

Index

Page numbers in italic indicate illustrations

Abant, AD 1967 July 22 earthquake 15, 31, 33

Absari, AD 1742 February 21 earthquake 558-559

Abydus, AD 484 earthquake 176–177

Achaea, AD 61 earthquake 117

Açigöl, AD 1893 March 14 earthquake 768 Acre

AD 502 earthquake and aurora borealis 179

AD 1033 December 5 sea wave 261, 262, 263

AD 1063 August earthquake 269-270

AD 1202 May 20 earthquake 327-337

AD 1261 sinking islets 345

AD 1303 August 8 earthquake 357, 361

AD 1631 December 6 volcanic ash 480

AD 1759 October 30 earthquake 583

AD 1762 earthquake 588

see also Ptolemais

AD 555 July, earthquake 208

AD >669 earthquake 222

AD 679 earthquake 223-224

AD 871 June 15 earthquake or meteorite fall 246

AD 1036 earthquake 265

AD 1455 November 25 volcanic eruption 394-395, 397

AD 1459 earthquake 397

AD 1580 spurious earthquake 464-465

AD 1779 April 16 earthquake 608

AD 1828 January 6 earthquake 639

Ad Maiores, AD 267 earthquake 139

Adad al Arab, AD 1157 August 12 earthquake 305, 307

Adalia, AD 1863 September 26 earthquake 708

AD 1837 January 1 earthquake 647

AD 1889 September 10 earthquake 758

AD 1893 June earthquake 769

Adapazari

AD 1883 July 6 earthquake 748

AD 1893 November 1 earthquake 770

AD 1894 July 10 earthquake 9, 774-779

901



Adilcevas, AD 1891 February 6 earthquake 762	Akhaltzike
adobe, vulnerability 37–39, 40, 41	AD 1088 April 16 earthquake 277
Adriatic Sea, AD 1303 August 8 earthquake 358	AD 1275 April 14 earthquake 349
Aegean Sea	AD 1283 April 17 earthquake 350–351
AD 1463 volcanic eruption 397	Akhisar
AD 1508 May 29 earthquake 417–422	AD 1595 September 22 earthquake 469
AD 1625 May 18 earthquake 477	AD 1858 June 16 earthquake 690
AD 1631 December 6 volcanic ash 480	AD 1873 November 10 earthquake 736
AD 1659 February 17 earthquake 493	Akhlat
AD 1669 October 26 earthquake 515	AD 1046 earthquake 267
AD 1688 September 10 earthquake 524	AD 1208 February 14 earthquake 337
AD 1719 July 23 earthquake 545	AD 1246 earthquake 342
AD 1733 December earthquakes 549–550	AD 1276 October 3 earthquake 349
AD 1809 February earthquake 625	AD 1415 March 13–1416 February 29 earthquake 386
AD 1864 June 14 earthquake 709	AD 1503 earthquake 416
AD 1876 September 12 earthquake 742	AD 1881 May 30 earthquake 747
AD 1890 May 20 earthquake 761	Akhuri, AD 1646 April 7 earthquake 486
AD 1891 April 7 earthquake 762–763	Aksa mosque
AD 1893 June 18 earthquake 769–770	AD 747–8 earthquake 232, 235, 236
deformation 816, 818	AD 1033 December 5 earthquake 261–264
strike-slip faulting 818	AD 1834 May 26 earthquake 642
Aegeum, AD c.23 earthquake 108	al Baas, AD 912 earthquake 250
Aegina	al Jazira see Mesopotamia
c.489 BC earthquake 81	Al Qosh, AD 1885 December 30 earthquake 751
AD 1830 earthquakes 641	al-Awasim see al-Wasim
Aegio, AD 1748 May 25 earthquake 571–572	al-Badan, AD 1033 December 5 earthquake 263
Aetoliki, AD 1882 January 5 mud volcano	al-Karak
747	AD 746–9 earthquake 233, 235
African Plata, 915, 916	AD 1212 May 1 earthquake 337–338
African Plate 815–816	AD 1458 November 16 earthquake 396–397
Ap 1862 November certhquekes, 706	see also Hisn al Akrad; Krak fortress al-Manzala lagoon 181
AD 1862 November earthquakes 706 AD 1885 December 2 earthquake 751	al-Marwa, AD 1068 March 18 earthquake 272, 273
AD 1886 December 2 earthquake 752	al-Massisah see Mopsuestia
Ag. Yorgis, AD 1899 May 27 earthquake 792	al-Rawandan, AD 1344 January 3 earthquake 370
Agathecum, AD 494 earthquake 177	al-Shaubak, AD 1212 May 1 earthquake 337–338
Agrapha, AD 1566 July 11 earthquake 458	al-Thughur, AD 1003 earthquake 258
Ağri, AD 1871 December 11 earthquake 732	al-Wasim
Ahi-Çelebi	AD 847 earthquake 241–242
AD 1884 December 12 earthquake 750	AD 973 earthquake 255
AD 1885 November 29 earthquake 751	AD 1003 earthquake 258
AD 1887 October 13 earthquake 755	Alacata, AD 1883 October 15 earthquake 748–749
Aigio	Albania
AD 1861 December 26 earthquake 699–705	AD 1153 earthquake 298
AD 1888 September 9 earthquake 755–756	AD 1359–1380 earthquakes 375
Aikhanum, 50 BC-AD 50 earthquake 97	AD 1395 May 19 earthquake 379
Aila, AD 1068 March 18 earthquake 272, 273, 274	AD 1851 January 20 spurious earthquake 668
Aintab	AD 1893 June 14 earthquake 769
AD 1344 January 3 earthquake 370	Alcyonic Sea, AD 1821 January 9 inundation 632
AD 1626 Janaury, 21 earthquake 478	Aleppo
AD 1760 October 13 earthquakes 587	AD >638 earthquake 220
AD 1807 earthquake 624	AD 713 February 28 earthquake 224–225
AD 1822 August 13 earthquake 633–635	AD 952 earthquake 252–253
AD 1887 October 8 earthquake 754–755	AD 1086–1087 earthquake 276–277
Ak-Kerman, AD 1752 October 30 earthquake 576	AD 1114 November 29 earthquake 284–291
Akçakoca, AD 1897 July 31 earthquake 788	AD 1138 October 11 earthquake 295–296
Akhalkalaki, AD 1899 December 31 earthquake 795	AD 1156 earthquakes 300, 301–302



Index 903

AD 1157 earthquakes 303, 305, 312
AD 1158 earthquakes 314
AD 1170 June 29 earthquake 318–325
AD 1181 February 25 earthquake 326
AD 1202 May 20 earthquake 327–337
AD 1344 January 3 earthquake 370
AD 1375 earthquake 377
AD 1403 December 18 earthquake 382
AD 1404 earthquakes 382–383
AD 1408 December 29 earthquake 384–385
AD 1484 April earthquakes 405
AD 1610 March 7 earthquake 474
AD 1616 July 22 earthquake 476
AD 1626 Janaury 21 earthquake 478
AD 1657 earthquakes 492
AD 1680 March 22 earthquake 520
AD 1701 earthquake 529
AD 1719 March earthquake 543
AD 1722–1723 earthquake 546
AD 1726 April 15 earthquake 547
AD 1738 September 25 earthquake 553
AD 1759 earthquakes 582, 585
AD 1765 earthquake 589
AD 1778 May 5 earthquake 606
AD 1779 June 8 earthquake 608
AD 1783 December 14 earthquake 613
AD 1795 December earthquake 621
AD 1802 earthquake 622
AD 1822 earthquakes 632–636
AD 1823 earthquakes 636
AD 1824 March earthquake 637
AD 1830 December 21 earthquake 641
AD 1831 February earthquake 641
AD 1841 May 1 earthquake 654
AD 1844 September 19 earthquake 658
AD 1845 January earthquake 659
AD 1846 earthquakes 660, 662
AD 1857 March 6 earthquake 686
AD 1864 August 15 earthquake 709
AD 1868 April 16 earthquake 720
AD 1870 January 2 earthquake 723
AD 1877 November 15 earthquake 743
AD 1884 June 5 earthquake 750
AD 1893 March 4 earthquake 767
AD 1894 February 13 earthquake 771
Alexandretta
AD 1114 August 10 earthquake 282
AD 1686 December earthquake 522
AD 1726 April 15 earthquake 547
see also Iskenderun
Alexandria
AD 320 spurious earthquake 140–141
AD 365 July 21 sea wave 151, 154, 155, 157

AD 796 April earthquake 238
AD 951 September 15 earthquake 252
AD 956 earthquake 253
AD 1202 May 20 earthquake 327–337
AD 1303 August 8 earthquake 356–357, 360, 361
AD 1326 earthquake 365
AD 1609 April earthquake 474
AD 1698 October 2 earthquake 528
AD 1759 November 25 earthquake 585
AD 1810 February 16 earthquake 625–627
AD 1847 August earthquakes 663–664
AD 1865 April 11 earthquake 710
AD 1868 February 20 earthquake 720
AD 1870 June 24 earthquake 724
AD 1895 December 7 earthquake 783
Alexandroupolis, AD 1894 July 31 earthquake 780
Almyros
AD 1743 February 21 earthquake 569–570
AD 1773 earthquakes 605
Alpine-Himalayan mountain belt, seismicity 815–816
Amanus, AD 1738 September 25 earthquake 553
Amanus Mountain, AD 1269 earthquake 348–349
Amasra, AD 1672 February 2 earthquake 515–516
Amasya
AD 235–236 earthquake 136–137
AD 529 eathquake 193–195
AD 1050 August 4 earthquake 268
AD 1318 earthquake 363
AD 1415 April 20 earthquake 386
AD 1418–1419 earthquake 387
AD 1419–1419 earthquake 387 AD 1579 earthquake 463–464
AD 1500 November earthquake 468
AD 1598 May earthquake 471
AD 1635 June 14 earthquake 481
AD 1647 earthquake 487
AD 1668 August 17 earthquake 512–515
AD 1684 September 14 earthquake 521
AD 1734–1735 earthquake 550
AD 1776 December 29 earthquake 606
AD 1794 July 18 earthquake 620
AD 1851 November 15 earthquake 671
AD 1870 September 1 earthquake 728
AD 1893 earthquakes 769, 770
Amaxiki
AD 1625 June 18 earthquake 477–478
AD 1704 November 22 earthquake 530–531
AD 1722 June 5 earthquakes 545–546
AD 1723 February 22 earthquake 546
AD 1741 June 23 earthquake 557–558
AD 1741 Julie 23 earthquake 357–358 AD 1743 February 20 earthquake 562–569
AD 1769 October 12 earthquake 602
AD 1783 March earthquakes 612
AD 1869 December 28 earthquake 723
Amfisa

AD 1870 earthquakes 726, 727, 729

AD 1872 earthquakes 732-734

Amik

AD 442 April 17 earthquake 165

AD 472 spurious earthquake 173

AD 554 October 14 earthquakes 207

AD 541 sea wave 196



> 904 Index

Amman, AD 1068 March 18 earthquake 272	AD 1873 February 9 earthquake 735
Ammochostos, Cyprus, AD 1456 earthquake 395	AD 1875 earthquakes 740, 741
Amorgos, AD 1733 December 23 earthquake 549–550	AD 1893 February earthquake 766
'Amos' earthquake 10, 11, 68, 70–71, 109	see also Antioch
Anaboli	Antalya
AD 1742 February 21 earthquake 558–559	AD 1743 March 8 earthquake 570
AD 1769 June 27 earthquake 601–602	AD 1756 February 13 earthquakes 581
Anadolu Hisari, AD 1509 September 10 earthquake 422–433	AD 1897 November 8 earthquake 788
Anatolia	Antalya-Cyprus seismic zone, subduction 820
AD 952 earthquake 252–253	Antarus, AD 551 July earthquake 199–203
AD 967 September 2 earthquake 254	Antimachia, Cos, AD 1493 October 18 earthquake 411–413
AD 1035 May earthquake 264–265	Antioch
AD 1471 earthquake 398	148 BC February 21 possible earthquake 94–95
AD 1590 November earthquake 468	AD 37 earthquake 111–112
AD 1776 December 29 earthquake 606	AD 41–54 earthquake 112
Anatolia, eastern	AD 115 December 13 earthquake 122–125
AD 572 June earthquake 213	AD 341 earthquake 142–143
AD 679 earthquake 223–224	AD 363 May 19 earthquake 148
AD 1086–1087 earthquake 276–277	AD c.388 earthquake 157–158
AD 1133 earthquakes 293	AD 395 earthquake 158
AD 1145 May 24 earthquake 297	AD 458 September 14 earthquake 168–171
AD 1290–1291 earthquake 352	AD 459 June 19 earthquake 171–172
AD 1362–1363 earthquake and solar eclipse 376	AD 513 September 7 earthquake 180
AD 1482 earthquake 405	AD 525 October 14 fire and earthquake 183
AD 1685 December 2 earthquake 521	AD 526 May 29 earthquake and fire 184–189
Anatolia, northern, AD 1668 August 17 earthquake 512–515	AD 528 November 29 earthquake 189–192
Anatolia, southeastern	AD 534 earthquake 196
AD c.431 earthquakes 163	AD 557–558 earthquakes 211–212
AD 1285 earthquake 351	AD c.570 earthquake 213
AD 1344 January 3 earthquake 370	AD 577 earthquakes 213–214
AD 1822 August 13 earthquake 632–635	AD 712 February 28 centh quake 215–216
Anavarin, AD 1743 February 20 earthquake 562–569	AD 718 September 14 certhquake 224–225
Anazarbus	AD 718 September 14 earthquake 226 AD 722 June 19 earthquake 226
AD 525 earthquake 183–184 AD 558 June earthquake 211–212	AD 835 spurious earthquake 240–241
And 338 Julie earthquake 211–212 Andalusia, AD 881 May 16 earthquakes 246–247	AD 850 earthquake 242
Andros, AD 1805 November 1 earthquake 624	AD 860 January 243–244
Ani	AD 973 earthquake 255
AD 1045 April 5 earthquake 266–267	AD 1063 August earthquake 269–270
AD 1043 April 3 Cartinquake 200–207 AD 1064 spurious earthquake 272	AD 1005 August Cartinquake 205–270 AD 1086–1087 earthquake 276–277
AD 1130 November 30 collapse of Church 293	AD 1091 Spetember, 26 earthquake 278–279
AD 1320 earthquake 364	AD 1097 earthquakes 279–280
AD 1605 earthquake 473	AD 1098 October 5 earthquake 280
Ankara	AD 1114 November earthquakes 282–291
AD 1668 earthquakes 511, 512–515	AD 1170 June 29 earthquake 318–325
AD 1856 August 27 earthquake 683	AD 1319 high wind 363–364
AD 1873 August 19 earthquake 736	AD 1407 April 29 earthquake 384
AD 1875 August 24 earthquake 740	AD 1537 earthquake 439
AD 1884 February 5 earthquake 749	AD 1759 November 25 earthquake 585
AD 1885 August 30 earthquake 751	AD 1760 October 13 earthquakes 587
Anklokasro, AD 1742 February 21 earthquake 558–559	see also Antakya
annals 2	Antiochia Isauria, AD 462 destruction 173
Antakya	Antirio, AD 1756 October 20 earthquake 581
AD 1822 August 13 earthquake 632–635	Antivari
AD 1823 earthquakes 636, 637	AD 1411 < July 3 earthquake 385–386
AD 1824 January 12 earthquake 637	AD 1444 August earthquake 392–393

68–171 2 30 ake 183 184-189 89–192 -216 4-225 226 41 70 278-279 32-291 25 585 87 173 ke 581 86 AD 1444 August earthquake 392–393 AD 1667 April 6 major earthquake 502–511 see also Bar

AD 1854 spurious earthquake 677

AD 1872 April 3 earthquake 732-734



Aoria, AD 121 earthquake 125–126	Armenia
Apamea	AD c.639- earthquake 220–221
336–323 BC earthquake 89	AD 735 earthquake 227
90 BC earthquake 96	AD 906–910 earthquake 250
AD 54 earthquake 116	AD 1064 spurious earthquake 272
AD 115 December 13 earthquake 122–123	AD 1135 September 23 earthquake 294
AD 1156 October 13 earthquake 300	AD 1220 January 11 earthquake 338
AD 1157 earthquakes 303–311	AD 1246 earthquake 342
Aphrodisias, AD 240–241 earthquake 137	AD 1406 November 29 earthquake 383–384
Aphrodisium, AD 544 sea wave 198	AD 1834 earthquake 643
Aplstun, AD 1544 Jan earthquake 441	Arqa
Araban, AD 1848 January earthquake 664	AD 1157 August 12 earthquake 305, 307
Arabic sources 3	AD 1170 June 29 earthquake 316–325
Arabissus, Cappadocia	AD 1202 May 20 earthquake 327
AD 584–585 earthquake 215	Arsamosata, AD 499 September earthquake 177–178
AD 587 earthquake 215	Artemisio, AD 1847 March earthquake 662
Araç, AD 1899 May 28 earthquake 792	Artvin
Arapkir, AD 1896 April 21 earthquake 784	AD 1850 May 2 earthquake 667
Ararat	AD 1892 June 18 earthquake 764
AD 1646 April 7 earthquake 486	Asarcik, AD 1668 August 17 earthquake 512–515
AD 1679 June 14 earthquake 519	Asheqelon, AD 1033 Friday mosque damage 261, 262,
AD 1783 spurious volcanic eruption 610	264
AD 1840 July 2 earthquake 651–653	Asia Minor
Araxes River, AD 1840 July 2 earthquake 652–653	AD 472 earthquake and Vesuvius eruption 173
Arcadia, <ad 1="" 104–105<="" dammed="" river="" td=""><td>AD 1040 February 2 earthquake 265–266</td></ad>	AD 1040 February 2 earthquake 265–266
archaeological data 1	AD 1048 earthquake 267–268
archaeoseismology 9–12	AD 1296 July 17 earthquake 354
Archangeliotis monastery, AD 1829 earthquakes	AD 1846 March 28 earthquake 660–661
640	AD 1867 March 7 earthquake 717–718
Areopolis	AD 1881 April 3 earthquakes 745–747
AD 363 May 19 earthquake 148–149, 153, 155	Astros, AD 1769 June 27 earthquake 601–602
AD <597 earthquake 216–217	Aswan, AD 1899 July 14 spurious earthquake 792
Argentiera, AD 1779 December 6 earthquake 608–609	Asyut
Argos	AD 1847 August 7 earthquake 663–664
c.388 BC earthquake 86	AD 1850 October 27 earthquake 668
AD 1421 January 21 symbolic earthquake 389	Atalanti
AD 1810 February 17 aftershock 627	426 BC earthquake 83, 84
Argostoli	AD 1894 April 27 earthquake 14, 771–773, 771, 772
AD 1636 September 30 earthquake 481–483	Atalia, AD 1481 May 3 earthquake 400–401
AD 1638 July 16 earthquake 484	Athania, AD 1783 March earthquakes 611–612
AD 1714 August 28 earthquake 540	Athareb
AD 1723 February 20 earthquake 546	AD 1114 November 29 earthquake 284–291
AD 1741 June 23 earthquake 557–558	AD 1138 October 11 earthquake 294–296
AD 1759 June 14 earthquake 582	Athens
AD 1766 July 22 destructive earthquake and whirlwind	424 BC March earthquake 84
593–595	420 BC earthquake 85
AD 1767 July 22 earthquake 598–600	<270 BC earthquake and landslides 90
AD 1834 June 5 earthquake 643	27 BC destruction 103?
Argyrokastro	AD 1705 September 3 earthquake 531–533
AD 1858 earthquakes 690, 691	AD 1805 September 17 earthquake 624
AD 1859 August 13 earthquake 695	AD 1807 earthquake 624
AD 1866 December 4 earthquake 716	AD 1810 February 13 earthquake 625
AD 1894 April 18 earthquake 771	AD 1818 January earthquake and sea wave 630
AD 1897 February 6 earthquake 787	AD 1833 November earthquake 642
Arima, AD 1202 May 20 earthquake 327, 331	AD 1835 December 17 earthquake 644
Armenhaz	AD 1836 May 14 earthquake 645
AD 1822 August 13 earthquake 633–635	AD 1837 earthquakes 649–650
AD 1823 September 4 earthquake 637	AD 1838 May earthquake 650



906 Index

Athens (cont.)	Babadaği, AD 1851 February 28 earthquake 668–669
AD 1840 April 5 earthquake 651	Baghdad
AD 1841 earthquakes 653, 654	AD 859 earthquake 242
AD 1844 May 15 earthquake 658	AD 881 earthquake 247
AD 1852 October 26 wind damage 673	AD 902 June earthquake 250
AD 1853 earthquakes 674–675	AD 977 earthquake 255–256
AD 1874 January 17 earthquake 737	AD 1072 January 20 earthquake 276
AD 1889 January earthquake 757	AD 1094 February earthquake 279
Atskhuri, AD 1283 April 17 earthquake 350–351	AD 1130 February 29 earthquake 293
Attica, AD 1854 April 26 earthquake 676	AD 1135 March 20-April 18 earthquake 293
Aunobaris, AD 100-199 earthquake 120-121	AD 1144 May 29 earthquake 297
Avajik, AD 1840 July 2 earthquake 651–653	AD 1156 February earthquake 298
Avlona	AD 1178 March 29 wind and dust storm 325–326
AD 1601 April 17 earthquake 471–472	AD 1252 earthquake 342–343
AD 1867 January 20 earthquake 716	AD 1456 November 29 earthquake 395
Avlopotamos monastery, Crete, AD 1717 earthquake 542	AD 1769 May 1 earthquake and storm 601
Awasim see al-Wasim	AD 1873 June 20 earthquake 735
Ayasoluğ	AD 1874 June 12 earthquake 738
AD 1890 May 14 earthquake 761	Bait Jann, AD 1202 May 20 earthquake 327–337
AD 1891 February 15 earthquake 762	Balacik, AD 1899 December 29 earthquake 795
Aydin	Balagrae, AD 365 July 21 earthquake 152, 153
AD 1653 February 22 earthquake 491–492	Balash, AD 1033 December 5 earthquake 263, 264
AD 1834 July 25 earthquake 643	Balat
AD 1847 June 10 earthquake 662	AD 1869 December 13 earthquake 722–723
AD 1848 October 27 earthquake 665	AD 1870 November 7 earthquake 729
AD 1850 July 9 earthquake 667	Balatunus, AD 1408 December 29 earthquake 384–385
AD 1859 earthquakes 692, 693	Bald Mountain
AD 1861 earthquakes 699	AD 860 January 243–244
AD 1894 July 13 earthquake 779	AD 1319 high wind 363–364
AD 1895 August 19 earthquake 782	Balikesir
AD 1899 September 20 earthquake 792–795	AD 1577 earthquake 463
Aydincik, AD 1556 May 10 earthquake 454–455	AD 1870 August 9 earthquake 728
Aytos, AD 1766 May 22 earthquake 590–593	AD 1896 September 14 earthquake 786
Ayvacik, AD 1899 December 26 earthquake 795	AD 1898 February 5 earthquake 789
Ayvadbend gravity dam, AD 1766 May 22 earthquake 591	AD 1899 January 20 earthquake 790
Ayvali	Balis
AD 1837 September earthquakes 650	AD 860 January 243–244
AD 1867 March 7 earthquake 718	AD 1114 November 29 earthquake 284–291
AD 1874 November 18 earthquake 739	AD 1162 August earthquake 316
Azal 69	Balkans, AD 1443–1444 earthquake and diverted rivers 392
AZaz	Balu, AD 995 August 19 earthquake 258
AD 973 earthquake 255	Banaz, AD 1887 September 30 earthquake 754
AD 1157 August 12 earthquake 305, 307	Bandirma
Azerbaidjan, AD 1503 earthquake 416	AD 1858 March 7 earthquake 689 AD 1859 January 9 earthquake 692
Aziziye, AD 1894 July 3 earthquake 773	* *
Azrab, AD 1138 October 11 subsidence 295–296	AD 1889 February 27 earthquake 757
D II I-	Baniyas
Baalbek	AD 1068 conth guellog 275 276
AD 1042 conth gualta 266	AD 1068 earthquakes 275, 276 AD 1170 June 29 earthquake 318–325
AD 1170 June 20 certhquake 216 225	*
AD 1170 June 29 earthquake 316–325	AD 1202 May 20 earthquake 327–337 AD 1837 January 1 earthquake 645, 648
AD 1202 May 20 earthquake 327–337	· · ·
AD 1354 October 28 earthquake 375	Bar AD 1411 - July 3 earthquake 385
AD 1715 earthquake 541	AD 1411 < July 3 earthquake 385
AD 1750 November 25 corthquake 583 586	AD 1766 < May 9 earthquake 589
AD 1759 November 25 earthquake 583–586	Bar Suma, Anatolia, AD 1285 earthquake 351

Barada River, Damascus, AD 1284 flooding 351

Bab el-Dhra, 2100-1700 BC destruction 63-64



Barin	Beylik Ahur, AD 1897 February 7 earthquake 787
AD 1170 June 29 earthquake 316–325	Beypazari, AD 1668 August earthquakes 511,
AD 1306–1307 landslide 362	512–515
Bartim	Bible
AD 1894 July 16 earthquake 779	accounts of earthquakes 11–12
AD 1897 November 15 earthquake 788	Jericho 1400 BC earthquake 65–66
Basra	Judaea c.759 BC earthquake 69, 71
AD 902 June earthquake 250	Sodom 2100–1700 BC earthquake 62–65
AD 1456 November 29 earthquake 395	Bidokht, AD 1986 31 August earthquake 41
Batak	Biğa
AD 1892 March 24 earthquake 764	AD 1672 February 14 earthquake 516
AD 1896 November 19 earthquake 786	AD 1737 March earthquakes 552–553
Batna Sarug, AD 679 April 3 earthquake 223	AD 1766 August 5 earthquake 595–596
Batnun, AD 1588 April 7 fissures 468	Bigadiç
Bayramiç, AD 1826 February 8 earthquake 639	AD 1891 earthquakes 763
Behasna castle, AD 1344 January 3 earthquake 370	AD 1894 May 25 earthquake 773
Beilan, AD 1822 August 13 earthquake 634	AD 1899 September 22 earthquake 795
Beirut	Bileçik
AD 347 September earthquake 144	AD 1894 July 20 earthquake 779
AD 502 earthquake 179	AD 1895 September 19 earthquake 782
AD 551 July earthquake and sea wave 199–203	AD 1896 January 1 earthquake 783
AD 1759 October 30 earthquake 583	AD 1897 December 26 earthquake 789
AD 1837 January 1 earthquake 645	AD 1899 June 9 earthquake 792
AD 1845 February 15 earthquake 659	Bingöl, AD 1678 April earthquake 518
AD 1849 December 5 earthquake 666	Birteh, AD 1759 November 25 earthquake 583–586
AD 1850 February 12 earthquake 666	Birvari, AD 1884 February 10 earthquake 749
AD 1855 July 10 earthquake 681	Biserta, Tunisia, AD 412 earthquake 161
AD 1856 September 28 earthquake 683	Bithynia
AD 1859 January 28 earthquake 692	AD 32–33 earthquake 11
AD 1898 April 13 earthquake 789	AD 121 earthquake 125–126
Beit Jann, AD 1759 November 25 earthquake 584–586	AD 121 cartiquake 123–120 AD 181 May 3 earthquake 135
Beit Qoubaya, AD 747? earthquake 234	AD 268–270 earthquake 139
Bekaa Valley	AD 358 August 24 earthquake 144–147
AD 1604 earthquake 472	AD 368 October 11, earthquake 156
AD 1759 November 25 earthquake 584–586	AD 447 January 26 earthquake 165–168
AD 1802 earthquake 622	AD 478 September 24 earthquake 174–176
AD 1837 January 1 earthquake 645	AD 740 October 26 earthquake 227–229
AD 1845 February 15 earthquake 659	AD 989 October 26 earthquake 256–257
Belgorod, AD 1752 October 30 earthquake 576	AD 1065 September earthquake 272
Belice, AD 1968 January earthquake 24	AD 1860 June 7 earthquake 697
Berat	Bitlis
AD 1701 March earthquakes 528–529	AD 1682 May 19 earthquake 521
AD 1713 February earthquake 538–539	AD 1696 June 10 earthquake 528
AD 1851 earthquakes 670, 671	AD 1705 January 27 earthquake 531
AD 1894 September 17 earthquake 780	Bitola
AD 1895 November 7 earthquake 783	AD 1631 December 6 volcanic ash 480
Berdak, AD 1701 March 26 earthquake 529	AD 1858 earthquakes 689
Bergama 525	AD 1871 earthquakes 731
AD 1296 July 17 earthquake 354	Bizaah, AD 1138 October 11 earthquake 295–296
AD 1859 October 11 earthquake 696	Blachernae, AD 1509 September 10 earthquake 427–433
AD 1860 June 16 earthquake 697	Black Sea
AD 1895 November 13 earthquake 783	AD 544 sea wave 197–198
AD 1897 July 15 earthquake 788	AD 1598 May sea wave 471
Bet Shean, AD 747–9? earthquake 232, 233, 235	AD 1672 February 2 earthquake 515–516
Bethlehem	AD 1875 November 23 earthquake 741
AD 1532 earthquake 439	Blue Valley, AD 1419 March 15–17 new springs 387–388
AD 1834 May 26 earthquake 642	Bochali, AD 1791 November earthquakes 616–619
× *	



Dodrum	AD 1821 December 29 earthquake 632
Bodrum AD 1493 October 18 earthquake 411–413	AD 1829 May 5 earthquake 641
AD 1890 February 26 earthquake 761	AD 1839 January 17 earthquake 651
Boetia, AD 551 earthquake and sea wave 203–205	AD 1848 January earthquake 664
Boka Kotorska	AD 1855 October 23 unsubstantiated earthquake 682
AD 1608 earthquakes 473	Bura, 373 BC earthquake 86–88
AD 1609 January 15 aftershocks 474	Burdur
Bolu	AD 1844 September 27 earthquake 658
AD 1668 August 17 earthquake 512–515	AD 1874 January 4 earthquake 736
AD 1863 October 24 earthquake 708	AD 1876 June earthquake 742
see also Claudiopolis Galatica	Burdur-Fetiye fault zone 161
Bosphorus	Bursa
AD 1766 May 22 earthquake and sea wave 590–593	AD 1509 September 10 earthquake 422–433
AD 1844 September 12 earthquake 658	AD 1556 May 10 earthquake 454–455
AD 1859 August 21 earthquake 695	AD 1674 earthquake 518
AD 1866 February 24 earthquake 712	AD 1705 August 8 earthquake 531
Bostra, AD 1151 September 27 earthquake 297–298	AD 1754 September 2 earthquake 578
Botrys, AD 551 July earthquake 199–203	AD 1766 earthquakes 590–593, 595–596
Botsaras, AD 1813 December 10 earthquake 628	AD 1794 August 5 earthquake 620–621
Boyabat, AD 1878 February 28 earthquake 743	AD 1804 February 19 earthquake 623
Bozcaada, AD 1737 March 6 earthquake 552–553	AD 1835 November 3 earthquake 644
Bozdoğan	AD 1850 April 19 earthquake 667
AD 1899 earthquakes 791, 795	AD 1852 April 16 earthquake 672
Bozuyük, AD 1895 March 15 earthquake 781	AD 1853 August 18 earthquake 674
Breznik	AD 1855 earthquakes 677–679, 680, 681, 682
AD 1820 January 22 earthquake 631	AD 1856 earthquakes 683, 686
AD 1851 February 5 earthquake 668	AD 1857 earthquakes 687, 688
Brezovo, AD 1892 October 10 earthquake 765	AD 1858 earthquakes 689, 690
brick construction 30, 45	AD 1859 earthquakes 693, 695
adobe 37–39	AD 1860 earthquakes 697, 698
kiln 38, 41, 45	AD 1866 February 24 earthquake 712
Bronze Age, catastrophism 9–10	AD 1872 January 12 earthquake 732
Brsecine, AD 1667 April 6 major earthquake 501–511	AD 1883 December 2 earthquake 749
Bucharest, AD 1829 May 5 earthquake 641	AD 1884 January 2 earthquake 749
Buda, AD 1661 March 20 earthquake 494–496	AD 1889 December 8 earthquake 760
Budva	AD 1893 June 25 earthquake 770
AD 1520 May 17 earthquake 437	AD 1896 July 6 earthquake 786
AD 1631 earthquakes 480	AD 1899 earthquakes 791, 795
AD 1667 April 6 major earthquake 502–511	see also Prusa
AD 1979 15 April earthquake, reinforced concrete building	Butrinti, Albania, AD 1153 earthquake 298
49	Buyin Zara, AD 1962 September 1 earthquake 40
building regulation 46	Büyük Çekmece, AD 1766 May 22 earthquake 591
buildings	Büyük Menderes Valley
earthquake-resistant 46, 48, 638	AD 1645 earthquake 485
effect of earthquakes 33–52	AD 1651 June 7 earthquake 491
vulnerability 37–49, 55	AD 1653 February 22 earthquake 491–492
Palestine AD 1837 January 1 earthquake 648	AD 1717 November 19 earthquake 542
Bulanik	AD 1847 June 10 earthquake 662
AD 1857 April 9 earthquake 686–687	see also Meander River; Menderes Valley
AD 1893 March earthquakes 768	Byblus AD 551 July couthquake 100, 203
Buldan, AD 1702 February 25 earthquake 529	AD 1157 A yearst 12 corthografic 205
Bulgaria AD 1050 September envirous carthoughs 260	AD 1157 August 12 earthquake 305
AD 1059 September spurious earthquake 269 AD 1558 earthquake 456	Byzantium see Constantinople
AD 1661 March 20 earthquake 494–496	Cachete, AD 1668 August 17 earthquake 512–515
AD 1718 June 16 earthquakes 542–543	Caesarea
AD 1718 June 10 earthquakes 342–343 AD 1781 March 4 earthquake 610	AD 130 earthquake 126–127
AD 1793 December 10 earthquake 620	AD 303 April 2 earthquake and sea wave 140
# *** ** * * * * * * * * * * * * * * *	± 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



