

1456298

# Catalogue of ancient earthquakes in the Mediterranean area up to the 10th century

Emanuela Guidoboni  
with the collaboration of  
Alberto Comastri and Giusto Traina



~~ZA 11412~~

M 22500

Istituto Nazionale di Geofisica

# Short Catalogue and assessment of intensity

comparison of EMS and MSK macroseismic scales	date	major effects zone	I EMS	I MSK	places	states
<001>	760-750 c. B.C.	Jerusalem			1	IL
<002>	550 c. B.C.	Sparta	X	X	1	GR
<003>	550 c. B.C.	Syros (the island of)			1	GR
<004>	490 c. B.C.	Delos (the island of)			1	GR
<005>	490 [489/488] B.C., January-March	Aegina (the island of)			1	GR
<006>	480 B.C., September 29	Salamis			1	GR
<007>	479 B.C.	Potidaea			1	GR
<008>	469-464 B.C.	Sparta	IX-X	IX-X	1	GR
<009>	461 c. B.C.	Rome?	V-VI	V-VI	1	I
<010>	436 c. B.C.	central Italy?	VII-VIII	VII-VIII		I
<011>	431 c. B.C.	Delos (the island of)			1	GR
<012>	427-426 B.C., autumn-winter	Orchomenus			2	GR
<013>	427 B.C., December	Perinthus			1	GR
<014>	426 B.C., summer	Lamia, Phalara, Scarphe	X	X	21	GR
<015>	426-425 B.C., winter	Catania			1	I
<016>	424 B.C., March	Athens?			1	GR
<017>	420 B.C., summer	Athens, Corinth			2	GR
<018>	414 B.C., spring	Cleoniae			1	GR
<019>	413-412 B.C., winter	Sparta			1	GR
<020>	412-411 B.C., winter	Cos (the island of)	≥IX ≤XI	≥IX ≤XI	1	GR
<021>	403-401 [400] B.C.	Elis				GR
<022>	388 B.C.	Argos			2	GR
<023>	373 c. B.C.	Delos (the island of)			1	GR
<024>	373 B.C., winter	Helice, Bura	X	X	2	GR
<025>	360 c. B.C.	Vulcano (the island of)			1	I
<026>	360 c. B.C.	Ophryneum	≥VIII ≤X	≥VIII ≤X	2	TR
<027>	347/346 c. B.C.	Delphi	V	V	1	GR
<028>	325-300 B.C.	Apamea			1	TR
<029>	322 c. B.C.	Phlegrean Plain				I
<030>	322 c. B.C.	Liguria				F, I
<031>	304/303 B.C., autumn-winter	Ionia				TR
<032>	287 B.C.	Lysimachia	≥IX ≤XI	≥IX ≤XI	1	TR
<033>	279 B.C., autumn-winter	Delphi			1	GR
<034>	268 B.C.	Picenum			1	I
<035>	228-224 c. B.C.	Cytinium	≥VIII ≤X	≥VIII ≤X	1	GR
<036>	227 c. B.C.	Rhodes	≥IX ≤XI	≥IX ≤XI	3	GR, TR
<037>	217 B.C., June	Cisalpine Gaul, Liguria	≥IX ≤XI	≥IX ≤XI		I
<038>	217 B.C., June	Lake Trasimeno	≥IX ≤XI	≥IX ≤XI	1	I
<039>	199-198 B.C.	Sidon	X	X	1	RL
<040>	199-198 [260] B.C.	Chalcis			1	GR
<041>	199-198 B.C.	Iasus, Panamara, Rhodes	≥IX ≤XI	≥IX ≤XI	8	GR, TR
<042>	193 B.C., March 15	Italy				I
<043>	192 B.C.	Rome	V	V	1	I
<044>	179 B.C., September	Rome	V	V	1	I
<045>	174 B.C.	Sabina	≥VIII ≤X	≥VIII ≤X	1	I
<046>	148 [130] B.C., February 21	Antioch	≥IX ≤XI	≥IX ≤XI	1	TR
<047>	133 B.C.	Luna			1	I

