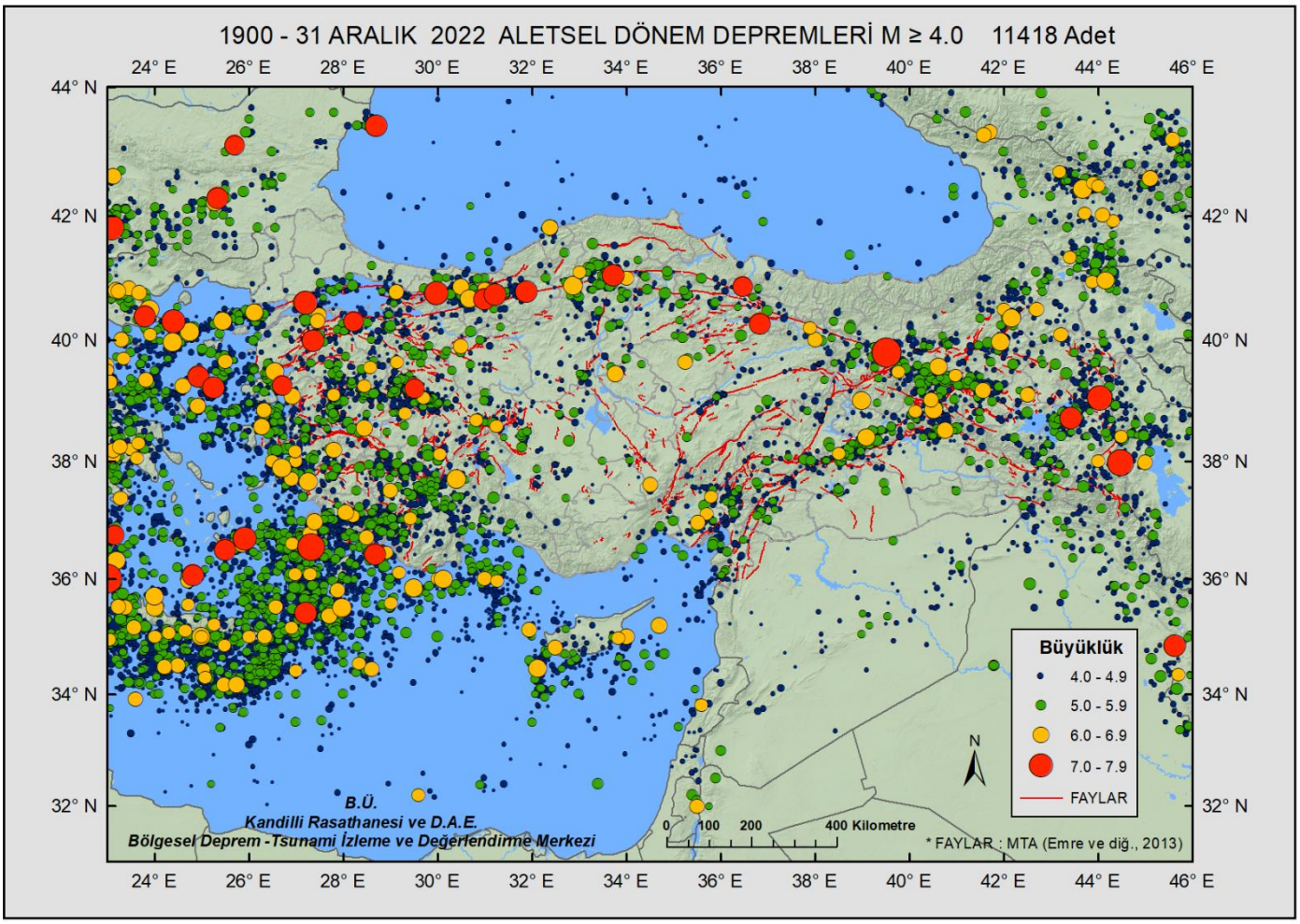
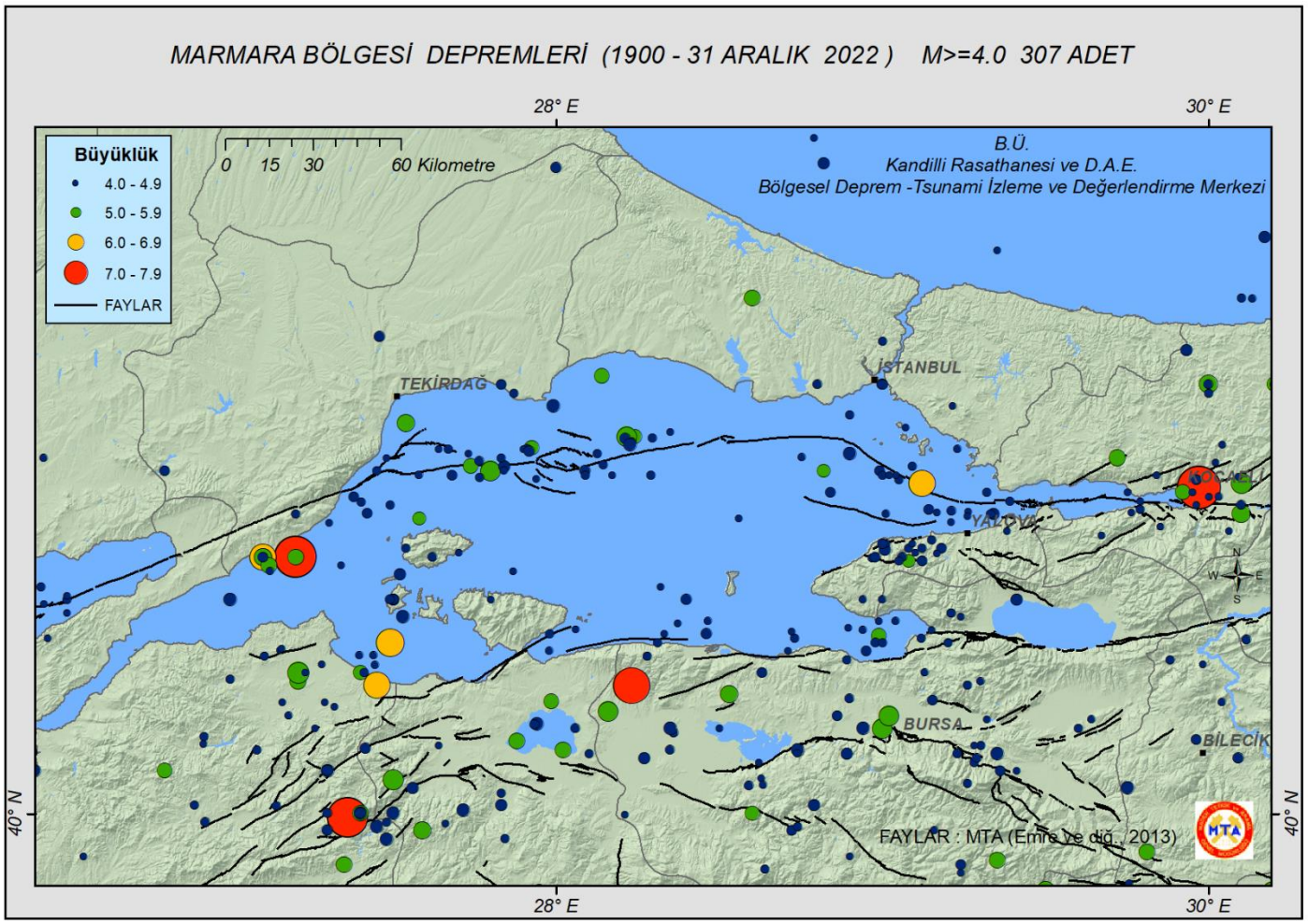
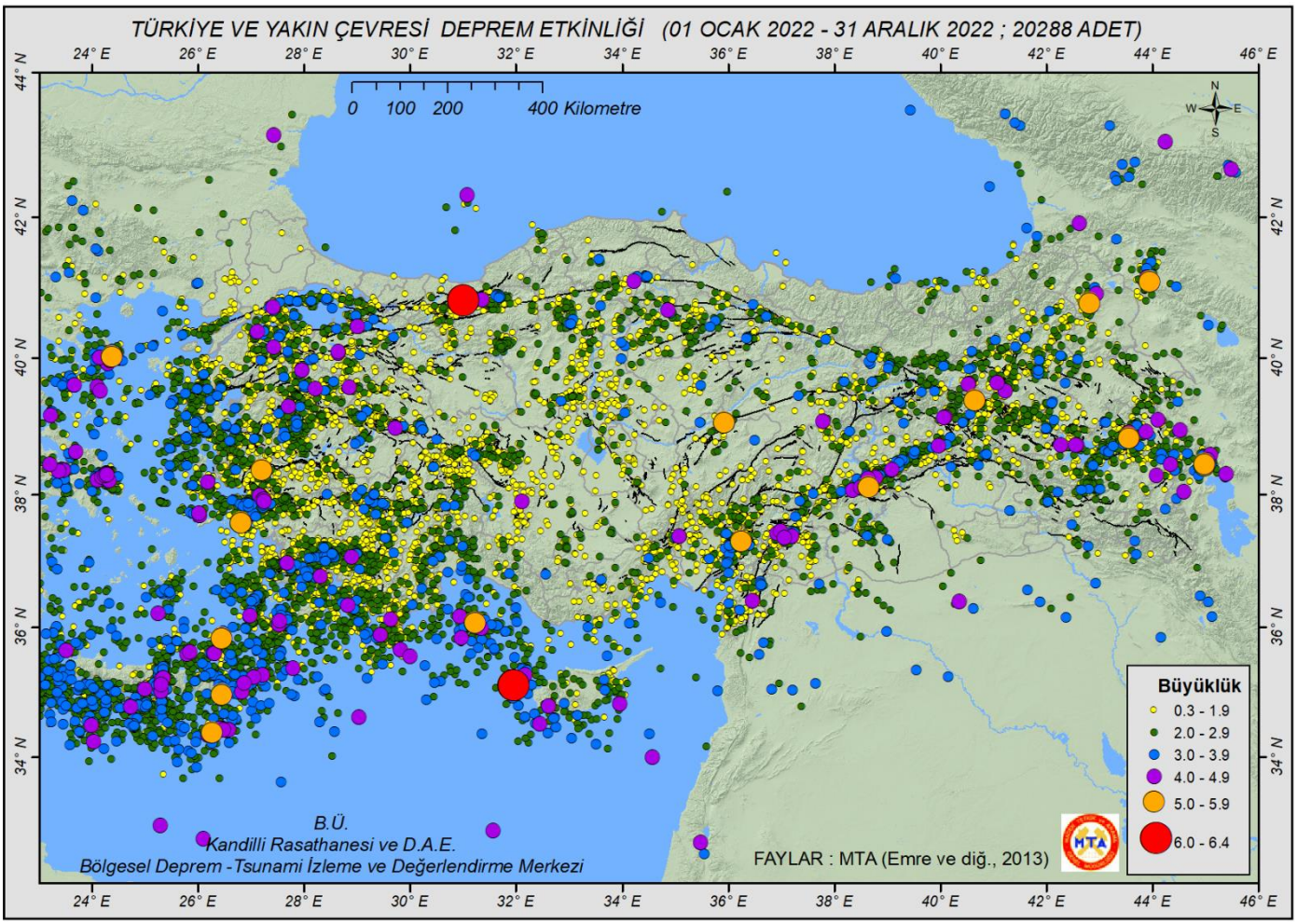
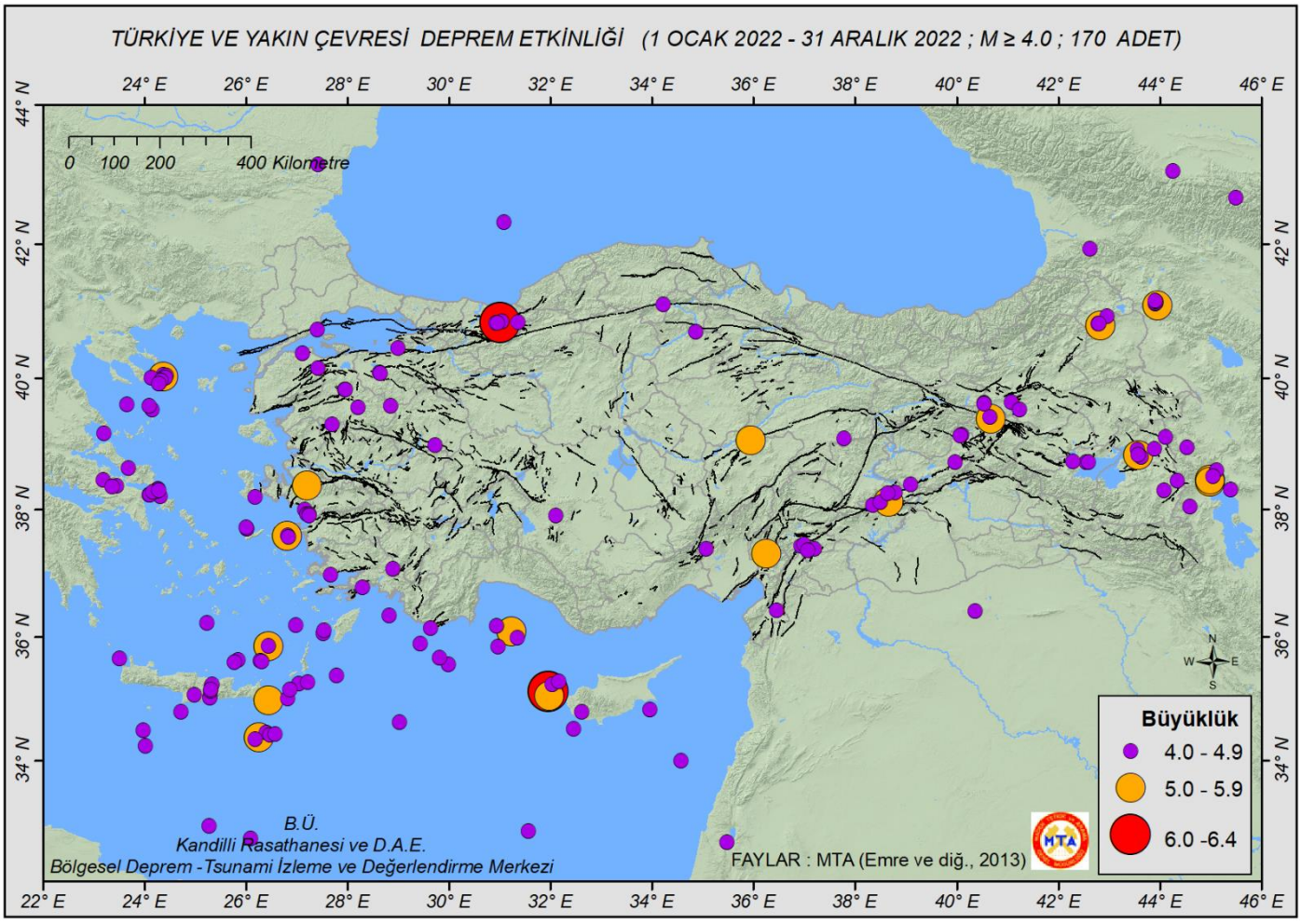
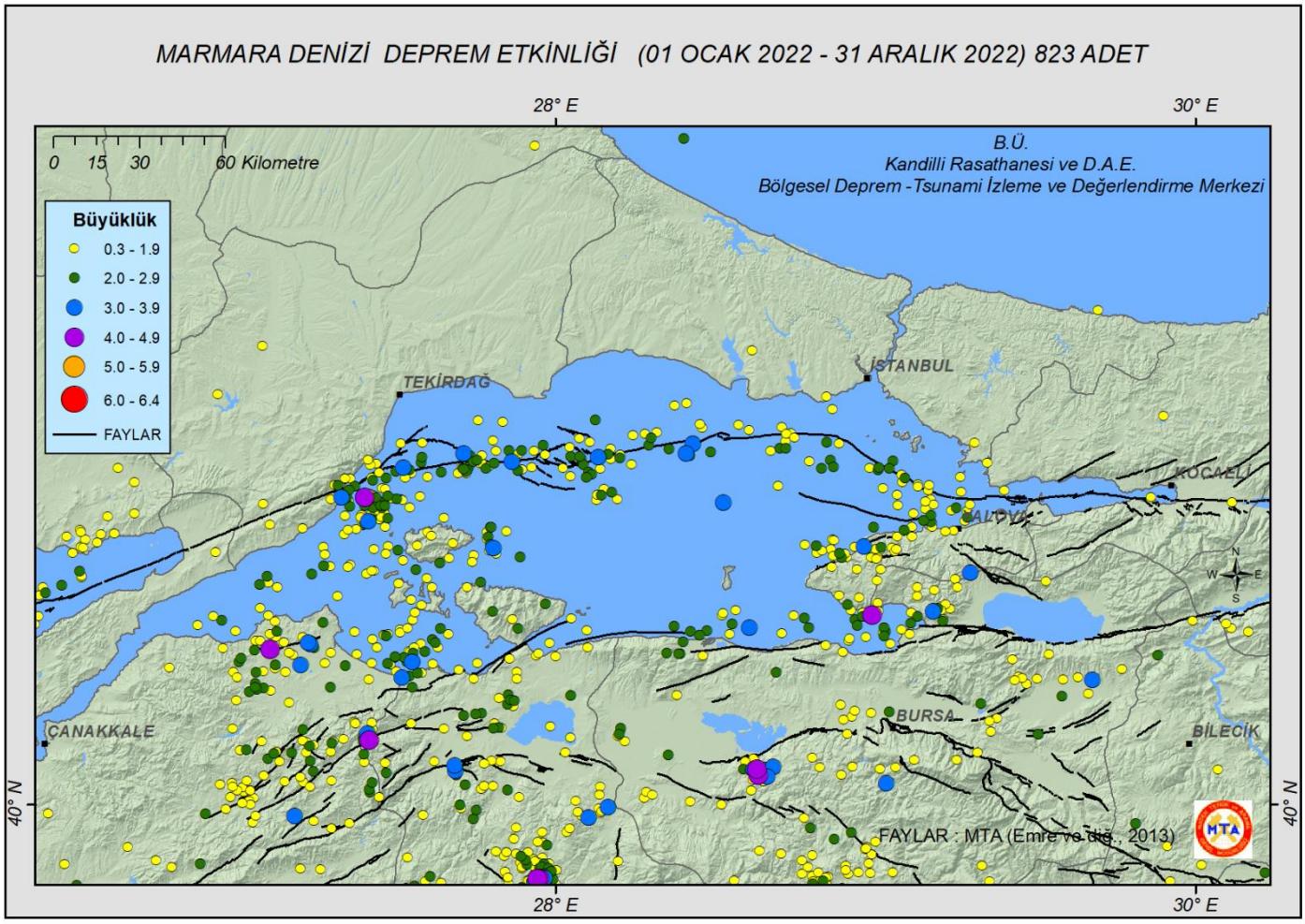