Index 909

AD 1157 August 12 earthquake 309	AD 1858 December earthquake 692
AD 1834 May 26 earthquake 643	AD 1868 February 20 earthquake 720
Caesarea Maritima, AD 551 earthquake 202	AD 1870 June 24 earthquake 724
Cairo	AD 1873 January 12 earthquake 735
AD 950 July 25 earthquakes 252	AD 1879 July 11 earthquake 744
AD 956 earthquake 253	AD 1886 November 17 earthquake 752
AD 1111 August 31 earthquake 281	Cakansüyu valley, AD 1861 March 7 earthquake
AD 1202 May 20 earthquake 327–337	Calabria
AD 1212 May 1 earthquake 337	AD 1638 March 27 earthquake 484
AD 1259 June 6 earthquakes 345	AD 1783 February 5 earthquake 610
AD 1293 January earthquake 353	Çaldiran
AD 1294 earthquake 353	AD 1664 May 29 earthquake 498
AD 1303 August 8 earthquake 357, 359–360	AD 1696 April 14 earthquake 527–528
AD 1335 May 29 earthquake 366	AD 1866 May 8 earthquake 712
AD 1347 December 8 earthquake 372	Calimnos, c.198 BC earthquake 93
AD 1353 October 16 earthquake 372	Callipolis
AD 1373 October 19 earthquake 376	AD 484 earthquake 176–177
AD 1385 September 19 earthquake 378	see also Gelibolu
AD 1386 July 17 earthquake 378	Campania, AD 62 February 5 earthquake 117
AD 1422 July 28 earthquake 389	Çanakkale
AD 1425 June 23 earthquake 389	AD 1659 February 17 earthquake 493
AD 1433 December 14 earthquake 390	AD 1835 November 24 earthquake 644
AD 1434 November earthquakes 54, 390	AD 1852 April 4 earthquake 672
AD 1438 February 25 earthquake 391	AD 1864 June 11 earthquake 709
AD 1455 March 5 earthquake 394	AD 1868 April 23 earthquake 720
AD 1467 December 15 earthquake 397	AD 1870 August 10 earthquake 728
AD 1476 October earthquake 398	AD 1876 October 26 earthquake 742
AD 1481 March 18 earthquake 399–400	see also Sultanhisar
AD 1483 June 15 earthquake 405	Candia
AD 1498 September earthquake 415	AD >1228 earthquake 341
AD 1502 November 17 earthquake 416	AD 1303 August 8 earthquake 355–362
AD 1508 May 29 earthquake 417–422	AD 1306 earthquake 362
AD 1513 March 28 earthquake 434	AD 1490 November 1 earthquake 407
AD 1523 April 4 earthquake 437–438	AD 1491 September 4 earthquake 411
AD 1525 March 9 earthquake 438	AD 1494 July 1 earthquake 413–414
AD 1527 July 14 earthquake 438	AD 1496 September 7 earthquake 414
AD 1529 November 12 earthquake 438	AD 1501 earthquake 415
AD 1532 July 10 earthquake 439	AD 1508 May earthquakes 417–422
AD 1534 March 23 earthquake 439	AD 1517 April 13 earthquake 436
AD 1573 February 4 earthquake 461	AD 1522 April 10 earthquake 437
AD 1576 April 1 earthquake 462	AD 1531 September earthquake 438–439
AD 1588 earthquakes 467, 468	AD 1549 September earthquakes 452
AD 1592 May earthquake 469	AD 1564 August earthquakes 457–458
AD 1609 April earthquake 474	AD 1595 November 26 earthquake 469–470
AD 1613 March earthquake 475	AD 1612 spurious earthquake 475
AD 1632 earthquake 480–481	see also Iraklion
AD 1710 August 27 earthquake 537–538	Çankiri
AD 1740 August 27 cartinquake 557–556 AD 1741 January 31 earthquake 556–557	AD 1050 August 4 earthquake 268
AD 1754 October earthquake 580	AD 1840 February 1 earthquake 651
AD 1790 May 26 earthquake 616	AD 1844 March 9 earthquakes 658
AD 1801 October 10 earthquake 622	AD 1878 February 25 earthquake 743
AD 1810 February earthquakes 625–627	AD 1881 earthquakes 747
	-
AD 1814 June 27 earthquake 628	AD 1888 April 22 earthquake 755
AD 1825 June 21 earthquake 638	Capakchur, AD 995 August 19 earthquake 258 Caria
AD 1846 June 15 earthquakes 661	AD 142 earthquake and sea wave 128–131
AD 1847 August earthquakes 663–664	
AD 1849 July 23 earthquake 665	AD 240–241 earthquake 137
AD 1856 October earthquakes 684–685	Çarşamba, AD 1898 October 7 earthquake 790

698



910 Index

Carura, <ad 1="" 105<="" earthquake="" td=""><td>Chiena, AD 1509 September 10 earthquake 425–433</td></ad>	Chiena, AD 1509 September 10 earthquake 425–433
Casimiria, AD 1443–1444 earthquake 392	Chios
Caspian Gates 180, 229	494 BC collapse of building 80
AD 743 earthquake 229–230	AD 1380 March 20 carth and a said as a said 278, 279
Çatak, AD 1766 October 9 earthquake 597	AD 1389 March 20 earthquake and sea wave 378–379
Çatalca	AD 1508 May 29 earthquake 417–422
AD 1766 May 22 earthquake 591	AD 1565 carth and a 458
AD 1894 July 10 earthquake 777	AD 1645 carthquake 458
catalogues 4–9	AD 1648 October 18 couth guelte 487
catastrophism 9–10	AD 1674 Japuary 23 conthaughe 517
Cattaro	AD 1674 January 23 earthquake 517
AD 1520 May 17 earthquake 437	AD 1688 Sentember 10 centh quality 524
AD 1780 September 21 centh guelte 600	AD 1688 September 10 earthquake 524
AD 1780 September 21 earthquake 609	AD 1694 March 5 earthquake 525
Caucasus, deformation 820	AD 1710 May 25 conth guales 529
Çavdar, AD 1895 earthquake 783	AD 1719 May 25 earthquake 545
Cavtat	AD 1733 December 23 earthquake 550
AD c.1453 earthquake 394	AD 1737 March earthquakes 553
AD 1667 April 6 major earthquake 500–511	AD 1738 December earthquakes 554
Çekmece, AD 1766 May 22 earthquake 591	AD 1739 April 4 earthquakes 554–555
Çerge castle, Avlona, AD 1601 April 17 earthquake 471–472	AD 1767 February 7 earthquake 597
Çerkeş	AD 1772 October 25 earthquake 605
AD 1895 July 27 earthquake 782	AD 1800 December 18 centh make 608
AD 1897 May 3 earthquake 787	AD 1809 December 18 earthquake 625
AD 1898 October 1 earthquake 790	AD 1820 March earthquake and storm 631
Çermik, AD 1898 December 4 earthquake 790	AD 1833 December earthquakes 642
Çeşme	AD 1843 December 28 earthquake 657
AD 1852 October 19 earthquake 673	AD 1853 July earthquake 674
AD 1881 earthquakes 745–747	AD 1856 November 25 earthquake 686
AD 1883 October 15 earthquake 748–749	AD 1865 Neverther 12 earth make 708
AD 1884 earthquakes 749, 750	AD 1865 November 12 earthquake 711
AD 1886 November 27 earthquake 752	AD 1866 January 19 earthquake 711
AD 1889 November 13 earthquake 760	AD 1876 March 29 earthquake 741
Chalcidar, AD 311 Santardard 1 (appring a santhardard 140)	AD 1899 Person for 12 centh grade 744
Chaldin, AD 1969 February 18 conth made: 710, 720	AD 1880 December 12 earthquake 745
Chaldir, AD 1868 February 18 earthquake 719–720	AD 1881 earthquakes 745–747, 746
Chalkis	AD 1884 December 5 earthquake 750
AD 1846 November earthquake 662	AD 1886 earthquakes 751, 752
AD 1855 earthquakes 681	AD 1889 earthquakes 757, 758
see also Negreponte	AD 1890 January 4 earthquake 761
Chania	AD 1891 earthquakes 763
AD 1524 February 12 earthquake 438	AD 1894 earthquakes 771, 780
AD 1509 November 26 earthquake 469–470	Chliste AD 1306 conth gualta 252 254
AD 1598 March 7 earthquake 471	Chlara, AD 1296 earthquake 353, 354
AD 1664 November 20 earthquake 499	Chora AD 1242 October 18 conth qualta 267, 268
AD 1681 earthquakes 520–521	AD 1354 March 1 conth guello 273
AD 1779 December 6 earthquake 608–609	AD 1354 March 1 earthquake 373
AD 1794 October 28 earthquake 621	chronicles 2
AD 1810 February 16 earthquake 625–627	Chryso, AD 1870 August 1 earthquake 725
AD 1856 October 12 earthquake 683–685	Cibyra, Phrygia
AD 1862 June 21 earthquake 706	AD 23 earthquake 108
AD 1876 April 25 earthquake 741	AD 23 earthquake 108
AD 1879 August 9 earthquake 744	AD 417 earthquake 161 Cilicia
Chepelare AD 1802 October 7 certhqueke, 764	AD 803 June 23 earthquake 239
AD 1892 October 7 earthquake 764	110 000 June 20 Carmquake 209

AD 1892 October 7 earthquake 764 AD 1897 November 22 earthquake 788

AD 1898 September 21 earthquake 790

AD 1114 November 29 earthquake 285–291

AD 1269 earthquake 348-349



Index 911

Cities of the Plain, 2100-1700 BC earthquake 63 Citium, AD 76 earthquake 119 Civril AD 1875 May 3 earthquake 740 AD 1899 September 25 earthquake 795 AD 1896 March earthquake 784 AD 1898 April 20 earthquake 789 Claudia AD 529 October-530 September landslide 193 AD 817 earthquake 239-240 Claudiopolis Galatica AD 967 September 2 earthquake 254 see also Bolu clay mortar 38-39 Cleona, 414 BC earthquake 85 Cnidus, AD 465 July 6 earthquake 173 Colossus of Rhodes, c.227 BC earthquake 91–92 Coloumbos, Santorini, AD 1650 March-December eruption 487-491 columns, effect of earthquakes 33, 34, 35, 36, 37 Constantinople AD 358 August 24 earthquake 144 AD 362 December 2 earthquake 147–148 AD 363 earthquake 151 AD 395 earthquake and aurora borealis 158-159 AD 402 earthquake 159 AD 403 earthquake 159 AD 407 April 1 earthquake 159-160 AD 408 July 5 earthquake 160 AD 412 spurious earthquake 161 AD 417 April 20 earthquake 161 AD 422 earthquake 162-163 AD 423 April 2 earthquake 163 AD 437 September 25? earthquake 163-165 AD 442 April 17 earthquake 165 AD 447 January 26 earthquake 165–168 AD 478 earthquakes 174-175, 176 AD 525 October 7 spurious earthquake 182-183 AD 526 earthquake 189 AD 533 < November 20 earthquake 195-196 AD 533-534 fall of statue of Emperor 196 AD 542 August 16 earthquake 196-197 AD 546 earthquake 198 AD 548 earthquake 198 AD 554 August 16 earthquake 206-207 AD 555 July 11 earthquake 208 AD 557 earthquakes 198, 208-211, 213 AD 565 November 5 earthquake 212

AD 850 earthquake 242 AD c.860 earthquake 244 AD 861 May 15 earthquake 244-245 AD 869 January 9 earthquake 246 AD 945 cracks in walls of houses 252 AD 989 October 26 earthquake 256-257 AD 1010-1012 earthquakes 259 AD 1026 December 5 earthquake 260 AD 1032 August 13 earthquake, damage to aqueduct 260-261 AD 1033 March 6 earthquake 261 AD 1036 December 18 earthquake 265 AD 1037 November earthquake 265 AD 1038-1039 earthquakes 265 AD 1041 June 10 earthquake 266 AD 1090 December 6 earthquake 277-278 AD 1106 fall of statue 281 AD 1118 earthquake 291-292 AD 1156 thunderclaps 302 AD 1162 earthquake 315-316 AD 1197 collapse of Gate of Charisius 327 AD 1201 March 1 spurious earthquake 327 AD 1231 March 11 earthquake 341 AD 1237 September 16 earthquake 342 AD 1254 September 16 earthquake 342, 343 AD 1289 June earthquake 352 AD 1296 June 1 earthquake 353-354 AD 1302 December 13 Turkish invasion 355 AD 1303 earthquakes 355, 358 AD 1315 September 29 earthquake 363 AD 1323 spurious earthquake 365 AD 1332 January 17 earthquake and storms 365-366 AD 1343 earthquakes 366-369 AD 1346 May 19 earthquake 371-372 AD 1391 August 15 earthquake 379 AD 1402 earthquake 382 AD 1419 December earthquake and flooding 388 AD 1437 earthquakes 390-391 AD 1453 earthquake 394 see also Istanbul Copik, AD 995 August 19 earthquake 258 Corfu AD 968 December 18 earthquake 254 AD 1294 earthquake 353 AD 1508 May 29 earthquake 417-422 AD 1531 September 13 earthquake 438 AD 1651 earthquake 491 AD 1666 November damage to city walls 500 AD 1674 earthquakes 517, 518 AD 1704 November 22 earthquake 530-531 AD 1708 January 25 earthquake 536 AD 1732 < March earthquake 549 AD 1743 February 20 earthquake 562-569 AD 1745 earthquake 570 AD 1773 < May 23 earthquake 605 AD 1809 May 4 earthquake 625 AD 1810 May 4 earthquake 627

AD 568 January 14 earthquake 213

AD 790 February 9 earthquake 238

AD 815 August earthhquake 239

AD 796 April earthquake 238

AD 740 October 26 earthquake 227–229 AD 780–797 March 17 earthquake 238

AD 583 May 10 earthquake 214

AD 611 April 20 earthquake 218



Corfu (cont.)	Cos
AD 1814 April 1 earthquake 628	412–411 BC earthquake 85
AD 1817 September 4 earthquake 630	24 BC earthquake 103–104
AD 1818 earthquake 630	AD 142 earthquake and sea wave 128–131
AD 1819 September 4 earthquake 631	AD 330–335 spurious earthquake 141
AD 1821 earthquake 632	AD 465 July 6 earthquake 173
AD 1822 earthquake 636	AD 551 > July 9 earthquake and sea wave 199
AD 1832 December earthquake 642	AD 554–558 earthquake 207
AD 1844 August 30 earthquake 658	AD 1437 earthquake 391
AD 1848 February 13 earthquake 664	AD 1493 October 18 earthquake 411–413
AD 1859 March 13 earthquake 692	AD 1571 earthquake 460
AD 1862 February earthquake 706	AD 1672 February 14 earthquake and sea wave 516
AD 1865 earthquakes 709, 710	AD 1673 March earthquake 516
AD 1866 November 9 earthquake 715	AD 1812 earthquake 628
AD 1867 earthquakes 716, 718	AD 1864 August 20 earthquake 709
AD 1868 March 20 earthquake 720	AD 1891 February 26 earthquake 762
AD 1870 November 13 earthquake 729	AD 1894 April 23 earthquake 771
AD 1871 April 9 earthquake 731	Çöteli, AD 1885 April 30 earthquake 751
AD 1873 November 15 earthquake 736	Cotsino, AD 1456 November 19 earthquake 395
AD 1874 September 17 earthquake 738	Coujam, AD 1668 August 17 earthquake 512–515
AD 1875 earthquakes 740, 741	Cracow, AD 1443–1444 earthquake 392
AD 1879 November 20 earthquake 744	Crannon, 510 BC collapse of building 80
AD 1880 June 18 earthquake 744	creep 31–33
AD 1882 October 31 earthquake 748	Crete
AD 1883 June 27 earthquake 748	368 BC spurious earthquake 88
Corinth	c.68 BC spurious earthquake 97
420 BC earthquake 85	AD 53 earthquake 115–116
AD 69–79 June 20 earthquake 118–119	AD 62–64 earthquake and sea level fall 113, 117–118
AD 522 earthquake 182	AD c.168 earthquake 133
AD 543 earthquake 197	AD 365 July 21 earthquake and sea wave 151–156, 157
AD 551 earthquake 204–205	AD 408 earthquake 160–161
AD 1301 earthquake 355	AD 618–621 earthquake 218
AD 1303 August 8 earthquake 356	AD <669 spurious earthquake 222–223
AD <1727 February 21 earthquake 547	AD 796 April earthquake 238
AD 1743 February 20 earthquake 562–569	AD >1228 earthquake 341
AD 1748 May 25 earthquake 571–572	AD 1246 earthquake 342
AD 1850 January 13 earthquake 666	AD 1303 August 8 earthquake 355–362
AD 1855 December 10 earthquake 682	AD 1306 earthquake 362
AD 1858 February 21 earthquake 688–689	AD 1353 October 16 earthquake 372
AD 1883 April 16 earthquake 748	AD 1410 May 31 (wrath) or places 388
Corinthia AD 1742 February 21 earthquake 558–559	AD 1419 May 31 'wrath' or plague 388 AD 1490 November 1 earthquake 407
	AD 1490 November 1 earthquake 407 AD 1491 September 4 earthquake 411
AD 1876 Lyne 26 centh gyelse 742	
AD 1876 June 26 earthquake 742	AD 1494 July 1 earthquake 413–414 AD 1496 September 7 earthquake 414
Çorlu	
AD 1247 earthquake 342	AD 1501 earthquake 415 AD 1508 earthquakes 417–422
AD 1766 May 22 earthquake 591 Coronea, AD 551 earthquake 204	AD 1506 earthquakes 417–422 AD 1517 April 13 earthquake 436
*	AD 1517 April 15 earthquake 430 AD 1522 April 10 earthquake 437
Çorum AD 1514 carthayaka 435 436	AD 1522 April 10 earthquake 457 AD 1525 February 16 earthquake 438
AD 1514 earthquake 435–436	AD 1525 February 10 Earthquake 438 AD 1531 September earthquake 438–439
AD 1570 corthographs 463 464	
AD 1579 earthquake 463–464 AD 1582 February earthquake 465	AD 1539 January 14 earthquake 439–440 AD 1549 September earthquakes 452
* *	
AD 1794 July 18 earthquake 620 AD 1897 July 21 earthquake 788	AD 1564 August earthquakes 457–458 AD 1595 November 26 earthquake 469–470
AD May 1598 earthquake 471	AD 1595 November 20 earthquake 469–470 AD 1598 March 7 earthquake 471
* *	AD 1596 March 7 earthquake 471 AD 1599 January 14 earthquake 471
Corycus, AD 300–399 earthquakes 140	AD 1333 January 14 Carmquake 4/1



AD 1609 April earthquake 474	AD 1407 April 29 earthquake 384
AD 1612 spurious earthquake 475	AD 1412 February 23 landslide 386
AD 1613 March earthquake 475	AD 1456 earthquake 395
AD 1629 February 478–479	AD 1470 earthquake 397–398
AD 1646 January 5 earthquake 485	AD 1479 October 16 earthquake 398
AD 1664 November 20 earthquake 499	AD 1491 earthquakes 407–411
AD 1673 earthquake and fire 517	AD 1497 November 25 destruction 415
AD 1681 earthquakes 520–521	AD 1508 earthquakes 417–422
AD 1717 earthquake 542	AD 1524 June 11 earthquake 438
AD 1741 January 31 earthquake 556–557	AD 1542 earthquakes 441
AD 1748 earthquake 571	AD 1546 January 14 earthquake and wind 444-451, 445
AD 1779 December 6 earthquake 608–609	AD 1547 earthquake 452
AD 1794 October 28 earthquake 621	AD 1556 earthquake 455
AD 1804 January 26 earthquake 623	AD 1557 spurious earthquake 456
AD 1805 July 3 earthquake 623	AD 1566 April 25 earthquake 458
AD 1807 March 17 earthquake 624	AD 1567 earthquake 458–459
AD 1810 earthquakes 625–627	AD 1568 October 10 earthquake 459–460
AD 1814 October 2 earthquake 629	AD 1573 March 6 earthquake 461
AD 1815 November 29 damaging earthquake 629	AD 1577 February 4 sea wave 463
AD 1818 August 8 earthquake 630	AD 1577 January 28 earthquake 462–463
AD 1846 March 28 earthquake 660–661	AD 1584 earthquake 466
AD 1856 October 12 earthquake 683–685	AD 1596 January 18 earthquake 470–471
AD 1858 June 16 earthquake 689–690	AD 1602 March 25 earthquake or eruption 472
AD 1861 November 25 earthquake 699	AD 1605 earthquake 472
AD 1862 June 21 earthquake 706	AD 1718 < December 12 earthquake 543
AD 1876 April 25 earthquake 741	AD 1735 April 10–11 destructive earthquake 550–552
AD 1879 August 9 earthquake 744	AD 1741 January 31 earthquake 556–557
Crete AD 1662 earthquake 498	AD 1755 earthquakes 580
Crucifixion earthquake 11–12, 108–111	AD 1756 January 17 earthquakes 581
Crusades, European accounts of earthquakes 328–337	AD 1810 February 16 earthquake 625–627
Ctesiphon, AD 570 November earthquake 213	AD 1837 January 1 earthquake 647
Çüngüş, AD 1898 April 16 earthquake 789	AD 1838 earthquake 650
Curium, Cyprus	AD 1844 April 4 earthquake 658
AD c.375 earthquake 157	AD 1845 February 21 earthquake 659
AD 1577 January 28 earthquake 462–463	AD 1861 May earthquake 699
Cyclades	AD 1883 March 5 earthquake 748
AD 465 July 6 earthquake 173	AD 1887 August 7 earthquake 754
AD 1717 earthquake 542	AD 1891 April 13 earthquake 763
Cyme, AD 105–106 earthquake 121	AD 1894 January 13 earthquake 770–771
Cyprus	AD 1896 earthquakes 783, 784, 785, 786
c.180 BC spurious earthquake 94	AD 1897 July 26 earthquake 788
92 BC February 28 spurious earthquake 96	AD 1898 September 21 earthquake 790
17–15 BC earthquake 99, 104	Cyrenaica, AD 306 spurious earthquake 140
AD 76 earthquake 119–120	Cyrene
AD 293–306 earthquake 139	AD c.37 spurious earthquake 112
AD 331 September-332 August earthquake 141	AD 251 July 9 spurious earthquake 137–138
AD 341 earthquake 142–143	AD 262 earthquake 138
AD c.375 earthquake 157	AD 362 earthquake 147
AD c.1160 earthquake 315	AD 365 July 21 earthquake 153, 155, 159
AD 1202 May 20 earthquake 327–337	AD end fourth century earthquake 159
AD 1222 May 11 earthquake and sea wave 338–340	Cytenium, 228–224 BC earthquake 91
AD 1227 May 12 earthquake 340–341	Cyzicus
AD 1267 earthquake 347–348	AD 123 November 10 earthquake 126
AD 1303 August 8 earthquake 357	AD <160 earthquake 132–133
AD 1392 April 13 earthquake 379	AD 460 April 7 earthquake 172
AD 1395 November 13 earthquake 380	AD 543 September 6 earthquake 197
AD 1397 April 29 earthquake 380	AD 1063 September 23 earthquake 271–272



914 Index

Dabil, AD 893 earthquake 248	Darakush, AD 1620 landslide 477
Dacibyza, AD 268–270 earthquake 139	Dardanelles
Dalmatian coast, fold and thrust belt 816	AD 1437 November 28 earthquake 391
Dalmatian Islands, AD 1667 April 6 major earthquake	AD 1707 June 1 earthquake 535
500–511	AD 1762 November 2 earthquake 588
Damanhur al-Wash, AD 1303 August 8 earthquake 357, 361	AD 1766 August 5 earthquake 595–596
Damascus	AD 1847 July 4 earthquake 663
AD 643–644 earthquake 221	AD 1859 August 21 earthquake 695
AD 747–749 earthquake 234, 236	AD 1866 January 16 earthquake 711
AD 847 November 24 earthquake 242	AD 1876 October 26 earthquake 742
AD 991 April 5 earthquake 257–258	AD 1894 February 10 earthquake 771
AD 1138 October 11 earthquake 295–296	AD 1895 February 16 earthquake 781
AD 1139 June 21 earthquake 296	Dardania, Macedonia, AD 518 earthquake 180–181
AD 1152 February 3 earthquake 298	Darkush, AD 1822 August 13 earthquake 632–635
AD 1156 earthquakes 298–299, 301–302	Dartangal, AD 1977 December 19 earthquake 17, 18
AD 1157 earthquakes 302–303, 306, 307, 312–313	Dasha, AD 1742 February 21 earthquake 558–559
AD 1158 earthquakes 313, 314	Dasht-e Bayaz fault zone, AD 1968 August 31 earthquake
AD 1159 earthquakes 315	18, 19, 20, 21–22
AD 1170 June 29 earthquake 318–325	dating, historical earthquakes 57
AD 1202 May 20 earthquake 327–337	Dead Sea
AD 1284 earthquake 351	AD 1848 April 26 earthquake 664
AD 1303 August 8 earthquake 357, 361	AD 1854 November 3 earthquake 676
AD 1322 February earthquake 365	asphalt
AD 1399 September 18–19 earthquake 380	AD 1834 May 26 earthquake 642
AD 1491 earthquakes 407–411	AD 1837 January 1 earthquake 647
AD 1537 March 9 earthquake 439	Dead Sea fault system 27, 63, 65, 69, 70, 99, 275, 820
AD 1546 January 14 earthquake 444–451	AD 1157 August 12 earthquake 303–311
	AD 1357 August 12 earthquake 305–311 AD 1354 October 28 earthquake 375
AD 1565 Luly 27 corthographs 458	AD 1822 August 13 earthquake 632–635
AD 1604 certhousis 472	
AD 1618 conth gualess 476 477	frequency-magnitude distribution 832–835
AD 1618 earthquakes 476, 477	seismicity 828, 829
AD 1647 south guelte 487	Deghenkar fortress, AD 1269 earthquake 348–349
AD 1647 earthquake 487	Değirmencik, AD 1889 January 22 earthquake 757
AD 1672 April 29 meteorite impact 516	Deirmencik, AD 1899 November 10 earthquake 795
AD 1705 November 23 earthquake 533	Delos
AD 1712 December 28 earthquake 538	490 BC earthquake 80
AD 1735 November 27 earthquake 552	432–431 BC earthquake 82, 98
AD 1746 July 5 earthquake 570	373 BC earthquake 88
AD 1753 December 16 earthquake 577	c.50 BC spurious earthquake 97–98
AD 1759 earthquakes 583, 585	AD 65–72 earthquake 118
AD 1761 April 9 earthquake 587	Delphi 270 P.C. 11 1 20
AD 1837 January 1 earthquake 647	279 BC earthquake 90
AD 1845 February 15 earthquake 659	354–346 BC earthquake 89
AD 1867 April 14 earthquake 718	AD 1870 August 1 earthquake 725
Damascus, USA, AD 1853 May 19 earthquake 673	Delvine, AD 1743 February 20 earthquake 564
Damietta	Delvinë, Dukar castle, AD 1601 April 17 earthquake
AD 1537 earthquake 439	471–472
AD 1609 April earthquake 474	Demitoka
Daphne	AD 1509 September 10 earthquake 425–433
AD 115 December 13 earthquake 122	AD 1891 September 17 earthquake 763
AD 526 May 29 earthquake 184–189	Denizli
AD 528 November 29 earthquake 189, 190, 191	AD 1366 earthquake 376
AD 577 earthquake 213–214	AD 1651 June 7 earthquake 491
Daphni	AD 1702 February 25 earthquake 529
AD 1801–1805 earthquake 622	AD 1717 November 19 earthquake 542
AD 1889 January 24 earthquake 757	AD 1849 August 16 earthquake 666
Darachichak, AD 1827 October 20 earthquake 639	AD 1860 October 15 earthquake 698

15,



> Index 915

AD 1885 November 13 earthquake 751 AD 1890 August 1 earthquake 761 AD 1897 November 27 earthquake 789 AD 1899 earthquakes 793, 795 Derben, AD 1668 August 17 earthquake 512–515 Derik, AD 1897 April 25 earthquake 787 Derinköy, AD 1893 May 28 earthquake 769 Dervicani, AD 1860 November 28 earthquake 698 Diakofto, AD 1402 August 30 earthquake 380–382 Dikili, AD 1878 December 2 earthquake 743 Dil, AD 1766 May 22 earthquake 591 Dilman, AD 1930 May earthquake 42, 44 Diocaesarea, AD c.97 earthquake 120 Dionysopolis, AD 544 sea wave 198 Divri, AD 1897 January 15 earthquake 786-787 Diyarbakir AD 1046 earthquake 267 AD 1137 November earthquake 294 AD 1611 earthquake 474 AD 1873 August 6 earthquake 736 AD 1897 April 22 earthquake 787 Dodecanese c.198 BC earthquake 92-93 AD 142 earthquake and sea wave 128-131 AD 1493 October 18 earthquake 411-413 AD 1495 January 5 earthquake 414 Doğubayazit AD 363 earthquake 151 AD 1841 May 8 earthquake 654 AD 1852 September 19 earthquake 673 Doirani, AD 1871 May 31 earthquake 731 Doliana, AD 1894 July 18 earthquake 779 Dome of the Rock AD 1033 December 5 earthquake 261, 264 AD 1068 earthquakes 273, 274-275, 276 AD 1546 January 14 earthquake 447 Dousikou monastery AD 1544 April 24 earthquake 442-444 AD 1665 October 30 earthquake 499 AD 1698 November earthquake 528 AD 1779 May 23 earthquake 608 Dragano AD 1783 March earthquakes 611-612 AD 1825 January 19 destructive earthquake 637–638 Dragoni, AD 1813 December 10 earthquake 628 AD 1829 May 5 earthquake 640-641 AD 1859 January 21 earthquake 692

AD 1867 March 28 earthquake 718 AD 1869 earthquakes 721, 722 AD 1870 December 23 earthquake 729 AD 1871 January 20 earthquake 730 Drim Valley, AD 1855 July 3 earthquake 681 Duavanits, AD 1696 April 14 earthquake 527-528 Dubrovnik c.32 BC earthquake 98

AD 1481 February 14 earthquake 398 AD 1482 earthquakes 404 AD 1496 November 28 earthquake 415 AD 1504 December 7 earthquake 416 AD 1514 earthquake 436 AD 1520 May 17 earthquake 437 AD 1534 February 3 earthquake 439 AD 1543 August 13 earthquake 441 AD 1544 March 6 earthquake 441 AD 1546 September 11 earthquake 451-452 AD 1631 earthquakes 480 AD 1667 April 6 major earthquake and sea wave 500-511 AD 1803 earthquakes 623 AD 1813 earthquake 628 AD 1823 August earthquakes 636-637 AD 1825 June 21 earthquake 638 AD 1841 October 5 earthquake 654 AD 1843 earthquakes 655, 656, 657 AD 1844 earthquakes 657, 658 AD 1845 August 19 earthquake 659 AD 1846 July 8 earthquake 662 AD 1848 August 2 earthquake 665 AD 1849 earthquakes 665 AD 1850 earthquakes 666, 667 AD 1851 earthquakes 668, 669 AD 1852 earthquakes 671, 673 AD 1853 earthquakes 673, 674 AD 1854 earthquakes 676 AD 1855 earthquakes 681, 682 AD 1856 earthquakes 682, 683, 685 AD 1857 earthquakes 686, 687 AD 1858 November 25 earthquake 692 AD 1859 March earthquakes 693 AD 1860 earthquakes 696, 698 AD 1864 June 12 earthquake 709 AD 1868 September 15 earthquake 721 AD 1869 earthquakes 721, 722 AD 1870 September 29 earthquake 729 Dukar castle, Delvinë, AD 1601 April 17 earthquake 471-472 Duluk, AD 952 earthquake 253 Duma, AD 991 April 5 earthquake 257–258 Dumiyat al-Kubra, AD 1398 earthquakes 380 Dur Sharrukin, Assyria, 669 c.627 BC earthquake 79 Dura-Europus, AD 160 October 27 earthquake 132 Durani, AD 1859 August 13 earthquake 695 Durazzo AD 1816 earthquake 629 AD 1869 earthquakes 722 AD 1871 November 12 earthquake 731 AD 1895 August 6 earthquake 782 AD 1896 February 10 earthquake 783 Durres, AD 1852 April 26 earthquake 672

AD 452 February 7 earthquake 452



Dvin	AD 1510 March earthquake 433
AD 863 February 13 earthquake 245	AD 1511 May 26 earthquake 434
AD 893 December 28- earthquake 247–249	AD 1557 earthquake 456
AD 900–901 earthquake 249–250	AD 1689 April 25 earthquake 524
Dyrrachium	AD 1750 August 17 earthquake 573
58 BC April spurious earthquake 97	AD 1752 earthquakes 574–576
AD 345 earthquake 144	AD 1756 November 26 earthquake 582
AD 522 earthquake 181–182	AD 1762 June 13 earthquake 588
AD 1267 March earthquake 346–347	AD 1766 earthquakes 590–593, 595–596
	AD 1808 earthquake 624–625
earthquake catalogues 4–9	AD 1829 earthquakes 640, 641
earthquake hazard xii	AD 1851 July 23 earthquake 670
earthquake intensity 16, 29, 52–58, 826	AD 1869 June 24 earthquake 722
distribution 57–58	AD 1870 July 14 earthquake 724
scale 52–56	AD 1876 August 28 earthquake 742
earthquake location	AD 1877 November 1 earthquake 743
historical 56, 830–831	AD 1880 May 13 earthquake 744
instrumental 820, 822–823	AD 1889 April 13 earthquake 757
earthquake risk xii	AD 1893 February 9 earthquake 765–766
earthquakes	AD 1898 earthquakes 789
consequences 839–840	AD 1899 August 5 earthquake 792
prediction 840–841	Edremit 752
East Anatolian fault zone 27, 258, 819–820, 832, 833	AD 1815 earthquake 629
AD 1822 August 13 earthquake 632–635	AD 1865 July 22 earthquake 710
AD 1866 May 12 earthquake 712–714	Egriboz see Negreponte
seismicity 828, 829	Eğridere, AD 1896 July 5 earthquake 786
Eastern Mediterranean	Eğridir, AD 1893 March earthquake 768
AD 956 earthquake 253	Egypt
AD 1481 March 18 earthquake 399–400	1181 BC earthquake 68
AD 1486 October 12 earthquake 405	184 BC spurious earthquake 94
AD 1491 April 24 earthquake 407–411	27 BC destruction of Thebes 103
AD 1756 February 13 earthquakes 581	AD >51 spurious earthquake and eclipse 114–115
AD 1846 March 28 earthquake 660–661	AD 93 spurious earthquake 120
AD 1856 October 12 earthquake 683–685	AD 365 July 21 sea wave 151, 154, 155
AD 1863 April 22 earthquake 706–708	AD 520 October 14 earthquake 181
AD 1868 February 20 earthquake 720	AD 796 April earthquake 238
AD 1870 June 24 earthquake 723–724	AD 857 April earthquake 242
AD 1872 April 3 earthquake 732–734	AD 885 November earthquake 247
AD 1873 January 12 earthquake 735	AD 899 November 14 spurious earthquake 249
AD 1873 July 17 earthquake 753	AD 912 earthquake and Halley's comet 250
Eceabat, AD 1866 January 16 earthquake 711	AD 935 October 4 earthquake 251
Echinus, AD 551 sea wave 204	AD 950 July 25 earthquakes 252
Edessa	AD 956 earthquake 253
AD 499 October 23 collapse of city walls 178	AD 963 May 12 earthquake 253–254
AD 569 October-570 September earthquake 213	AD 969 July 1 spurious earthquake 254–255
AD c.570 earthquake 213	AD 997 spurious earthquake 258
AD 679 April 3 earthquake 223	AD 1068 March 18 earthquake 272
AD 1003 earthquake 258	AD 1111 August 31 earthquake 281
AD 1114 November 29 earthquake 284–291	AD 1111 August 31 earthquake 281 AD 1138 October 15 spurious earthquake 296
AD 1120 January 1 earthquake 292	AD 1196 october 15 spurious earthquake 250 AD 1191 or, 1196 spurious earthquake and wind 326–327
*	AD 1202 May 20 earthquake 327–337
AD 1127 earthquakes 292, 293 AD 1162 August earthquake 316	AD 1212 May 1 earthquake 327–337 AD 1212 May 1 earthquake 337
E 1	
AD 1894 July 23 earthquake 780	AD 1240s earthquake or meteorite impact 342
AD 1894 July 23 earthquake 780 Edirne	AD 1259 June 6 earthquakes 345 AD 1264 February 20 earthquake 346
	AD 1204 February 20 earthquake 340 AD 1299 January 8 earthquake 354–355
AD 1445 earthquake 393	
AD 1478 August 2 earthquake 398 AD 1509 earthquakes 422–433	AD 1303 August 8 earthquake 356–358, 360 AD 1307 August 10 earthquake 363