<048>	126 B.C.	Mt. Etna			1	I
<049>	118 B.C.	Rome?			1	I
<050>	117/113 B.C.	Apulia			1	I
<051>	100 B.C.	Picenum	VIII-IX	VIII-IX	1	I
<052>	99 B.C.	Nursia	≥VIII ≤X	≥VIII ≤X	2	I
<053>	97 B.C.	Pisaurum	III-IV	III-IV	1	I
<054>	92 B.C.	Faesulae	III-IV	III-IV	1	I
<055>	91 c. B.C.	Reggio Calabria?			1	I
<056>	91 B.C.	Modena, Reggio Emilia	≥IX ≤XI	≥IX ≤XI	3	I
<057>	88 c. B.C.	Apamea	≥IX ≤XI	≥IX ≤XI	1	TR
<058>	83 B.C.	Rome	VII-VIII	VII-VIII	1	I
<059>	76 B.C.	Reate	≥VIII ≤X	≥VIII ≤X	1	I
<060>	72-70 B.C.	Rome	VIII	VIII	1	I
<061>	65 c. B.C.	Antioch, Sirya	≥IX ≤XI	≥IX ≤XI	1	TR, SYR
<062>	63 B.C.	Panticapaeum	proved not to have taken place			
<063>	63 B.C.	Spoletium	VII-VIII	VII-VIII	1	I
<064>	58 B.C.	Dyrrachium			1	AL
<065>	56 B.C., April-May	Potentia			1	I
<066>	50 c. B.C.	Delos (the island of)			1	GR
<067>	49 B.C.	Rome?			1	I
<068>	47 B.C.	Rome?	V	V	1	I
<069>	44 B.C.	Alps?				I?
<070>	43 B.C.	Rome?	V	V	1	I
<071>	31 B.C., spring	Diospolis			1	IL
<072>	27 c. B.C.	Laodicea (Phrygia), Tralles	≥IX ≤XI	≥IX ≤XI	5	TR
<073>	17 B.C.	Apennines				I
<074>	17 B.C.	Paphos			1	CY
<075>	2 c. B.C.	Naples	VIII	VIII	1	I
<076>	5 A.D.	Rome	V	V	1	I
<077>	15	Rome	VII-VIII	VII-VIII	1	I
<078>	17 c.	Reggio Calabria, Sicily	VII-VIII	VII-VIII	1	I
<079>	17	Magnesia, Sardinia	X	X	13	TR
<080>	23 c.	Cybra	≥VIII ≤X	≥VIII ≤X	1	TR
<081>	23	Aegium	≥VIII ≤X	≥VIII ≤X	2	GR
<082>	29, November 24	Nicea	≥IX ≤XI	≥IX ≤XI	1	TR
<083>	37, March 16	Capri	VII	VII	1	I
<084>	37, March 23	Antioch, Daphne	≥VIII ≤X	≥VIII ≤X	2	TR
<085>	47 c.	Antioch	≥VIII ≤X	≥VIII ≤X	1	TR
<086>	47 c.	Samos, Smyrna	≥VIII ≤X	≥VIII ≤X	8	GR, TR
<087>	50 c.	Philippi			1	GR
<088>	50 c.	Hellespont				TR
<089>	51	Rome	VIII	VIII	1	I
<090>	53	Apamea	≥VIII ≤X	≥VIII ≤X	1	TR
<091>	53 [62/66]	Cnossus, Crete	≥VIII ≤X	≥VIII ≤X	2	GR
<092>	60	Hierapolis, Laodicea (Phrygia)	≥IX ≤XI	≥IX ≤XI	3	TR
<093>	61	Achaia				GR
<094>	61	Macedonia				GR
<095>	62, February 5	Pompei	IX	IX	4	I
<096>	64	Naples			1	I
<097>	68	Myra			2	TR
<098>	68, June	Rome	V	V	2	I
<099>	69	Nicomedia	≥VIII ≤X	≥VIII ≤X	1	TR
<100>	69-79, June 20	Corinth	≥VIII ≤X	≥VIII ≤X	1	GR