1900 - 31 ARALIK 2022 ALETSEL DÖNEM DEPREMLERİ M ≥ 4.0 11418 Adet
24° E
26° E
28° E
30° E
32° E
34° E
36° E
38° E
40° E
42° E
44° E
46° E
44° N
42° N
40° N
38° N
36° N
34° N
32° N
Büyüklük
4.0 - 4.9
5.0 - 5.9
6.0 - 6.9
7.0 - 7.9
FAYLAR
N
B.Ü.
Kandilli Rasathanesi ve D.A.E.
Bölgesel Deprem -Tsunami İzleme ve Değerlendirme Merkezi
0 100 200 400 Kilometre
* FAYLAR : MTA (Emre ve diğ., 2013)


MARMARA BÖLGESİ DEPREMLERİ (1900 - 31 ARALIK 2022) M>=4.0 307 ADET
28° E
30° E
40° N
Büyüklük
4.0 - 4.9
5.0 - 5.9
6.0 - 6.9
7.0 - 7.9
FAYLAR
0 15 30 60 Kilometre
B.Ü.
Kandilli Rasathanesi ve D.A.E.
Bölgesel Deprem -Tsunami İzleme ve Değerlendirme Merkezi
TEKİRDAĞ
İSTANBUL
YALOVA
BURSA
BİLECİK
N
W
E
S
FAYLAR : MTA (Emre ve diğ., 2013)