AD 1313 February 27 earthquake 363	epicentres 820, 823
AD 1343 earthquake 369–370	Epidaurum see Dubrovnik
AD 1361 collapse of minaret 376	Epidaurus
AD 1373 October 19 earthquake 376	AD c.1453 earthquake 394
AD 1385 September 19 earthquake 378	AD 1873 July 25 earthquake 736
AD 1386 July 17 earthquake 378	epigraphs 2
AD 1425 June 23 earthquake 389	Epirus
AD 1481 March 18 earthquake 399–400	AD 1756 January 18 earthquake 581
AD 1491 earthquakes 407–411	AD 1809 May 4 earthquake 625
AD 1509 April earthquake 422	AD 1813 December 10 earthquake 628
AD 1511 March 7 earthquake 434	AD 1854 July 30 earthquake 676
AD 1537 earthquake 439	AD 1889 November 17 earthquake 760
AD 1632 earthquake 480–481	AD 1895 May 13 earthquake 781
AD 1694 December 21 earthquake 527	Ercis
AD 1698 October 2 earthquake 528	AD 1276 October 3 earthquake 349
AD 1754 October earthquake 580	AD 1715 March 8 earthquake 540
AD 1778 earthquake 606	Erdek, AD 1063 September 23 earthquake 270–272
AD 1805 July 3 earthquake 623–624	Erdogmus, Turkey 30, 31
AD 1811 spurious earthquake 627–628 AD 1837 January 1 earthquake 647	fault creep 31, 33
AD 1846 March 28 earthquake 660–661	Erenköy, AD 1875 October landslide 741
AD 1847 August 7 earthquake 663–664	Eretria, AD 1874 March 18 earthquake 737 Erevan
Eikosifinisa, AD c.598 earthquake 217	AD 1679 June earthquakes 519
Eilat	AD 1686 April 22 earthquake 522
AD 1068 March 18 earthquake 272	AD 1716 January 23 earthquake 541
AD 1212 May 1 earthquake 337–338	Eriza, AD 293–305 earthquake 139
AD 1588 January 4 earthquake 467	Erkilet, AD 1717 May 9 earthquake 541–542
Ekegheach, AD 1045 April 5 earthquake 266–267	Erzen River, AD 1852 April 26 earthquake 672
El Asnam, Algeria	Erzincan
AD 1980 October 10 earthquake 30	AD 1011 earthquake 259
fault creep 32, 33, 34	AD 1045 April 5 earthquake 266–267
Elaea, AD 105–106 earthquake 121	AD 1166–1168 earthquake 316
Elassona, AD 1766 November 9 earthquake 597	AD 1206 earthquake 337
Elbasan	AD 1236 earthquake 341–342
AD 1359–1380 earthquake 375	AD 1254 earthquakes 343–344
AD 1843 September 5 earthquake 656	AD 1268 earthquake 348
AD 1864 August 21 earthquake 709	AD 1280–1281 earthquake 350
AD 1870 earthquakes 723, 728	AD 1287 May 6 earthquake 352
AD 1871 February 1 earthquake 730	AD 1290–1291 earthquake 352
Elbistan, AD 1114 November 29 earthquake	AD 1345 earthquake 371
284–291	AD 1356 earthquakes 375
Eleftheroupolis, AD 1829 April 11 earthquake 640	AD 1374 December 8 earthquake 376–377
Elis	AD 1419 March earthquakes 387–388
c.403–400 BC earthquake 85	AD 1433 earthquake 390
AD 1806 January 24 earthquake 624	AD 1445 spurious earthquake 393
Eliseyna, AD 1822 earthquake 636	AD 1457 April 23 earthquake 395–396
Emet, AD 1896 April 16 earthquake 784	AD 1422 Neverther conthaustre 405
en echelon shear 22, 23, 24 Enez AD 1752 July 20 earthquake 574 576	AD 1482 November earthquake 405 AD 1535 earthquake 439
Enez, AD 1752 July 29 earthquake 574–576 Epachto <i>see</i> Nafpaktos	AD 1555 earthquake 459 AD 1575 November 5 earthquake 462
Ephesus Ephesus	AD 1573 November 3 cartinquake 462 AD 1583 June 27 earthquake 466
AD 17 earthquake 106–108	AD 1601 earthquake 472
AD <30, earthquake 108	AD 1666 November 24 earthquake 500
AD c.42 earthquake 112	AD 1667 earthquake 511
AD c.46–47 earthquake 113–114	AD 1689 earthquake 524
AD 262 earthquake and sea wave 138–139	AD 1784 July earthquakes 613–615
AD 1890 December 14 earthquake 762	AD 1888 June 21 earthquake 755
AD 1891 earthquakes 762 763	AD 1939 December 26 earthquake 24



Erzurum	Faiyum oasis, AD 1847 August 7 earthquake 663–664
AD 840 June earthquake 241	Famagusta, Cyprus
AD 1659 earthquake 493	AD 1491 April 24 earthquake 407–411
AD 1685 December 2 earthquake 521	AD 1546 January 14 earthquake and wind 444–451, 445
AD 1712 earthquake 538	AD 1547 earthquake 452
AD 1719 June earthquake 545	AD 1556 wind storm 455
AD 1769 October earthquake 603	AD 1568 October 10 earthquake 459–460
AD 1784 July earthquakes 614–615	AD 1577 January 28 earthquake 462
AD 1843 October 27 earthquake 657	AD 1718 < December 12 earthquake 543
AD 1844 earthquakes 658	AD 1735 April 10–11 destructive earthquake 550–552
AD 1846 February earthquakes 660	fatalities 55–56
AD 1852 May 26 earthquake 672	faulting 15, 17–33
AD 1859 earthquakes 692, 693–694, 694, 695	coseismic surface 22–29, 818
AD 1860 December 3 earthquake 698	Dalmatian coast 816
AD 1861 March 7 earthquake 698	fault creep 31–33
AD 1866 May 12 earthquake 712–714	normal 816, 818
AD 1867 January 21 earthquake 716	strike-slip 816
AD 1868 February 25 earthquake 720	Aegean Sea 818
AD 1869 October 6 earthquake 722	transient ground motion 29–30
AD 1871 March 17 earthquake 730	see also Dead Sea fault system; East Anatolian fault zone;
AD 1872 June 15 earthquake 734, 734	North Anatolian fault zone
AD 1873 September 6 earthquake 736	Fetiye
AD 1875 earthquakes 740–741	AD 1851 earthquakes 668–669
AD 1888 September 10 earthquake 756	AD 1852 earthquakes 672
AD 1894 earthquakes 773, 780	AD 1855 earthquakes 677, 679
Eskihisar, AD 1651 June 7 earthquake 491	see also Makri
Eskişehir, AD 1862 January 17 earthquake 705–706	field studies 16–37
Etropole	Filiata, AD 1894 September 8 earthquake 780
AD 1682–1683 repairs to church 521	Filiates, AD 1872 February 11 earthquake 732
AD 1707 March 22 earthquake 534–535	Filipicik, AD 1502 February 25 earthquake 415
AD 1710 March 11 earthquake 537	Finike, AD 1887 January 8 earthquake 752
AD 1759 earthquakes 582, 583	Florina, AD 1894 earthquakes 780
AD 1839 February 9 earthquake 651	flugblätter see fly-sheets
Euboea, c.198 BC earthquake 93	fly-sheets 9
Euboeis, 480–100 BC earthquake 81	flysheets, Crete AD 1613 March earthquake 475
Euphrates River	Foça
AD 529–530 landslide 193	AD 1700 earthquake 528
AD 817 earthquake 239–240	AD 1709 July 3 earthquake 537
AD 860 January earthquake 243–244	AD 1739 April 4 earthquakes 554–555
AD 1068 March 18 earthquake and flooding 273	AD 1772 November 24 earthquake 605
AD 1114 November 29 earthquake and flooding	AD 1846 February 17 earthquake 660
284–291	AD 1867 March 7 earthquake 717–718
AD 1138 freezes 295–296	focus 820
AD 1840 July 2 catastrophic earthquake 651–653	Foglieri, AD 1737 March 6 earthquake 553
AD 1871 March 17 earthquake 730, 730	Fokia, AD 1389 March 20 earthquake 378–379
Eurasian Plate 815–816	Fokis
Euripos castle, Negreponte 536	AD 1756 October 20 earthquake 581
Europe, sources 3	AD 1852 July 14 earthquake 673
European Macroseismic Scale, 1998 (EMS-1998) 54,	AD 1870 August earthquakes 724–728
56	AD 1870 October and November earthquakes 729
Evia	fold and thrust belt, Dalmatian coast 816
AD 1840 June 11 earthquake 651	Fort Dan, AD 1033 December 5 earthquake 262
AD 1852 June 5 earthquake 672	frequency-magnitude distribution 831–832
Evros River, AD 1752 July 29 earthquake 574–576	Dead Sea fault system 832–835
Evrostina, AD 1753 March 6 earthquake 576	Gulf of Corinth 836–837
Evrotas valley, AD 1842 April 18 earthquake 655	Sea of Marmara 835–836
Ezine, AD 1737 March 6 earthquake 553	Fryni, AD 1704 November 22 earthquake 530–531



Index 919

AD 1847 July 4 earthquake 663
AD 1855 March 17 earthquake 680
AD 1859 August earthquakes 695, 696
AD 1860 earthquakes 697, 698
AD 1861 August 29 earthquake 699
AD 1866 January 13 earthquake 711
AD 1870 August 10 earthquake 728
AD 1871 December 11 earthquake 732
AD 1881 October 4 earthquake 747
AD 1891 June 19 earthquake 763 AD 1895 earthquakes 781
Gemlik
AD 1855 December 14 earthquake 682
AD 1857 September 17 earthquake 687
AD 1863 November 6 earthquake 708
AD 1890 May 17 earthquake 761
AD 1893 May 25 earthquake 769
AD 1894 May 5 earthquake 773
AD 1899 May 24 earthquake 792
Georgia
AD 1088 April 16 earthquake 277
AD 1275 April 14 earthquake 349
AD 1283 April 17 earthquake 350–351
AD 1614 earthquake 476
Gerasa, AD 363 May 19 earthquake 148–151
Gerger, AD 1675 earthquake 518
Germe, AD 368 earthquake 156–157
Germencik, AD 1884 November 30 earthquake 750
Geyve
AD 1894 September 3 earthquake 780
AD 1895 October 6 earthquake 782
Ghor al-Dirrah, AD 1854 November 3 earthquake 676
Giaurköy, AD 1737 March 6 liquifaction 553
Gibraltar, AD 881 May 16- earthquakes 246–247
Girangir, AD 1664 May 29 earthquake 498
Giresun
AD 1861 June 16 earthquake 699 AD 1876 May 13 earthquake 741–742
* *
Gisk, Iran, AD 1977 December 19 earthquake 17, 18, 38
Global Seismic Hazard Assessment Programme, earthquake catalogue 6
Gökova Körfezi, AD 141 earthquake 128
Golden Gate
AD 554 August 16 earthquake 206, 207
AD 554 August 10 cartinquake 200, 207 AD 557 December 14 earthquake 208–211
AD 740 October 26 earthquake 227
Golden Horn
AD 1509 September 10 earthquake 422–433
AD 1556 May 10 earthquake 454–455
AD 1766 August 5 earthquake 596
Gomorrah, 2100–1700 BC earthquake 63
Gonabad, qanats 21
Gördes, AD 1897 July 17 earthquake 788
Gördüs
AD 1742 February 21 earthquake 558–559
AD 1743 February 20 earthquake 562–569

Goritsa, AD 1871 February 7 earthquake 730

AD 1846 September 19 earthquake 662



920 Index

Gorno Solnje, AD 1887 March 24 earthquake 753 Gortyna AD 365 July 21 earthquake 153 AD 408 earthquake 160-161 AD 618-621 earthquake 218 AD <669 spurious earthquake 222-223 AD 1783 March 9 earthquake 611 Göynük valley, AD 1866 May 12 earthquake 712-714 Gozo, AD 1856 October 12 earthquake 685 graben 816, 818 Gramvousa, Crete, AD 1595 November 26 earthquake 469-470 Gravia, AD 1852 July 14 earthquake 673 Gravosa, AD 1667 April 6 major earthquake 501-511 AD 361 June earthquake 147 AD 1301 earthquake 355 AD 1307 earthquakes 363 AD 1515 July 31 earthquake 436 Grizano, AD 1809 December 6 earthquake 625 ground, vulnerability 49-52 Gruda, AD 1472 earthquake 398 Gulanber, AD 1572 earthquake 461 Gulf of Adramyttium, AD 105-106 earthquake 121 Gulf of Antioch, AD 860 January 243-244 Gulf of Aqaba AD 1068 March 18 earthquake 272-276 AD 1212 May 1 earthquake 337-338 Gulf of Argos, AD 1769 June 27 earthquake and storm 601-602 Gulf of Corinth 373 BC earthquake and sea wave 86-88 AD 141-142 earthquake 128 AD 976-1025 earthquake 255 AD 1255 earthquake 344-345 AD 1402 August 30 earthquake and sea wave 380-382 AD 1450 earthquake 393-394 AD 1703 January 19 earthquake 529-530 AD 1714 July 29 earthquakes 539 AD 1748 May 25 earthquake and sea wave 571-572 AD 1754 June 15 earthquake 577 AD 1756 October 20 earthquake 581 AD 1769 earthquake and sea wave 603 AD 1775 April 18 earthquake 606 AD 1858 February 21 earthquake 688-689 AD 1861 December 26 earthquake 699-705 AD 1887 October 3 earthquake and sea wave 754 AD 1888 September 9 earthquake 755-756 AD 1889 August 25 lower crust earthquake 758, 759

Gulf of Mesalongi, AD 1882 January 5 mud volcano 747 Gulf of Mudanya, AD 1766 May 22 earthquake and sea wave Gulf of Patras, AD 1804 June 8 earthquake 623 Gulf of Saros AD 1659 February 17 earthquake 493 AD 1730 June 10 earthquake 549 AD 1765 March 20 earthquake 589 AD 1859 August 21 earthquake 695 AD 1860 August 22 earthquake 697 AD 1873 January 13 earthquake 735 AD 1893 February 9 earthquake 765-766 AD 1894 August 16 earthquake 780 AD 1895 March 4 earthquake 781 Gulf of Suez AD 1425 June 23 earthquake 389 AD 1801 October 10 earthquake 622 AD 1879 July 11 earthquake 744 Gulf of Volos, AD 1631 December 6 volcanic ash 480 Gümüşhane, AD 1765 August 20 earthquake 589 Güngörmez, AD 1490 April 23 explosion 406-407 Gush Halav AD 303 April 2 earthquake 140 AD 363 May 19 earthquake 148-151 AD 551 earthquake 202 Gutenberg and Richter scale 824 Güzel, AD 1739 April 4 earthquakes 554-555 Gyra, AD 1704 November 22 earthquake 530-531 Haci Hamza, AD 1668 August 17 earthquake 512-515 Hadath, AD 952 earthquake 253 Hagbat, AD 1047 earthquake 267 Hagia Sophia, Istanbul AD 362 December 2 earthquake 147-148 AD 740 October 26 earthquake 227 AD 869 January 9 earthquake 246 AD 989 October 26 earthquake 256-257 AD 1346 May 19 collapse 371-372 AD 1509 September 10 earthquake 422-433 AD 1556 May 10 earthquake 454–455 AD 1754 September 2 earthquake 577-579, 578 Haifa AD 1879 May 19 earthquake 744 AD 1898 March 19 earthquake 789 Hajar-Shaghlan fortress, AD 1269 earthquake 348-349 AD 1503 earthquake 416 AD 1899 earthquakes 790, 791 Hali, AD 1742 February 21 earthquake 558-559 Halicarnassus, AD c.46-47 earthquake 113-114 Halki, AD 1856 October 12 earthquake 684 AD 1156 earthquakes 300, 301-302

AD 1157 earthquakes 302, 303, 305-311

AD 1170 June 29 earthquake 316-325

AD 1202 May 20 earthquake 327-337

AD 1158 < July 1 earthquake 314

frequency-magnitude distribution 836-837

AD 1766 June 3 earthquake 593

AD 1894 earthquakes 774-779, 780

AD 1878 earthquakes 743

Gulf of Izmit

Gulf of Edremit, AD 1865 July 22 earthquake 710

Gulf of Iskenderun, AD 566 October 5 earthquake 213

Gulf of Itea, AD 1870 August 1 earthquake 725–726



Index 921

AD 1354 October 28 earthquake 375 AD 1626 January 21 earthquake 478 AD 1822 August 13 earthquake 633-635 Hamat AD 1157 October 30 earthquake 312 AD 1759 October 30 earthquake 583 Hamidili, AD 1556 earthquake 456 Hamit see Diyarbakir Hamus, AD 1269 earthquake 348-349 Handax see Candia Hania see Chania Haran, AD 1114 November 29 earthquake 285-291 Harim AD 1138 October 11 earthquake 295–296 AD 1726 April 15 earthquake 547 AD 1822 August 13 earthquake 633-635 Harithiya, AD 1837 January 1 earthquake 647 Harmancik, AD 1893 April earthquake 768 Harput AD 1886 January 30 earthquake 751 AD 1891 September 30 earthquake 763 AD 1896 April 26 earthquake 785 Hasankale, AD 1877 June 14 earthquake 743 Hasaya, AD 1759 November 25 earthquake 584-586 Hasbaiya, AD 1759 November 25 earthquake 584-586 Haskoy, AD 1752 July 29 earthquake 574-576 AD 1151 September 27 earthquake 297–298 AD 1202 May 20 earthquake 327-337 Havsa, AD 1752 July 29 earthquake 574–576 Haymana, AD 1887 June 4 earthquake 753 hazard xii Hebron AD 1033 December 5 earthquake 261 AD 1119 collapse in Khalil caves 292 AD 1458 November 16 earthquake 396–397 AD 1546 January 14 earthquake and storm 444-451 Hejaz, AD 1068 March 18 earthquake 272-276 Helenoupolis, AD 478 September 24 earthquake 174-176 Helice, 373 BC earthquake 86–88 Heliopolis, AD >51 spurious earthquake 114–115 Hellenic Arc c.227 BC earthquake 91-92 c.198 BC earthquake 92-93 AD 53 earthquake 115-116 AD 365 July 21 earthquake and sea wave 151-156 AD 796 April lower crust earthquake 238 AD 881 earthquake 247 AD 1303 August 8 lower crust earthquake 355-362 AD 1353 October 16 earthquake 372 AD 1481 March 18 lower crust earthquake 399-400 AD 1490 November 1 earthquake 407

AD 1613 March earthquake 475 AD 1629 February earthquake and sea wave 478-479 AD 1717 earthquake 542 AD 1769 December earthquake 603 AD 1790 May 26 earthquake 616 AD 1805 July 3 earthquake 623 AD 1810 intermediate-depth earthquakes 625-627 AD 1815 November 29 damaging earthquake 629 AD 1846 March 28 earthquake 660-661 AD 1856 October 12 subcrustal earthquake 683-685 AD 1862 June 21 earthquake 706 AD 1863 April 22 lower crust earthquake 706–708 AD 1887 July 17 intermediate depth earthquake Hellenic Trench convergence rate 818 subduction 815, 816, 818 Hellespont c.360 BC earthquake 88 287 BC earthquake 89 AD 93 earthquake 120 AD 123 November 10 earthquake 126 < AD 160 earthquake 132–133 AD 447 January 26 earthquake 165–168 AD 460 April 7 earthquake 172 AD 484 earthquake 176-177 AD 543 September 6 earthquake 197 Hendek, AD 1794 August 5 earthquake 621 Heraclea Pontica, c.360 BC earthquake 88 Heraklion see Candia; Iraklion Herculaneum, AD 62 February 5 earthquake 117 Hermus River, AD 1880 July 29 earthquake 744-745 Herzegnovi AD 1631 earthquakes 480 AD 1667 April 6 major earthquake 502-511 AD 1844 January 14 earthquake 657 Heshat, AD 1405 earthquake 383 Hiera 199–198 BC eruption 113 AD 726 March eruption 226 AD 1457 spurious earthquake 396 Hierapolis AD 138–161 earthquake 127–128 AD 200-299 earthquake 135 AD 494 earthquake 177 Hiesuvank monastery, AD 1114 November 29 earthquake 284-291 Hikal, AD 1742 February 21 earthquake 558-559 Himara, AD 1859 earthquakes 696 Himare, AD 1896 April 11 earthquake 784 Hims AD 847 November 24 earthquake 242 AD 1157 earthquakes 303, 305, 309-311 AD 1202 May 20 earthquake 327-337 AD 1287 March 8 earthquake 351 AD 1354 October 28 earthquake 375 Hisar, AD 1739 April 4 earthquake 554-555

AD 1500 July 24 earthquake 415 AD 1508 May 29 earthquake 417–422

AD 1592 May earthquake 469

AD 1513 March 28 earthquake 434



> 922 Index

Hisn al Akrad AD 1157 August 12 earthquake 305, 307 AD 1170 June 29 earthquake 316-325 see also al-Karak; Krak fortress Hizan, AD 1626 earthquake 478 Holy Land, AD 1546 January 14 earthquake and sea wave 9, 444-451 Holy Sepulchre 11 AD 33 Crucifixion earthquake 110 AD 1458 November 16 earthquake 396-397 AD 1546 January 14 earthquake and storm 444-451, 448, AD 1834 May 26 earthquake 642 Homs see Hims Honaz, AD 1651 June 7 earthquake 491 Honorias, AD 967 September 2 earthquake 254 Hora, AD 1766 August 5 earthquake 595–596 Hosap River Valley, AD 1646 April 7 earthquake 486 Hudavendigar, AD 1855 February 28 earthquake 677-679 Hulwan, AD 1149 December 29 earthquake 297 AD 1443-1444 earthquake 392 AD 1661 March 20 earthquake 494-496 Hunin

AD 1202 May 20 earthquake 327-337 AD 1837 January 1 earthquake 645 Hydaspes, <327 BC earthquake 89 Hydra

AD 1457 spurious earthquake 396 AD 1769 June 27 earthquake 601–602 AD 1837 March earthquakes 649-650

Iannina

AD 1740 Jan, 24 earthquake 555 AD 1743 February 20 earthquake 562-569 AD 1807 February earthquake 624 AD 1808 February earthquake 624 AD 1809 earthquakes 625 AD 1810 earthquakes 627 AD 1811 earthquakes 627 AD 1812-15 earthquakes 628-629 AD 1838 August 9 earthquake 650 AD 1853 February 14 earthquake 673 AD 1857 earthquakes 686, 687, 688 AD 1858 earthquakes 688, 689, 690, 691, 692 AD 1859 earthquakes 692, 693, 696 AD 1860 earthquakes 696, 697, 698 AD 1866 earthquakes 715, 716 AD 1867 January 27 earthquake 716

AD 1882 July 8 earthquake 748 AD 1888 July 25 earthquake 755 AD 1889 November 17 earthquake 760 AD 1892 September 4 earthquake 764 AD 1894 earthquakes 773, 780

AD 1895 September 5 spurious earthquake 782

AD 1898 July 31 earthquake 790 Ibora, AD 529 eathquake 193-195

Iconium, AD 1212 June 22 earthquake 338 Ierapetra, AD 1779 December 6 earthquake 608-609 Igdir, AD 1840 July 2 catastrophic earthquake 652-653 Ihtiman

AD 1866 November 6 earthquake 715 AD 1890 June 7 earthquake 761 AD 1892 December 7 earthquake 765 AD 1895 August 23 earthquake 782 Ikaria, AD 1389 March 20 earthquake 378-379 Ildir, AD 1884 November 12 earthquake 750

Ilgaz, AD 1896 February 12 earthquake 784 Ilgin, AD 1891 November earthquake 764 Illvria

AD 548 February? earthquake 198-199, 206 AD 1453 earthquake 394

Imrest, AD 1661 March 20 earthquake 494-496 Imroz, AD 1859 August 21 earthquake 695

Indus Gorge 51, 52, 53

Ineabad, AD 1884 November 30 earthquake 750 Inebolu, AD 1865 November 6 earthquake 711

AD 1893 February earthquake 766 AD 1895 July earthquakes 782 Ingelters, AD 1661 March 20 earthquake 494–496

Inonü, AD 1895 July 10 earthquake 782

inscriptions 2

Ionia

305–303 BC earthquake 89 AD c.46-47 earthquake 113-114 AD 465 July 6 earthquake 173 Ionian Islands

AD 1469 earthquake 397 AD 1580 earthquake 465 AD 1630 July 4 earthquake 479 AD 1638 March 27 earthquake 484 AD 1672 November earthquakes 516 AD 1693 January 11 earthquake 525

AD 1696 September 4 earthquake 528 AD 1714 July 29 earthquakes 539

AD 1714 September 3 earthquake 540 AD 1720 September 12 earthquake 545 AD 1723 February 20 earthquake 546 AD 1741 June 23 earthquake 557-558 AD 1742 February 25 earthquake 559-562

AD 1743 February 20 earthquake 562-569

timber-frame construction 43, 45 Ionian Sea, AD 1897 earthquakes 787, 788

AD 1752 July 29 earthquake 574–576 AD 1895 April 15 earthquake 781 Iraklion

AD 1662 earthquake 498

AD 1664 November 20 earthquake 499 AD 1673 earthquake and fire 517 AD 1681 January 1 earthquake 520

AD 1748 earthquake 571

AD 1761 December 28 earthquake 587



AD 1769 December earthquake 603	AD 1494 January 6 earthquake 413
AD 1807 March 17 earthquake 624	AD 1498 November 5 earthquake 415
AD 1810 February 16 earthquake 625–627	AD 1500 earthquake 415
AD 1817 August 3 earthquake 629	AD 1505 earthquakes 416
AD 1856 October 12 earthquake 683–685	AD 1507 September 10 earthquake 416–417
AD 1887 April 6 earthquake 753	AD 1509 earthquakes 8, 416–417, 422–433, 434
see also Candia, Crete	AD 1510 July 10 earthquake 433
fran	AD 1512 earthquake 434
AD 1149 December 29 earthquake 297	AD 1514 earthquake 436
AD 1941–7 earthquakes and faulting 14–15	AD 1522 March earthquake 437
AD 1972 earthquake 40	AD 1532 October 21 earthquake 439
fraq	AD 1542 June 12 spurious earthquake 9, 440–441
AD 979 earthquakes 256	AD 1554 earthquake 453
AD 1058 December 8 earthquake 268–269	AD 1556 May 10 earthquake 454–455
AD 1135 July 25 earthquake 293–294	AD 1563 earthquake 457
AD 1154–1155 storm and 'blood' from ground 298	AD 1569 December 14 earthquake 460
AD 1156 February earthquake 298	AD 1571 earthquakes 460
AD 1194 earthquake 327	AD 1574 spurious earthquake 461–462
AD 1225 March 4 earthquake 340	AD 1575 July 27 earthquake 462
AD 1226 November 18 earthquake 340	AD 1577 July 17 earthquake 463
AD 1262 earthquake 345	AD 1592 earthquake 469
irbil	AD 1593 earthquake 469
AD 1179 April 29 earthquake 326	AD 1593 July 4 spurious earthquake 469
AD 1714 earthquake 540	AD 1595 September 22 earthquake 469
AD 1893 May 24 storm damage 768–769	AD 1597 February earthquake 471
sakçi, AD 1760 earthquakes 587	AD 1608 earthquakes 473
Isauria, AD 1212 June 22 earthquake 338	AD 1625 May 18 earthquake 477
Işikli, AD 1875 May 3 earthquake 740	AD 1633 July 30 earthquake 481
Iskele, AD 1646 April 7 earthquake 486	AD 1640 August 23 erroneous earthquake 484
(skenderun	AD 1641 May earthquake 484
AD 1738 September 25 earthquake 553	AD 1642 earthquakes 484
AD 1822 August 13 earthquake 634	AD 1644 October 1 earthquake 485
AD 1823 October 16 earthquake 637	AD 1648 June 21 earthquake 487
see also Alexandretta	AD 1656 January 24 earthquake 492
(skilip	AD 1659 February 17 earthquake 493
AD 1884 Lawrence 22 a rath weeks 740	AD 1668 Avgust 17 corthovolve 512, 515
AD 1884 January 23 earthquake 749	AD 1668 August 17 earthquake 512–515
see also Kalecik; Kaluçak	AD 1669 October 26 earthquake 515
Ismailia, AD 1870 June 24 earthquake 724	AD 1689 April 25 earthquake 524
soseismals 57–58	AD 1606 conthquake 524
sparta AD 1844 September 27 earthquake 658	AD 1696 earthquake 528 AD 1697 August 31 earthquake 528
AD 1844 September 27 earthquake 638 AD 1851 May 18 earthquake 669	AD 1697 August 31 earthquake 528 AD 1698–1699 earthquake 528
AD 1857 November 16 earthquake 687	AD 1700 March 30 earthquake 528
AD 1861 September 5 earthquake 699	AD 1700 March 30 earthquake 328 AD 1708 earthquake 536
AD 1874 January 4 earthquake 736	AD 1708 cartiquake 538
AD 1876 February 16 earthquake 741	AD 1711 earthquake 538 AD 1712 March 25 earthquake 538
AD 1888 September 5 earthquake 755	AD 1712 March 25 Cartinquake 533 AD 1715 May 14 earthquake 541
AD 1889 earthquakes 757, 758	AD 1713 May 14 earthquake 541 AD 1719 earthquakes 543–545
AD 1890 May 14 earthquake 761	AD 1719 Cartinquakes 545–545 AD 1720 June 22 earthquake 545
(sperikh, AD 1892 October 14 earthquake 764	AD 1720 Julie 22 earthquake 545 AD 1721 April 26 earthquake 545
(spir, AD 1766 October 9 earthquake 597	AD 1721 April 20 cartinquake 543 AD 1723 earthquakes 547
stanbul	AD 1725 cartiquakes 547 AD 1724 May earthquake 547
AD 1486 earthquake 405	AD 1724 May earthquake 547 AD 1725 July-August earthquake 547
AD 1480 earthquake 405–406	AD 1723 July-August earthquake 547 AD 1727 October earthquake 547
AD 1489 January 16 earthquake 406	AD 1727 October earthquake 547 AD 1728 November earthquake 548
AD 1499 April 23 explosion 406–407	AD 1729 February earthquake 548
110 1400 14111 25 CAPIOSION 400-40/	110 1/2/1 Columny Cartifulace 340



924 Index

AD 1853 December 7 earthquake 675 Istanbul (cont.) AD 1736 earthquakes 552 AD 1854 earthquakes 676 AD 1737 earthquakes 552, 553 AD 1855 earthquakes 677, 680, 682 AD 1739 April 4 earthquake 554-555 AD 1857 earthquakes 686, 687 AD 1741 earthquakes 557 AD 1858 earthquakes 689 AD 1744 earthquakes 570 AD 1859 earthquakes 692, 696 AD 1745 June 1 earthquake 570 AD 1862 October 7 earthquake 706 AD 1747 December earthquake 570 AD 1866 June 22 earthquake 715 AD 1748 July 31 earthquake 572 AD 1870 December 10 earthquake 729 AD 1749 earthquakes 572 AD 1874 earthquakes 738, 739 AD 1877 March 22 earthquake 742 AD 1751 earthquakes and sea wave 573-574 AD 1752 earthquakes 574-576 AD 1880 November 5 earthquake 745 AD 1883 July 6 earthquake 748 AD 1753 March 15 and, 19 earthquakes 576 AD 1754 September earthquakes 577-579, 578, 580 AD 1884 March 14 earthquake 750 AD 1887 September 10 earthquake 754 AD 1755 earthquakes 580, 581 AD 1756 earthquakes 581-582, 582 AD 1889 earthquakes 758, 760 AD 1758 December 3 earthquake 582 AD 1894 July earthquakes 774-779 AD 1760 August 13 earthquake 586 Istanos, AD 1888 October 28 earthquake 756 Italy, AD 1810 February 16 earthquake 625-627 AD 1763 earthquakes 588 AD 1764 earthquakes 588 Itea AD 1766 earthquakes 590-593, 595-597 AD 1861 December 26 earthquake and sea wave 701, 704 AD 1767 earthquakes 597-598, 600 AD 1870 earthquakes 725, 726, 729 AD 1768 earthquakes 601 Ithaca, AD 1825 September 25 earthquake 639 AD 1769 earthquakes 601, 602 Ithaki, AD 1630 July 4 earthquake 479 AD 1770 earthquakes 604 AD 1771 earthquakes 604 AD 1653 February 22 earthquake 491-492 AD 1772 April 30 earthquake 605 AD 1654 May 20 earthquake 492 AD 1664 June 2 earthquake 498–499 AD 1774 August 5 earthquake 605 AD 1776 earthquakes 606 AD 1667 November earthquake 511 AD 1674 January 23 earthquake 517 AD 1778 earthquakes 607 AD 1779 April 16 earthquake 608 AD 1676 November 29 earthquake 518 AD 1783 May earthquakes 612 AD 1678 June 13 earthquake 519 AD 1679 July earthquake 519 AD 1790 earthquakes 616 AD 1791 March earthquakes 616 AD 1680 February earthquake 520 AD 1792 January 20 earthquake 620 AD 1682 July 16 earthquake 521 AD 1793 June earthquakes 620 AD 1687 November 11 earthquake 522 AD 1795 April 29 earthquake 621 AD 1688 earthquakes 522-524 AD 1690 January 13 earthquake 524 AD 1800 September 26 earthquake 622 AD 1803 earthquakes 623 AD 1694 March 5 earthquake 525 AD 1805 November 2 earthquake 624 AD 1702 February 25 earthquake 529 AD 1811 May 19 earthquake 627 AD 1705 earthquake 533 AD 1818 earthquake 630 AD 1706 earthquakes 534 AD 1708 earthquake 536 AD 1819 August 5 earthquake 631 AD 1823 earthquakes 636, 637 AD 1713 earthquake 539 AD 1825 earthquakes 638, 639 AD 1716 earthquake 541 AD 1829 May 23 earthquake 641 AD 1717 July 1 earthquake 542 AD 1718 earthquake 543 AD 1833 February 24 earthquake 642 AD 1834 September 25 earthquake 643 AD 1719 May 25 major earthquake 543-545 AD 1835 earthquakes 643, 644 AD 1723 September earthquake 547 AD 1838 earthquakes 650 AD 1728 September 16 earthquake 548 AD 1732 May 11 earthquake 549 AD 1841 earthquakes 653, 654 AD c.1738 earthquakes 554 AD 1842 January 12 earthquake 654 AD 1739 April 4 earthquake 554-555 AD 1843 November 15 earthquake 657 AD 1743 November 7 earthquake 570 AD 1845, October 26 earthquake 660 AD 1745 March 18 earthquake 570 AD 1846 November 29 earthquake 662 AD 1847 earthquakes 662 AD 1754 July earthquake 577 AD 1850 July 10 earthquake 668 AD 1763 January 13 earthquake 588