<101>	77	Cyprus	≥VIII ≤X	≥VIII ≤X			CY
<102>	79, August 24-26	Pompeii			9		I
<103>	97	Anazarbus	≥VIII ≤X	≥VIII ≤X	2		CY
<104>	100 c.	Pescolarado	≥VIII ≤X	≥VIII ≤X	1		I
<105>	101-200	Aunobaris	≥VIII ≤X	≥VIII ≤X	1		TN
<106>	101-200	Interpromium	≥VIII ≤X	≥VIII ≤X	1		I
<107>	105	Cyme, Myrina	≥IX ≤XI	≥IX ≤XI	4		TR
<108>	105	Opus, Oreus	≥IX ≤XI	≥IX ≤XI	2		GR
<109>	110	Galatia	≥IX ≤XI	≥IX ≤XI	1		TR
<110>	115, December 13	Antioch	≥IX ≤XI	≥IX ≤XI	1		TR
<111>	117-138	Italy					I
<112>	120/128	Nicomedia	≥IX ≤XI	≥IX ≤XI	4		TR
<113>	127-130 c.	Caesarea	IX-X	IX-X	2		TR
<114>	142/144	Rhodes (the island of), Myra			6		GR, TR
<115>	160, October	Dura Europos			1		SYR
<116>	160/161 c.	Mytilene	≥IX ≤XI	≥IX ≤XI	5		GR
<117>	178 c.	Smyrna	≥IX ≤XI	≥IX ≤XI	2		TR
<118>	181 c., May 3	Nicomedia	≥VIII ≤X	≥VIII ≤X	2		TR
<119>	191/192	Rome	IV	IV	1		I
<120>	201-300	Hierapolis, Laodicea (Phrygia)	≥VIII ≤X	≥VIII ≤X	2		TR
<121>	217	Rome?	V	V	1		I
<122>	223, September 9 - October 19	Rome	V	V	1		I
<123>	235-236	Amasia, Cappadocia	≥VIII ≤X	≥VIII ≤X	1		TR
<124>	241	Aphrodisias	≥VIII ≤X	≥VIII ≤X	1		TR
<125>	251-300 c.	Palmyra	proved not to have taken place				
<126>	262	Asia Minor					TR
<127>	262	Rome			1		I
<128>	262	Libya					LAR
<129>	267	Ad Maiores	VII-VIII	VII-VIII	1		DZ
<130>	268-270	Nicomedia			1		TR
<131>	275-276	Rome?			1		I
<132>	293-306	Salamis (Cyprus)	≥IX ≤XI	≥IX ≤XI	1		CY
<133>	301-400	Corycus	≥VIII ≤X	≥VIII ≤X	1		TR
<134>	303/304	Sidon	≥IX ≤XI	≥IX ≤XI	2		RL
<135>	320	Alexandria	≥IX ≤XI	≥IX ≤XI	1		ET
<136>	332	Salamis (Cyprus)	≥IX ≤XI	≥IX ≤XI	1		CY
<137>	334-335	Cos (the island of)	≥VIII ≤X	≥VIII ≤X	1		GR
<138>	341	Antioch			1		TR
<139>	341	Maximianopolis	≥VIII ≤X	≥VIII ≤X	1		TR
<140>	342	Salamis	≥IX ≤XI	≥IX ≤XI	1		CY
<141>	343	Neocaesarea	≥IX ≤XI	≥IX ≤XI	1		TR
<142>	344	Rhodes (the island of)	≥IX ≤XI	≥IX ≤XI	1		GR
<143>	346	Dyrrachium	≥IX ≤XI	≥IX ≤XI	1		AL
<144>	346	Isernia, Telesia	VIII	VIII	5		I
<145>	348/349	Berytus	VIII-IX	VIII-IX	1		RL
<146>	351-400	Hierapolis	≥VIII ≤X	≥VIII ≤X	1		TR
<147>	358, August 24	Nicomedia	IX-X	IX-X	1		TR
<148>	361-363, June	Libya	≥IX ≤XI	≥IX ≤XI			LAR
<149>	361-363, June	Sicily	≥IX ≤XI	≥IX ≤XI			I
<150>	361-363, June	Greece	≥IX ≤XI	≥IX ≤XI	4		GR
<151>	362, December 2	Nicea	VIII-IX	VIII-IX	2		TR
<152>	363, February	Constantinople			1		TR
<153>	363, May 18-19	Jerusalem, Sebastia, Nicopolis	X	X	23		IL