TÜRKİYE VE YAKIN ÇEVRESİ DEPREM ETKİNLİĞİ (01 OCAK 2022 - 31 ARALIK 2022 ; 20288 ADET)
0 100 200 400 Kilometre
Büyüklük
0.3 - 1.9
2.0 - 2.9
3.0 - 3.9
4.0 - 4.9
5.0 - 5.9
6.0 - 6.4
B.Ü.
Kandilli Rasathanesi ve D.A.E.
Bölgesel Deprem -Tsunami İzleme ve Değerlendirme Merkezi
FAYLAR : MTA (Emre ve diğ., 2013)


TÜRKİYE VE YAKIN ÇEVRESİ DEPREM ETKİNLİĞİ (1 OCAK 2022 - 31 ARALIK 2022 ; M ≥ 4.0 ; 170 ADET)
0 100 200 400 Kilometre
Büyüklük
4.0 - 4.9
5.0 - 5.9
6.0 -6.4
B.Ü.
Kandilli Rasathanesi ve D.A.E.
Bölgesel Deprem -Tsunami İzleme ve Değerlendirme Merkezi
FAYLAR : MTA (Emre ve diğ., 2013)



2022 YILI TÜRKİYE ve YAKIN ÇEVRESİ DEPREM ETKİNLİĞİ

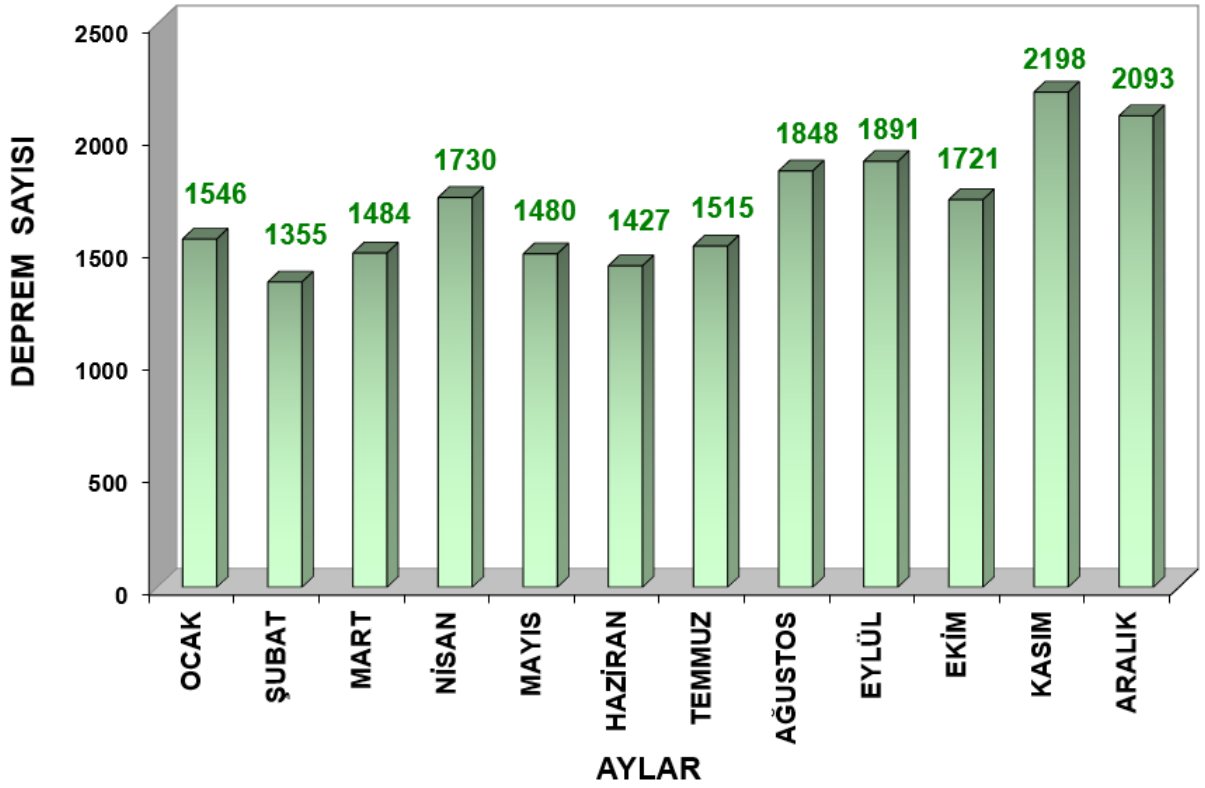
AYLAR	GÜN SAYISI	OLAN DEPREM SAYISI M >0.4	ORTALAMA ADET/GÜN	M ≥ 0.3 ve M ≤ 1.9 ADET	M ≥ 2.0 ve M ≤ 2.9 ADET	M ≥ 3.0 ve M ≤ 3.9 ADET	M ≥ 4.0 ve M ≤ 4.9 ADET	M ≥ 5.0 ve M ≤ 5.9 ADET	M ≥ 6.0 ve M ≤ 6.9 ADET	M ≥ 7.0 ve M ≤ 7.9 ADET	AYLIK TOPLAM
OCAK	31	1546	50	847	559	117	19	3	1	0	1546
ŞUBAT	28	1355	48	807	459	80	7	2	0	0	1355
MART	31	1484	48	847	541	88	8	0	0	0	1484
NİSAN	30	1730	58	1022	607	87	13	1	0	0	1730
MAYIS	31	1480	48	821	565	79	15	0	0	0	1480
HAZİRAN	30	1427	48	662	665	87	12	1	0	0	1427
TEMMUZ	31	1515	49	692	717	97	9	0	0	0	1515
AĞUSTOS	31	1848	60	1005	744	88	10	1	0	0	1848
EYLÜL	30	1891	63	1097	681	98	11	4	0	0	1891
EKİM	31	1721	56	993	621	90	14	3	0	0	1721
KASIM	30	2198	73	1441	666	74	14	2	1	0	2198
ARALIK	31	2093	68	1299	680	95	19	0	0	0	2093

M > 0.3

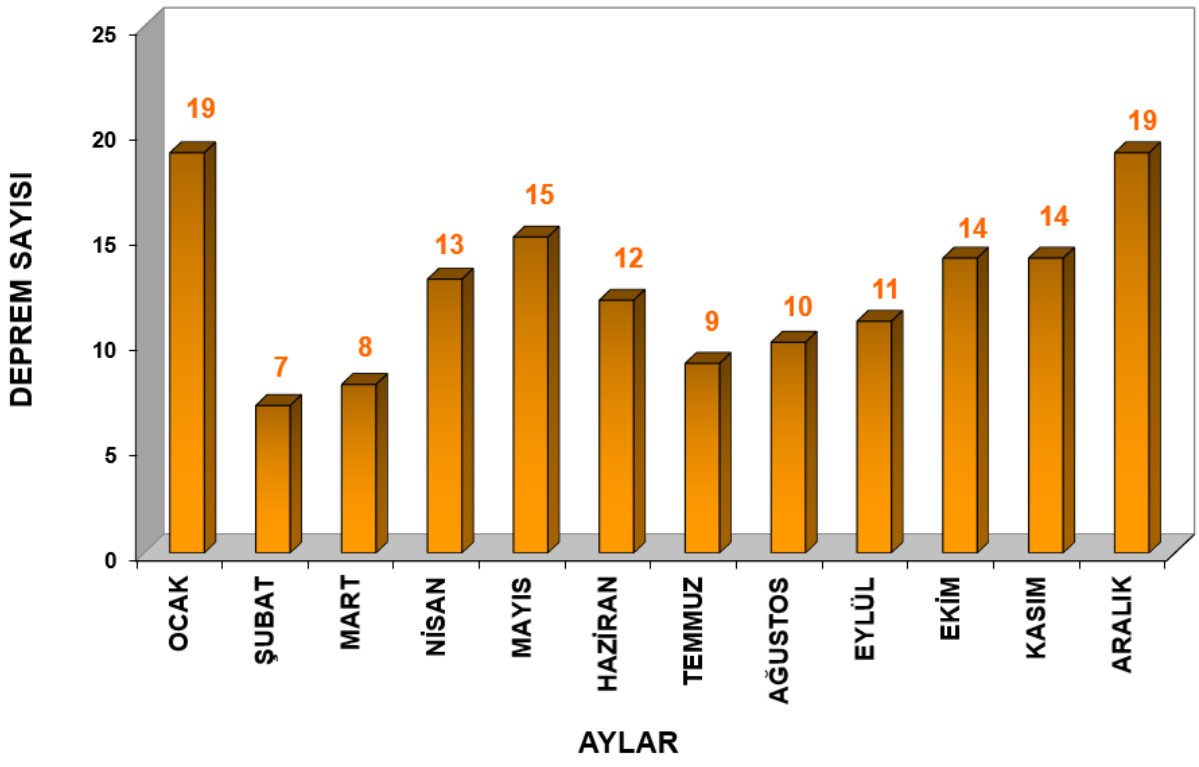
YILLIK	TOPLAM GÜN	TOPLAM OLAN DEPREM	ORT. ADET/GÜN
	365	20288	56

M ≥ 0.3 ve M ≤ 1.9 ADET	M ≥ 2.0 ve M ≤ 2.9 ADET	M ≥ 3.0 ve M ≤ 3.9 ADET	M ≥ 4.0 ve M ≤ 4.9 ADET	M ≥ 5.0 ve M ≤ 5.9 ADET	M ≥ 6.0 ve M ≤ 6.9 ADET	M ≥ 7.0 ve M ≤ 7.9 ADET	M ≥ 4.0 ve M ≤ 7.9 ADET
11533	7505	1080	151	17	2	0	170
56.85 %	36.99 %	5.32 %	0.74 %	0.08 %	0.01 %		