AD 1765 July 11 earthquake 589

AD 1851 August 23 earthquake 670



AD 1766 May 22 earthquake 590–593	AD 1157 August 12 earthquake 306
AD 1771 earthquakes 604	AD 1158 October-1159 September earthquake 314
AD 1778 earthquakes 606–607	AD 1170 June 29 earthquake 318–325
AD 1779 earthquakes 608	AD 1408 December 29 earthquake 384–385
AD 1798 earthquakes 622	Jaffa
AD 1817 October 31 earthquake 630	AD 1491 April 24 earthquake 407–411
AD 1825 June 7 aftershocks 638	AD 1546 January 14 earthquake 444–451
AD 1828 June 15 earthquake 640	AD 1834 May 26 earthquake 643
AD 1829 earthquakes 640, 641	AD 1837 January earthquakes 647, 649
AD 1830 May 19 earthquake 641	AD 1873 earthquakes 735
AD 1835 April 29 earthquake 643	Jebel Akra, AD 1408 December 29 earthquake
AD 1836 August 8 earthquake 645	384–385
AD 1837 November 25 earthquake 650	Jericho Jericho
AD 1839 October 22 earthquake 651	1400 BC earthquake 10–11, 65–67
AD 1840 earthquakes 651, 653	AD 659 June 7 earthquake 221–222
AD 1842 earthquakes 655	AD 1033 December 5 earthquake 261–264
	Jericho fault 11, 69
AD 1844 certhquakes 655, 656	Jerusalem
AD 1844 earthquakes 658	
AD 1846 carth quakes 659	c.759 BC earthquake 68–78 31 BC September 2, earthquake 99
AD 1846 earthquakes 661, 662	• • •
AD 1847 earthquakes 662, 664	AD 33 crucifixion earthquake 11, 109–111
AD 1848 earthquakes 665	AD 418 corthorollo 162
AD 1849 earthquakes 665, 666	AD 418 earthquake 162
AD 1850 earthquakes 666, 667	AD 634 earthquake 219–220
AD 1851 December 10 earthquake 671	AD 1016 August 27 destruction of Mosque of the Rock
AD 1852 earthquakes 671, 672, 673	259–260
AD 1853 earthquakes 673, 675	AD 1033 December 5 earthquake 261–264
AD 1854 earthquakes 676, 677	AD 1068 March 18 earthquake 272–276
AD 1855 earthquakes 681, 682	AD 1105 December 24 earthquake 280–281
AD 1856 February 16 earthquake 683	AD 1113 July 18 and August 9 earthquake 282
AD 1857 earthquakes 686, 687	AD 1114 April-May earthquake 282
AD 1858 earthquakes 689, 691	AD 1117 June 26 earthquake 291
AD 1861 October 4 earthquake 699	AD 1458 November 16 earthquake 396–397
AD 1863 August 29 earthquake 708	AD 1504 earthquake 416
AD 1865 earthquakes 710	AD 1546 January 14 earthquake 9, 444–451
AD 1867 March earthquakes 717, 718	AD 1557 February earthquake 456
AD 1871 November 7 earthquake 731	AD 1643 March 23 earthquake 485
AD 1879 September 14 earthquake 744	AD 1644 earthquake 485
AD 1880 July earthquakes 744–745	AD 1753 December 16 earthquake 577
AD 1885 May 26 earthquake 751	AD 1817 March earthquake 629
AD 1889 earthquakes 757, 758, 760	AD 1834 May 26 earthquake 642–643
AD 1890 January 4 earthquake 761	AD 1843 May 12 earthquake 656
AD 1899 earthquakes 791	AD 1844–1845 earthquakes 658
see also Smyrna	AD 1857 September 21 earthquake 687
Izmit	AD 1859 October 24 earthquake 696
AD 1894 July earthquakes 774–779	AD 1863 September 24 earthquake 708
AD 1895 February 5 earthquake 781	AD 1864 earthquakes 708, 709
see also Nicomedea	AD 1868 earthquakes 719, 721
Iznik	AD 1873 earthquakes 735
AD 1754 September 2 earthquake 578	AD 1874 March 3 earthquake 737
AD 1854 December 29 earthquake 677	AD 1875 March 28 earthquake 739
AD 1893 March 3 earthquake 767	AD 1877 earthquakes 742
AD 1896 October 25 earthquake 786	AD 1879 December 31 earthquake 744
see also Nicaea	AD 1885 March 13 earthquake 750
	AD 1889 December 11 earthquake 760
Jabal Sinjar, AD 1693–1694 landslide 525	AD 1893 January 12 earthquake 765
Jabalah	Jiunkert, AD 601 April 2 earthquake 217
AD 860 January 243–244	Jordan, AD c.110-114 earthquake 122



> 926 Index

Jordan Rift Valley AD 746–749 January 18 earthquakes 230–238 AD 1202 May 20 earthquake 327-337 Jordan River, AD 1267 December 8 landslide and damming Joun, AD 1759 November 25 earthquake 584–586 Jubail, AD 1170 June 29 earthquake 318–325 Judaea c.759 BC earthquake 68-78 31 BC earthquake 98–102 AD 1838 earthquake 650-651 Jula, AD 1406 November 29 earthquake 384 Jum AD 1726 April 15 earthquake 547 AD 1822 August 13 earthquake 633–635 Jund Filistin, AD 1033 December 5 earthquake 262 Kadişdiran, AD 1766 May 22 earthquake 591 Kafr Hatta, AD 1759 November 25 earthquake 584-586

Kafr-bia, AD 757 earthquake 238 Kafr-tab AD 1156 December 8 earthquakes 301-302 AD 1157 earthquakes 303-311 Kagizman, AD 1840 July 2 earthquake 652–653 Kakhk, AD 1968 August 31 earthquake 38 Kakhta castle, AD 1344 January 3 earthquake 370 Kalabaka, AD 1661 January 16 earthquake 494 Kalamata AD 1681 January 1 earthquake 520

AD <1684 September 26 earthquake 521 AD 1805 April 18 earthquake 623 AD 1838 November 18 earthquake 650 AD 1842 earthquakes 655 AD 1846 June 10 earthquakes 661 AD 1885 March 28 earthquake 750 AD 1887 March 5 earthquake 752-753 Kalavrita, AD 1805 May 29 earthquake 623 Kalecik AD 1838 December 5 earthquake 650

AD 1889 March 12 earthquake 757 Kalimnos, AD 1495 January 5 earthquake 414 Kalofer, AD 1849 February 23 earthquake 665 Kaluçak

AD 1884 earthquakes 749 see also Iskilip; Kalecik

Kanakert, AD 1679 June 14 earthquake 519 Kangal, AD 1754 September earthquake 579–580

AD 1768 August earthquake 601 Karabel, AD 1680 February earthquake 520 Karabunar, AD 1892 April 16 earthquake 764 Karaburun

AD 1694 June earthquake 525-527

AD 1875 November 5 earthquake 741 AD 1887 June 18 earthquake 753 Karahisar, AD 1876 May 13 earthquake 741–742

Karakorum Highway 46, 50, 51, 52, 53

Karaköse, AD 1866 May 8 earthquake 712 Karakurt, AD 1875 January 12 earthquake 739 Karaman

AD 1882 February 28 earthquake 747 AD 1895 November 23 earthquake 783

Karamursel, AD 1719 May 25 major earthquake 543-545

Karanid, AD 1769 June 27 earthquake 601-602 Karaphos, AD 1646 April 7 earthquake 486 Karaurgan, AD 1766 October 9 earthquake 597 Karavasaras Bay AD 1847 November mud eruption 664

AD 1875 February mud eruption 739 Karbi, AD 1679 June 14 earthquake 519 Kardik, AD 1544 April 24 earthquake 441-444 Karditsa, AD 1843 March 9 earthquake 655 Karkar castle, AD 1344 January 3 earthquake 370

Karliova, AD 1856 earthquake 686 Karma, AD 1855 July 3 earthquake 681 Karnak, AD 1899 earthquake 792

Karpathos

AD 1856 October 12 earthquake 684 AD 1882 May 17 earthquake 748 AD 1890 August 19 earthquake 762

Kars

AD 1707 earthquake 535 AD 1888 September 23 earthquake 756

AD 1889 September 23 earthquake 758 Karsk, AD 1868 April 11 earthquake 720 Kartal, AD 1871 January 31 earthquake 730 Kasos, AD 1851 September 11 earthquake 670

Kastamonu

AD 1418-1419 earthquake 387

AD 1668 August 17 earthquake 512-515 AD 1890 June 19 earthquake 761 AD 1896 July 19 earthquake 786

AD 1897 earthquakes 787, 788 AD 1899 February 4 earthquake 791

Kastoria

AD 1709 earthquake 537 AD 1812 May 29 earthquake 628

AD 1896 June 21 earthquake 785 Kastri, AD 1870 earthquakes 725, 729

Kastro, AD 1704 November 22 earthquake 530-531

Katerini, AD 1889 earthquakes 757, 758 Katomeria, Chios, AD 1546 earthquake 452

AD 1630 July 4 earthquake 479 AD 1824 February 22 earthquake 637

Kaukaba, AD 1759 November 25 earthquake 584-586

AD 1713 February earthquake 538 AD 1829 earthquakes 640 AD 1869 earthquakes 721, 723 AD 1870 earthquakes 723, 724 AD 1871 earthquakes 730, 731 AD 1872 earthquakes 732, 734 Kayi, AD 1890 May 26 landslide 761



> 927 Index

Kayseri	Khabura
AD 1205 spurious earthquake 337	AD 747–749 earthquake 233, 234
AD 1335 earthquake 366	AD 750 earthquake 238
AD 1704 June 9 earthquake 530	Khaibar, AD 1068 March 18 earthquake 272, 273
AD 1717 May 9 earthquake 541–542	Khalki
AD 1832 March 14 earthquake 641	AD 1843 earthquakes 656, 657
AD 1835 August 13 earthquake 643–644	AD 1851 earthquake 669
AD 1836 February 10 earthquake 644	Kharput, AD 1884 earthquakes 750
AD 1895 April 8 earthquake 781	Khaskovo, AD 1487 earthquakes 405
Kazili, AD 1719 May 25 major earthquake 543–545	Khirbet al-Karak, AD 746–9 earthquake 233, 235
Keban, AD 1839 earthquake 651	Khorassan
Kefalonia	AD 763 January 18 earthquake 230
AD 1469 earthquake 397	AD 1968 August 31 earthquake 19, 20, 21
AD 1559 September 12 earthquake 456	Khotakerits Monastery, AD 906–910 earthquake 250
AD 1630 July 4 earthquake 479	Khoy
AD 1636 September 30 earthquake 481–483	AD 1843 April 18 earthquake 655–656
AD 1638 earthquakes 484	AD 1857 November 19 earthquake 687
AD 1658 August 12 earthquake 492–493	AD 1859 April 11 earthquake 693
AD 1661 earthquake 496	Kibotos, AD 1865 May 13 earthquake 710
AD 1668? earthquake 515	Kiği
AD 1673 earthquake 517	AD 1457 April 23 earthquake 395–396
AD 1693 January 11 earthquake 525	AD 1482 November earthquake 405
AD 1704 November 22 earthquake 530–531	AD 1879 earthquake 744
AD 1714 earthquakes 539, 540	AD 1896 April 20 earthquake 784
AD 1723 February earthquakes 546–547	Kilis
AD 1729 February 2 earthquake 548	AD 1807 earthquake 624
AD 1736 earthquake 552	AD 1822 August earthquakes 633–635
AD 1741 June 23 earthquake 557–558	Kiliseköy, AD 1739 April 4 earthquake 554–555
AD 1743 February 20 earthquake 562–569	Kilkis, AD 1869 November 19 earthquake 722
AD 1759 June earthquakes 582	kiln bricks 45
AD 1765 July 11 earthquake 589	Kinneret, AD 746–9 surface faulting 235
AD 1766 July 22 earthquake and wind 593–595	Kira, AD 1870 August 1 earthquake 725
AD 1767 earthquakes 598–600	Kiran, AD 1898 April 22 earthquake 789
AD 1769 October 12 earthquake 602	Kirkuk
AD 1783 March 20 earthquake 611	AD 629 earthquake 219
AD 1818 earthquake 630	AD 1862 November 7 earthquake 706
AD 1820 December 29 earthquake 632	AD 1884 October 27 earthquake 750
AD 1834 June 5 earthquake 643	AD 1895 October 26 earthquake 783
AD 1839 June 5 earthquake 651	Kirmasti, AD 1884 May 13 earthquakes 750
AD 1867 earthquakes 716–717	Kithyra
AD 1868 February 14 earthquake 719	AD 1629 February earthquake and sea wave
Kefalou, AD 1493 October 18 earthquake 411–413	478–479
Kemakh	AD 1638 March 27 earthquake 484
AD 1121 December 18 earthquake 292	AD 1681 January 1 earthquake 520
AD 1605 earthquake 473	AD 1750 earthquakes 572–573
see also Ani	AD 1798 June 18 earthquake 622
Kemalpaşa	AD 1866 February 6 earthquake 711–712
AD 1850 April 3 earthquake 666–667	AD 1867 September 20 earthquake and sea wave 719
AD 1850 April 20 aftershock 667	Kizilasari, AD 1653 February 22 earthquake 491–492
Kerme, AD 1869 December 1 earthquake 722	Kizocan, AD 1784 July 18 earthquake 613–615
Kerpen, AD 1856 February 22 earthquake 683	Kjustendil
Kesendire, AD 1871 earthquakes 731	AD 1585 collapse of minaret 467
Keskin	AD 1641 May 23 earthquake 484
AD 1837 March 14 earthquake 649	AD 1866 earthquakes 712, 716
AD 1893 October 16 earthquake 770	AD 1870 earthquake 723, 729
Kesrawan, AD 1759 November 25 earthquake	Klos, AD 1865 October 10 earthquake 710
584–586	Knights Hospitaller 328, 331, 356, 378–379



928 Index

Knights of Malta, Rhodes	Krak fortress
AD 1366 April 30 earthquake 376	AD 1202 May 20 earthquake 327, 331
AD 1493 October earthquake 412	AD 1293 January earthquake 353
AD 1495 January 5 earthquake 414	see also al-Karak; Hisn al Akrad
Knights Templar 328, 331	Kraljevo, AD 1609 earthquake 474
Koca Valley, AD 1851 February 28 earthquake	Kriekuki, AD 1852 February 25 earthquake 671
668–669	kriging 58, 767
Kocaeli, AD 1999 earthquake 36	Krivolak, AD 1888 December 15 earthquake 757
Kochişar, AD 1668 August 17 earthquake 512–515	Kruje
Koçkiri, AD 1899 November 29 earthquake 795	AD 1892 January earthquake 764
Kodzadzik, AD 1567 earthquake 459	AD 1894 August 8 earthquake 780
Kolarograd, AD 1832 April 7 earthquake 641	AD 1896 July 4 earthquake 786
Kometzi, AD 1835 August 13 earthquake 643–644	Krysoupolis, AD 1829 April 11 earthquake 640
Konitsa, AD 1860 April earthquakes 697	Ksyut, AD 713 February 28 earthquake 224–225
Konya	Kufa, Iraq, AD 912 May earthquake 250
AD 1706 December 26 earthquake 534	Kuhbanan fault 17, 18
AD 1866 earthquakes 715	Kukhiyan, AD 1866 earthquakes 715
AD 1868 February 22 earthquake 720	Kula
AD 1875 October 31 earthquake 741	AD 1651 June 7 earthquake 491
AD 1889 December earthquake 761	AD 1891 September 24 earthquake 763
AD 1890 July 7 earthquake 761	Kulashk, AD 1742 February 21 earthquake 558–559
Koraku bridge, Pindos, AD 1514 earthquake	Kulp
436	AD 1819 January 29 earthquake 631
Korçe	AD 1840 July 2 catastrophic earthquake 652–653
AD 1893 July 4 earthquake 770	AD 1849 September 9 earthquake and landslide 666
AD 1894 earthquakes 770, 771, 773	AD 1866 earthquakes 715
AD 1896 earthquakes 784, 785	Kumanovo, AD 1456 earthquake 395
AD 1897 January 18 earthquake 787	Kumburgaz, AD 1766 May 22 earthquake 591
Koroni	Kumköy, AD 1836 April earthquake 644
AD 1642 May 30 earthquake 484	Kurdistan
AD 1717 earthquake 542	AD 1135 July 25 earthquake 293–294
AD <1736 June earthquake 552	AD 1156 February earthquake 298
AD 1842 April 18 earthquake 654–655	AD 1311 earthquakes 363
Kösk, AD 1653 February 22 earthquake 491–492	Kurdlar Serayi, AD 1582 February earthquake 465
Kosovo	Küre copper mines, AD 1660 October earthquake 494
AD 1882 April 2 earthquake 748	Kursunlu, AD 1897 May 27 earthquake 787
AD 1889 December earthquake 761	Kurta, AD 1742 February 21 earthquake 558–559
AD 1893 October 24 earthquake 770	Kuruçeşme, AD 1858 February 8 earthquake 688
AD 1894 July earthquakes 779	Kurulush, AD 1893 June 14 earthquake 769
Kossimos River, AD 1864 June 14 earthquake	Kuşadasi
709	AD 1751 June 18 earthquake 573
Kostenice, AD 1891 May 25 earthquake 763	AD 1865 October 11 earthquake 710
Kotor	AD 1876 August 10 earthquake 742
AD 1608 August 4 earthquake 473	AD 1887 November 29 earthquake 755
AD 1610 earthquakes 474	AD 1888 December 1 earthquake 756
AD 1631 earthquakes 480	AD 1890 December 14 earthquake 762
AD 1667 April 6 major earthquake 500–511	Kütahya, AD 1860 December 2 earthquake 698
AD 1669 earthquake 515	Kutuz, AD 1742 February 21 earthquake 558–559
AD 1780 earthquakes and sea wave 609–610	Küyüçak
AD 1853 December 11 earthquake 675	AD 1645 landslide 485
AD 1853 July 25 earthquake 674	AD 1653 February 22 earthquake 491–492
see also Cattaro	Kynegos, AD 1437 November 25 earthquake 391
Kourbatsi, AD 1852 September 5 earthquake 673	Kyparisia
Koutloumousios monastery	AD 1875 April 24 earthquake 740
AD 1564 August 12 earthquake 457	AD 1898 November 9 earthquake 790

AD 1572 April 12 earthquake 461

Kozani, AD 1695 September 26 earthquake 527

AD 1899 January 22 earthquake and sea wave 790-791

Kythira see Kithyra



Labechniski monastery, AD 1283 April 17 earthquake	AD 1870 August 1 earthquake 726
350–351	AD 1883 March 5 earthquake 748
Labweh, AD 1759 November 25 earthquake 584	Larymna, <229 BC abnormal ebb tide 91
Laconia, AD 1539 April 1 earthquake 440	Lasdaika, AD 1894 July 26 earthquake 780
Ladik, AD 1710 February earthquake 537	Lasjene, AD 1897 February 15 earthquake 787
Ladiqiya	Latakia
AD 1063 August earthquake 269–270	AD 860 January 243–244
AD 1491 April 24 earthquake 407–411	AD 1114 November 29 earthquake 284–291
Lake Abuliont, AD 1850 April 19 earthquake 667	AD 1157 August 12 earthquake 305, 307
Lake Amik, AD 1872 April 3 earthquake 732–734	AD 1287 March 21 earthquake 351–352
Lake Apolyont, AD 1855 February 28 earthquake 677–679	AD 1408 December 29 earthquake 384–385
Lake Bisthonis, <ad 1="" 105<="" earthquake="" td=""><td>AD 1568 October 10 earthquake 459–460</td></ad>	AD 1568 October 10 earthquake 459–460
Lake Galilee, 31 BC earthquake 101	AD 1796 April 26 earthquake 621
Lake Gölcük	AD 1810 February 16 earthquake 625–627
AD 1874 May 3 earthquake 737–738	AD 1811 earthquakes 627
AD 1875 March 27 earthquake 739	AD 1822 August 13 earthquake 634
Lake Iznik, AD 1854 December 29 earthquake 677	AD 1823 October 16 earthquake 637
Lake Suğla, AD 1890 August 7 earthquake 762	AD 1893 March earthquake 768
Lake Tiberias	Laura St Saba monastery, AD 1605 January 8 earthquake 472
AD 1033 December 5 earthquake 262	Lebanon
AD 1837 January 1 earthquake 646, 647, 648	139 BC sea wave 95
Lake Tinnis 181	AD 455 September earthquake 168
Lake Van	AD 551 July 9 earthquake and sea wave 199–203
AD 1111 earthquake? and meteorite fall 281	AD 565 June spurious earthquake 212
AD 1208 February 14 earthquake 337	AD 991 April 5 earthquake 257–258
AD 1246 earthquake 342	AD 1476 October 29 earthquake 398
AD 1415 March 13–1416 February 29 earthquake 386	AD 1604 earthquake 472
AD 1441 Nemrut Dagi volcano eruption 391–392	Lefkas
AD 1646 April 7 earthquake 486–487	AD 1469 earthquake 397
AD 1881 May 30 earthquake 747	AD 1515 April 6 earthquake 436
AD 1891 February 6 earthquake 762	AD <1577 earthquake 463
AD 1896 February 3 earthquake 783	AD 1611 earthquakes 474–475
Lake Yliki, AD 1853 August 18 earthquake 674–675	AD 1613 October 2 earthquake 476
Lales Bay, AD 1852 April 26 earthquake 672	AD 1625 June 18 earthquake 477–478
Lamia, AD 1740 October 5 earthquake 555	AD 1630 July 4 earthquake 479
landslides 49–52, 53, 54	AD 1669 August 5 earthquake 515
Laodicea	AD 1704 November 22 earthquake 530–531
27–24 BC earthquake 102–103	AD 1722 June 5 earthquakes 545–546
AD 6–13 earthquake 105	AD 1723 February earthquakes 546
AD c.60 earthquake 117	AD 1741 June 23 earthquake 557–558
AD 138–161 earthquake 127–128	AD 1743 February 20 earthquake 562–569
AD 494 earthquake 177	AD 1762 April 9 earthquake 588
AD 529 January 2 earthquake 189, 190, 192–193	AD 1767 earthquakes 598–600
Lapsacus, AD 484 earthquake 176–177	AD 1769 October 12 earthquake 602
Laranda, AD 1190 June 1 earthquake 326	AD 1770 January earthquake 604
Larisa	AD 1783 earthquakes 610, 611–613
AD 1669 earthquake 515	AD 1815 earthquake 629
AD 1731 earthquake 549	AD 1820 earthquakes 631
AD 1735 August 21 earthquake 552	AD 1825 January earthquakes 637–638
AD 1743 February 21 earthquake 569–570	AD 1869 December 28 earthquake 723
AD 1781 September 8 earthquake 610	AD 1897 November 2 spurious earthquake 788
AD 1859 August 24 earthquake 696	Lefkosia, Cyprus
AD 1883 April 9 earthquake 748	AD 1303 August 8 earthquake 357
AD 1892 January 9 earthquake 764	AD 1470 earthquake 397–398
AD 1893 November 21 earthquake 770	AD 1479 October 16 earthquake 398
Larnaca	AD 1718 < December 12 earthquake 543
AD 1735 April 10–11 destructive earthquake 550–552	see also Nicosia



Lemnos	AD 1812 Dec 29 earthquake 628
AD 1688 September 10 earthquake 524	AD 1853 earthquakes 674–675
AD 1859 August 21 earthquake 695	AD 1870 July 31 earthquake 724
AD 1867 March 7 earthquake 718	Lixouri
Lepanto see Nafpaktos	AD 1658 August 12 earthquake 492–493
Leros, AD 1495 January 5 earthquake 414	AD 1723 February 20 earthquake 546
Lesvos	AD 1741 June 23 earthquake 557–558
AD <79 earthquake 120	AD 1759 June 14 earthquake 582
AD c.155 earthquake 131–132	AD 1766 July 22 destructive earthquake and whirlwind
AD 1383 August 6 earthquake 377–378	593–595
AD 1631 December 6 volcanic ash 480	AD 1767 July 22 earthquake 598–600
AD 1636 February 27 earthquake 481	AD 1834 June 5 earthquake 643
AD 1672 February 14 earthquake 516	AD 1867 earthquakes 716–717
AD 1688 September 10 earthquake 524	Ljubiski
AD 1772 November 24 earthquake 605	AD 1760 May 26 earthquake 586
AD 1845 earthquakes 659–660	AD 1767 earthquake 600
AD 1865 July 22 earthquake 710	Ljuboska castle, AD <1690 June earthquake 524
AD 1867 earthquakes 717–718	local information 14–15
AD 1886 September 4 earthquake 752	Locris, AD 1894 April 20 and 27 earthquake 23
AD 1889 earthquakes 760	Lom, AD 1879 October 22 earthquake 744
Letskhumi, AD 1283 April 17 earthquake 350-351	Lopadium, AD 1327 May 12 earthquake 365
Levant, 92 BC February 28 spurious earthquake 96	Lopud
Libya	AD 1667 April 6 major earthquake 501–511
AD 262 earthquake 138	AD 1760 May 26 earthquake 586
AD 361 June earthquake 147	Lovec, AD 1059 September spurious earthquake 269
AD 365 July 21 earthquake and sea wave 151–152, 153, 154	lower crust, seismicity 815
AD 1656 earthquake 492	Ludd
Lichnidus	AD 1293 January earthquake 353
AD 527 earthquake 189	AD 1458 November 16 earthquake 396–397
see also Ohrid	Lulshi, AD 1742 February 21 earthquake 558–559
Lidoriki, AD 1580 earthquake 465	Lycia
Ligia, AD 1672 February 14 springs dry up 516	AD 68 fall in sea level 118
Ligoudista, AD 1899 April 15 earthquake 791	AD 142 earthquake and sea wave 128–131
Limassol	AD 529 earthquake 193
AD 1222 May 11 earthquake 338–340	Lydia
AD 1491 April 24 earthquake 407–411	140 BC-AD 20 earthquake 95
AD 1556 earthquake 455	AD 17 earthquake 105–108
AD 1566 April 25 earthquake 458	Lysimachia, 287 BC earthquake 89
AD 1567 earthquake 458–459	
AD 1568 October 10 earthquake 459–460	Maarat an-Numan, AD 1157 August 12 earthquake 303–311
AD 1577 January 28 earthquake 462–463	Mabug
AD 1584 earthquake 466	AD 747–9 earthquake 233, 234, 235–236, 237
AD 1845 February 21 earthquake 659	AD 750 earthquake 238
AD 1883 March 5 earthquake 748	Macedonia
AD 1896 earthquakes 784, 785, 786	AD 61 earthquake 117
AD 1897 July 26 earthquake 788	AD 518 earthquake 180–181
AD 1898 September 21 earthquake 790	AD 896–904 earthquake 249
Limnos	AD 1243 earthquakes 342
AD 1456 November 19 earthquake 395	AD 1395 October earthquake 379–380
AD 1887 May 14 earthquake 753	AD 1555 earthquake 453–454
Lipkovo, AD 1673 February 17 earthquake 516	AD 1761 March 2 earthquakes 587
Listrien, AD 1668 August 17 earthquake 512–515	Madain, AD 859 earthquake 242
Litani	Madjdin, AD 1344 January 3 earthquake 370
AD 1202 May 20 earthquake 327–337	Madytos
AD 1759 November 25 earthquake 583–586	AD 1354 March 1 earthquake 372–375
literary sources 2	AD 1437 November 28 earthquake 391
Livadia	Magdola, Egypt, 95–94 BC spurious earthquake 95–96



Index 931

Maghrib, AD 859 earthquake 242–243	Mar Barsuma monastery
Magnesia 212 213	AD 458 January earthquake 168
AD 17 earthquake 105–108	AD 1285 earthquake 351
AD 1773 March 16 destructive earthquake 605	Maraq, AD 728 November earthquake 226–227
magnitude	Maras
instrumental calculation 823–826, 832	AD 952 earthquake 252–253
scales 824–825	AD 1114 November 29 earthquake 283–291
semi-empirical assessment 56, 826–827, 831	AD 1544 Jan earthquake 441
surface wave 28, 823–824	Marash, AD 1114 November 29 earthquake
Mahanayim, AD 1516 December 21 earthquake 436	285–291
Mahdyya, AD 981 November earthquake 256	Mardin
Mahmatan, AD 1715 March 8 earthquake 540	AD 1263 earthquake 345–346
Maithalun, AD 1759 November 25 earthquake 584-586	AD 1789 July earthquake 615
Makri	Margariti
AD 1851 earthquakes 668–669, 671	AD 1890 May 21 earthquake 761
AD 1852 earthquakes 672	AD 1896 January 11 earthquake 783
AD 1865 May 27 earthquake 710	Margat
AD 1870 February 22 earthquake 723	AD 1170 June 29 earthquake 318–325
see also Fetiye	AD 1202 May 20 earthquake 327–337
Maku	Maritsa
AD 1319 earthquake 364	AD 1689 April 25 earthquake 524
AD 1696 earthquakes 527–528	AD 1718 June 16 earthquakes 542–543
Malakasa, AD 1705 September 3 earthquake 533	Maritza River, AD 1750 August 17 earthquake 573
Malakastra, AD 1851 October 12 earthquake 670–671	Marjuyun, AD 1759 November 25 earthquake
Malatya AD 1002 carthovalta 258	583–586 Markasi AD 1742 Fahrmary 21 carthanaka 558 550
AD 1003 earthquake 258 AD 1514 earthquake 436	Markasi, AD 1742 February 21 earthquake 558–559 Marmara
AD 1779 March 14 destructive earthquake 608	AD 1844 September 12 earthquake 658
AD 1890 November 7 earthquake 762	AD 1869 April 18 earthquake 721
AD 1893 earthquakes 766–767, 769, 770	Marmara Island
AD 1896 earthquakes 783, 784, 785	AD 1343 October 18a earthquake 367
AD 1897 July 3 earthquake 788	AD 1344 November 6 earthquake 370–371
Malazgirt, Anatolia, AD 461 earthquake 172	AD 1877 October 13 earthquake 743
Maliac Gulf	AD 1899 January 4 earthquake 790
426 BC earthquake and sea wave 83–84	Marmara submarine fault system 835
AD 551 sea wave 205	Marmaris
Malkara, AD 1766 August 5 earthquake 595–596	AD 1858 May 16 earthquakes 689
Malta	AD 1862 May 24 earthquake 706
AD 1810 February 16 earthquake 625–627	AD 1870 June 24 earthquake 724
AD 1856 October 12 earthquake 685	AD 1871 June 7 earthquake 731
Mamistria see Mopsuestia	AD 1899 March 20 earthquake 791
Mamrut mountain, AD 1441 volcanic eruption 391–392	Marrakesh, AD 1173 earthquake 325
Managua, AD 1972 December 23 earthquake 23, 47	Martino, AD 1894 April 20 earthquake 14, 771
Manisa	Masada, Jordan, AD c.110–114 earthquake 122
AD 1611 earthquake 474	Mashchgavor monastery, AD 1114 November 29 earthquake
AD 1625 May 18 earthquake 477	284–291
AD 1844 September 21 conth gualte 493	Massisa see Misis; Mopsuestia
AD 1844 September 21 earthquake 658 AD 1845 June 5 earthquake 659	Mastanice, AD 1755 February 15 earthquake 580 Masun Valley, AD 1834 earthquake 643
AD 1843 June 16 earthquake 690	Masyaf, AD 1157 August 12 earthquake 305
AD 1859 July 27 earthquake 695	Matalya, AD 1899 January 7 earthquake 790
AD 1860 March 4 earthquake 696	Matapan Trench 818
AD 1866 August 18 earthquake 715	Matritsa River, Bulgaria, AD 1661 March 20 earthquake
maps 13–14, 796–814	494–496
Aigion 700–701, 700, 702, 703	Maximianopolis, AD c.339 earthquake 141–142
isoseismal 57–58	Meander River, <ad 1="" 105<="" earthquake="" td=""></ad>

plate tectonics 817, 819, 821

see also Büyük Menderes Valley; Menderes Valley



932 Index

Mecca	Methoni
AD 1191 or 1196 spurious earthquake and wind	AD 1769 December earthquake 603
326–327	AD 1842 April 18 earthquake 654
AD 1588 January 4 earthquake 467–468	Metsovo, AD 1852 October 12 earthquake 673
Medina	Mezzo, AD 1760 May 26 earthquake 586
AD 1068 March 18 earthquake 272, 273, 276	Micromani, AD 1846 June 10 earthquakes 661
AD 1588 January 4 earthquake 467	Migisi, AD 1689 earthquake 524
Mediterranean, AD 1605 December new islet 472	Mikri Kaimani, AD 1573 volcanic eruption 461
Megali Lavra monastery, Mt Athos, AD 1585 June 28	Milas, AD 1631 earthquake 480
earthquake and sea wave 466–467	Miletopolis, AD 1327 May 12 earthquake 365
Megalon Pylon monastery, AD 1698 November earthquake	Militini, AD 1865 February 23 earthquake 709
528	Militus, AD c.46–47 earthquake 113–114
Megalopolis, 1965 April 5 earthquake 24, 25	Milne formula 825
Megistis Lavras monastery, AD 1509 September 10 earthquake	Milos
422–433	AD 1738 July 19 earthquake 553
Megreli, Georgia, AD 1614 earthquake 476	AD 1750 June earthquake 572–573
Meleda, AD 1825 June 21 earthquake 638	AD 1779 December 6 earthquake 608–609
Melitaea, 228–224 BC earthquake 91	AD 1810 February 16 earthquake 625–627
Melitene, AD 1149 December 29 spurious earthquake	Minoan civilization 10
297	Minya, AD 1303 August 8 earthquake 357, 360
Membij, AD 1344 January 3 earthquake 370	Miraka, AD 1806 January 24 earthquake 624
Menderes Valley	Mirkovo, AD 1884 April 10 earthquakes 750
27–24 BC earthquake 102–103	Misis
AD 1895 August 19 earthquake 782	AD 757 earthquake 238
AD 1899 earthquakes 790, 791, 792–795	AD 1114 November 13 earthquake 282–283
see also Büyük Menderes Valley; Meander River	see also Mopsuestia
Menemen	Misr see Cairo
AD 1880 earthquakes 744–745	Mitilene
Menteşe, AD 1869 December 1 earthquake 722	AD 1755 February earthquake 580
Mersin, AD 1891 October 29 earthquake 763	AD 1855 September 9 earthquake 682
Merzifon	Mitilini
AD 1668 August 17 earthquake 512–515	AD 1625 May 18 earthquake 477
AD 1776 December 29 earthquake 606	AD 1809 December 18 earthquake 625
AD 1825 August earthquake 639	AD 1852 earthquakes 671, 672
AD 1864 March 9 earthquake 708	AD 1856 earthquakes 683, 686
Mesalongi, AD 1882 January 5 mud volcano 747	AD 1867 earthquakes 717–718
Mesopotamia	AD 1879 earthquakes 744
AD 588 October 31 earthquake 215–216	AD 1886 September 4 earthquake 752
AD 679 April 3 earthquake 223	AD 1890 May 7 earthquake 761
AD 717 December 24 earthquake 225–226	AD 1893 June 18 earthquake 769–770
AD 747–749 earthquakes 233, 234, 235	AD 1899 November 18 earthquake 795
AD 846 earthquake 241	Mizpeh, c.1070 BC spurious earthquake 68
AD 881 earthquakes 246–247	Moab, AD 1837 January 1 earthquake 647
AD 1137 November 294	Mohammed's birth, AD 570 November earthquake 213
Messini	moment, seismic 28, 825–826
AD 1429 November 10 earthquake 390	Monte Auda, Italy, landslide 50–51, 54
AD 1885 March 28 earthquake 750	Monte Vergato, AD 1520 May 17 earthquake 437
Messinia (54.655)	Montenegro, AD 1395 May 19 earthquake 379
AD 1842 earthquakes 654–655	Mopsuestia
AD 1846 June 10 earthquakes 661	AD 803 June 23 earthquake 239
Meteora AD 1500 F. L. 22 ALL L. ACS ACC	AD 1114 November 29 earthquake 285–291
AD 1582 February 22 earthquake 465–466	see also Misis
AD 1621 March 6 earthquake 477	Morea
AD 1674 earthquakes 517–518	AD 1422 April 13 earthquake 389
AD 1735 August 21 earthquake 552	AD 1580 earthquake 465

AD 1743 February 20 earthquake 562-569

AD 1750 June earthquake 572-573

Methana, 263–221 BC volcanic eruption 90–91

Methone, AD 1832 June 25 earthquake 642



Mosul	Mt Taigetos
AD 390–429 collapse of church 158	550 BC earthquake 79
AD 846 earthquake 241	469–463 BC earthquake 82
AD 986 earthquake 256	AD 1842 April 18 earthquake 654–655
AD 1031 earthquake 260	Mtskheta cathedral
AD 1058 December 8 earthquake 268–269	AD 1283 April 17 earthquake 350–351
AD 1121 earthquakes 292	AD 1318? earthquake 363
AD 1135 July 25 earthquake 293–294	Mudanya
AD 1137 November earthquake 294	AD 1766 May 22 earthquake and sea wave 590–593
AD 1208 February 14 earthquake 337	AD 1876 March 29 earthquake 741
AD 1225 March 4 earthquake 340	Mudurnu
AD 1226 November 18 earthquake 340	AD 1894 July 12 aftershock 779
AD 1237 earthquake 342	AD 1967 July 22 earthquake 15, 29, 30, 31, 33, 47
AD 1263 earthquake 345–346	Muğla
AD 1503 earthquake 416	AD 1851 February 2 earthquake 668
AD 1572 earthquake 461	AD 1896 April 19 earthquake 784
AD 1620 earthquakes 477	Mukhtara, AD 1759 November 25 earthquake 584–586
AD 1666 September 22 earthquake 500	Muminabad Fault 16, 17
AD 1764–1765 earthquake 589	Murat Nehri bridge, Turkey 42
AD 1782 earthquake 610	Murdivan, AD 1875 November 5 earthquake 741
AD 1784 July 6 earthquake 613	Murikovo, AD 1897 February 15 earthquake 787
AD 1839 January 29 earthquake 651	Muş
Moudopolis, AD 181 May 3 earthquake 135	AD 1362–1363 earthquake 376
Mozzo, AD 1667 April 6 major earthquake	AD 1491 earthquake 411
501–511	AD 1871 March 17 earthquake 730
Mshakavank monastery, AD 1220 January 11 earthquake	Mut, AD 1891 November 3 earthquake 763
338	Mycenae 10
MSK (Medvedev-Sponheuer-Karnik) intensity scale 56	Mykale, AD 1872 April 7 earthquake 734
AD 1202 May 20 earthquake 328	Mynia, AD 1580 earthquake 465
Mt Athos	Myra, AD 529 earthquake 193
AD 925–926 earthquake 251	Myrina, AD 105–106 earthquake 121
AD 1280 earthquake 350	Myriophyto
AD 1395 October earthquake 379–380	AD 1063 September 23 earthquake 271–272
AD 1397 earthquake 380	AD 1343 October 18 earthquake 367
AD 1456 November 19 earthquake 395	Mytilene
AD 1526 earthquake 438	AD c.155 earthquake 131–132, 133
AD 1560 February 8 earthquake 456	AD 1383 August 6 earthquake 377–378
AD 1561 January 26 wind storm 456	AD 1826 February 8 earthquake 639
AD 1564 August 12 earthquake 457–458	AD 1844 November 7 earthquake 658
AD 1572 April 12 earthquake 461	AD 1845 earthquakes 659–660
AD 1585 June 28 earthquake and sea wave 466–467	AD 1846 earthquakes 660, 661, 662
AD 1625 May 18 earthquake 477	AD 1847 August 26 earthquake 664
AD 1765 earthquakes 589	
AD 1776 December 5 earthquake 606	Nabatiya, AD 1759 November 25 earthquake 583–586
AD 1779 February 3 earthquake 607	Nablus
AD 1794 earthquake 621	AD 1033 December 5 earthquake 261–264
AD 1797 March 5 earthquake 621–622	AD 1202 May 20 earthquake 327–337
AD 1826 April 30 earthquake 639	AD 1546 January 14 earthquake 444–451
AD 1827 December 25 earthquake 639	AD 1759 earthquakes 583, 585
?AD 1828 January 6 earthquake 639	AD 1837 January earthquakes 647, 649
AD 1830 February 5 earthquake 641	Nabuzzio, AD 1668 August 17 earthquake 512–515
AD 1850 April 1 earthquake 666	Nafpaktos
Mt Enos, AD 1636 September 30 landslides 481–483	AD 551 earthquake 206
Mt Erciyes, AD 1835 August 13 earthquake 643	AD <1444 earthquake 393
Mt Lebanon, AD 1202 May 20 earthquake 327, 330	AD 1450 earthquake 393–394
Mt St Auxentius, AD 1280 July earthquake 349–350	AD 1510 < March 24 earthquake 433
Mt Tabor, AD 747–9 earthquake 235, 236	AD 1544 April 24 earthquake 441–444



Nafpaktos (cont.)	AD 1063 September 23 earthquake 271–272
AD 1580 earthquake 465	AD 1065 September earthquake 272
AD 1703 January 19 earthquake 529–530	see also Iznik
AD 1742 February 25 earthquake 559–562	Nicomedea
AD 1743 February 20 earthquake 562–569	AD 68–69 earthquake 118
AD 1754 June 15 earthquake and landslides 577	AD 121 earthquake 125–126
AD 1756 October 20 earthquake 581	AD 181 May 3 earthquake 135
Nafplion, AD 1830 earthquakes 641	AD 268–270 earthquake 139
Najaf, AD 1194 earthquake 327	AD 358 August earthquakes 144–147, 156
Naples, 1857 earthquake 54	AD 362 December 2 earthquake 147–148
Narangia, AD 1493 October 18 earthquake 411–413	AD 447 January 26 earthquake 165–168
Nauplio, AD 1841 September 19 earthquake 654	AD 478 September 24 earthquake 174–176
Navarino	AD 554 August 16 earthquake 206–207
AD 1502 August 25 earthquake 416	AD 989 October 26 earthquake 256–257
AD 1750 June earthquake 572–573	AD 1567 October 1 earthquake 459
AD 1796 August earthquake 621	AD 1754 September 2 earthquake 577–579
Naxos, AD 1564 August 12 earthquake 457–458	AD 1766 May 22 earthquake 591
Nazareth	AD 1886 December 29 earthquake 752
AD 1759 earthquakes 583, 585	see also Izmit
AD 1837 January 1 earthquake 646	Nicopolis
AD 1876 November 21 earthquake 742	AD 130 earthquake 126–127
Nazili	AD 499 September earthquake 177–178
AD 1645 earthquake 485	Nicosia
AD 1653 February 22 earthquake 491–492	AD 1222 May 11 earthquake 338–340
Nea Kameni, AD 1707 May eruption 535	AD 1267 earthquake 347–348
Negreponte	AD 1269 earthquake 348–349
AD 1417 August earthquake 386–387	AD 1479 October 16 earthquake 398
AD 1421 September 18 earthquakes 389	AD 1491 earthquakes 407–411
AD 1439 earthquake 391	AD 1497 November 25 destruction 415
AD 1452 November 8 earthquakes 394	AD 1547 earthquake 452
AD 1694 June earthquake 525–527	AD 1568 October 10 earthquake 459–460
AD 1705 September 3 earthquake 532–533	AD 1577 January 28 earthquake 462–463
AD 1708 April earthquake 536	AD 1735 April 10–11 destructive earthquake 550–552
AD <1768 August earthquake 601	AD 1845 February 21 earthquake 659
see also Chalkis	AD 1883 March 5 earthquake 748
Nemrut Daği volcano, AD 1441 eruption 391–392	AD 1894 January 13 earthquake 770–771
neo-catastrophism 10, 12	Niksar
Neocaesarea	AD 1873 February 12 earthquake 735
AD 130 earthquake 126–127	AD 1890 earthquake 762
AD 343–344 earthquake 143	Nile Delta
AD 478 earthquake 175, 176	AD 365 July 21 seawave 151
AD 499 September earthquake 177–178, 179	AD 1303 August 8 earthquake 357
Neocastra, AD 1296 July 17 earthquake 354	AD 1847 August 7 earthquake 663–664
Neretun, AD 1544 March 6 earthquake 441	AD 1856 October 12 earthquake 684
Nestos Delta	Nile Valley, AD 1303 August 8 earthquake 358
AD 1829 earthquakes 640–641	Nimbluk Valley, qanats 18, 21
AD 1863 September 2 earthquake 708	Nimrud, c.680–699 BC earthquake 78–79
Nevrokopi, AD 1893 August 15 earthquake 770	Nineveh, Mesopotamia
newspapers 2	c.1274–1234 BC earthquake 67
Nicaea	1187–1150 BC earthquake 67–68
AD 32, earthquake 11, 108–109	AD 1666 September 22 earthquake 500
AD 121 earthquake 125–126	Nisibin, Syria, AD c.55 earthquake 116–117
AD 358 August 24 earthquake 144	Nisiros
AD 362 December 2 earthquake 147–148	AD 1857 February 28 earthquake 686
AD 368 October 11, earthquake 156	AD 1861 June 29 earthquake 699
AD 368 spurious earthquake 157	AD 1871 November 30 earthquake and eruption 731
AD 478 earthquake and sea wave 174–175	AD 1873 earthquakes 735, 736
AD 740 October 26 earthquake 227–229	Norguh, AD 1646 April 7 landslide 486



Index 935

North Africa?, AD 502 earthquake 179 North Anatolian fault zone 27, 31, 32, 193, 264, 818–820, 835 AD 1045 April 5 earthquake 266-267 AD 1050 August 268 earthquake 268 AD 1254 October 11 earthquake 343-344 AD 1318 earthquake 363 AD 1419 March earthquakes 387-388 AD 1477 earthquake 398 AD 1590 November earthquake 468 AD 1668 August 17 earthquake 512-515 AD 1776 December 29 earthquake 606 AD 1794 July 18 earthquake 620 AD 1866 May 12 earthquake 712-714 AD 1875 April 23 earthquake 739 AD 1894 July 10 earthquake 778 seismicity 828, 829 Northwest Frontier, Pakistan 1974 December 28 earthquake 46 building methods 46, 50, 51, 52 Novapatra, AD 1544 April 24 earthquake 441-444 Novi fortress, AD 1608 August 4 earthquake 473 Numeira, 2100-1700 BC destruction 63, 64-65 Nymphio, AD 1850 April 3 earthquake 666-667 Oboda, Jordan, AD c.110-114 earthquake 122 oceanic crust, subduction, 815 Ödemiş, AD 1889 November 25 earthquake 760 Odessus, AD 544 sea wave 197-198 AD 548 Feb? earthquake 198-199 AD <1673 April 3 earthquake 516–517 AD 1871 February 7 earthquake 730 AD 1889 September 10 earthquake 758 AD 1896 September 28 spurious earthquake 786 see also Lichnidus Okona, AD 1283 April 17 earthquake 350-351 Olympia AD 551 earthquake 206 AD 1834 January 1 earthquake 642 Olympiotissa monastery, AD 1544 April 24 earthquake 441-444 Ophryneum, c.360 BC earthquake 88 Opus 426 BC earthquake 83, 84 AD 105 earthquake 121 Orašac, AD 1667 April 6 major earthquake 501-511 Orchomenos, 427-426 BC earthquake 83 Oreše, AD 548 February? earthquake 198-199 Oritus, AD 105 earthquake 121 Orontes River

Osmançik AD 1668 August 17 earthquake 512-515 AD 1884 August earthquake 750 Ossios Loucas monastery, AD 1593 collapse of dome Ossogovo monastery, AD 1585 earthquake 467 Otranto AD 1743 February 20 earthquake 562-569 AD 1810 February 16 earthquake 625-627 Ottoman sources 3-4 Ovacik valley, AD 1856 January 16 earthquake 682-683 Pacin, AD 1766 October 9 earthquake 597 Paddanae Rabtho, AD 768-769 earthquake 239 Palaea Kaimeni, AD 1455 November 25 volcanic eruption Palaeokastro, AD 1456 November 19 earthquake 395 Palaia, AD 1707 May earthquakes and eruption 535 Palamuda, AD 1742 February 21 earthquake 558–559 Palanka, AD 1707 March 22 earthquake 534-535 Palestine 31 BC, earthquake 99 AD 361 earthquake 147 AD 363 May 19 earthquakes 148-151 AD 418 earthquake 162 AD 634 earthquake 219-220 AD 659 June earthquakes 221-222 AD 746(-749?) January 18 earthquakes 230–238 AD 756 March 9 earthquake 238 AD 1033 December 5 earthquake 261-264 AD 1034 February 17 earthquake 264 AD 1068 March 18 earthquake and sea wave 273-276 AD c.1150 spurious earthquake 297 AD 1293 January earthquake 353 AD 1303 August 8 earthquake 357 AD 1546 January 14 earthquake 9, 444-451 AD 1769 earthquake 604 AD 1834 May 26 earthquake 642-643 AD 1837 January 1 earthquake 645-649 Paliki, Kefalonia AD 1658 August 12 earthquake 492-493 AD 1766 July 22 destructive earthquake 593-595 AD 1767 July 22 earthquake 598-600 Paliuri, AD 1813 December 10 earthquake 628 Palliki, AD 1867 earthquakes 716-717 Palmyra, AD 233 May spurious earthquake 136 Palu, AD 1897 September 9 earthquake 788 AD 1827 October 20 earthquake 639 AD 1828 July 5 earthquake 640 AD 1834 earthquake 643 Pambukh, AD 1840 July 2 catastrophic earthquake 651-653 Pamisos valley AD 1842 April 18 earthquake 654-655 AD 1846 June 10 earthquakes 661 pamphlets 8, 464, 494

Panagiurishte, AD 1897 February 27 earthquake 787

AD 115 December 13 earthquake 122-125

AD 1408 December 29 earthquake 384–385 AD 1760 October 13 earthquakes 587

AD 1822 August 13 earthquake 633-635

AD 1091 September 26 earthquake 278 AD 1157 August 12 earthquake 303–311

AD 1202 May 20 earthquake 332

AD 1872 earthquakes 732-734



936 Index

Panium	AD 1837 August earthquake 650
AD 823 October earthquake 240	AD 1867 September 19 earthquake 719
AD 1063 September 23 earthquake 271–272	AD 1886 August 27 lower crust earthquake 751–752
Paphlagonia	AD 1898 June 2 earthquake 789–790
AD 511 spurious earthquake 179	AD 1899 January 22 earthquake and sea wave 790–791
AD 967 September 2 earthquake 254	Pelusium, c.20 BC sea wave 104
Paphos	Peqini, AD 1897 February 3 earthquake 787
AD 76 earthquake 119	Pera, AD 1509 September 10 earthquake 422–433
AD 341 earthquake 142–143	Perast
AD c.375 earthquake 157	AD 1631 earthquakes 480
AD c.1160 earthquake 315	AD 1667 April 6 major earthquake 502–511
AD 1222 May 11 earthquake 338–340, 341	Pergamum see Bergama
AD 1227 May 12 earthquake 340–341	Perinthus
AD 1350 earthquakes 372	c.427 BC earthquake 82–83
AD 1491 April 24 earthquake 407–411	399–395 BC December earthquake 85–86
AD 1567 earthquake 458–459	Peristasis, AD 1766 August 5 earthquake 595–596
AD 1568 October 10 earthquake 459–460	Persia
AD 1577 February 4 sea wave 463	AD 368 spurious earthquake 157
AD 1896 earthquakes 784, 785	AD 1493 January 16 earthquake 16, 17
Paramythia, AD 1896 earthquakes 783, 785, 786	Perushtitsa, AD 1892 September 25 earthquake 764
Paros	Petra
AD 1733 December earthquakes 549–550	AD c.110–114 earthquake 122
Parthenon, Athens, 426 BC earthquake 83	AD 551 earthquake 201–202
Patmos, AD 1718 February 13 earthquake 542	Pharos, Alexandria
Patra	AD 796 April earthquake 238
AD 551 earthquake 206	AD 951 September 15 earthquake 252
AD 1450 earthquake 393–394	AD 956 earthquake 253
AD 1714 earthquakes 539, 540	AD 1303 August 8 earthquake 357, 360
AD 1742 February 25 earthquake 559–562	AD 1326 dilapidated state 365
AD 1804 June 8 earthquake 623	AD 1373 collapse 376
AD 1805 May 30 earthquake 623	Pharsalus, 510 BC collapse of building 80
AD 1809 December earthquake 625	Philadelphia
AD 1811 December 18 earthquake 627	AD 17 earthquake 105–108
AD 1821 April earthquakes 632	AD 1212 June 22 earthquake 338
AD 1829 February 8 earthquake 640	Philippi
	AD 51 earthquake 115
AD 1842 earthquakes 655 AD 1844 June 23 earthquake 658	•
AD 1844 June 25 earthquake 638 AD 1852 March 6 earthquake 671	AD 1820 April 11 conthough 640
•	AD 1829 April 11 earthquake 640 Philomede
AD 1853 December 10 earthquake 675	
Pattan, AD 1974 December 28 earthquake 46, 50	AD 529 earthquake 194, 195
Pazardzik	AD c.530 earthquake 195
AD 1892 April 16 earthquake 764	Phoenice Maritima, AD 551 July earthquake and sea wave
AD 1895 November 25 earthquake 783	199–203
Pazarköy, AD 1719 May 25 major earthquake 543–545	Phrygia
Peč, AD 1662 February 11 earthquake 496	AD 447 January 26 earthquake 165–168
Peçin, AD 1631 earthquake 480	AD 494 earthquake 177
Pella, AD 551 earthquake 202	Piano di Mettine, Italy, landslip 54
Peloponnese	Pilo, AD 1667 April 6 major earthquake 501–511
AD 365 July 21 earthquake and sea wave 151–156	Pinarit, AD 1742 February 21 earthquake 558–559
AD 1743 February 20 earthquake 562–569	Pindos, AD 1514 earthquake 436
AD 1748 earthquake and sea wave 571–572	Pirdop
AD 1754 June 15 earthquake 577	AD 1894 July 8 earthquake 773
AD 1756 October 20 earthquake 581	AD 1896 June 12 earthquake 785
AD 1805 July 3 earthquake 623–624	Pirem, AD 1896 February 22 earthquake 784
AD 1810 February 16 earthquake 625–627	Pirgos
AD 1817 January 1 earthquake 629	AD 1742 February 21 earthquake 558–559

AD 1837 August earthquake 650

AD 1820 December 29 earthquake 631–632



> Index 937

AD 1840 December 30 earthquake 653 AD 1841 December 31 earthquake 654 AD 1842 February 3 earthquake 654 AD 1849 earthquake 666 Plain of Adana, AD 1114 November 13 earthquake 282–283 Plakounta, AD 1412 February 23 landslide 386 plate tectonics xi, 815–820, 817, 819, 821 Ploce, AD 1667 April 6 major earthquake 501-511 Plovdiv AD 1718 June 16 earthquakes 542-543 AD 1750 August 17 earthquake 573 AD 1811 January earthquake 627 AD 1818 earthquake 630-631 AD 1855 April 3 earthquake 680 AD 1858 September 10 earthquake 690 AD 1859 earthquakes 695 AD 1873 August 8 earthquake 736 AD 1880 December 22 earthquake 745 AD 1882 June 10 earthquake 748 AD 1884 December 9 earthquake 750 AD 1890 May 10 earthquake 761 AD 1891 June 27 earthquake 763 AD 1892 October 5 earthquake 764 AD 1899 earthquakes 792, 795 Podgoritsa, AD 1876 June 5 earthquake 742 Poemanenum, <AD 160 earthquake 132-133 Pogoni, AD 1894 July 16 earthquake 779 Poland, AD 1443-1444 earthquake 392 Polybotus AD 529 earthquake 194, 195 AD c.530 earthquake 195 Pompeii, AD 62 February 5 earthquake 2, 117 Pompeiopolis AD 527 earthquake 189 AD 529 eathquake 193-195 Pondilo Islands, AD 1758 May earthquake 582 Pontus AD 499 September earthquake 177–178 AD 529 eathquake 194-195 Poros, AD 1837 March 20 earthquake 649 Port Said, AD 1868 February 20 earthquake 720 Potamuz, AD 1742 February 21 earthquake 558-559 Potidaea, 479 BC sea wave 81 Prague formula 824-825 Preveza AD 1743 February 20 earthquake 562-569 AD 1825 January 19 destructive earthquake 637–638 AD 1826 January 26 earthquake 639

AD 1860 earthquakes 698 AD 1870 December 28 earthquake 730 AD 1889 March 21 earthquake 757 AD 1891 June 27 earthquake 763 Prieni, c.350 BC earthquake 89 Princes' Islands AD 1862 October 7 earthquake 706 AD 1894 July 10 earthquake 9, 775, 778 Pringipos, AD 1509 September 10 earthquake 425–433

Prinkes, AD 1344 January 3 earthquake 370 Prirod, AD 1749 March 22 earthquake 572 Priština, AD <1665 earthquake 499 Prizren, Kosovo AD 1456 earthquake 395 AD 1594 May 16 earthquake 469 Proconnesus, AD 1265 August 346 AD 1143 November 26 earthquake 297 AD 1400 January earthquake 380, 381 AD 1419 March 15-17 earthquake 387-388 see also Bursa Psara AD 1865 November 12 earthquake 711 AD 1890 earthquakes 761 AD 1891 September 24 earthquake 768 **Ptolemais** 139 BC sea wave 95 AD 365 July 21 earthquake 152, 153 see also Acre Puturge, AD 1897 June 28 earthquake 788 Pylio, AD 1493 October 18 earthquake 411-413 Pytane, AD 105-106 earthquake 121 Qairawan, Tunisia AD 912 earthquake 250 AD 1041 earthquake 266 Qalat al Mudiq see Apamea

Qalat al-Rum, AD 1344 January 3 earthquake 370 Qalinqala see Erzurum qanats, Dasht-e Bayaz 18, 19, 20, 21 Qaqun, AD 1293 January earthquake 353 Qastel, AD 1705 November 23 earthquake 533 Qeitule, AD 1759 November 25 earthquake 584-586 Qilliq, AD 1872 April 3 earthquake 733-734 Oinnesrin AD 713 February 28 earthquake 224-225 AD 973 or 976 earthquake 255 Qumran, water cistern damage 99-102 Ounaitra AD 1759 earthquakes 583, 585 Ous AD 997 spurious earthquake 258 AD 1303 August 8 earthquake 357, 360

AD 952 earthquake 252-253 AD 1114 November 29 earthquake 284-291 Raban Hormizd monastery, AD 1666 September 22 earthquake 500 Radovitsi, AD 1833 June 22 earthquake 642 Ragusa see Dubrovnik Ramat Rahel, AD 551 earthquake 202 AD 1033 December 5 earthquake 261-264 AD 1047 earthquake 267 AD 1068 earthquakes 273-276



Ramla (cont.)	AD 1859 earthquakes 692, 695
AD 1293 January earthquake 353	AD 1860 January 7 earthquake 696
AD 1458 November 16 earthquake 396–397	AD 1863 earthquakes 706–708
AD 1546 January 14 earthquake 444–451	AD 1864 earthquakes 708, 709
Raqqa	AD 1865 earthquakes 709, 710
AD 860 January earthquake 243–244	AD 1866 earthquakes 712, 715
AD 1138 opening of ground 295	AD 1869 April 18 earthquake 721
Rashayya, AD 1899 February 10 earthquake 791	AD 1874 November 16 earthquake 739
Red Sea	AD 1878 December 31 earthquake 744
AD 1588 earthquakes 467, 468	AD 1896 October 27 lower-crust earthquake 786
Redestos, AD 1354 March 1 earthquake 372–375	Richter scale see Gutenberg and Richter scale
reinforced concrete buildings 45, 46, 47, 48, 49	Rijeka, AD 1667 April 6 major earthquake 501–511
Reisidere, AD 1884 November 12 earthquake 750	Rila
Reşadiye, AD 1875 April 23 earthquake 739	AD 1868 October 4 earthquake 721
Resen	AD 1874 May 5 earthquake 738
AD 1893 June 2 earthquake 769	Ristovać, AD 1755 February 15 earthquake 580
AD 1896 June 15 earthquake 785	Roman Empire, AD 641–668 earthquake 221
Resurrection earthquake 11–12	Rosetta
Rethymnon	AD 1609 April earthquake 474
AD 1525 February 16 earthquake 438	AD 1698 October 2 earthquake 528
AD 1595 November 26 earthquake 469–470	AD 1810 February 16 earthquake 625–627
AD 1646 January 5 earthquake 485	Roum fault 648, 833, 834
AD 1681 January 1 earthquake 520	Roumeli, AD 1580 earthquake 465
AD 1805 July 3 earthquake 623	rubble-masonry buildings 39, 50
AD 1810 February 16 earthquake 625–627	Rum, AD 1837 aftershocks 649, 650
Rhagae, Iran, c. <280 BC earthquake 89–90	Rumkale, AD 1344 January 3 earthquake 370
Rhegium, AD 557 December 14 earthquake 198,	realistate, 715 15 17 validary 5 cartinquake 576
208–211	Safa, AD 1202 May 20 earthquake 327–337
Rhodes	Safad
c.227 BC earthquake 91–92	AD 1303 August 8 earthquake 357, 361
c.198 BC earthquake 92–93	AD 1366 October earthquake 376
AD 53 earthquake 115–116	AD 1759 October 30 earthquake 583, 584
AD c.115? earthquake 125	Safar, AD 1293 January earthquake 353
AD 142 earthquake and sea wave 128–131	Safed, AD 1889 August 23 earthquake 758
AD 344 earthquake 143–144	Safet, AD 1837 January 1 earthquake 646, 648
AD <478 September earthquake 176	Safina, Lebanon, AD 1684 earthquake or landslide 521
AD 515 earthquake 180	Safitha
AD 1303 August 8 earthhquake 356, 359, 361	AD 1170 June 29 earthquake 316–325
AD 1366 April 30 earthquake 376	AD 1202 May 20 earthquake 327–337
AD 1481 earthquakes 399–404, 402	AD 1287 February 16 earthquake 351
AD 1513 March 28 earthquake 434	Safranbolu, AD 1896 April 1 earthquake 784
AD 1570 earthquake 460	Sagalassos
AD 1609 April earthquake and sea wave 474	AD c.500 earthquake 179
AD 1616 earthquake 476	AD c.670 earthquake 223
AD 1660 October earthquake and wind 494	Saida
AD 1686 earthquake 522	AD 1609 April earthquake 474
AD 1714 earthquake 540	AD 1759 October 30 earthquake 583
AD 1717 earthquake 542	St Catherine monastery, Sinai, AD 1839 earthquake 651
AD 1741 January 31 earthquake 556–557	St James monastery, AD 1840 July 2 catastrophic earthquake
AD 1756 February 13 earthquake 581	652–653
AD 1776 September 18 earthquake 606	St Maura
AD 1851 earthquakes 668–669, 671	AD 1502 August 25 earthquake 416
AD 1853 November 8 earthquake 675	AD 1515 April 6 earthquake 436
AD 1855 earthquakes 680, 682	AD 1611 October 2 earthquake 474–475
AD 1856 October 12 earthquake 684	AD 1613 October 2 earthquake 476
AD 1857 earthquakes 686, 687, 688	AD 1625 June 18 earthquake 477–478
AD 1858 May 16 earthquakes 689	AD 1630 July 4 earthquake 479
y 1 " 1 " 1 " 1 " 1 " 1 " 1 " 1 " 1 " 1	J 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



> 939 Index

AD 1722 June 5 earthquakes 545–546
AD 1743 February 20 earthquake 562–569
AD 1770 January earthquake 604
AD 1783 March earthquakes 610, 611–612
AD 1804 June 8 earthquake 623
AD 1820 earthquakes 631
AD 1825 January earthquakes 637–638
St Saba monastery, AD 1605 January 8 earthquake 472
St Sophia church, Nicosia
AD 1267 earthquake 347
AD 1269 earthquake 348–349
St Thaddeus monastery, Maku
AD 1319 earthquake 364
AD 1696 earthquakes 527–528
Saizar, AD 1760 October 13 earthquakes 587
Sakha, AD 1303 August 8 earthquake 357, 360
Salamina, Cyprus, AD 1491 April 24 earthquake 407–411
Salamis, Cyprus
AD 76 earthquake 119
AD 293–306 earthquake 139
AD 331 September-332 August earthquake 141
AD 341 earthquake 142–143
AD 1577 January 28 earthquake 462–463
Salamis, Palestine, 44–32 BC spurious earthquake 98, 99
Salamiya, AD 1157 August 12 earthquake 305, 307
Salihiyah, AD 1705 November 23 earthquake 533
Salmas
AD 1837 June earthquake 650
AD 1894 June 20 earthquake 773
Salona
AD 1402 August 30 earthquake 380–382
AD 1580 earthquake 465
Saltuham, AD 1408 December 29 earthquake 384–385
Samaria, AD 1202 May 20 earthquake 327–337
Samb, AD 1406 November 29 earthquake 384
Samokovo
AD 1789 September 2 earthquake 615
AD 1866 earthquakes 715
AD 1867 February 23 earthquake 717
Samos
201–197 BC earthquake 92
AD c.46–47 earthquake 113–114
AD 1733 December 23 earthquake 550
AD 1739 April 4 earthquake 554–555
AD 1751 June 18 earthquake 573
AD 1766 August 1 earthquake 595
AD 1804 October 8 earthquake 623
AD 1817 October 30 earthquake 630
AD 1831 April 3 earthquake 641
1 1 1

AD 1868 earthquakes 720 AD 1869 earthquakes 721 AD 1870 earthquakes 723, 729 AD 1872 earthquakes 734, 735 AD 1873 earthquakes 735 AD 1874 earthquakes 737, 738 AD 1875 earthquakes 739, 740, 741 AD 1876 earthquakes 742 AD 1877 October 13 earthquake 743 AD 1878 earthquakes 743 AD 1879 earthquakes 744 AD 1880 September 12 earthquake 745 AD 1893 May 20 earthquake 768 AD 569 October-570 September earthquake 213 AD 1114 November 29 earthquake 284-291 Samothraki AD 1860 August 22 earthquake 697 AD 1893 February 9 earthquake 765-766 Samsun AD 1668 August 17 earthquake 512-515 AD 1851 February 25 earthquake 668 AD 1856 February 23 earthquake 683 AD 1858 May 28 earthquake 689 AD 1859 March 23 earthquake 692 Samtzkhe, AD 1283 April 17 earthquake 350-351 Sancak Burnu fort, AD 1688 July 10 earthquake 523-524 Sandikli, AD 1862 November earthquakes 706 Sangarius River, AD 1296 July 17 earthquake 354 198 BC volcanic eruption 92, 93-94 AD 46 July 6 volcanic eruption 112-113 AD 726 March volcanic eruption 226 AD 1507 spurious earthquake 417 AD 1508 May 29 earthquake 417-422 AD 1570 earthquake 460 AD 1573 volcanic eruption 461 AD 1650 March-December eruption 487-491 AD > 1666 July volcanic eruption 499-500 AD 1706 November earthquake 534 AD 1707 earthquakes and eruption 535 AD 1708 February 9 earthquake 536 AD 1711 September 14 earthquake 538 AD 1712 earthquake 538 AD 1773 January 10 volcanic eruption 605 AD 1810 February 16 earthquake 627 AD 1843 June 13 earthquake 656 AD 1866 February 1 volcanic eruption 711 AD 1870 April 27 volcanic eruption 723 catastrophism 10 AD 1719 May 25 major earthquake 543–545 AD 1878 earthquakes 743