2022 YILI TÜRKİYE ve YAKIN ÇEVRESİ DEPREM ETKİNLİĞİ
20288 Adet (M ≥ 0.3)

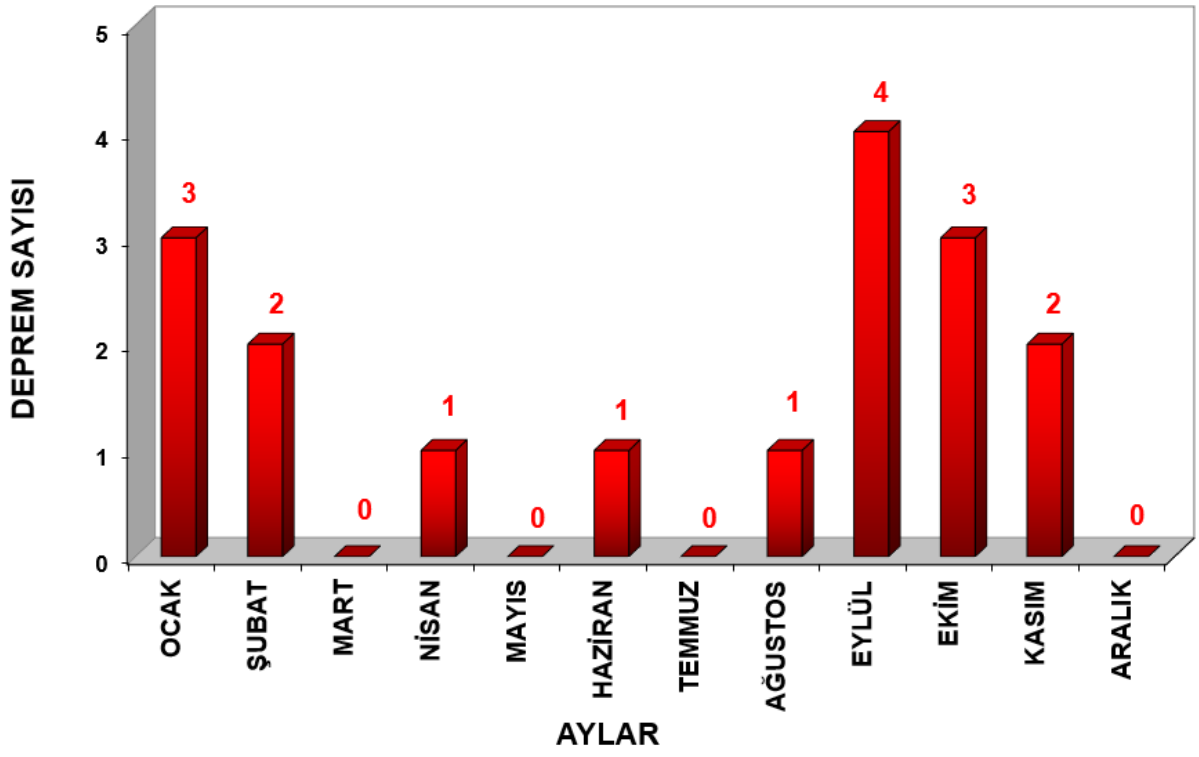


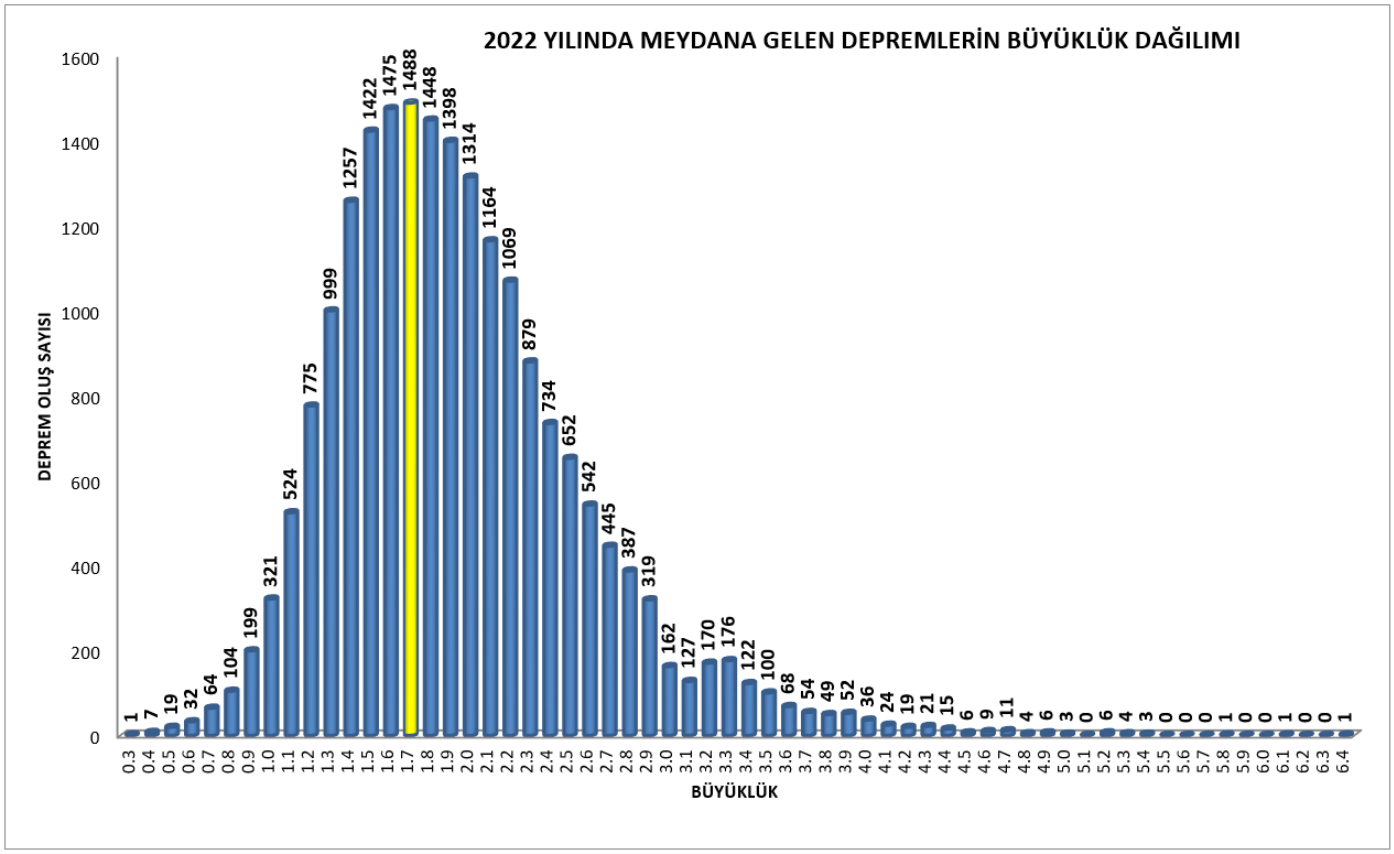
2022 YILI TÜRKİYE ve YAKIN ÇEVRESİ DEPREM ETKİNLİĞİ
(M ≥ 4.0 - M < 5.0)



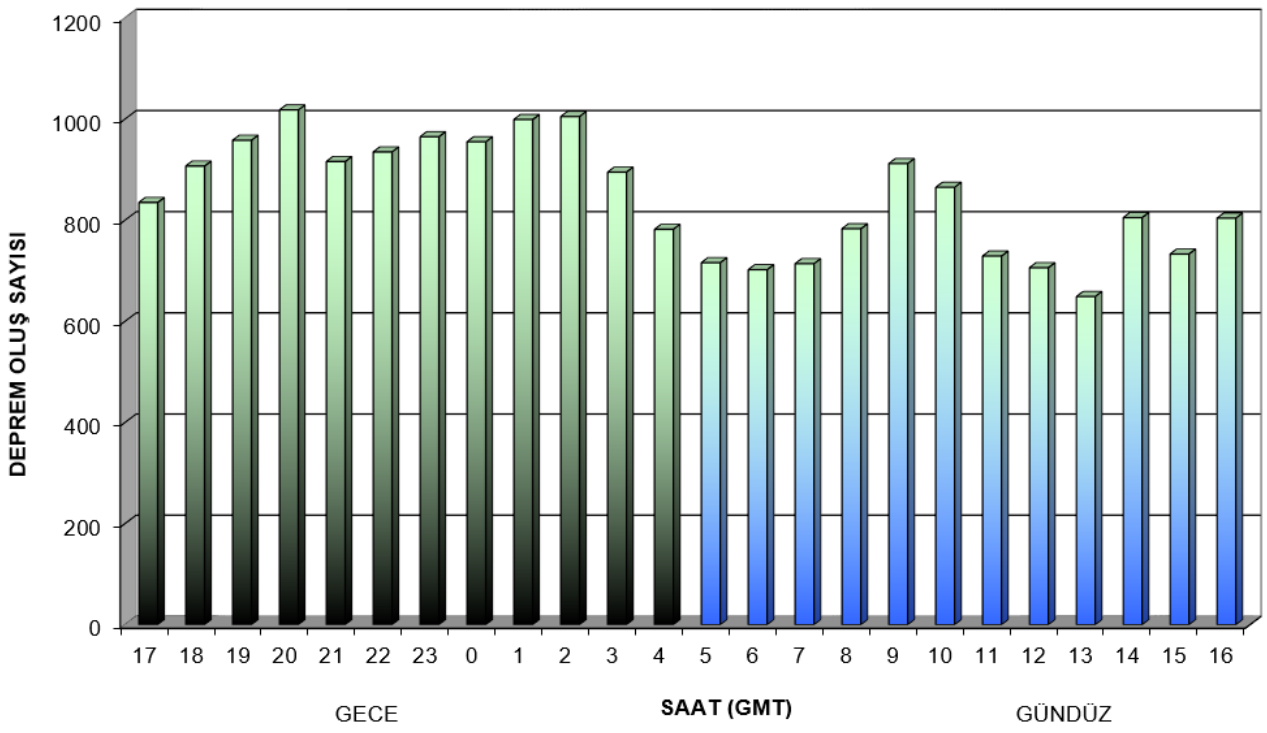
2022 YILI TÜRKİYE ve YAKIN ÇEVRESİ DEPREM ETKİNLİĞİ

(M ≥ 5.0 - M < 6.0)