AD 1845 October 9 earthquake 659

AD 1855 February 18 earthquake 677

AD 1860 August 22 earthquake 697

AD 1861 January 20 earthquake 698

AD 1863 August 29 earthquake 708

AD 1865 earthquakes 710, 711 AD 1866 April 25 earthquake 712

AD 1846 July 3 earthquake 662



940 Index

AD 1874 carthquake 736-738 AD 1875 March 27 carthquake 791 AD 1899 February 8 carthquake 791 Sario fortress, AD 706 carthquake 224 Saronic Gulf 263-221 BC volcanic cruption 90-91 480 BC carthquake 81 Saros AD 1756 November 26 carthquake 581-582 AD 1893 February 9 carthquake 756-766 see abs Gulf of Saros Saros-Marmara fault zone, AD 1912 August 9 carthquake 188 saron AD 1759 October 30 carthquake 753-758 Sarmanik, AD 1759 October 30 carthquake 583-584 Sasun, AD 1866 June 13 carthquake 791 Sazuranisia, AD 1833 January 25 carthquake 581 Saropatos, AD 1756 February 19 carthquake 581 Scarphaia, AD 551 sea wave 204 Scarpantos, AD 1756 February 19 carthquake 581 Scarphaia, AD 551 sea wave 204 AD 1806 Cotcober 7 carthquake 706 Sea of Marmara AD 1676 April 6 major carthquake 609 AD 1806 Cotcober 7 carthquake 706 Sea of Marmara AD 1676 April 6 major carthquake 706 Sea of Marmara AD 1676 April 6 major carthquake 791 Sazimanis, AD 1759 October 180 carthquake 581 Scarphia, AD 1579 February 13 carthquake 582 Scutari AD 1670 April 6 major carthquake 609 AD 1870 Schother 26 carthquake 206-207 AD 200 Schother 26 carthquake 206-207 AD 200 Schother 26 carthquake 206-207 AD 200 Schother 26 carthquake 206-207 AD 1805 Cotcober 18 carthquake 206-207 AD 1806 Cotcober 18 carthquake 206-207 AD 1806 Cotcober 18 carthquake 206-207 AD 1807 Cotcober 18 carthquake 206-207 AD 1807 Cotcober 18 carthquake 206-207 AD 1808 Cotcober 18 carthquake 206-207 AD 1808 Cotcober 18 carthquake 206-207 AD 1	Sarikamiş	AD 1912 August 9 earthquake 18
AD 1875 March 27 carthquake 739 AD 1899 February 8 carthquake 224 Saroins Guff 263-221 BC volcanic cruption 90-91 480 BC carthquake 81 Saros AD 1756 November 26 carthquake 581-582 AD 1756 November 26 carthquake 581-582 AD 1875 November 26 carthquake 581-582 Saros-Marmar fault zone, AD 1912 August 9 carthquake 18 Sarvandikar fortress, AD 1269 carthquake 348-349 Sasan, AD 1799 October 30 carthquake 348-349 Sasan, AD 1799 October 30 carthquake 540 Sayda, AD 1899 January 25 carthquake 791 Sazan Island, AD 1833 January 19 carthquake 540 Sayda, AD 1899 January 25 carthquake 791 Sazan Island, AD 551 earthquake 791 Sazan Island, AD 551 earthquake 203-205 Scupi, Maccolomi, AD 518 carthquake 581 Scupi Maccolomi, AD 518 carthquake 581 Scupi Maccolomi, AD 518 carthquake 502-511 AD 1780 September 21 carthquake 609 AD 1862 October 7 carthquake 82-83 Ca60 BC carthquake 82-83 Ca60 BC carthquake 82-83 Ca70 D 438 September 24 carthquake 266-267 AD 458 Aprila Qualut 16 carthquake 270-272 AD 557 December carthquake 286-257 AD 1032 August 13 carthquake 270-272 AD 253 August 16 carthquake 286-257 AD 1032 August 13 carthquake 270-272 AD 253 Cuptober 26 carthquake 286-257 AD 1032 August 13 carthquake 270-272 AD 253 Cuptober 26 carthquake 287-257 AD 1032 August 13 carthquake 270-272 AD 253 Cuptober 26 carthquake 286-257 AD 1032 August 13 carthquake 270-272 AD 254 Cuptober 26 carthquake 286-257 AD 1034 November 26 carthquake 286-257 AD 1034 Cuptober 26 carthquake 286-257 AD 1035 August 13 carthquake 270-272 AD 253 Cuptober 26 carthquake 286-257 AD 1034 Cuptober 26 carthquake 373-375 AD 1566 carthquake 373-375 AD 1576 Cuptober 26 carthquake 373-375 AD 1576 Cuptober 26 carthquake 372-375 AD 1580 September 12 carthquake 373-375 AD 1596 May 19 carthquake 373-375 AD 1596 May 19 carthquake 374-375 AD 1860 Cotober 26 carthquake 375-375 AD 1790 May 190 Carthquake 375-375 AD 1790 Apple 30 Carthquake 375-375 AD 1790 Cotober 30 Carthqu	AD 1874 earthquakes 736–738	frequency-magnitude distribution 835–836
AD 1899 February 8 earthquake 791 Sarin fortress, AD 706 earthquake 824 Saronic Gulf 263-221 BC volcanic eruption 90-91 480 BC earthquake 81 Saros AD 1756 November 26 earthquake 581-582 AD 1893 February 9 earthquake 581-582 AD 1893 February 9 earthquake 583-584 Saros-Marmara fault zone, AD 1912 August 9 earthquake 18 Saros-Marmara fault zone, AD 1912 August 9 earthquake 18 Saros-Marmara fault zone, AD 1912 August 9 earthquake 18 Saros-Marmara fault zone, AD 1912 August 9 earthquake 18 Saros-Marmara fault zone, AD 1912 August 9 earthquake 18 Saros-Marmara fault zone, AD 1912 August 9 earthquake 18 Saros-Marmara fault zone, AD 1912 August 9 earthquake 18 Sasun, AD 1865 June 13 earthquake 715 Sasan, AD 1759 October 30 earthquake 540 Sayda, AD 1899 January 15 earthquake 540 Sayda, AD 1899 January 15 earthquake 540 Sayda, AD 1899 January 15 earthquake 540 Saros-Macedonia, AD 518 earthquake 203-205 Scupi, Macedonia, AD 518 earthquake 203-205 Scupi, Macedonia, AD 518 earthquake 203-205 Scupi, Macedonia, AD 518 earthquake 502-511 AD 1780 September 21 earthquake 502-511 AD 1780 September 21 earthquake 609 AD 1884 October 7 earthquake 204-207 AD 557 December earthquake 206-207 AD 557 December earthquake 206-207 AD 557 December 26 earthquake 206-207 AD 558 August 16 earthquake 206-207 AD 559 August 16 earthquake 206-207 AD 559 December 26 earthquake 206-207 AD 250 August 13 earthquake 206-207 AD 250 August 15 earthquake 2	-	
Sarinis Guff 263-221 BC volcanic eruption 90-91 480 BC earthquake 81 Saros Marchina Saros AD 1756 November 26 earthquake 581-582 AD 1893 February 9 earthquake 765-766 see ako Gulf of Saros Saros-Marmar fault zone, AD 1912 August 9 earthquake 18 Sarvandikar fortress, AD 1269 earthquake 348-349 Sassaa, AD 1759 October 30 earthquake 583, 584 Saum, AD 1866 June 13 earthquake 581-582 Satmanis, AD 1715 March 8 earthquake 581-582 Satmanis, AD 1759 February 13 earthquake 581-582 Satmanis, AD 1759 February 13 earthquake 581-582 Sarapheia, AD 1551 sea wave 204 Schisma, AD 551 sea wave 205 Scupi, Maccdonia, AD 518 searthquake 205-206 AD 1862 October 7 earthquake 205-207 AD 205 September 21 earthquake 205-207 AD 1032 August 15	•	
Sarons Culf Saros De Carthquake 81 Saros Marmara fault zone, AD 1912 August 9 earthquake 18 Saros Marmara fault zone, AD 1912 August 9 earthquake 18 Saros Marmara fault zone, AD 1912 August 9 earthquake 18 Saros Marmara fault zone, AD 1912 August 9 earthquake 18 Saros Marmara fault zone, AD 1912 August 9 earthquake 18 Saros Marmara fault zone, AD 1912 August 9 earthquake 18 Saros Marmara fault zone, AD 1912 August 9 earthquake 18 Saros Marmara fault zone, AD 1912 August 9 earthquake 18 Saros Marmara fault zone, AD 1912 August 9 earthquake 18 Saros Marmara AD 1715 March 8 earthquake 540 Sayda, AD 1893 January 19 earthquake 791 Sazan Island, AD 1833 January 19 earthquake 681 Sazan Island, AD 1833 January 19 earthquake 791 Sazan Island, AD 1833 January 19 earthquake 681 Sazon Sazan Island, AD 1833 January 19 earthquake 791 Sazan Island, AD 1833 January 19 earthquake 681 Sazon Island, AD 1833 January 19 earthquake 681 Sazon Sazon Island, AD 1882 Qutcher 19 earthquake 18 AD 1667 April 6 major earthquake 180–181 Cuttari AD 1667 April 6 major earthquake 180–181 Cuttari AD 1667 April 6 major earthquake 180–181 Cuttari AD 1780 September 21 earthquake 706 Sazon Marmara Cattri AD 1780 September 22 earthquake 706 Sazon Marmara Cattri AD 1780 September 22 earthquake 706 Sazon Marmara Cattri AD 1780 September 22 earthquake 706 Sazon Marmara Cattri AD 1780 September 23 earthquake 706 Sazon Marmara Cattri AD 1780 September 24 earthquake 206–207 AD 253 December 26 earthquake 206–207 AD 253 December 26 earthquake 206–207 AD 253 December 26 earthquake 206–207 AD 254 August 15 earthquake 206–207 AD 255 December 26 earthquake 206	* *	
263-221 BC volcanic cruption 90-91		
480 BC carthquake 81 AD 1756 November 26 earthquake 581–582 AD 1893 February 9 earthquake 581–582 AD 1893 February 9 earthquake 581–582 Saros-Marmara fault zone, AD 1912 August 9 earthquake 18 Sarvandikar fortress, AD 1269 earthquake 348–349 Sassaa, AD 1759 October 30 earthquake 540 Sayda, AD 1899 January 19 earthquake 715 Saran Island, AD 1833 January 19 earthquake 715 Saran Island, AD 1833 January 19 earthquake 714 Sazan Island, AD 1833 January 19 earthquake 581 Scarpantos, AD 1756 February 13 earthquake 581 Scarpantos, AD 1756 February 13 earthquake 581 Scupi, Maceolonia, AD 518 earthquake 203–205 Scupi, Maceolonia, AD 518 earthquake 502–511 AD 1780 September 21 earthquake 609 AD 1862 October 7 earthquake 706 Sea of Marmara c.427 BC earthquake 82–83 Ca360 BC earthquake 88 AD 123 November 10 earthquake 126 AD 488 earthquake 176–177 AD 554 August 16 earthquake 206–207 AD 2057 December earthquake 240 AD 989 October 26 earthquake 370–371 AD 1345 March 11 earthquake 370–375 AD 1509 September 12 earthquake 370–375 AD 1509 September 12 earthquake 842–433 AD 1556 May 10 earthquake 454–455 AD 1790 May 25 major earthquake 326 Sharizur AD 1191 June 29 earthquake 336 Shaizar AD 1157 earthquake 330–311 AD 1134 November 6 earthquake 370–375 AD 1509 September 12 earthquake 341 AD 1348 Arbard 1 earthquake 341 AD 1348 Arbard 1 earthquake 341 AD 1348 Arbard 1 earthquake 341 AD 1356 May 10 earthquake 348–345 AD 1790 May 25 major earthquake 348 AD 1894 earthquake 350–355 AD 1500 September 12 earthquake 348 AD 1894 earthquake 350–357 AD 1500 September 25 earthquake 348 AD 1894 earthquake 350–355 AD 1500 September 25 earthquake 348 AD 1894 earthquake 350–355 AD 1500 September 25 earthquake 348 AD 1894 earthquake 368 AD 129 Earthquake 368	263–221 BC volcanic eruption 90–91	_
Pale tectonics 815-820	<u>-</u>	
AD 1756 November 26 carthquake 765-766	-	-
AD 1893 February 9 earthquake 765-766 see also Gulf of Saros Saros-Marmara fault zone, AD 1912 August 9 earthquake 18 Sarvandikar fortress, AD 1269 earthquake 348-349 Sassaa, AD 1759 October 30 earthquake 548 Sasun, AD 1866 June 13 earthquake 715 Satmanis, AD 1715 March 8 earthquake 540 Sayda, AD 1899 January 25 earthquake 791 Sazan Island, AD 1833 January 19 earthquake and sea wave 642 Sarapantos, AD 1756 February 13 earthquake 881 Carapantos, AD 551 sea wave 204 Schisma, AD 551 sea wave 204 Schisma, AD 551 sea rathquake 203-205 Scupi, Macedonia, AD 518 earthquake 80-251 AD 1667 April 6 major earthquake 80-251 AD 1780 September 21 earthquake 609 AD 1862 October 7 earthquake 706 Sea of Marmara c.477 BC earthquake 82-83 c.360 BC earthquake 82-83 c.360 BC earthquake 82-83 c.360 BC earthquake 206-207 AD 557 December earthquake 206-207 AD 557 December earthquake 208-211 AD 740 October 26 earthquake 227-229 AD 823 October earthquake 208-211 AD 1906 September 23 earthquake 208-211 AD 1306 September 24 earthquake 208-214 AD 1939 October 26 earthquake 240 AD 1930 October 26 earthquake 270-272 AD 1032 August 16 earthquake 270-272 AD 1032 August 16 earthquake 240 AD 1344 November 6 earthquake 270-272 AD 1034 March 11 earthquake 270-272 AD 1034 March 11 earthquake 270-273 AD 1556 May 10 earthquake 370-371 AD 1354 March 1 earthquake 370-371 AD 1570 October 76 earthquake 340-355 AD 1790 May 25 major earthquake 544-355 AD 1790 May 25 major earthquake 542-355 AD 1560 March 20 March	AD 1756 November 26 earthquake 581–582	•
ses anso Gulf of Saros Saros-Marmara fault zone, AD 1912 August 9 earthquake 18 Sarvandikar fortress, AD 1269 earthquake 348-349 Sassaa, AD 1759 October 30 earthquake 583, 584 Sasun, AD 1860 June 13 earthquake 791 Satmanis, AD 1715 March 8 earthquake 540 Sayda, AD 1899 January 25 earthquake 540 Saran Island, AD 1833 January 19 earthquake 791 Saran Island, AD 1833 January 19 earthquake 791 Scarpantos, AD 1756 February 13 earthquake 581 Scarpheia, AD 551 sea wave 204 Schisma, AD 551 earthquake 203-205 Scupi, Macedonia, AD 518 earthquake 580-251 AD 1667 April 6 major earthquake 502-511 AD 1780 September 21 earthquake 609 AD 1862 October 7 earthquake 609 AD 1862 October 7 earthquake 82 c.360 BC earthquake 82 c.360 BC earthquake 88 c.360 BC earthquake 88 c.360 BC earthquake 88 c.360 BC earthquake 88 c.360 BC earthquake 206-207 AD 557 December earthquake 206-207 AD 558 August 16 earthquake 206-201 AD 1980 October 26 earthquake 208-211 AD 740 October 26 earthquake 208-211 AD 740 October 26 earthquake 206-261 AD 1063 September 23 earthquake 270-272 AD 1231 March 11 earthquake 237-275 AD 1032 August 13 earthquake 270-272 AD 1234 Movember 6 earthquake 370-371 AD 1354 March 1 earthquake 370-371 AD 1354 March 1 earthquake 370-371 AD 1354 March 1 earthquake 370-375 AD 1509 September 10 earthquake 544-55 AD 1796 May 10 earthquake 545-54 AD 1796 May 10 earthquake 545-55 AD 1796 May 10 earthquake 372-375 AD 1872 Datapart 12 earthquake 674 AD 1872 January 12 earthquake 674 AD 1873 Cotober 7 earthquake 676 AD 1860 Cotober 7 earthquake 679 Serpia, AD 1875 Powember 29 earthquake 581-89 September 14 earthquake 581-89 Serpinso, AD 1733 December 23 earthquake 584-586 Seriphos, AD 1733 December 24 earthquake 587 Serjenso, AD 1733 December 25 earthquake 587 Serjos, AD 1799 May 25 major earthquake 584-586 Seriphos, AD 1799 May 25 major earthquake 584-586 Sevenit, AD 1719 May 25 major earthquake 689 Sevenit, AD 1719 May 25 major earthquake 684-455 AD 1766 earthquake 370-371 AD 1534 March 1 earthquake 270-272 AD 1873 December 28 earthquak	•	
Saros Marmara fault zone, AD 1912 August 9 earthquake 18 Sarvandikar fortress, AD 1269 earthquake 583, 584 Sasua, AD 1759 October 30 earthquake 583, 584 Sasua, AD 1866 June 13 earthquake 540 Sayda, AD 1899 Janutary 25 earthquake 540 Sayda, AD 1899 Janutary 25 earthquake 791 Sazan Island, AD 1833 January 19 earthquake and sea wave 642 Scarpantos, AD 1756 February 13 earthquake 581 Scapheia, AD 551 sea wave 204 Schisma, AD 551 earthquake 203-205 Scupi, Macedonia, AD 518 earthquake 180-181 Scutari AD 1667 April 6 major earthquake 80-2-511 AD 1780 September 21 earthquake 609 AD 1862 October 7 earthquake 706 Sea of Marmara c.427 BC earthquake 82-83 c.360 BC earthquake 82-83 c.360 BC earthquake 84-845 AD 123 November 10 earthquake 260-207 AD 557 December earthquake 270-272 AD 558 August 16 earthquake 270-272 AD 539 August 13 earthquake 270-272 AD 1314 November 24 earthquake 270-272 AD 1321 March 11 earthquake 270-272 AD 1334 November 10 earthquake 370-371 AD 1343 October 18 earthquake 370-371 AD 1354 March 1 earthquake 370-375 AD 1509 September 10 earthquake 344-545 AD 179 May 25 major earthquake 545-55 AD 1719 May 25 major earthquake 545-55 AD 1719 May 25 major earthquake 576-57 AD 1862 October 7 earthquake 370-371 AD 1354 November 10 earthquake 370-371 AD 1354 November 10 earthquake 370-371 AD 1354 December 23 earthquake 370-375 AD 1509 September 23 earthquake 370-375 AD 1509 September 24 earthquake 370-375 AD 1509 September 25 earthquake 370-375 AD 1509 September 10 earthquake 370-375 AD 1500 September 26 earthquake 370-375 AD 1500 September 27 earthquake 370-375 AD 1500 September 10 earthquake 370-375 AD 1500 September 28 earthquake 370-375 AD 1500 September 29 earthquake 371-375 AD 1500 September 30 earthquake 370-375 AD 1500 September 3	* *	
Sarvandikar fortress, AD 1269 earthquake 348-349		
Sassan, AD 1759 October 30 earthquake 715 Satmanis, AD 1715 March 8 earthquake 740 Sayda, AD 1899 January 25 earthquake 791 Sazan Island, AD 1833 January 19 earthquake and sea wave 642 Scarpantos, AD 1756 February 13 earthquake 581 Scapheia, AD 551 sea wave 204 Schisma, AD 551 sea wave 204 Schisma, AD 551 sea wave 204 Schisma, AD 551 searthquake 203–205 Scupi, Macedonia, AD 518 earthquake 502–511 AD 1667 April 6 major earthquake 502–511 AD 1780 September 21 earthquake 609 AD 1862 October 7 earthquake 706 Sea of Marmara c.427 BC earthquake 88 AD 123 November 10 earthquake 126 AD 478 September 24 earthquake 206–207 AD 554 August 16 earthquake 206–207 AD 554 August 16 earthquake 206–207 AD 579 December earthquake 227–229 AD 823 October 26 earthquake 240 AD 989 October 26 earthquake 240 AD 989 October 26 earthquake 260–261 AD 1032 August 13 earthquake 260–261 AD 1032 August 13 earthquake 341 AD 1033 August 13 earthquake 341 AD 1034 November 10 earthquake 341 AD 1058 September 23 earthquake 368 Sevenit, AD 1730 December 25 earthquake 543–545 AD 170 Gearthquake 360–27 AD 1579 December earthquake 360–27 AD 131 March 11 earthquake 341 AD 180 September 28 earthquake 360–361 AD 1667 April 6 major earthquake 360 Sevenit, AD 1730 December 25 earthquake 543–545 AD 1760 earthquake 360–376 AD 180 September 28 earthquake 543–545 AD 170 Gearthquake 360–277 AD 558 November 10 earthquake 360 Sevenit, AD 1730 December 25 earthquake 543–545 AD 1760 earthquake 360 Sevenit, AD 1730 December 25 earthquake 543–545 AD 1760 earthquake 372–375 AD 180 September 26 earthquake 360 Sevenit, AD 1790 November 27 AD 1818 earthquake 360 Sevenit, AD 1791 May 25 major earthquake 360 Shaizar AD 1870 Cetober 30 earthquake 360 Shaizar AD 1870 eart		
Sasun, AD 1866 June 13 earthquake 715 Satmanis, AD 1715 March 8 earthquake 540 Sayda, AD 1899 January 25 earthquake 791 Sazan Island, AD 1833 January 19 earthquake and sea wave 642 Scarpantos, AD 1756 February 13 earthquake 581 Scarpheia, AD 551 sarthquake 203–205 Scupi, Macedonia, AD 518 earthquake 180–181 Scutari AD 1567 April 6 major earthquake 502–511 AD 1780 September 21 earthquake 502–511 AD 1780 September 21 earthquake 509 AD 1882 October 7 earthquake 509 Sea of Marmara c.427 BC earthquake 82–83 C.300 BC earthquake 88 AD 123 November 10 earthquake 126 AD 484 earthquake 176–177 AD 554 August 16 earthquake 206–207 AD 587 December earthquake 206–207 AD 588 Jone September 20 earthquake 584 Seven Towers, Istanbul AD 1759 November 25 earthquake 587 Sergaya, AD 1769 September 26 earthquake 587 Sergaya, AD 1769 November 26 earthquake 587 Sergaya, AD 1769 November 26 earthquake 587 Sergaya, AD 1759 November 25 earthquake 587 Sergaya, AD 1759 November 25 earthquake 587 Sergaya, AD 1769 September 26 earthquake 587 Sergaya, AD 1769 November 26 earthquake 587 Sergaya, AD 1769 November 27 Sergaya, AD 1769 November 29 earthquake 587 Sergaya, AD 1769 November 26 earthquake 587 Sergaya, AD 1769 November 26 earthquake 587 Sergaya, AD 1769 November 29 earthquake 584 Seven Towers, Istanbul		To the second se
Satmanis, AD 1715 March 8 earthquake 540 AD 528 November 29 earthquake 189, 190, 191 Sayda, AD 1899 January 25 earthquake 791 AD 558 June earthquake 211–212 Sazan Island, AD 1833 January 19 earthquake 581 Sers Scarpantos, AD 1756 February 13 earthquake 581 Sers Scarpantos, AD 518 ea wave 204 AD 1868 October 19 earthquake 721 Schisma, AD 551 sea wave 204 AD 1869 April 9 earthquake 721 Scupi, Macedonia, AD 518 earthquake 100-181 Secupi Macedonia, AD 518 earthquake 100-181 Scupi, Macedonia, AD 518 earthquake 502-251 AD 1869 April 9 earthquake 735 AD 1867 April 6 major earthquake 502-511 AD 1879 November 25 earthquake 549-550 AD 1862 October 7 earthquake 609 AD 1862 October 7 earthquake 88-88 Serija, AD 1695 September 23 earthquake 527 Sea of Marmara C47 BC earthquake 88-83 C360 BC earthquake 88-83 Seveni AD 1695 September 26 earthquake 527 AD 123 November 10 earthquake 82-83 C360 BC earthquake 176-177 AD 154 earthquake 340 AD 1759 November 25 earthquake 543-545 AD 1940 October 26 earthquake 206-207 AD 254 August 16 earthquake 272-229 AD 1834 March 1 earthquake 272-229 AD 1834 March 1 earthquake 341 AD 1759 November 25 earthquake 340 Shaizar AD 1340 October 18 earthq		
Sayda, AD 1899 January 25 earthquake 791 Sazan Island, AD 1833 January 19 earthquake and sea wave 642 Scarpheia, AD 575 February 13 earthquake 581 Scarpheia, AD 551 sea wave 204 Schisma, AD 551 earthquake 203-205 Scupi, Macedonia, AD 518 earthquake 180-181 Scutari AD 1667 April 6 major earthquake 502-511 AD 1780 September 21 earthquake 609 AD 1862 October 7 earthquake 706 Sea of Marmara c.427 BC earthquake 82 AD 123 November 10 earthquake 266 AD 478 September 24 earthquake and sea wave 174-176 AD 554 August 16 earthquake 206-207 AD 557 December 24 earthquake 206-207 AD 557 December 24 earthquake 207-272 AD 230 Actober 25 earthquake 240 AD 989 October 26 earthquake 240 AD 989 October 26 earthquake 270-272 AD 1231 March 11 earthquake 371 AD 1344 November 6 earthquake 370-371 AD 1354 March 1 earthquake 370-371 AD 1355 May 10 earthquake 8, 422-433 AD 1556 May 10 earthquake 8, 422-433 AD 1556 May 10 earthquake 706 AD 1870 October 8 earthquake 731 AD 1870 October 13 earthquake 732 AD 1877 October 13 earthquake 732 AD 1877 October 13 earthquake 732 AD 1889 May 17 earthquake 732 AD 1898 October 26 earthquake 732 AD 1878 Cetober 13 earthquake 581 AD 1868 October 19 earthquake 732 AD 1868 October 19 earthquake 731 AD 1868 October 19 earthquake 735 AD 1868 October 19 earthquake 584-586 Seriphos, AD 1739 November 25 earthquake 549-550 Sergsya, AD 1759 November 25 earthquake 549-550 Sergsya, AD 1759 November 26 earthquake 527 Sesola, AD 1829 May 55 earthquake 527 Sesola, AD 1829 May 55 earthquake 638 Seven Towers, Istanbul AD 1740 October 26 earthquake 308-211 AD 1740 Tayl May 25 major earthquake 543-545 AD 1760 Earthquake 270-272 AD 1872 March 11 earthquake 341 AD 1873 December 23 earthquake 270-272 AD 1874 Cetober 13 earthquake 260-261 AD 1874 Cetober 13 earthquake 340 AD 1874 Cetober 13 earthquake 340 AD 1874 Cetober 13 earthquake 340 AD 1874 Cetober 13	*	
Serzan Island, AD 1833 January 19 earthquake and sea wave 642 Scarpantos, AD 1756 February 13 earthquake 581 Scarpheia, AD 551 sea wave 204 Schisma, AD 551 earthquake 203–205 Scupi, Macedonia, AD 518 earthquake 180–181 Scutari AD 1667 April 6 major earthquake 502–511 AD 1780 September 21 earthquake 609 AD 1862 October 7 earthquake 609 AD 1862 October 7 earthquake 88 AD 123 November 10 earthquake 126 AD 478 September 24 earthquake 208–211 AD 740 October 26 earthquake 208–211 AD 740 October 26 earthquake 260–261 AD 1032 August 13 earthquake 270–272 AD 833 October earthquake 260–261 AD 1032 August 13 earthquake 270–272 AD 1341 November 2 searthquake 270–272 AD 1341 March 11 earthquake 370–371 AD 1356 May 10 earthquake 372–375 AD 1509 September 10 earthquake 484–455 AD 1796 April 3 earthquake 600 AD 1871 October 8 earthquake 581 AD 1862 October 7 earthquake 270–272 AD 1870 Toctober 10 earthquake 370–371 AD 1566 April 6 major earthquake 370–371 AD 1564 May 10 earthquake 370–375 AD 1862 October 7 earthquake 370–375 AD 1862 October 7 earthquake 371 AD 1870 Appendix Private April 9 earthquake 672 AD 1889 May 17 earthquake 581 Seupi Macedonia, AD 1759 November 25 earthquake 584–586 Seriphos, AD 1733 December 23 earthquake 542 Seriya, AD 1695 September 23 earthquake 527 Sesola, AD 1825 January 19 earthquake 582 Seveni Towers, Istanbul AD 1799 November 25 earthquake 577–578, 580 Sevenit, AD 1719 May 25 major earthquake 543–545 Sfakia, AD 365 July 21 earthquake 340 AD 1870 November 25 earthquake 363–355 AD 161 earthquake 303–311 AD 1870 November 25 earthquake 364–355 AD 1766 Parthquake 369–550 Sergs, AD 1733 December 24 earthquake 527 Sesola, AD 1829 May 5 earthquake 547 Seveni, AD 1719 May 25 major earthquake 548–545 Sfakia, AD 365 July 21 earthquake 340 AD 1870 November 25 earthquake 363 Seven Towers, Istanbul AD 1759 November 25 earthquake 543–545 Sfakia, AD 365 July 21 earthquake 340 AD 1870 November 25 earthquake 363 Seven Towers, Istanbul AD 1759 November 25 earthquake 543–545 Sfakia, AD 365 July 21 earthquake 340 AD	•	
642 AD 1768 April 3 earthquake 600-601 Scarpheia, AD 551 sea wave 204 Schisma, AD 551 sea wave 204 Schisma, AD 551 sea wave 204 Schisma, AD 551 searthquake 203-205 Scupi, Macedonia, AD 518 earthquake 180-181 Scutari AD 1667 April 6 major earthquake 502-511 AD 1780 September 21 earthquake 609 AD 1862 October 7 earthquake 706 Sea of Marmara c.427 BC earthquake 82-83 c.360 BC earthquake 88 AD 123 November 10 earthquake 126 AD 478 September 24 earthquake and sea wave 174-176 AD 554 August 16 earthquake 206-207 AD 557 December earthquake 227-229 AD 823 October 26 earthquake 227-229 AD 823 October 26 earthquake 240 AD 989 October 26 earthquake 240 AD 1980 September 12 earthquake 341 AD 1343 October 18 earthquake 341 AD 1343 October 18 earthquake 372-375 AD 1556 May 10 earthquake 372-375 AD 1556 May 10 earthquake 454-455 AD 179 May 25 major earthquake 372-375 AD 1550 September 10 earthquake 372-375 AD 1570 September 10 earthquake 372-375 AD 1580 September 24 earthquake 372-375 AD 1580 September 25 earthquake 372-375 AD 1580 September 26 earthquake 372-375 AD 1580 September 27 earthquake 372-375 AD 1580 September 28 earthquake 372-375 AD 1580 September 29 earthquake 372-375 AD 1580 September 20		
Scarpantos, AD 1756 February 13 earthquake 581 AD 1868 October 19 earthquake 721 AD 1869 April 9 earthquake 721 AD 1869 April 9 earthquake 721 AD 1869 April 9 earthquake 735 Scupi, Macedonia, AD 518 earthquake 180–181 AD 1862 September 14 earthquake 502–511 AD 1870 September 21 earthquake 609 AD 1862 October 7 earthquake 706 Sea of Marmara C.427 BC earthquake 82–83 C.360 BC earthquake 82	• • •	
Scarpheia, AD 551 sea wave 204 Schisma, AD 551 sea wave 203-205 AD 1872 September 14 earthquake 735 Scupi, Macedonia, AD 518 earthquake 180-181 Sergaya, AD 1739 November 25 earthquake 584-586 Seriphos, AD 1730 December 23 earthquake 549-550 Serros, AD 1780 September 21 earthquake 609 AD 1862 October 7 earthquake 706 Servia, AD 1695 September 26 earthquake 527 Sesola, AD 1825 January 19 earthquake 638 Sevenit, AD 1790 November 25 earthquake 549-550 Servia, AD 1695 September 26 earthquake 638 Sevenit, AD 1790 May 25 major earthquake 543-545 Sfakia, AD 365 July 21 earthquake 540 AD 1875 December 26 earthquake 240 AD 989 October 26 earthquake 240 AD 1980 September 23 earthquake 240 AD 1830 August 13 earthquake 240 AD 1830 August 13 earthquake 240 AD 1830 September 23 earthquake 240 AD 1811 earthquake 340 AD 1179 November 25 earthquake 340 AD 1179 November 25 earthquake 340 AD 1187 earthquake 340 AD 1187 earthquake 340 AD 1187 earthquake 340 AD 1197 June 29 earthquake 340 AD 1187		
Schisma, AD 551 earthquake 203-205 Scupi, Macedonia, AD 518 earthquake 180-181 Sergaya, AD 1759 November 25 earthquake 584-586 Sergaya, AD 1759 November 25 earthquake 549-550 Sergaya, AD 1759 November 25 earthquake 549-550 Serres, AD 1829 May 5 earthquake 640 Servia, AD 1667 April 6 major earthquake 609 AD 1862 October 7 earthquake 609 Servia, AD 1695 September 26 earthquake 640 Servia, AD 1695 September 26 earthquake 527 Sesola, AD 1825 January 19 earthquake 527 Sesola, AD 1825 January 19 earthquake 638 Seven Towers, Istanbul AD 1754 earthquake 82 Sfakia, AD 365 July 25 major earthquake 543-545 Sfakia, AD 365 July 21 earthquake 543-545 Sfakia, AD 365 July 21 earthquake 543-545 Shaizar AD 1759 November 25 earthquake 543-545 AD 1854 August 16 earthquake 206-207 AD 557 December earthquake 208-211 AD 740 October 26 earthquake 227-229 AD 1832 August 13 earthquake 260-261 AD 1903 August 13 earthquake 260-261 AD 1903 August 13 earthquake 260-272 AD 1231 March 11 earthquake 341 AD 1343 October 18 earthquake 341 AD 1343 October 18 earthquake 341 AD 1344 November 6 earthquake 372-375 AD 1509 September 10 earthquake 8, 422-433 AD 1556 May 10 earthquake 454-455 AD 1766 earthquake 590-593, 595-596 AD 1862 October 7 earthquake 731 AD 1872 January 12 earthquake 732 AD 1877 October 13 earthquake 743 AD 1879 Introduce 174, 78, 780 Shoughr monastery, AD 1114 November 29 earthquake 709 AD 1884 earthquake 774, 778, 780 Shoughr monastery, AD 11114 November 29 earthquake 709 Shoughr monastery, AD 11114 Nov		
Scupi, Macedonia, AD 518 earthquake 180–181 Sergaya, AD 1759 November 25 earthquake 584–586 Scriphos, AD 1730 December 23 earthquake 549–550 AD 1667 April 6 major carthquake 609 Serres, AD 1829 May 5 earthquake 640 Servia, AD 1805 September 21 earthquake 609 Servia, AD 1695 September 26 earthquake 527 Sesola, AD 1862 January 19 earthquake 638 Seven Towers, Istanbul AD 1754 earthquake 638 Seven Towers, Istanbul AD 1754 earthquake 577–579, 578, 580 Sevenit, AD 179 May 25 major earthquake 543–545 Sfakia, AD 365 July 21 earthquake 543–545 Sfakia, AD 365 July 21 earthquake 340 AD 1759 November 25 earthquake 583–586 Shahizizur AD 1740 October 26 earthquake 208–211 AD 740 October 26 earthquake 227–229 AD 823 October earthquake 240 AD 989 October 26 earthquake 270–272 AD 1231 March 11 earthquake 240 AD 1311 earthquake 364 AD 1343 October 18 earthquake 270–272 AD 1231 March 11 earthquake 341 AD 1344 November 6 earthquake 370–371 AD 1354 March 1 earthquake 372–375 AD 1509 September 10 earthquake 543–545 AD 1719 May 25 major earthquake 370–371 AD 1870 October 16 earthquake 270–272 AD 1871 October 8 earthquake 570–596 AD 1862 October 7 earthquake 543–545 AD 1796 earthquake 573 AD 1870 October 7 earthquake 731 AD 1871 October 8 earthquake 732 AD 1871 October 13 earthquake 732 AD 1871 October 13 earthquake 732 AD 1870 October 13 earthquake 743 AD 1872 January 12 earthquake 743 AD 1874 Parthquake 574, 778, 780 Shoughr monastery, AD 1114 November 29 earthquake 709 Shoughr monastery, AD 11114 November 29 earthquake		
Seriphos, AD 1733 December 23 earthquake 549–550 AD 1667 April 6 major earthquake 502–511 AD 1780 September 21 earthquake 609 AD 1862 October 7 earthquake 706 Sea of Marmara c.427 BC earthquake 82–83 c.360 BC earthquake 88 AD 123 November 10 earthquake 126 AD 478 September 24 earthquake 126 AD 478 September 24 earthquake and sea wave 174–176 AD 484 earthquake 176–177 AD 554 August 16 earthquake 206–207 AD 557 December earthquake 208–211 AD 740 October 26 earthquake 227–229 AD 823 October 26 earthquake 227–229 AD 823 October 26 earthquake 260–261 AD 1063 September 23 earthquake 260–261 AD 1032 August 13 earthquake 260–261 AD 1343 October 18 earthquake 370–371 AD 1354 March 11 earthquake 341 AD 1343 October 18 earthquake 370–371 AD 1354 March 11 earthquake 370–375 AD 1509 September 10 earthquake 8, 422–433 AD 1566 May 10 earthquake 454–455 AD 1719 May 25 major earthquake 543–545 AD 1766 earthquake 732 AD 1870 October 7 earthquake 732 AD 1871 October 8 earthquake 731 AD 1872 January 12 earthquake 732 AD 1884 earthquakes 774, 778, 780 Serios, AD 1739 May 5e gretmber 26 earthquake 527 Sesola, AD 1829 May 25 major earthquake 543–545 Sfakia, AD 365 July 21 earthquake 340 AD 1799 November 25 earthquake 340 AD 1870 October 30 earthquake 363 Shaizar AD 1170 June 29 earthquake 303–311 AD 1871 October 8 earthquake 370–371 AD 1872 January 19 earthquake 732 AD 1884 Larthquake 370–375 AD 1885 July 25 earthquake 260 Shirakavan, AD 1016 earthquake 260 Shirakavan, AD 1016 earthquake 674 AD 1885 July 25 earthquake 676 AD 1887 October 13 earthquake 676 AD 1886 October 13 earthquake 709 Shoughr monastery, AD 1114 November 29 earthquake	_	
AD 1667 April 6 major earthquake 502–511 AD 1780 September 21 earthquake 609 AD 1862 October 7 earthquake 706 Sea of Marmara c.427 BC earthquake 82–83 c.360 BC earthquake 82–83 c.360 BC earthquake 88 AD 123 November 10 earthquake 126 AD 488 earthquake 176–177 AD 554 August 16 earthquake 206–207 AD 1857 December earthquake 227–229 AD 823 October 26 earthquake 227–229 AD 1032 August 13 earthquake 240 AD 1033 August 13 earthquake 260–261 AD 1034 November 23 earthquake 270–272 AD 1231 March 11 earthquake 341 AD 1343 October 18 earthquake 370–371 AD 1354 March 1 earthquake 372–375 AD 1359 September 10 earthquake 8, 422–433 AD 1556 May 10 earthquake 633–545 AD 1790 May 25 major earthquake 732 AD 1870 October 8 earthquake 732 AD 1871 October 8 earthquake 732 AD 1871 October 13 earthquake 732 AD 1884 earthquakes 774, 778, 780 AD 1894 earthquakes 774, 778, 780 Serven, AD 1892 September 26 earthquake 527 Sesola, AD 1852 Spatuary 19 earthquake 638 Seveni AD 1895 Septembers 57–579, 578, 580 Sevenit, AD 1719 May 25 major earthquake 345 Sfakia, AD 365 July 21 earthquake 343 AD 1856 May 10 earthquake 732 AD 1853 July 25 earthquake 644 AD 1854 January 19 earthquake 648 Seven Towers, Istanbul AD 1754 earthquake 577–579, 578, 580 Sevenit, AD 1719 May 25 major earthquake 308 Sevenit, AD 1719 May 25 major earthquake 308 Sevenit, AD 1719 May 25 najor earthquake 308 Shahizur AD 1809 October 18 earthquake 340 AD 1870 October 30 earthquake 370–371 Shail arthquake 308 Shailmar, AD 1157 carthquake 304 AD 1870 November 25 earthquake 308 Shailmar, AD 1157 october 11 earthquake 304 Shailmar, AD 113	*	
AD 1780 September 21 earthquake 609 AD 1862 October 7 earthquake 706 Sea of Marmar c.427 BC earthquake 82–83 c.360 BC earthquake 88 AD 123 November 10 earthquake 126 AD 478 September 24 earthquake and sea wave 174–176 AD 484 earthquake 176–177 AD 554 August 16 earthquake 206–207 AD 557 December earthquake 227–229 AD 823 October 26 earthquake 240 AD 1832 August 13 earthquake 260–261 AD 1063 September 26 earthquake 341 AD 1790 Wester 26 earthquake 341 AD 1334 October 18 earthquake 341 AD 1344 November 6 earthquake 370–371 AD 1590 September 10 earthquake 8, 422–433 AD 1590 September 10 earthquake 8, 422–433 AD 1870 October 8 earthquake 706 AD 1871 October 8 earthquake 706 AD 1871 October 8 earthquake 706 AD 1871 October 12 earthquake 732 AD 1889 May 17 earthquake 732 AD 1889 May 17 earthquake 774, 778, 780 Seveni, AD 169 September 26 earthquake 588 Seven Towers, Istanbul AD 1872 January 12 earthquake 543–545 Sfakia, AD 179 May 25 major earthquake 368 Sevenit, AD 179 May 25 major earthquake 304–515 Sfakia, AD 365 July 21 earthquake 340 AD 1870 October 26 earthquake 207–207 AD 1226 November 18 earthquake 340 AD 1157 earthquake 303–311 AD 1157 earthquake 303–311 AD 1160 earthquake 310–325 AD 1862 October 13 earthquake 371 AD 1889 May 17 earthquake 732 AD 1889 May 17 earthquake 732 AD 1889 May 17 earthquake 743 AD 1889 May 17 earthquake 774, 778, 780 Seven Towers, Istanbul AD 1875 Acuthquake 577–579, 578, 580 Sevenit, AD 1895 September 26 earthquake 543–545 Sfakia, AD 1870 November 25 earthquake 340 AD 1889 Earthquake 304–311 AD 1157 earthquake 303–311 AD 1170 June 29 earthquake 310–325 AD 1860 Potember 20 earthquake 304–311 Shamakha, AD 1191–1192 earthquake 304–311 Shamakha, AD 1189 Acuthquake 304–311 Shamakha, AD 1189 August 13 earthquake 260 Shikaghi, AD 1892 August 13 earthquake 633–635 Shilfatiya, AD 1799 November 25 earthquake 676 AD 1889 May 17 e		
Sesola, AD 1825 January 19 earthquake 638 Sea of Marmara c.427 BC earthquake 82		
Sea of Marmara Seven Towers, Istanbul c.427 BC earthquake 82-83 c.360 BC earthquake 88 AD 123 November 10 earthquake 126 Sfakia, AD 365 July 21 earthquake and sea wave 152 AD 478 September 24 earthquake and sea wave 174-176 Sfakia, AD 365 July 21 earthquake and sea wave 152 AD 484 earthquake 176-177 AD 557 December earthquake 206-207 AD 1759 November 25 earthquake 583-586 AD 740 October 26 earthquake 227-229 Shadizar AD 823 October earthquake 240 AD 1311 earthquake 363 AD 1032 August 13 earthquake 256-257 AD 1032 August 13 earthquake 270-272 AD 1157 earthquake 316-325 AD 1063 September 23 earthquake 270-272 AD 1343 October 18 earthquake 372-375 AD 1661 earthquake 496 AD 1344 November 6 earthquake 372-375 Shalimar, AD 1157 August 12 earthquake or liquifaction 235 AD 1509 September 10 earthquake 454-455 Shilf fort, AD 1138 October 11 earthquake 295-296 AD 1719 May 25 major earthquake 543-545 Shalimar, AD 1157 earthquake 363 AD 1862 October 7 earthquake 544-545 Shilf fort, AD 1138 October 11 earthquake 205-296 AD 1870 October 8 earthquake 706 Shikaghi, AD 1822 August 13 earthquake 674 AD 1871 October 8 earthquake 732 AD 1854 January 15 earthquak		
c.427 BC earthquake 82–83	•	* *
c.360 BC earthquake 88 AD 123 November 10 earthquake 126 AD 478 September 24 earthquake and sea wave 174–176 AD 484 earthquake 176–177 AD 554 August 16 earthquake 206–207 AD 557 December earthquake 208–211 AD 740 October 26 earthquake 227–229 AD 823 October 26 earthquake 256–257 AD 1032 August 13 earthquake 260–261 AD 1063 September 23 earthquake 270–272 AD 1344 November 25 earthquake 270–272 AD 1344 November 6 earthquake 340 AD 1340 October 18 earthquake 341 AD 1343 March 11 earthquake 370–371 AD 1354 March 1 earthquake 370–371 AD 1356 May 10 earthquake 454–455 AD 1790 May 25 major earthquake 543–545 AD 1790 November 25 earthquake 340 AD 1870 October 26 earthquake 306–207 AD 1871 October 8 earthquake 706 AD 1871 October 8 earthquake 731 AD 1872 January 12 earthquake 732 AD 1889 May 17 earthquake 757–758 AD 1889 May 17 earthquake 774, 778, 780 Sevenit, AD 1719 May 25 major earthquake 543–545 Sfakia, AD 365 July 21 earthquake 340 AD 1759 November 25 earthquake 340 AD 1870 November 18 earthquake 340 AD 1870 November 18 earthquake 340 AD 1870 November 29 earthquake 363 AD 1880 May 17 earthquake 206–207 AD 1870 October 13 earthquake 496 AD 1880 May 17 earthquake 757–758 AD 1894 earthquake 774, 778, 780 Sevenit, AD 1719 May 25 major earthquake 340 AD 1759 November 25 earthquake 340 AD 1870 November 25 earthquake 363 AD 1889 May 17 earthquake 375–5758 AD 1894 earthquake 8 40 AD 1870 October 13 earthquake 709 Shoughr monastery, AD 1114 November 29 earthquake		
AD 123 November 10 earthquake 126 AD 478 September 24 earthquake and sea wave 174–176 AD 484 earthquake 176–177 AD 554 August 16 earthquake 206–207 AD 557 December earthquake 227–229 AD 823 October 26 earthquake 240 AD 989 October 26 earthquake 256–257 AD 1032 August 13 earthquake 260–261 AD 1063 September 23 earthquake 270–272 AD 1231 March 11 earthquake 341 AD 1344 November 6 earthquake 370–371 AD 1356 May 10 earthquake 454–455 AD 1719 May 25 major earthquake 766 AD 1870 October 13 earthquake 731 AD 1870 October 13 earthquake 732 AD 1889 May 17 earthquake 774, 778, 780 Sfakia, AD 365 July 21 earthquake and sea wave 152 Shaad, AD 1759 November 25 earthquake 340 AD 1226 November 18 earthquake 340 AD 1226 November 18 earthquake 340 AD 1226 November 18 earthquake 363 Shaizar AD 1157 earthquake 303–311 AD 1170 June 29 earthquake 304–311 Shamakha, AD 1191–1192 earthquake 326 Sharon Valley, AD 747–9? earthquake 326 Sharon Valley, AD 747–9? earthquake 295–296 Shiffatiya, AD 1759 November 25 earthquake 633–635 Shiffatiya, AD 1250 November 25 earthquake 295–296 Sharizar AD 126 November 18 earthquake 340 AD 126 November 18 earthquake 340 AD 126 November 18 earthquake 340 AD 1157 earthquake 303–311 AD 1170 June 29 earthquake 304–311 Shamakha, AD 1191–1192 earthquake 326 Sharon Valley, AD 747–9? earthquake or liquifaction 235 Shear, en echelon 22, 23, 24 Shif fort, AD 1138 October 11 earthquake 295–296 Shiffatiya, AD 1759 November 25 earthquake 634–635 Sharizar AD 1157 earthquake 303–311 AD 1170 June 29 earthquake 304–311 Shamakha, AD 1191–1192 earthquake 304–311 Shamakha, AD 1191–1192 earthquake 326 Sharon Valley, AD 747–9? earthquake 636-635 Shiffatiya, AD 1759 November 25 earthquake 636-65 Shiffatiya, AD 1759 November 25 earthquake 636-65 Shiffatiya, AD 1759 November 25 earthquake 676 AD 1872 January 12 earthquake 731 AD 1853 July 25 earthquake 674 AD 1854 January 15 earthquake 676 AD 1854 January 15 earthquake 676 AD 1854 January 15 earthquake 676 AD 1864 October 13 earthquake 774, 778, 780	•	-
AD 478 September 24 earthquake and sea wave 174–176 AD 484 earthquake 176–177 AD 554 August 16 earthquake 206–207 AD 557 December earthquake 208–211 AD 740 October 26 earthquake 227–229 AD 823 October earthquake 240 AD 989 October 26 earthquake 260–261 AD 1032 August 13 earthquake 260–261 AD 1033 September 23 earthquake 270–272 AD 1231 March 11 earthquake 341 AD 1343 October 18 earthquake 370–371 AD 1354 March 1 earthquake 372–375 AD 1509 September 10 earthquake 372–375 AD 1509 September 10 earthquake 454–455 AD 1719 May 25 major earthquake 543–545 AD 1766 earthquakes 590–593, 595–596 AD 1862 October 7 earthquake 706 AD 1871 October 8 earthquake 731 AD 1872 January 12 earthquake 732 AD 1889 May 17 earthquake 743 AD 1894 earthquakes 774, 778, 780 Shaad, AD 1759 November 25 earthquake 340 AD 1226 November 18 earthquake 340 AD 1226 November 18 earthquake 340 AD 1211 earthquake 363 Shaizar AD 1211 earthquake 363 Shaizar AD 1170 June 29 earthquake 316–325 AD 11601 earthquake 316–325 AD 11601 earthquake 326 Sharon Valley, AD 747–97 earthquake or liquifaction 235 shear, en echelon 22, 23, 24 Shih fort, AD 1138 October 11 earthquake 633–635 Shilfatiya, AD 1759 November 25 earthquake and landslide Shirakavan, AD 1016 earthquake 295–296 Shirakavan, AD 1016 earthquake 260 Shkoder AD 1870 October 13 earthquake 743 AD 1889 May 17 earthquake 743 AD 1894 earthquakes 774, 778, 780 Shoughr monastery, AD 1114 November 29 earthquake		· · · · · · · · · · · · · · · · · · ·
AD 484 earthquake 176–177 AD 554 August 16 earthquake 206–207 AD 557 December earthquakes 208–211 AD 740 October 26 earthquake 227–229 AD 823 October 26 earthquake 240 AD 989 October 26 earthquake 260–261 AD 1032 August 13 earthquake 260–261 AD 1033 September 23 earthquake 270–272 AD 1231 March 11 earthquake 341 AD 1343 October 18 earthquake 370–371 AD 1354 March 1 earthquake 370–371 AD 1354 March 1 earthquake 372–375 AD 1509 September 10 earthquake 8, 422–433 AD 1556 May 10 earthquake 454–455 AD 1766 earthquakes 590–593, 595–596 AD 1862 October 7 earthquake 706 AD 1871 October 8 earthquake 732 AD 1872 January 12 earthquake 732 AD 1889 May 17 earthquake 743 AD 1894 earthquakes 774, 778, 780 Shahrizur AD 1226 November 18 earthquake 363 AD 1311 earthquake 363 AD 1311 earthquake 303–311 AD 1311 earthquake 303–311 AD 1157 earthquake 303–311 AD 1157 earthquake 303–311 AD 1160 earthquake 316–325 AD 1161 earthquake 304–311 Shamakha, AD 1191–1192 earthquake or liquifaction 235 Sharon Valley, AD 747–97 earthquake or liquifaction 235 Shirak, AD 1188 October 11 earthquake 295–296 Shirakayan, AD 1189 November 25 earthquake and landslide Shirakayan, AD 1016 earthquake 260 Shkoder AD 1870 October 13 earthquake 732 AD 1854 January 15 earthquake 676 AD 1889 May 17 earthquake 743 AD 1889 May 17 earthquake 757–758 AD 1894 earthquakes 774, 778, 780 Shoughr monastery, AD 1114 November 29 earthquake		
AD 554 August 16 earthquake 206–207 AD 557 December earthquakes 208–211 AD 740 October 26 earthquake 227–229 AD 823 October earthquake 240 AD 1157 earthquakes 303–311 AD 1989 October 26 earthquake 256–257 AD 1032 August 13 earthquake 260–261 AD 1063 September 23 earthquake 270–272 AD 1231 March 11 earthquake 341 AD 1343 October 18 earthquake 341 AD 1344 November 6 earthquake 370–371 AD 1354 March 1 earthquake 372–375 AD 1509 September 10 earthquake 8, 422–433 AD 1556 May 10 earthquake 454–455 AD 1766 earthquakes 590–593, 595–596 AD 1862 October 7 earthquake 706 AD 1871 October 8 earthquake 732 AD 1889 May 17 earthquake 743 AD 1894 earthquakes 774, 778, 780 AD 1802 November 18 earthquake 363 AD 1311 earthquake 303–311 AD 1316 earthquake 303–311 AD 1157 earthquake 303–311 AD 1157 August 12 earthquake 304–311 Shamakha, AD 1191–1192 earthquake 326 Sharon Valley, AD 747–9? earthquake or liquifaction 235 shear, en echelon 22, 23, 24 Shih fort, AD 1138 October 11 earthquake 295–296 Shikaghi, AD 1822 August 13 earthquake 633–635 Shifatiya, AD 1759 November 25 earthquake and landslide 585 Shirakavan, AD 1016 earthquake 260 Shkoder AD 1872 January 12 earthquake 732 AD 1884 January 15 earthquake 676 AD 1889 May 17 earthquake 743 AD 1889 May 17 earthquake 757–758 AD 1894 earthquakes 774, 778, 780 Shoughr monastery, AD 1114 November 29 earthquake	· · · · · · · · · · · · · · · · · · ·	
AD 557 December earthquakes 208–211 AD 740 October 26 earthquake 227–229 AD 823 October earthquake 240 AD 989 October 26 earthquake 256–257 AD 1032 August 13 earthquake 260–261 AD 1063 September 23 earthquake 270–272 AD 1231 March 11 earthquake 341 AD 1343 October 18 earthquake 341 AD 1354 March 1 earthquake 370–371 AD 1354 March 1 earthquake 372–375 AD 1509 September 10 earthquake 8, 422–433 AD 1556 May 10 earthquake 454–455 AD 179 May 25 major earthquake 743 AD 1872 January 12 earthquake 732 AD 1889 May 17 earthquake 743 AD 1894 earthquakes 774, 778, 780 AD 180 Cotober 13 earthquake 709 AD 1894 earthquakes 774, 778, 780 AD 180 Cotober 13 earthquake 709 Shoughr monastery, AD 1114 November 29 earthquake		
AD 740 October 26 earthquake 227–229 AD 823 October earthquake 240 AD 989 October 26 earthquake 256–257 AD 1032 August 13 earthquake 260–261 AD 1063 September 23 earthquake 270–272 AD 1231 March 11 earthquake 341 AD 1343 October 18 earthquake 370–371 AD 1354 March 1 earthquake 372–375 AD 1509 September 10 earthquake 372–375 AD 1556 May 10 earthquake 454–455 AD 1719 May 25 major earthquake 543–545 AD 1862 October 7 earthquake 706 AD 1871 October 8 earthquake 731 AD 1872 January 12 earthquake 743 AD 1889 May 17 earthquake 757–758 AD 1894 earthquakes 774, 778, 780 Shaizar AD 1157 earthquakes 303–311 AD 1170 June 29 earthquake 316–325 AD 1166 earthquake 496 Shalimar, AD 1157 August 12 earthquake 304–311 Shamakha, AD 1191–1192 earthquake 326 Sharon Valley, AD 747–9? earthquake or liquifaction 235 shear, en echelon 22, 23, 24 Shih fort, AD 1138 October 11 earthquake 295–296 Shikaghi, AD 1822 August 13 earthquake 633–635 Shilfatiya, AD 1759 November 25 earthquake and landslide 585 Shirakavan, AD 1016 earthquake 260 Shkoder AD 1871 October 8 earthquake 731 AD 1853 July 25 earthquake 674 AD 1854 January 15 earthquake 676 AD 1879 October 13 earthquake 743 AD 1889 May 17 earthquake 757–758 AD 1894 earthquakes 774, 778, 780 Shoughr monastery, AD 1114 November 29 earthquake		
AD 823 October earthquake 240 AD 1157 earthquakes 303–311 AD 989 October 26 earthquake 256–257 AD 1032 August 13 earthquake 260–261 AD 1063 September 23 earthquake 270–272 AD 1231 March 11 earthquake 341 AD 1343 October 18 earthquakes and sea wave 367–369 AD 1344 November 6 earthquake 370–371 AD 1354 March 1 earthquake 372–375 AD 1509 September 10 earthquake 8, 422–433 AD 1509 September 10 earthquake 454–455 AD 1719 May 25 major earthquake 543–545 AD 1766 earthquakes 590–593, 595–596 AD 1871 October 8 earthquake 706 AD 1872 January 12 earthquake 732 AD 1889 May 17 earthquake 757–758 AD 1894 earthquakes 774, 778, 780 AD 1894 earthquakes 774, 778, 780 AD 1894 earthquakes 774, 778, 780 AD 1894 earthquakes 731 AD 1157 earthquake 316–325 AD 1170 June 29 earthquake 316–325 AD 11661 earthquake 496 Shalimar, AD 1157 August 12 earthquake 304–311 Shamakha, AD 1191–1192 earthquake 326 Sharon Valley, AD 747–9? earthquake or liquifaction 235 Sharon Valley, AD 747–9? earthquake 295–296 Sharon Valley, AD 747–9? earthquake 295–296 Sharon Valley, AD 747–9? earthquake 295–296 Shirkaghi, AD 1138 October 11 earthquake 295–296 Shirkaghi, AD 1822 August 13 earthquake 633–635 Shilfatiya, AD 1759 November 25 earthquake and landslide Shirakavan, AD 1016 earthquake 260 Shkoder AD 1871 October 8 earthquake 731 AD 1885 July 25 earthquake 674 AD 1855 earthquake 681, 682 AD 1889 May 17 earthquake 757–758 AD 1864 October 13 earthquake 709 Shoughr monastery, AD 1114 November 29 earthquake		
AD 989 October 26 earthquake 256–257 AD 1032 August 13 earthquake 260–261 AD 1063 September 23 earthquake 270–272 AD 1231 March 11 earthquake 341 AD 1231 March 11 earthquake 341 AD 1343 October 18 earthquakes and sea wave 367–369 AD 1354 November 6 earthquake 372–375 AD 1509 September 10 earthquake 8, 422–433 AD 1556 May 10 earthquake 454–455 AD 1766 earthquakes 590–593, 595–596 AD 1862 October 7 earthquake 706 AD 1871 October 8 earthquake 732 AD 1889 May 17 earthquake 743 AD 1894 earthquakes 774, 778, 780 AD 1170 June 29 earthquake 316–325 AD 1661 earthquake 496 AD 1157 August 12 earthquake 304–311 Shamakha, AD 1191–1192 earthquake 326 Sharon Valley, AD 747–9? earthquake or liquifaction 235 shear, en echelon 22, 23, 24 Shih fort, AD 1138 October 11 earthquake 295–296 Shikaghi, AD 1822 August 13 earthquake 633–635 Shilfatiya, AD 1759 November 25 earthquake and landslide 585 Shirakavan, AD 1016 earthquake 260 Shkoder AD 1870 October 8 earthquake 731 AD 1889 May 17 earthquake 743 AD 1889 May 17 earthquake 743 AD 1894 earthquakes 774, 778, 780 Shoughr monastery, AD 1114 November 29 earthquake	*	
AD 1032 August 13 earthquake 260–261 AD 1063 September 23 earthquake 270–272 AD 1231 March 11 earthquake 341 AD 1343 October 18 earthquakes and sea wave 367–369 AD 1344 November 6 earthquake 370–371 AD 1354 March 1 earthquake 372–375 AD 1509 September 10 earthquake 8, 422–433 AD 1566 May 10 earthquake 454–455 AD 1719 May 25 major earthquake 543–545 AD 1766 earthquakes 590–593, 595–596 AD 1862 October 7 earthquake 706 AD 1871 October 8 earthquake 732 AD 1889 May 17 earthquake 743 AD 1894 earthquakes 774, 778, 780 AD 1661 earthquake 496 Shalimar, AD 1157 August 12 earthquake 304–311 Shamakha, AD 1191–1192 earthquake 326 Sharon Valley, AD 747–9? earthquake or liquifaction 235 shear, en echelon 22, 23, 24 Shih fort, AD 1138 October 11 earthquake 295–296 Shikaghi, AD 1822 August 13 earthquake 633–635 Shilfatiya, AD 1759 November 25 earthquake and landslide Sharon Valley, AD 747–9? earthquake 295–296 Shikaghi, AD 1138 October 11 earthquake 295–296 Shikaghi, AD 1822 August 13 earthquake 633–635 Shilfatiya, AD 1759 November 25 earthquake and landslide Sharon Valley, AD 747–9? earthquake 634 Sharon Valley, AD 747–9? earthquake 295–296 Shikaghi, AD 1138 October 11 earthquake 295–296 Shikaghi, AD 1822 August 13 earthquake 633–635 Shilfatiya, AD 1759 November 25 earthquake 640 Shkoder AD 1870 October 8 earthquake 706 AD 1870 October 13 earthquake 774 AD 1854 January 15 earthquake 676 AD 1855 earthquakes 681, 682 AD 1864 October 13 earthquake 709 Shoughr monastery, AD 1114 November 29 earthquake		
AD 1063 September 23 earthquake 270–272 AD 1231 March 11 earthquake 341 AD 1343 October 18 earthquakes and sea wave 367–369 AD 1344 November 6 earthquake 370–371 AD 1354 March 1 earthquake 372–375 AD 1509 September 10 earthquake 8, 422–433 AD 1556 May 10 earthquake 454–455 AD 1719 May 25 major earthquake 543–545 AD 1862 October 7 earthquake 706 AD 1871 October 8 earthquake 731 AD 1872 January 12 earthquake 732 AD 1889 May 17 earthquake 757–758 AD 1894 earthquakes 774, 778, 780 Shalimar, AD 1157 August 12 earthquake 304–311 Shamakha, AD 1191–1192 earthquake 326 Sharon Valley, AD 747–9? earthquake or liquifaction 235 shear, en echelon 22, 23, 24 Shih fort, AD 1138 October 11 earthquake 295–296 Shikaghi, AD 1822 August 13 earthquake 633–635 Shilfatiya, AD 1759 November 25 earthquake and landslide Shikaghi, AD 1825 August 13 earthquake 635 Shilfatiya, AD 1759 November 25 earthquake and landslide Shkoder AD 1853 July 25 earthquake 674 AD 1854 January 15 earthquake 676 AD 1855 earthquakes 681, 682 AD 1864 October 13 earthquake 709 Shoughr monastery, AD 1114 November 29 earthquake		
AD 1231 March 11 earthquake 341 AD 1343 October 18 earthquake 340 AD 1344 November 6 earthquake 370–371 AD 1354 March 1 earthquake 372–375 AD 1509 September 10 earthquake 454–455 AD 1506 May 10 earthquake 543–545 AD 1706 earthquakes 590–593, 595–596 AD 1862 October 7 earthquake 706 AD 1872 January 12 earthquake 732 AD 1879 May 17 earthquake 743 AD 1889 May 17 earthquake 757–758 AD 1894 earthquakes 774, 778, 780 Shamakha, AD 1191–1192 earthquake 326 Sharon Valley, AD 747–9? earthquake or liquifaction 235 shear, en echelon 22, 23, 24 Shih fort, AD 1138 October 11 earthquake 295–296 Shikaghi, AD 1822 August 13 earthquake 633–635 Shilfatiya, AD 1759 November 25 earthquake and landslide Sharon Valley, AD 747–9? earthquake 295–296 Shikaghi, AD 1138 October 11 earthquake 295–296 Shikaghi, AD 1822 August 13 earthquake 633–635 Shilfatiya, AD 1759 November 25 earthquake and landslide Shoughr monastery, AD 1016 earthquake 6674 AD 1853 July 25 earthquake 674 AD 1854 January 15 earthquake 676 AD 1855 earthquakes 681, 682 AD 1864 October 13 earthquake 709 Shoughr monastery, AD 1114 November 29 earthquake		-
AD 1343 October 18 earthquakes and sea wave 367–369 AD 1344 November 6 earthquake 370–371 AD 1354 March 1 earthquake 372–375 AD 1509 September 10 earthquake 8, 422–433 AD 1556 May 10 earthquake 454–455 AD 1719 May 25 major earthquake 543–545 AD 1766 earthquakes 590–593, 595–596 AD 1862 October 7 earthquake 706 AD 1871 October 8 earthquake 731 AD 1872 January 12 earthquake 732 AD 1889 May 17 earthquake 743 AD 1894 earthquakes 774, 778, 780 Sharon Valley, AD 747–9? earthquake or liquifaction 235 shear, en echelon 22, 23, 24 Shih fort, AD 1138 October 11 earthquake 295–296 Shikaghi, AD 1822 August 13 earthquake 633–635 Shilfatiya, AD 1759 November 25 earthquake and landslide Sharon Valley, AD 747–9? earthquake 295–296 Shikaghi, AD 1138 October 11 earthquake 633–635 Shikaghi, AD 1822 August 13 earthquake and landslide Shirakavan, AD 1016 earthquake 260 Shkoder AD 1853 July 25 earthquake 674 AD 1854 January 15 earthquake 676 AD 1855 earthquakes 681, 682 AD 1864 October 13 earthquake 709 Shoughr monastery, AD 1114 November 29 earthquake	· · · · · · · · · · · · · · · · · · ·	
AD 1344 November 6 earthquake 370–371 AD 1354 March 1 earthquake 372–375 AD 1509 September 10 earthquake 8, 422–433 AD 1556 May 10 earthquake 454–455 AD 1719 May 25 major earthquake 543–545 AD 1766 earthquakes 590–593, 595–596 AD 1862 October 7 earthquake 706 AD 1871 October 8 earthquake 731 AD 1872 January 12 earthquake 732 AD 1889 May 17 earthquake 743 AD 1894 earthquakes 774, 778, 780 AD 1894 earthquakes 774, 778, 780 Shindar, en echelon 22, 23, 24 Shih fort, AD 1138 October 11 earthquake 295–296 Shikaghi, AD 1822 August 13 earthquake 633–635 Shikaghi, AD 1822 August 13 earthquake 633–635 Shikaghi, AD 1759 November 25 earthquake and landslide Shkoder AD 1853 July 25 earthquake 260 Shkoder AD 1854 January 15 earthquake 676 AD 1855 earthquakes 681, 682 AD 1864 October 13 earthquake 709 Shoughr monastery, AD 1114 November 29 earthquake		
AD 1354 March 1 earthquake 372–375 AD 1509 September 10 earthquake 8, 422–433 AD 1556 May 10 earthquake 454–455 AD 1719 May 25 major earthquake 543–545 AD 1766 earthquakes 590–593, 595–596 AD 1862 October 7 earthquake 706 AD 1871 October 8 earthquake 731 AD 1872 January 12 earthquake 732 AD 1874 October 13 earthquake 743 AD 1889 May 17 earthquake 757–758 AD 1894 earthquakes 774, 778, 780 Shih fort, AD 1138 October 11 earthquake 265 Shikaghi, AD 1822 August 13 earthquake 633–635 Shikaghi, AD 1759 November 25 earthquake and landslide 585 Shirakavan, AD 1016 earthquake 260 Shkoder AD 1853 July 25 earthquake 674 AD 1854 January 15 earthquake 676 AD 1855 earthquakes 681, 682 AD 1864 October 13 earthquake 709 Shoughr monastery, AD 1114 November 29 earthquake	-	
AD 1509 September 10 earthquake 8, 422–433 AD 1556 May 10 earthquake 454–455 AD 1719 May 25 major earthquake 543–545 AD 1766 earthquakes 590–593, 595–596 AD 1862 October 7 earthquake 706 AD 1871 October 8 earthquake 731 AD 1872 January 12 earthquake 732 AD 1874 October 13 earthquake 743 AD 1889 May 17 earthquake 757–758 AD 1894 earthquakes 774, 778, 780 Shikaghi, AD 1822 August 13 earthquake 633–635 Shikaghi, AD 1879 November 25 earthquake and landslide 585 Shirakavan, AD 1016 earthquake 260 Shkoder AD 1853 July 25 earthquake 674 AD 1854 January 15 earthquake 676 AD 1855 earthquakes 681, 682 AD 1864 October 13 earthquake 709 Shoughr monastery, AD 1114 November 29 earthquake		
AD 1556 May 10 earthquake 454–455 AD 1719 May 25 major earthquake 543–545 AD 1766 earthquakes 590–593, 595–596 AD 1862 October 7 earthquake 706 AD 1871 October 8 earthquake 731 AD 1872 January 12 earthquake 732 AD 1874 October 13 earthquake 743 AD 1889 May 17 earthquake 757–758 AD 1894 earthquakes 774, 778, 780 Shifatiya, AD 1759 November 25 earthquake and landslide 585 Shirakavan, AD 1016 earthquake 260 Shkoder AD 1853 July 25 earthquake 674 AD 1854 January 15 earthquake 676 AD 1855 earthquakes 681, 682 AD 1889 May 17 earthquake 757–758 AD 1864 October 13 earthquake 709 Shoughr monastery, AD 1114 November 29 earthquake	-	•
AD 1719 May 25 major earthquake 543–545 AD 1766 earthquakes 590–593, 595–596 AD 1862 October 7 earthquake 706 AD 1871 October 8 earthquake 731 AD 1872 January 12 earthquake 732 AD 1874 October 13 earthquake 743 AD 1875 earthquake 676 AD 1889 May 17 earthquake 757–758 AD 1894 earthquakes 774, 778, 780 Shoughr monastery, AD 1114 November 29 earthquake	-	
AD 1766 earthquakes 590–593, 595–596 AD 1862 October 7 earthquake 706 AD 1871 October 8 earthquake 731 AD 1872 January 12 earthquake 732 AD 1874 January 15 earthquake 676 AD 1875 October 13 earthquake 743 AD 1889 May 17 earthquake 757–758 AD 1894 earthquakes 774, 778, 780 Shirakavan, AD 1016 earthquake 260 Shkoder AD 1853 July 25 earthquake 674 AD 1854 January 15 earthquake 676 AD 1855 earthquakes 681, 682 AD 1864 October 13 earthquake 709 Shoughr monastery, AD 1114 November 29 earthquake	*	
AD 1862 October 7 earthquake 706 AD 1871 October 8 earthquake 731 AD 1872 January 12 earthquake 732 AD 1874 January 15 earthquake 676 AD 1875 October 13 earthquake 743 AD 1885 earthquake 681, 682 AD 1889 May 17 earthquake 757–758 AD 1894 earthquakes 774, 778, 780 Shoughr monastery, AD 1114 November 29 earthquake		
AD 1871 October 8 earthquake 731 AD 1872 January 12 earthquake 732 AD 1874 January 15 earthquake 674 AD 1875 October 13 earthquake 743 AD 1885 Earthquake 676 AD 1885 earthquake 681, 682 AD 1889 May 17 earthquake 757–758 AD 1894 earthquakes 774, 778, 780 Shoughr monastery, AD 1114 November 29 earthquake		
AD 1872 January 12 earthquake 732 AD 1874 January 15 earthquake 676 AD 1877 October 13 earthquake 743 AD 1885 earthquakes 681, 682 AD 1889 May 17 earthquake 757–758 AD 1894 earthquakes 774, 778, 780 AD 1894 earthquakes 774, 778, 780 Shoughr monastery, AD 1114 November 29 earthquake	_	
AD 1877 October 13 earthquake 743 AD 1889 May 17 earthquake 757–758 AD 1894 earthquakes 774, 778, 780 AD 1894 earthquakes 774, 778, 780 AD 1895 earthquakes 681, 682 AD 1864 October 13 earthquake 709 Shoughr monastery, AD 1114 November 29 earthquake	-	*
AD 1889 May 17 earthquake 757–758 AD 1864 October 13 earthquake 709 AD 1894 earthquakes 774, 778, 780 Shoughr monastery, AD 1114 November 29 earthquake		
AD 1894 earthquakes 774, 778, 780 Shoughr monastery, AD 1114 November 29 earthquake		•
		•