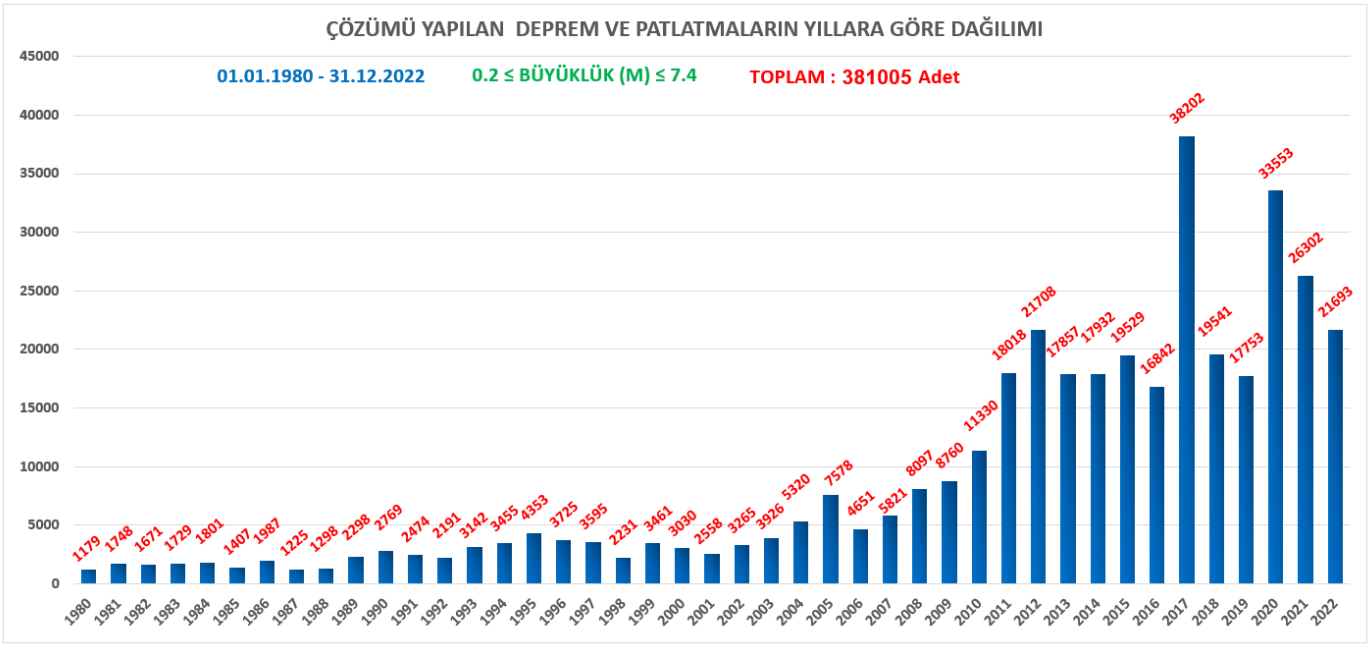
2022 YILINDA DEPREMLERİN SAATLERE GÖRE DAĞILIMI (0.3 ≤ M ≤ 6.4)

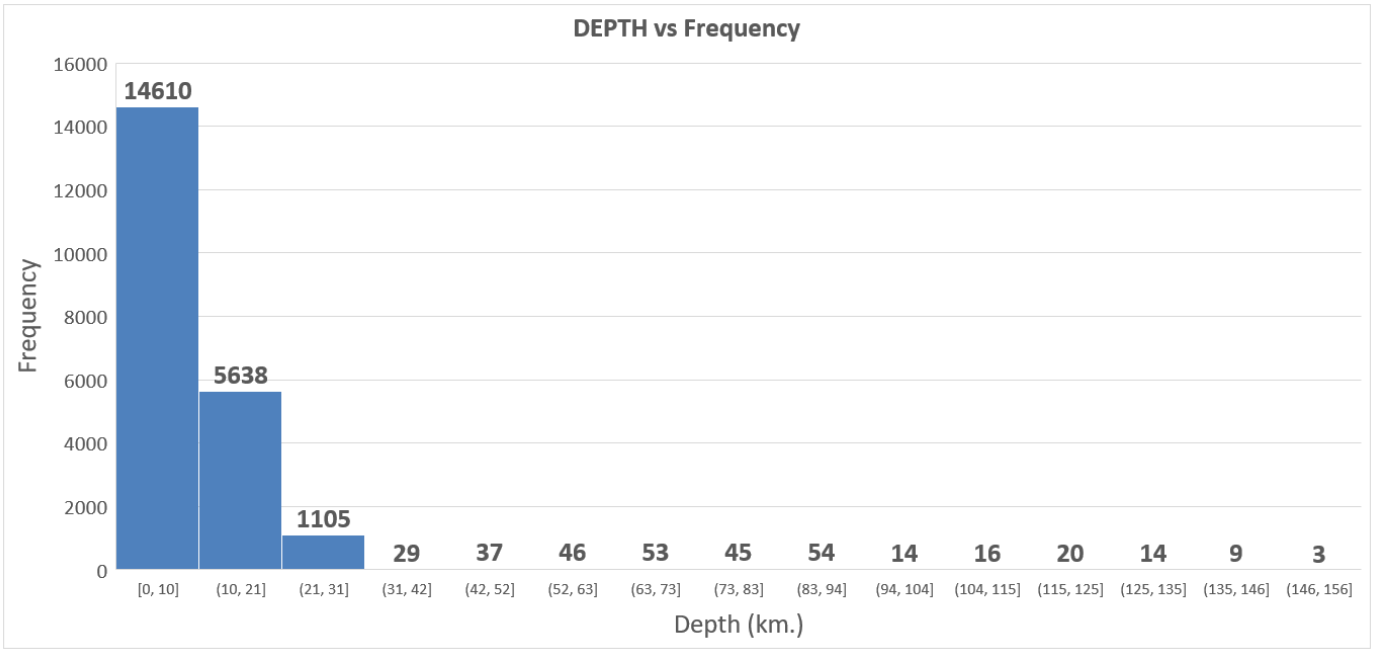


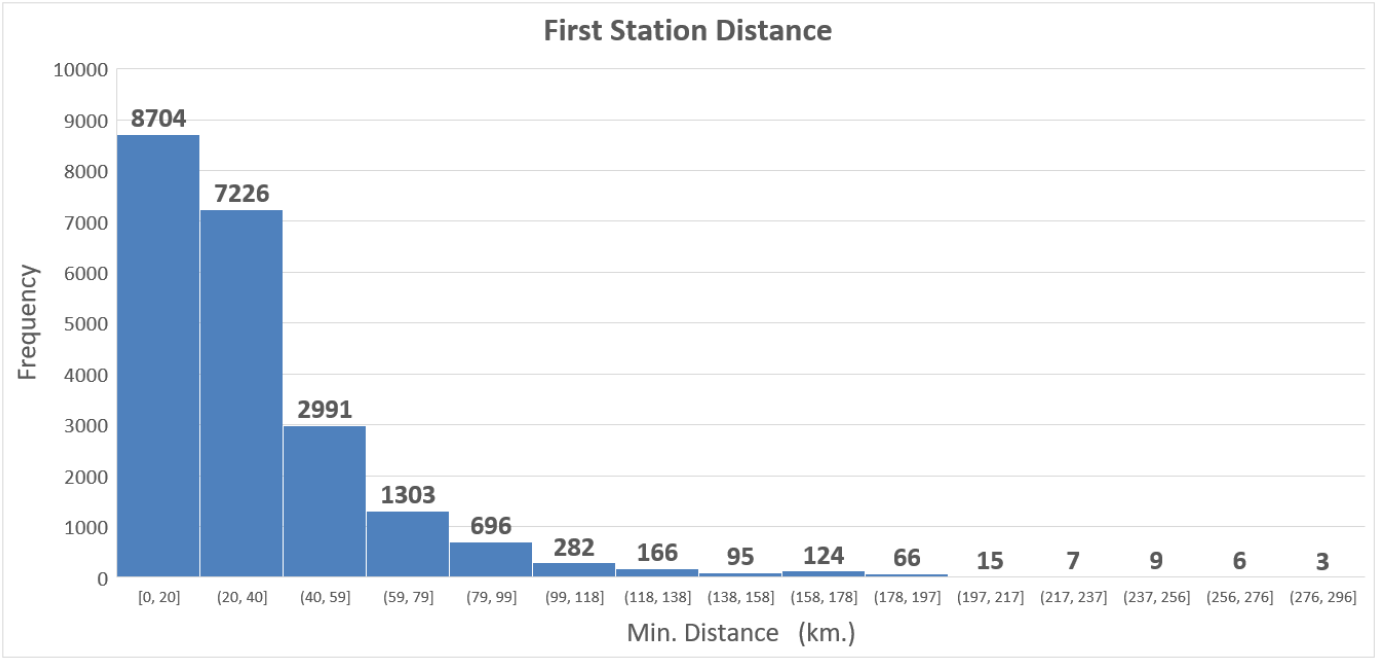
2022 YILINDA DEPREMLERİN SAATLERE GÖRE DAĞILIMI

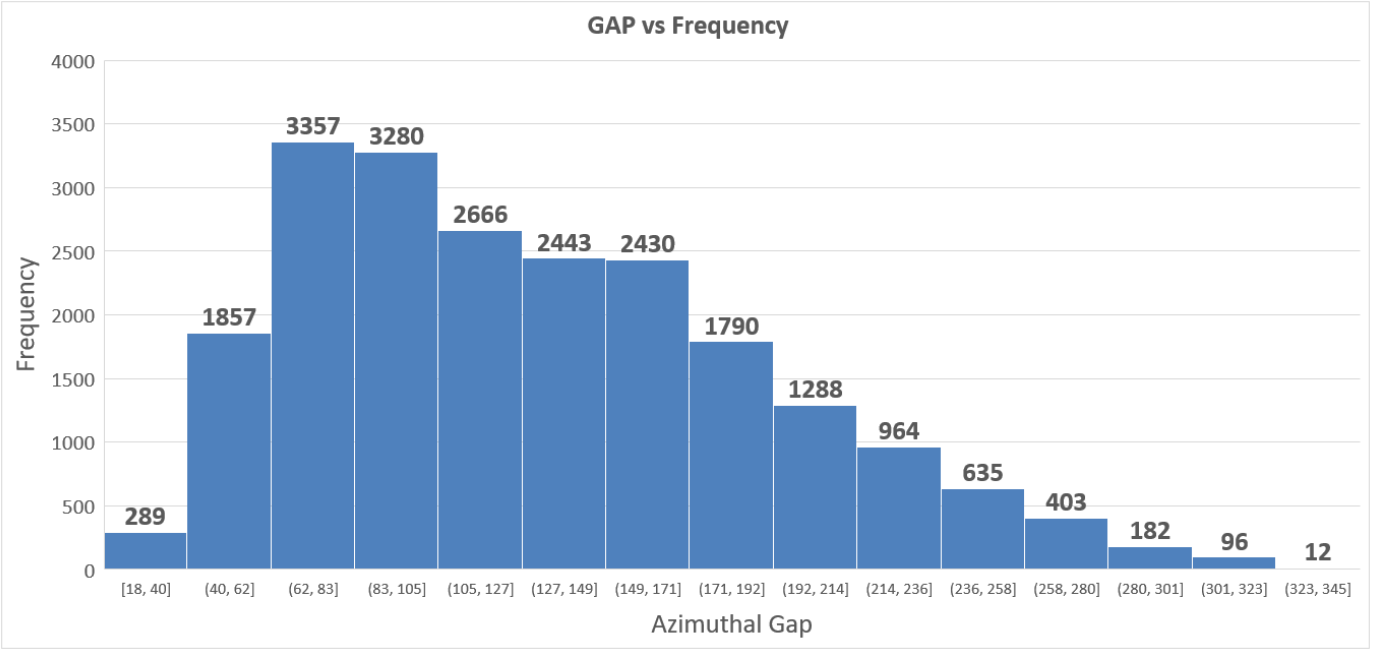
SAAT (GMT)	GECE												GÜNDÜZ												TOPLAM
	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0.3 ≤ Mw ≤ 6.4	835	907	958	1018	916	935	965	955	999	1005	895	782	716	702	714	783	912	865	729	706	649	805	733	804	20288
TOPLAM	11170												9118												

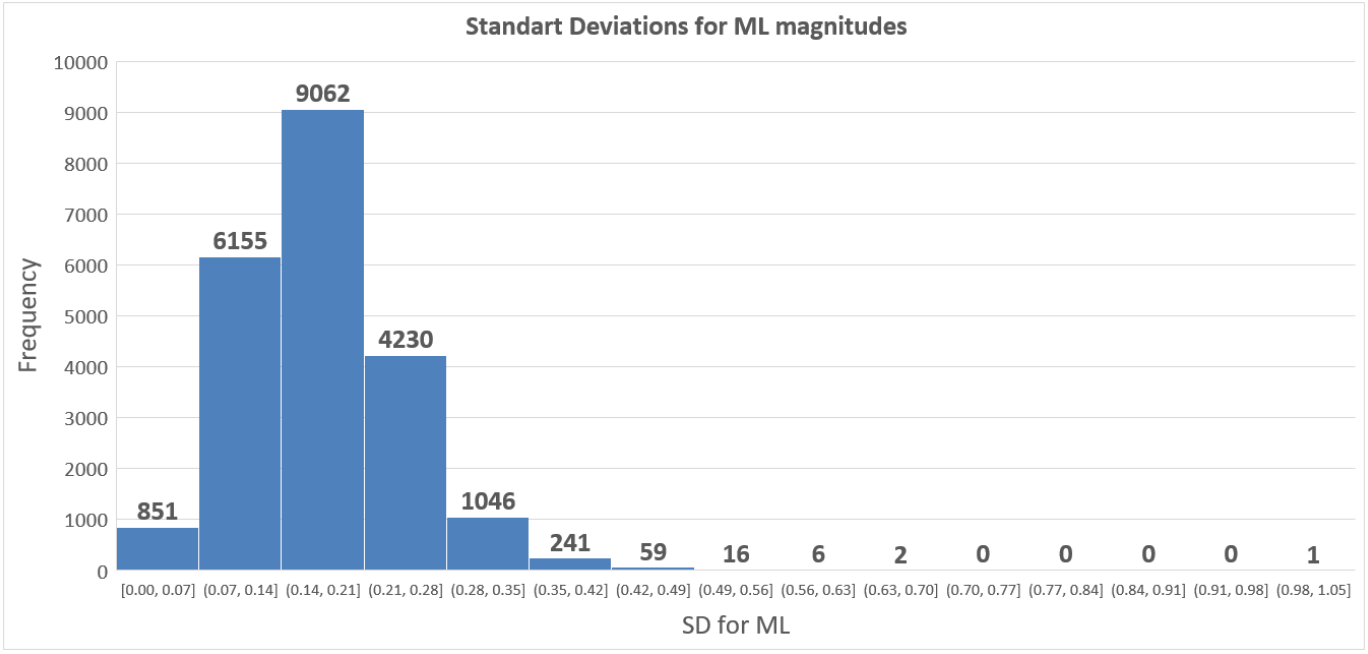
FARK :	2052	% 10

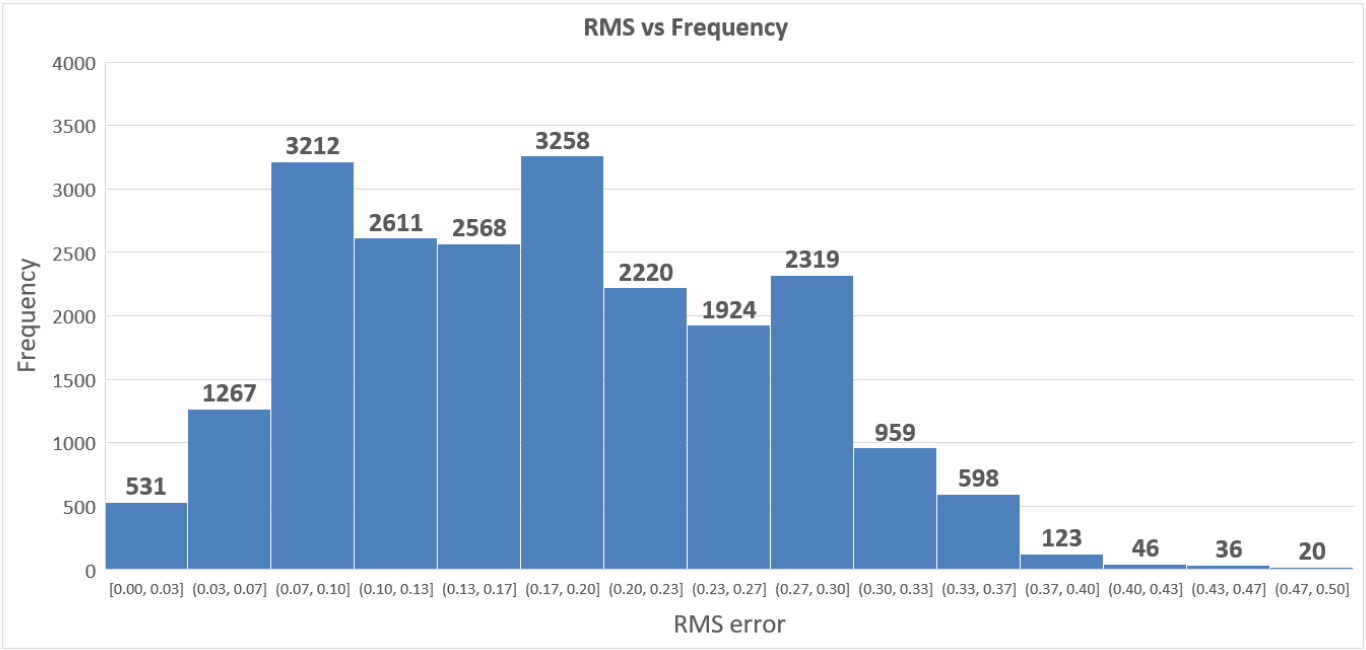


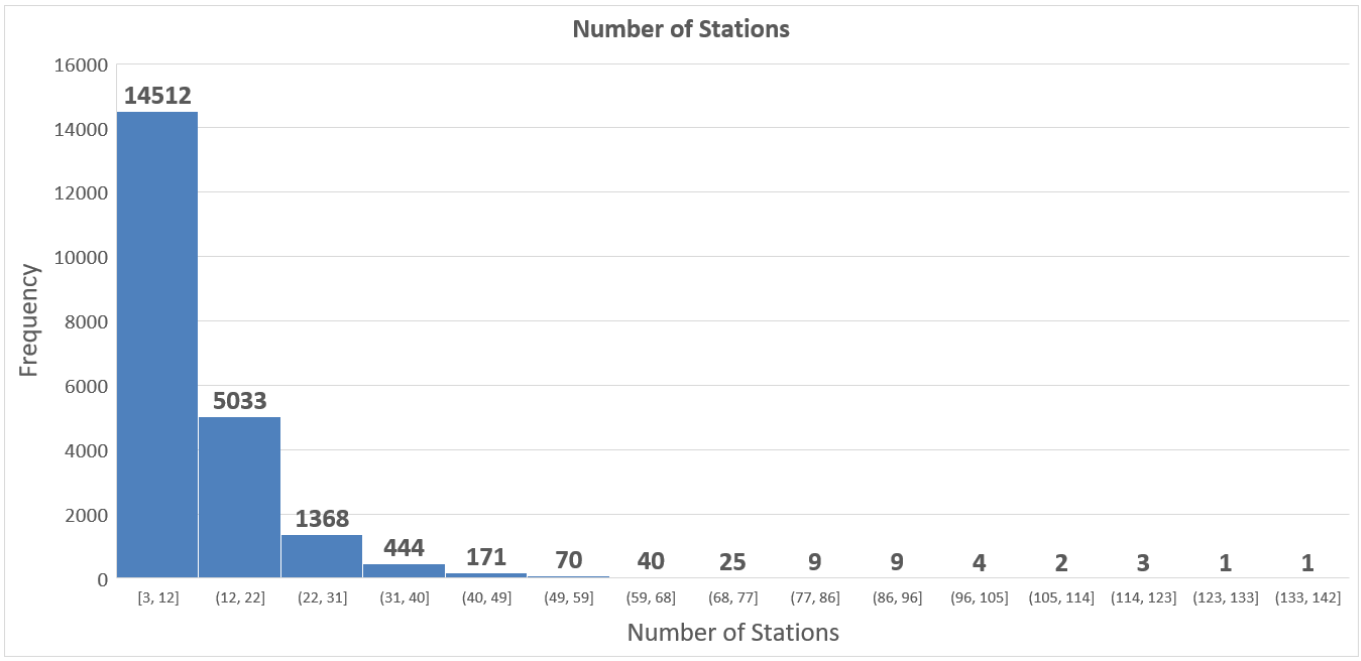

DEPTH vs Frequency
Frequency
16000
14000
12000
10000
8000
6000
4000
2000
0
14610
5638
1105
29
37
46
53
45
54
14
16
20
14
9
3
[0, 10]
(10, 21]
(21, 31]
(31, 42]
(42, 52]
(52, 63]
(63, 73]
(73, 83]
(83, 94]
(94, 104]
(104, 115]
(115, 125]
(125, 135]
(135, 146]
(146, 156]
Depth (km.)