Shoumen, AD 1887 January 24 earthquake 752

AD 1896 earthquakes 783, 784



Index 941

Shugr-Bekas, AD 1408 December 29 earthquake 384–385 Shumimis, AD 1157 August 12 earthquake 305 Šibenik, AD 1667 April 6 major earthquake 501–511 Sichem, AD 1546 January 14 earthquake 444-451 Sicily AD 361 June earthquake 147 AD 365 July 21 earthquake 152 AD 1021 earthquake 260 AD 1429 November 10 earthquake 390 AD 1693 January 11 earthquake 525 Sicyone, AD 141–142 earthquake 128 Sidirokastro, AD 1843 April 21 earthquake 656 Sidon c.198 BC earthquake 93 AD 303 April 2 earthquake 140 AD 502 earthquake 179 AD 551 July earthquake 199-203 AD 1815 April 1 earthquake 629 AD 1837 January 1 earthquake 645 Sidga, AD 713 February 28 earthquake 224–225 Silakhor, AD 1909 earthquake 17 Silifke AD 1884 September 21 earthquake 750 AD 1891 October 2 earthquake 763 Silivri AD 1509 September 10 earthquake 422-433 AD 1766 August 5 earthquake 595-596 Simav, AD 1728 September 16 earthquake 548 Simi, AD 1869 April 18 earthquake 721 simultaneity 57 Sinai AD 1068 March 18 earthquake 272, 274 AD 1091 February 12 earthquake 278 AD 1212 May 1 earthquake 337-338 AD 1588 January 4 earthquake 467 AD 1814 June 27 earthquake 628 AD 1879 July 11 earthquake and sea wave 744 Sinjar, AD 1887 May 23 earthquake 753 AD 1847 April 11 earthquake 662 AD 1880 March landslide 744 Sipandag, AD c.340 volcanic eruption 142 Siphnos, AD 1733 December 23 earthquake 549–550 Sirak, AD 1320 earthquake 364 Sirtsi AD 1853 earthquakes 674-675 Sis, AD 1269 earthquake 348–349 Sistos, AD 484 earthquake 176-177 Sitifis, Algeria, AD 419 earthquake 162 Siunikh, AD 1320 earthquake 364 Siusdt, AD 1661 March 20 earthquake 494–496

Skafidia, AD 1752 December 25 earthquake 576 Skiathos AD 1674 March 10 earthquake 518 AD 1868 October 3 earthquake 721 Skiros, AD 1853 September 29 earthquake 675 Skopelos AD 1867 October 22 earthquake 719 AD 1555 earthquake 453-454 AD 1871 March 17 earthquake 730 AD 1893 March 15 earthquake 768 AD 1896 May 10 earthquake 785 AD 1963 July 26 earthquake 34, 48 Skutari, AD 1444 August earthquake 392-393 Skyros c.550 BC earthquake 79-80 Smyrna AD c.42 earthquake 112 AD c.46-47 earthquake 113-114 AD c.155 earthquake 131-132, 133 AD 178-179 earthquake 133-135 AD 1040 February 2 earthquake 265-266 AD 1389 March 20 earthquake 378–379 see also Izmir Sodom, Judaea, 2100–1700 BC earthquake 62–65 Sofia AD 1553 St Sophia church ruined 452 AD 1558 earthquake 456 AD 1618 August earthquake 476 AD 1687 November 2 earthquake 522 AD 1710 March 11 earthquake 537 AD 1806 October 22 earthquake 624 AD 1818 earthquakes 630 AD 1848 earthquakes 665 AD 1858 earthquakes 690-691 AD 1859 earthquakes 692, 696 AD 1861 May 17 earthquake 698 AD 1866 earthquakes 715, 716 AD 1870 January 17 earthquake 723 AD 1873 July 8 earthquake 736 AD 1881 August 19 earthquake 747 AD 1883 earthquakes 748 AD 1886 April 5 earthquake 751 AD 1894 November 16 earthquake 780 Söke AD 1834 July 25 earthquake 643 AD 1893 February 28 earthquake 766 Soloviev scale 824 Soma AD 1296 July 17 earthquake 354 AD 1891 November 13 earthquake 763-764 Sopitsa, AD 1852-1854 earthquakes 677 source material 1–4 Spaides, AD 1853 August 18 earthquake 674-675 Sparta c.550 BC earthquake 79 469–463 BC earthquake 79, 81–82 413-412 BC earthquake 85 AD 1673 February 6 earthquake 516

AD 1254 May 2 earthquake 343

AD 1695 January 11 earthquake 527

AD 1889 earthquakes 757, 758, 760

AD 1899 September 17 earthquake 792

Siwa oasis, AD 1811 spurious earthquake 627-628



942 Index

Spinalonga	
AD 1681 January 1 earthquake 520	
AD 1769 December earthquake 603	
AD 1779 December 6 earthquake 608–609	
Srednogorie, AD 1898 March 21 earthquake 789	
Stanchio, fable 516	
see also Cos	
Stanke Dimitrov, AD 1866 December 19 earthquake	
716	
Stara Zagora	
AD 1852 March 13 earthquake 671	
AD 1853 October 4 earthquake 675 AD 1893 April 5 earthquake 768	
Stavrovouni, Cyprus, AD <1521 August 22 earthquake	
437	
Stemnitsa, AD 1783 March 9 earthquake 611	
Stobi, AD c.300 earthquake 140	
Ston, AD 1822 December 22 earthquake 636	
stone masonry buildings 38, 41–42, 46, 50, 199, 775	
Stratonicea, AD 142 earthquake and sea wave	
128–129	
Struga, AD 1896 January 20 earthquake 783	
Struma	
AD 1714 earthquakes 539	
AD 1843 April 21 earthquake 656	
AD 1849 December 23 earthquake 666	
AD 1894 November 26 earthquake 780–781	
AD 1895 December 2 earthquake 783	
Strumica, AD 1894 July 21 earthquake 779	
Studenitsa monastery, AD 1609 earthquake 474	
subduction	
Antalya-Cyprus seismic zone 820	
Hellenic Trench 815, 816, 818	
oceanic crust 815	
Subukia Valley, Kenya, coseismic faulting 24, 25	
Suda, Crete	
AD 1595 November 26 earthquake 469–470	
AD 1681 January 1 earthquake 520 Sudak, Crimea, AD 1292 January 28 earthquake 353	
Sudak, Crimea, AD 1292 January 28 earthquake 333 Suez	
AD 1814 June 27 earthquake 628	
see also Gulf of Suez	
Suez Canal, AD 1868 February 20 earthquake 720	
Sufkuz, AD 1742 February 21 earthquake 558–559	
Sulaimaniyyeh, AD 1802 earthquake 622–623	
Suli	
AD 1823 earthquakes 636	
AD 1854 July 30 earthquake 676	
Sultan Mehmed II mosque	
AD 1509 September 10 earthquake 422–433	
AD 1556 May 10 earthquake 454-455	
AD 1754 September 2 earthquake 578–579	
AD 1766 May 22 earthquake 590-593	
AD 1766 November 23 earthquake 597	

```
Sultanhisar
 AD 1653 February 22 earthquake 491-492
 AD 1737 March 6 earthquake 552-553
 see also Çanakkale
Sunisa, AD 1477 earthquake 398
 AD 1063 August earthquake 269-270
 AD 1837 January 1 earthquake 645, 648
Surb Karapet monastery
 AD 601 April 2 earthquake 217-218
 AD 1362-1363 earthquake and eclipse 376
 AD 1709 earthquake 537
surface wave magnitude 28
 AD 1254 October 11 earthquake 343-344
 AD 1899 August 13 earthquake 792
Suweidia, AD 1823 February 11 earthquake 636
Svilengrad
 AD 1893 July 7 earthquake 770
 AD 1895 October 6 earthquake 782
Symi, AD 1856 October 12 earthquake 684
Syria
 92 BC February 28 spurious earthquake 96
 69-66 BC earthquake 96-97
 AD c.431 earthquakes 163
 AD c.476 September earthquake 174
 AD 551 July 9 earthquake and sea wave 199-203
 AD 565 June spurious earthquake 212
 AD 592 March 19 earthquake and solar eclipse 216
 AD 613-622 earthquake 218
 AD 713 February 28 earthquake 224–225
 AD 717 December 24 earthquake 225-226
 AD 723 December 24 earthquake 226
 AD 747-9 earthquake 234, 235
 AD 756 March 9 earthquake 238
 AD 813-820 earthquake 239
 AD 860 January 243-244
 AD 956 earthquake 253
 AD 963 July 22 spurious earthquake 253-254
 AD 973 earthquake 255
 AD 991 April 5 earthquake 257-258
 AD 1003 earthquake 258
 AD 1042 earthquake 266
 AD 1063 August earthquake 269–270
 AD 1091 September 26 earthquake 278-279
 AD 1094 April 20-June 17 earthquake 279
 AD 1108 September earthquake 281
 AD 1138 October 11 earthquake 294-296
 AD 1140 October 29 spurious earthquake 297
 AD 1151 September 27 earthquake 297-298
 AD 1156 earthquakes 300, 301–302
 AD 1157 earthquakes 302, 303-311, 312
 AD 1162 August earthquake 316
 AD 1170 June 29 earthquake 316-325
 AD 1202 May 20 earthquake 327-337
 AD 1303 August 8 earthquake 357
 AD 1323 earthquake and flooding 365
```

AD 1766 November 9 earthquake 597

AD 1767 January 12 earthquake 597

Sultan Selim mosque



Index 943

AD 1630 earthquake 479
AD 1819 February earthquake 631
AD 1837 January 1 earthquake 645–649
Syros, AD 1837 March 20 earthquake 649
Syunik, AD 1406 November 29 earthquake 383–384
Tabriz
AD 1503 earthquake 416
AD 1646 April 7 earthquake 486
AD 1664 May 29 earthquake 498
AD 1851 March 14 earthquake 669
AD 1856 October 4 earthquake 683
Tabuk
AD 1068 March 18 new springs 272, 273, 274
AD 1588 January 4 earthquake 467
Tadmur, Syria, AD 1042 earthquake 266
Taima
AD 1068 March 18 new springs 272, 273, 274
AD 1157 September 6 earthquake 311–312
Tangiers, AD 881 May 16- earthquakes 246–247
Targuzlu see Denizli Tarom, AD 1784 July 18 earthquake 613–615
Taron
AD 1650 earthquake 491
AD 1630 earthquake 491 AD 1670 August 12 earthquake 515
Tarrha, AD 365 July 21 earthquake and sea wave 152
Tarsus
AD 300 May 14 earthquake 139–140
AD 1855 January 16 earthquake 677
Tatev
AD 1406 November 29 earthquake 383–384
AD 1659 landslide or earthquake? 493
Tavsanlu, AD 1860 December 2 earthquake 698
Taxiarch, AD 1835 August 13 earthquake 643–644
Tayma, AD 1157 July 13 earthquake 303
Tbilisi
AD 1772 February 14 earthquake 604
AD 1805 February 21 earthquake 623
Tchaishi, Virgin Mary's church, AD 1614 earthquake
476
Teğut, AD 1881 May 30 earthquake 747
Tehran, 'Furutan' earthquake-proof buildings 46, 48, 53
Teichos castle
AD 1343 October 18 earthquake 367
AD 1344 November 6 earthquake 370–371
Tekirdağ
AD 1063 September 23 earthquake 270–272

Tell Harran, AD 1157 August 12 earthquake 306, 309 Tell Khalid, AD 1114 November 29 earthquake 284–291 Telos, c.227 BC earthquake 91 Tempe, <420 BC earthquake 84 Tenedos AD 484 earthquake 176–177 AD 1354 March 1 earthquake 372–375 AD 1766 earthquakes 590-593, 595-596 AD 1771 August 17 earthquake 604 Tepelene castle, AD 1701 March 25 aftershock 529 Teteven, AD 1848 May 30 earthquake 665 Tetovo, AD 1894 July 16 earthquake 779 Thasos AD <1402 September rebuiding of castle 382 AD 1829 April 11 earthquake 640 27 BC destruction (Egypt) 103 AD 1833 December 13 earthquake 642 see also Thiva Theia, AD 46 July 6 eruption 112-113 Theloneum, AD 1509 September 10 earthquake 422–433 Thelseae, AD 216–245 spurious earthquake 135–136 Thera see Santorini Therapna monastery, Sparta, AD 1673 February 6 earthquake 516 Therasia, AD 726 March volcanic eruption 226 Thessaloniki AD c.620 earthquake 218-219 AD 677 spurious earthquake 223 AD 700 February 28 spurious earthquake 224 AD 1420 July earthquake 388 AD 1430 March 26 earthquake 390 AD 1677 earthquake 518 AD <1706 September earthquake 534 AD 1714 earthquakes 539-540 AD 1715 earthquakes 541 AD 1719 earthquakes 545 AD 1737 March 6 earthquake 553 AD 1738 earthquakes 553 AD 1759 earthquakes 582-583 AD 1760 August earthquakes 586-587 AD 1761 March earthquakes 587 AD 1762 < May 2 earthquakes 588 AD 1765 < December 17 earthquake 589 AD 1766 January 15 earthquake 589 AD 1768 April 3 earthquake 600-601 AD 1783 September earthquake 613 AD 1829 May 5 earthquake 640 AD 1845 January 16 earthquake 659 AD 1846 September 21 earthquake 662 AD 1847 July 30 earthquake 663 AD 1849 December 23 earthquake 666 AD 1851 earthquakes 669–670, 671 AD 1853 August 10 earthquake 674 AD 1855 earthquakes 681, 682

AD 1856 earthquakes 683

AD 1857 February 3 earthquake 686

AD 1659 February 17 earthquake 493

AD 1865 July 15 earthquake 710 AD 1868 September 15 earthquake 721

AD 1869 earthquakes 721, 722

Tel Bashir

Tell al Hama 70, 76

AD 1766 August 5 earthquake 595–596

AD 1097 December 30 earthquake 279-280

Tell Hamdun castle, AD 1269 earthquake 348–349

AD 1157 August 12 earthquake 305, 307



Thessaloniki (cont.)	Tigris River
AD 1858 February 3 earthquake 688	AD 1058 December 8 earthquake 268–269
AD 1859 earthquakes 692, 695	AD 1134 November earthquake 294
AD 1860 earthquakes 696, 697	timber reinforcement 40–41, 42, 52, 638
AD 1864 earthquakes 709	timber-frame construction 30, 42–44, 45, 46, 577, 782
AD 1865 May 27 earthquake 710	Tinnis, AD 1068 March 18 earthquake 272, 274
AD 1866 December 6 earthquake 716	Tire
AD 1869 earthquakes 722	AD 1653 February 22 earthquake 491–492
AD 1870 April 15 earthquake 723	AD 1847 June 10 earthquake 662
AD 1871 earthquakes 731	Tlemsen, AD 881 May 16- earthquakes 246-247
AD 1873 earthquakes 735, 736	T'mogvi, AD 1088 April 16 earthquake 277
AD 1875 earthquakes 741	Toghatap, Armenia, AD 1135 September 23 earthquake
AD 1876 May 24 earthquake 742	294
AD 1882 November 9 earthquake 748	Tokat
AD 1885 June 30 earthquake 751	AD 1418 February 8–1419 January 27 earthquake 387
AD 1889 September 25 earthquake 758	AD 1471 earthquake 398
AD 1893 December 6 earthquake 770	AD 1498 earthquake 415
AD 1894 earthquakes 771, 780	AD 1543 April 4 earthquake 441
AD 1897 December 13 earthquake 789	AD 1668 August 17 earthquake 512–515
Thessaly	AD 1776 December 29 earthquake 606
AD 1743 February 21 earthquake 569–570	AD 1825 August earthquake 639
AD 1781 September 8 earthquake 610	Topkapi Palace
Thiva	AD 1509 September 10 earthquake 422–433
AD 1321 earthquake 364–365	AD 1556 May 10 earthquake 454–455
AD 1835 December 17 earthquake 644	AD 1754 earthquakes 578–579, 580
AD 1853 earthquakes 674–675	AD 1766 May 22 earthquake 590–593
AD 1854 earthquakes 676	Topolovgrad, AD 1899 May 8 earthquake 791
AD 1872 February 26 earthquake 732	Tortum
AD 1893 May 23 earthquake 768	AD 1766 October 9 earthquake 597
see also Thebes	AD 1875 October 20 earthquake 740–741
Thrace	AD 1889 August 2 mud flow 758
AD 394 September earthquake 158	Trabzon
AD 460 April 7 earthquake 172	AD 1851 February 25 earthquake 668
AD 476 spurious earthquake 174	AD 1853 April earthquake 673
AD 484 earthquake 176–177	AD 1861 November 2 earthquake 699
AD 544 sea wave 197–198	AD 1890 September 28 earthquake 762
AD 557 December 14 earthquake 208–211	Tralles, 27–24 BC earthquake 102–103
AD 557 spurious sea wave 211	Transylvania
AD 823 October earthquake 240	AD 1620 November 8 earthquake 477
AD 925 earthquake 251	AD 1802 October 26 earthquake 622
AD 989 October 26 earthquake 256–257	AD 1829 November 26 earthquake 641
AD 1542 June 12 spurious earthquake 440–441	AD 1838 January 23 earthquake 650
AD 1871 October 8 earthquake 731	Triers, AD 551 July earthquake 199–203
AD 1889 July 22 earthquake 758	Trihaleth, AD 1114 November 29 earthquake 285–291
AD 1893 August 7 earthquake 770	Trikala
AD 1894 July 10 earthquake 777	AD 1665 October 30 earthquake 499
Thracesium, AD 925 August 250–251	AD 1742 February 21 earthquake 558–559
thrust-faulting	AD 1771 June 22 earthquake 604
Dalmatian coast 816	AD 1854 spurious earthquake 677
Eastern Mediterranean 820	Tripoli
Thyatira, AD 6–13 earthquake 105	AD 455 September earthquake 168
Tiberias	AD 1063 August earthquake 269–270
AD 747-749 earthquake 234-235, 236	AD 1170 June 29 earthquake 318–325
AD 850–854 earthquake 242	AD 1202 May 20 earthquake 327
AD 1759 October 30 earthquake 583	AD 1339 January earthquake 366
AD 1837 January 1 earthquake 646	AD 1408 December 29 earthquake 384–385
Tibnin, AD 1202 May 20 earthquake 327–337	AD 1656 earthquake (Libya) 492



Index 945

AD <1706 December earthquake 534	Urla
AD 1752 July 21 spurious earthquake 574	AD 1869 October 31 earthquake 722
AD 1759 October 30 earthquake and sea wave 583	AD 1872 October 3 earthquake 735
AD 1764 February 14 earthquake 588	AD 1884 January 20 earthquake 749
AD 1783 July 20 earthquakes 613	AD 1894 July 9 earthquake 774
Tripolis	Uşak
AD 494 earthquake 177	AD 1866 September 22 earthquake 715
AD 551 July earthquake 199–203	AD 1875 earthquakes 739, 740
AD 1157 August 12 earthquake 305, 309	Ustovo, AD 1862 January 1 earthquake 705
Tripolitsa, AD 1810 February 17 aftershock 627	Uzziah's earthquake 68–70
Trizina, AD 1837 earthquakes 649–650	
Trizonia, AD 1817 August earthquake 629–630	Valcelir, AD 1742 February 21 earthquake 558–559
Trnovo	Valona
AD 1849 earthquakes 665	AD 1503 June 17 earthquake 416
AD 1890 December 9 earthquake 762	AD 1833 January 19 earthquake 642
Trogir, AD 1667 April 6 earthquake 501–511	AD 1851 October 12 earthquake 670–671
Troodos Mountains, Cyprus, AD 1735 April 10–11 destructive	AD 1856 earthquakes 683, 685
earthquake 550–552	AD 1857 earthquakes 686, 687
Troy	AD 1858 earthquakes 688, 689, 690, 691, 692
AD 1864 March 12 earthquake 709	AD 1859 earthquakes 695, 696
AD 1882 April 1 earthquake 748	AD 1860 earthquakes 697, 698
Troyan monastery, AD 1837 January 10 earthquake 649	AD 1861 earthquakes 698
Trsteno, AD 1667 April 6 major earthquake 501–511	AD 1862 March 27 earthquake 706
Trypia, AD 1861 December 26 earthquake 701, 701	AD 1866 earthquakes 712, 714, 715
Tsirkovista, AD 1813 December 10 earthquake 628	AD 1866 January 2 spurious earthquake and sea wave
tsunamis see sea waves, seismic	711 AD 1969 - 4 - 1 - 720
Tunisia	AD 1868 earthquakes 720
AD 981 November earthquake 256	AD 1869 earthquakes 721, 722
AD 1041 earthquake 266	AD 1871 earthquakes 730, 731, 732
Turğutlu, AD 1771 earthquakes 604	AD 1873 March 15 earthquake 735
Turkey AD 1756 A yearst conthoughts 591	AD 1891 August earthquake 763
AD 1756 August earthquake 581	AD 1894 June 9 earthquake 773
AD 1772 March earthquake 604–605	AD 1895 October 4 earthquake 782
AD 1794 July 3 earthquake 620	AD 1896 May 4 earthquake 785
deformation 820 Tvurditsa, AD 1892 July 8 earthquake 764	Valoni, AD 1439 earthquake 391 Van
Tyre	AD 1646 April 7 earthquake 486–487 AD 1682 May 19 earthquake 521
AD 303 April 2 earthquake 140	* *
AD 502 earthquake 179 AD 551 July earthquake 199–203	AD 1692 earthquakes 524–525 AD 1701 earthquakes 529
AD 1202 May 20 earthquake 327–337	AD 1701 cartinquakes 329 AD 1705 January 13 earthquake 531
Tyrnavos, AD 1743 February 21 earthquake 569–570	AD 1703 Jahuary 13 earthquake 535 AD 1707 July 5 earthquake 535
Tzakli, AD 1743 February 21 earthquake 509–570	AD 1707 July 3 cartinquake 533 AD 1715 March 8 earthquake 540
Tzouroullos see Çorlu	AD 1851 March 14 earthquake 669
120urourios see Çoriu	AD 1856 October 4 earthquake 683
Ulcinj	AD 1891 February 6 earthquake 762
AD 1444 August earthquake 392–393	AD 1896 earthquakes 783, 784
AD 1520 May 17 earthquake 437	Varag
AD 1667 April 6 major earthquake 500–511	AD 1581 earthquake 465
AD 1697 < May earthquake 528	AD 1646 April 7 earthquake 486–487
AD <1715 earthquake 541	Varag Mountain, AD 1670 August 12 landslide 515
Ulubat, AD 1850 April 19 earthquake 667	Varlaam monastery, Meteora, AD 1735 August 21 earthquak
Ummayad Mosque	552
AD 1202 May 20 earthquake 327, 330	Varna
AD 1303 August 8 earthquake 357, 361	AD 1443–1444 earthquake and diverted rivers 392
AD 1705 November 23 earthquake 533	AD 1858 January 8 earthquake 688

AD 1759 November 25 earthquake 585

Varto, AD 1966 August 19 earthquake 15, 26, 39, 42



946 Index

Vasilika, AD 1677 earthquake 518 Vaspurakan AD 1111 earthquake? and meteorite fall 281 AD 1646 April 7 earthquake 486-487 AD 1692 violent earthquake 524-525 AD 1707 July 5 earthquake 535 Vatopedi monastery, Mt Athos AD 1456 November 19 earthquake 395 AD 1585 June 28 earthquake 466-467 Vayocjor, Armenia AD 735 earthquake 227 AD 906-910 earthquake 250 Velbuska Banja see Kjustendil Velventos, AD 1695 September 26 earthquake 527 Venice AD 1667 April 6 major earthquake 503-511 source material 4, 356, 358-359 Venzone, Italy, 1976 May 6 earthquake 41, 43 Veroia AD 896-904 earthquake 249 AD 1200 earthquake 327 Versame, AD 1835 August 13 earthquake 643-644 Vesuvius AD 472 eruption 173 AD 1631 December 6 eruption 480 Veziköprü, AD 1776 December 29 earthquake 606 Vienna, AD 1768 March 7 earthquake 600 Vitosha, AD 1894 September 19 earthquake 780 Vitriniza, AD 1861 December 26 earthquake and sea wave Vlachia, AD 1544 April 24 earthquake 441-444 Vladuth, AD 1742 February 21 earthquake 558-559 Vlore see Valona Vonitsa, AD 1709 March 13 earthquake 536–537 Vonizza, AD 1743 February 20 earthquake 562-569 Vorotnavank monastery, AD 1406 November 29 earthquake Vostitse, AD 1742 February 25 earthquake 559–562 AD 1402 August 30 earthquake 380-382 AD 1748 May 25 earthquake 571-572 AD 1817 August earthquake 629-630

Vratsista, AD 1833 June 22 destruction 642
vulnerability
buildings xii-xiii 37–49, 55, 648
ground 49–52, 648

Wadi al-Qura, AD 1068 March earthquake 272, 273

Wadi al-Safra, AD 1068 March earthquake 272, 273

Wall of Anastasius, AD 557 earthquake 209

Wasit
AD 973 earthquake 255
AD 1063 August earthquake 269–270

Voukellari, AD 1035 May earthquake 264-265

Vranje, AD 1755 February 15 earthquake 580

Xanthi AD 1829 earthquakes 640-641 AD 1861 November 2 earthquake 699 AD 1863 September 2 earthquake 708 AD 1864 June 11 earthquake 709 Xeropotamou monastery, AD 1280 earthquake 350 Xizan see Hizan Xylokastro AD 1402 August 30 earthquake 380–382 AD 1894 March 26 earthquake 771 Yabrud, AD 1705 November 23 earthquake 533 Yalova AD 1719 May 25 major earthquake 543-545 AD 1859 October 20 earthquake 696 Yambol, AD 1897 October 28 earthquake 788 Yammouneh fault 832-834 Yedikule AD 1766 earthquakes 590–593, 595–596 AD 1894 July 10 earthquake 776 Yemen AD 746–9 earthquakes 235 AD 1982 December 13 earthquake 41, 42 Yenice, AD 1899 March 29 earthquake 791 AD 1645 landslide 485 AD 1829 earthquakes 640 AD 1842 July 12 earthquake 655 AD 1864 June 14 earthquake 709 Yenisehir Kalesi, AD 1825 August earthquake 639 Yiali, AD 1493 October 18 earthquake 411-413 Yoros Kalesi, AD 1509 September 10 earthquake 422–433 Yozğat AD 1862 August 28 earthquake 706 AD 1871 earthquakes 730, 731 AD 1873 February 12 earthquake 735 AD 1891 May earthquake 763 AD 1899 March 15 earthquake 791

yurts 46, 53

Zabrdowicz, AD 1443–1444 earthquake 392

Zacholi

AD 1402 August 30 earthquake 380–382

AD 1742 February 21 earthquake 558–559

Zadrine

AD 1855 July earthquakes 681, 682

Zagora, AD 1776 < March earthquake 606

Zakynthos

AD 1469 earthquake 397

AD 1513 earthquakes 434–435

AD 1513 earthquakes 434–435 AD 1521 August 16 earthquake 437 AD 1522 January earthquake 437 AD 1554 earthquake 453 AD 1580 earthquake 465 AD 1591 May 28 earthquake 468–469 AD 1600 September earthquakes 471 AD 1613 > January 12 earthquakes 475



> Index 947

AD 1622 May 5 earthquake 477

AD 1630 September earthquakes 479–480

AD 1633 November 5 earthquake 481

AD 1636 earthquakes 481-484

AD 1638 March 27 earthquake 484

AD 1662 March 16 earthquake 496-498, 497

AD 1672 November earthquakes 516

AD 1673 earthquake 517

AD 1676 > April 23 earthquakes 518

AD 1685 December 20 earthquake 521-522

AD 1696 September 4 earthquake 528

AD 1707 earthquakes 535

AD 1710 May 17 earthquake 538

AD 1716 May 10 earthquake 541

AD 1723 February 20 earthquake 546

AD 1725 February 8 earthquake 547

AD 1727 earthquake 547-548

AD 1729 July 8 earthquake 548-549

AD 1741 June 23 earthquake 557–558

AD 1742 February 25 earthquake 559-562

AD 1743 February 20 earthquake 562-569

AD 1752 June 1 earthquake 574

AD 1759 June 14 earthquake 582

AD 1766 July 22 destructive earthquake and whirlwind 593-595

AD 1767 earthquakes 598-600

AD 1775 April 16 earthquake 605

AD 1778 December 20 earthquake 607

AD 1780 June 10 violent earthquake 609

AD 1791 November earthquakes 616-619

AD 1804 June 8 earthquake 623

AD 1809 June 14 earthquake 625

AD 1810 June 22 earthquake 627

AD 1811 earthquake 627

AD 1820 December 29 earthquake 631-632

AD 1821 January 6 aftershock 632

AD 1825 October 15 earthquake 639

AD 1835 July 12 earthquake 643

AD 1840 October 30 earthquake 653

AD 1841 February 26 earthquake 653

AD 1842 February 3 earthquake 654

AD 1854 July 29 earthquake 676

AD 1873 October 22 earthquake 736

AD 1893 earthquakes 765, 768

Zante see Zakynthos

Zara, AD 1668 August 17 earthquake 512–515

Zaranda, AD 1138 October 11 earthquake 295-296

Zaton, AD 1667 April 6 major earthquake 501–511

Zebdin, AD 1759 November 25 earthquake 584-586

Zebedani, AD 1759 November 25 earthquake

584-586

Zecharariah's earthquake 10–11, 68–78

Zedda, AD 1395 May 19 earthquake 379

Zephyria, AD 1738 July 19 earthquake 553

Zerna, AD 1766 March 26 earthquake 597

Zevtun, AD 1544 Jan earthquake 441

Zgharta, AD 1764 February 14 earthquake 588

Zihna, AD 1838 January 17 earthquake 651

Zile, AD 1894 May earthquake 773

Zilhicce, AD 1488 November earthquake 406

Zitsa, AD 1857 August 7 earthquake 687

Zituni, AD 1544 April 24 earthquake 441–444

Zoar, 2100–1700 BC earthquake 63

Zozilgip, AD 1546 January 14 earthquake 444–451