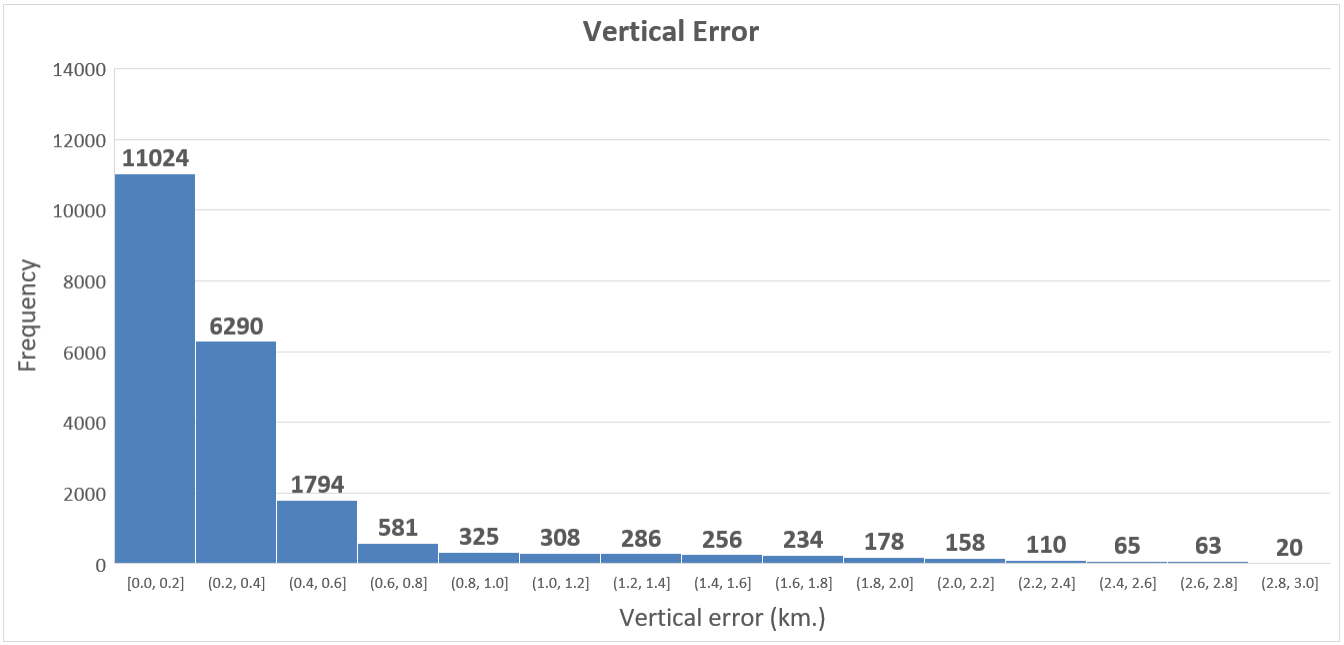

First Station Distance
Frequency
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
8704
7226
2991
1303
696
282
166
95
124
66
15
7
9
6
3
[0, 20]
(20, 40]
(40, 59]
(59, 79]
(79, 99]
(99, 118]
(118, 138]
(138, 158]
(158, 178]
(178, 197]
(197, 217]
(217, 237]
(237, 256]
(256, 276]
(276, 296]
Min. Distance (km.)

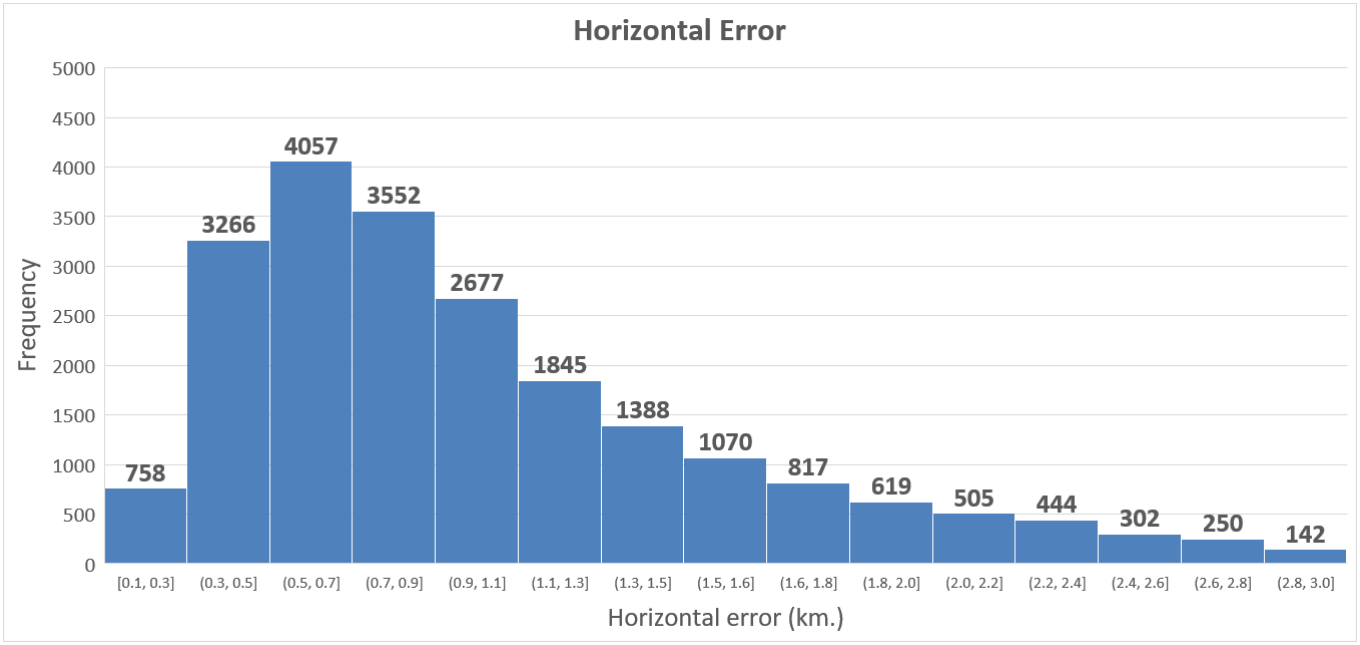

GAP vs Frequency
Frequency
4000
3500
3000
2500
2000
1500
1000
500
0
289
1857
3357
3280
2666
2443
2430
1790
1288
964
635
403
182
96
12
[18, 40]
(40, 62]
(62, 83]
(83, 105]
(105, 127]
(127, 149]
(149, 171]
(171, 192]
(192, 214]
(214, 236]
(236, 258]
(258, 280]
(280, 301]
(301, 323]
(323, 345]
Azimuthal Gap

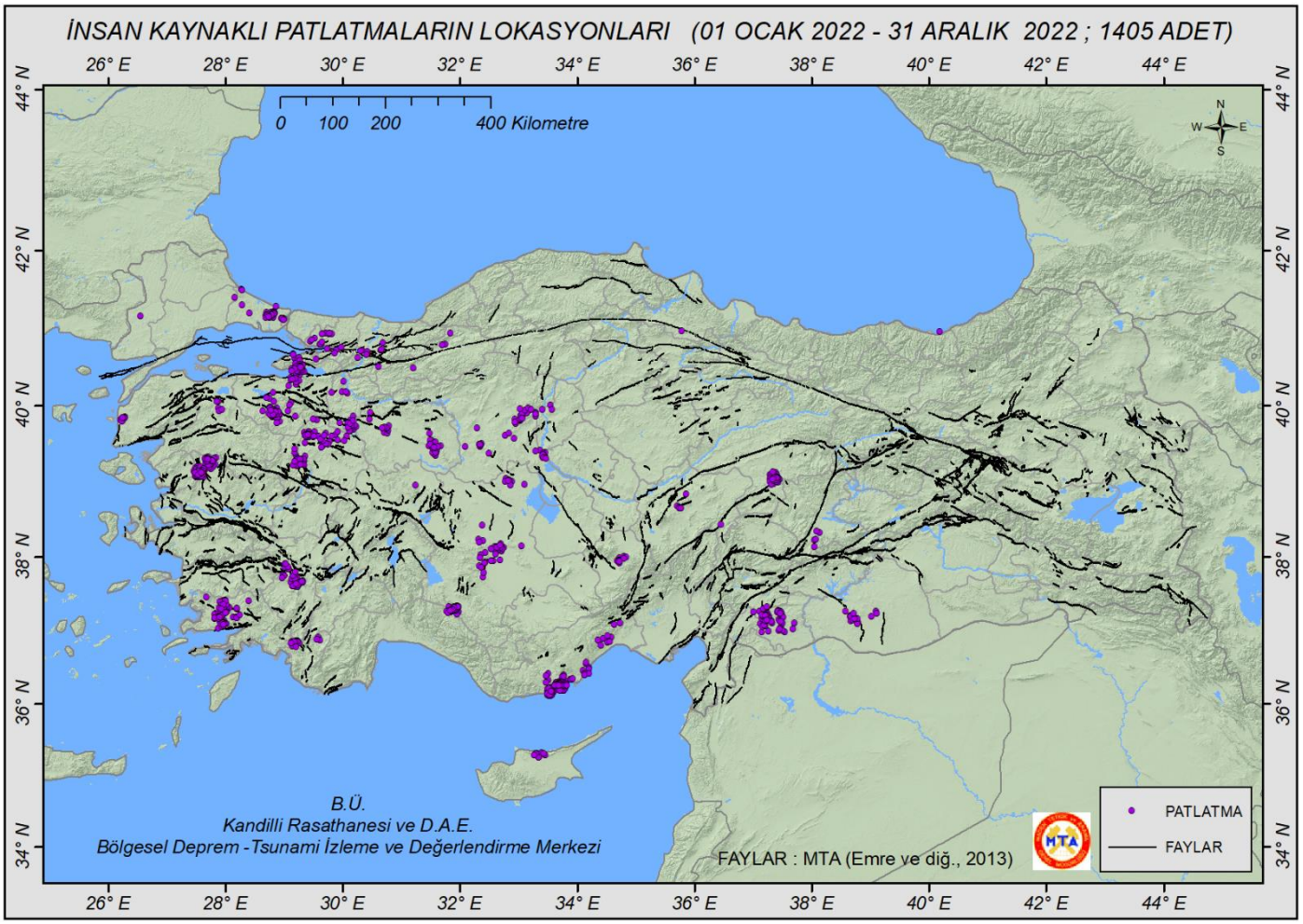

Standart Deviations for ML magnitudes
Frequency
SD for ML
[0.00, 0.07] (0.07, 0.14] (0.14, 0.21] (0.21, 0.28] (0.28, 0.35] (0.35, 0.42] (0.42, 0.49] (0.49, 0.56] (0.56, 0.63] (0.63, 0.70] (0.70, 0.77] (0.77, 0.84] (0.84, 0.91] (0.91, 0.98] (0.98, 1.05]
851 6155 9062 4230 1046 241 59 16 6 2 0 0 0 0 1


RMS vs Frequency
Frequency
RMS error
[0.00, 0.03] (0.03, 0.07] (0.07, 0.10] (0.10, 0.13] (0.13, 0.17] (0.17, 0.20] (0.20, 0.23] (0.23, 0.27] (0.27, 0.30] (0.30, 0.33] (0.33, 0.37] (0.37, 0.40] (0.40, 0.43] (0.43, 0.47] (0.47, 0.50]
531 1267 3212 2611 2568 3258 2220 1924 2319 959 598 123 46 36 20

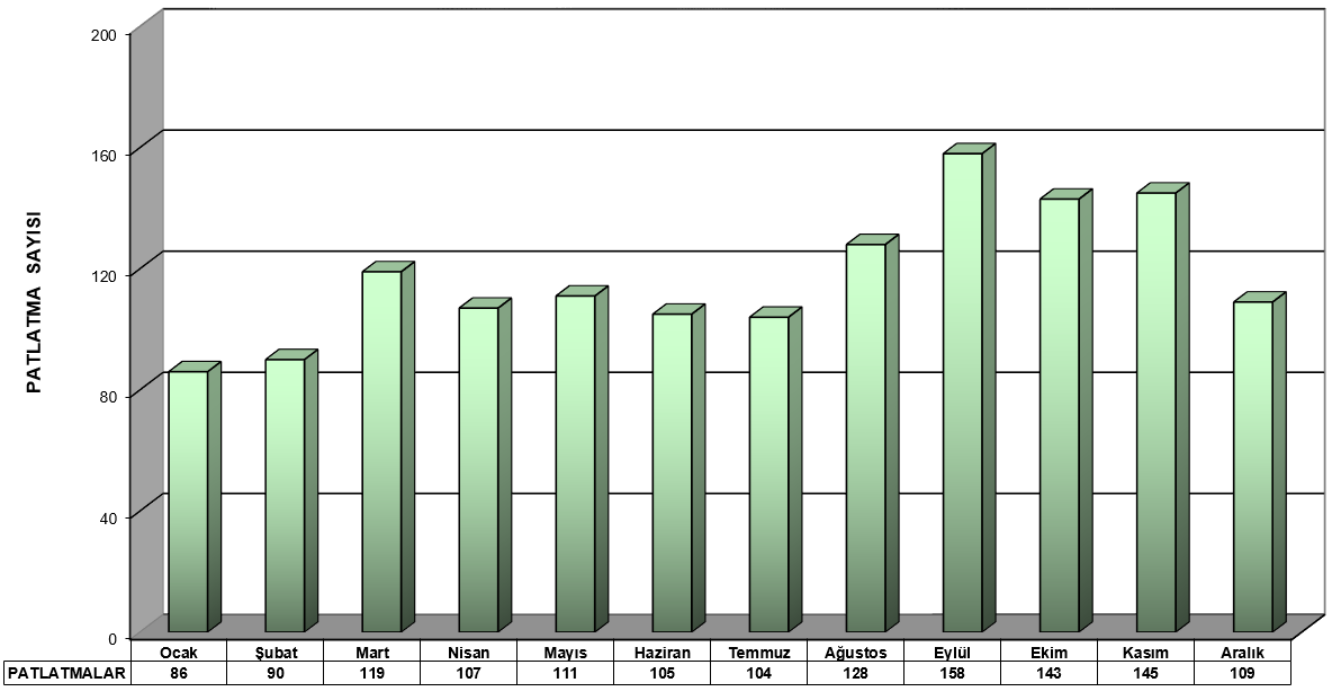

Number of Stations
Frequency
Number of Stations
[3, 12] (12, 22] (22, 31] (31, 40] (40, 49] (49, 59] (59, 68] (68, 77] (77, 86] (86, 96] (96, 105] (105, 114] (114, 123] (123, 133] (133, 142]
14512 5033 1368 444 171 70 40 25 9 9 4 2 3 1 1


Vertical Error
Frequency
14000
12000
10000
8000
6000
4000
2000
0
11024
6290
1794
581
325
308
286
256
234
178
158
110
65
63
20
[0.0, 0.2]
(0.2, 0.4]
(0.4, 0.6]
(0.6, 0.8]
(0.8, 1.0]
(1.0, 1.2]
(1.2, 1.4]
(1.4, 1.6]
(1.6, 1.8]
(1.8, 2.0]
(2.0, 2.2]
(2.2, 2.4]
(2.4, 2.6]
(2.6, 2.8]
(2.8, 3.0]
Vertical error (km.)


Horizontal Error
Frequency
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
758
3266
4057
3552
2677
1845
1388
1070
817
619
505
444
302
250
142
[0.1, 0.3]
(0.3, 0.5]
(0.5, 0.7]
(0.7, 0.9]
(0.9, 1.1]
(1.1, 1.3]
(1.3, 1.5]
(1.5, 1.6]
(1.6, 1.8]
(1.8, 2.0]
(2.0, 2.2]
(2.2, 2.4]
(2.4, 2.6]
(2.6, 2.8]
(2.8, 3.0]
Horizontal error (km.)

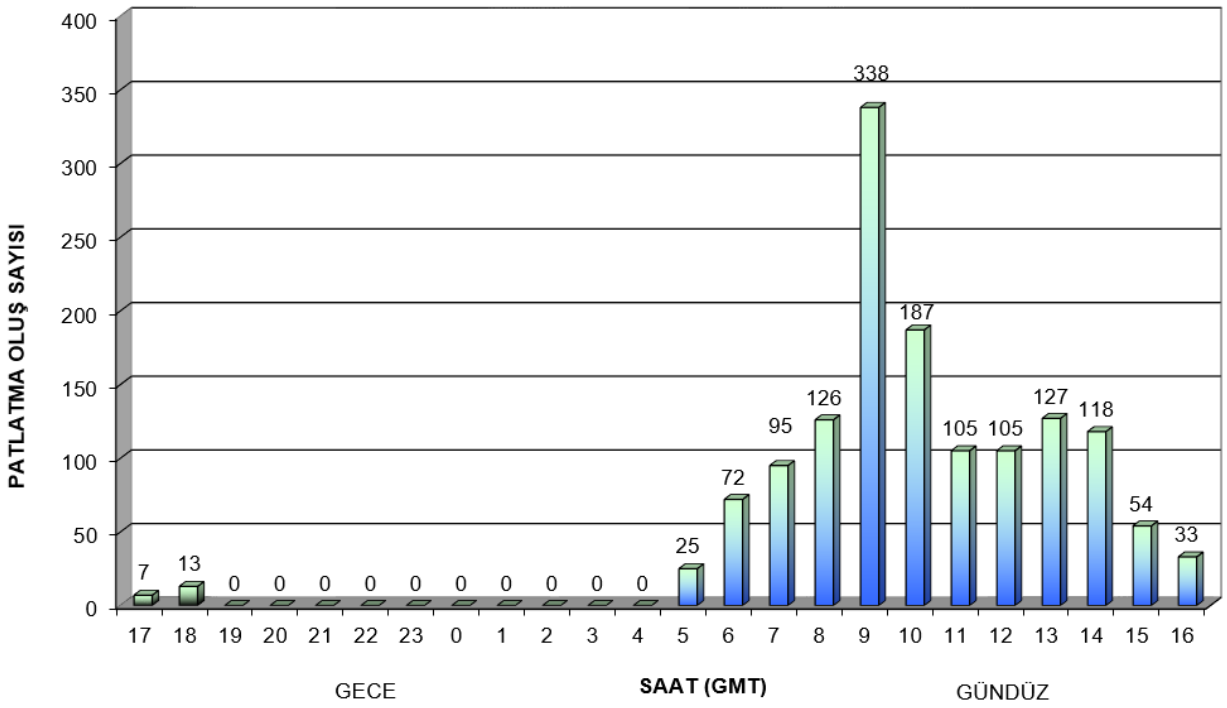


2022 YILINDA İNSAN KAYNAKLI PATLATMALARIN AYLARA GÖRE DAĞILIMI
01 Ocak 2022 - 31 Aralık 2022 TOPLAM : 1405 Adet



	Ocak	Şubat	Mart	Nisan	Mayıs	Haziran	Temmuz	Ağustos	Eylül	Ekim	Kasım	Aralık
PATLATMALAR	86	90	119	107	111	105	104	128	158	143	145	109

2022 YILINDA PATLATMALARIN SAATLERE GÖRE DAĞILIMI



2022 YILINDA PATLATMALARIN SAATLERE GÖRE DAĞILIMI

SAAT (GMT)	GECE												GÜNDÜZ												TOPLAM
	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
	7	13	0	0	0	0	0	0	0	0	0	0	25	72	95	126	338	187	105	105	127	118	54	33	1405
TOPLAM	20												1385												

FARK :	1365	% 97