<154>	365, July 21	Crete	X-XI	X-XI	6	GR
<155>	368, October 11	Nicea	≥IX ≤XI	≥IX ≤XI	1	TR
<156>	368/369	Germe	≥IX ≤XI	≥IX ≤XI	1	TR
<157>	370 c.	Paphos	≥IX ≤XI	≥IX ≤XI	1	CY
<158>	374 c.	Reggio Calabria	≥VIII ≤X	≥VIII ≤X	1	I
<159>	375 c.	Benevento			1	I
<160>	394, September-November	Constantinople?			1	TR
<161>	396	Constantinople			1	TR
<162>	400 c.	Cirene, Hydrax	≥VIII ≤X	≥VIII ≤X	2	LAR
<163>	402	Constantinople			1	TR
<164>	403	Constantinople	V	V	1	TR
<165>	407, April 1	Constantinople	VII-VIII	VII-VIII	1	TR
<166>	408	Rome			1	I
<167>	408-450	Gortyna	≥VIII ≤X	≥VIII ≤X	1	GR
<168>	409, July 5	Constantinople			1	TR
<169>	417	Cibyra	≥IX ≤XI	≥IX ≤XI	1	TR
<170>	417, April 20	Constantinople?			1	TR
<171>	419	Palestine	≥IX ≤XI	≥IX ≤XI	1	IL
<172>	419	Sitifis	V-VI	V-VI	1	DZ
<173>	422	Constantinople?			1	TR
<174>	423, April 7	Constantinople?			1	TR
<175>	429, August 25	Ravenna			1	I
<176>	437, September 25	Constantinople	V-VI	V-VI	1	TR
<177>	442, April 17	Constantinople?			1	TR
<178>	443	Rome	≥VIII ≤X	≥VIII ≤X	1	I
<179>	443, April 15	Ravenna			1	I
<180>	447, January 26	Constantinople, Nicomedia	≥IX ≤XI	≥IX ≤XI	2	TR
<181>	450-457, September	Tripolis	≥VIII ≤X	≥VIII ≤X	1	RL
<182>	451, April	Galiccia				E
<183>	458, September 13-14	Antioch	VIII-IX	VIII-IX	1	TR
<184>	460	Cnidus, Cyzicus	VIII-IX	VIII-IX	3	TR
<185>	467	Ravenna	V	V	1	I
<186>	472	Asia Minor	≥IX ≤XI	≥IX ≤XI		TR
<187>	474-478	Rodhes	≥VIII ≤X	≥VIII ≤X	1	GR
<188>	475, September	Gabala	≥VIII ≤X	≥VIII ≤X	1	SYR
<189>	477/480, September 24/25/26	Abydus, Gallipoli, Constantinople	IX	IX	8	TR
<190>	484 [508] c.	Rome	VII	VII	1	I
<191>	492, May 26	Ravenna?			1	I
<192>	494	Hierapolis, Laodicea, Tripolis	≥IX ≤XI	≥IX ≤XI	4	TR
<193>	499, September	Nicopolis	IX-X	IX-X	3	TR
<194>	501-525	Faenza	VI-VII	VI-VII	1	I
<195>	501, October 9	Ravenna?			1	I
<196>	502, April 14	Ravenna?	X	X	1	I
<197>	502, August 22	Ptolemais	X	X	4	RL
<198>	515	Rhodes (the island of)	≥VIII ≤X	≥VIII ≤X	1	GR
<199>	518	Scopus	X	X	2	YU
<200>	521/522	Dyrrachium	≥VIII ≤X	≥VIII ≤X	1	AL
<201>	521/522	Corinth	≥VIII ≤X	≥VIII ≤X	1	GR
<202>	523-525	Anazarbus	≥IX ≤XI	≥IX ≤XI	1	TR
<203>	526, May 20/29	Antioch	X	X	2	TR
<204>	526-527	Constantinople	proved not to have taken place			
<205>	527	Pompeopolis	IX	IX	2	YU
<206>	528, November 29	Laodicea	IX	IX	2	TR, SYR

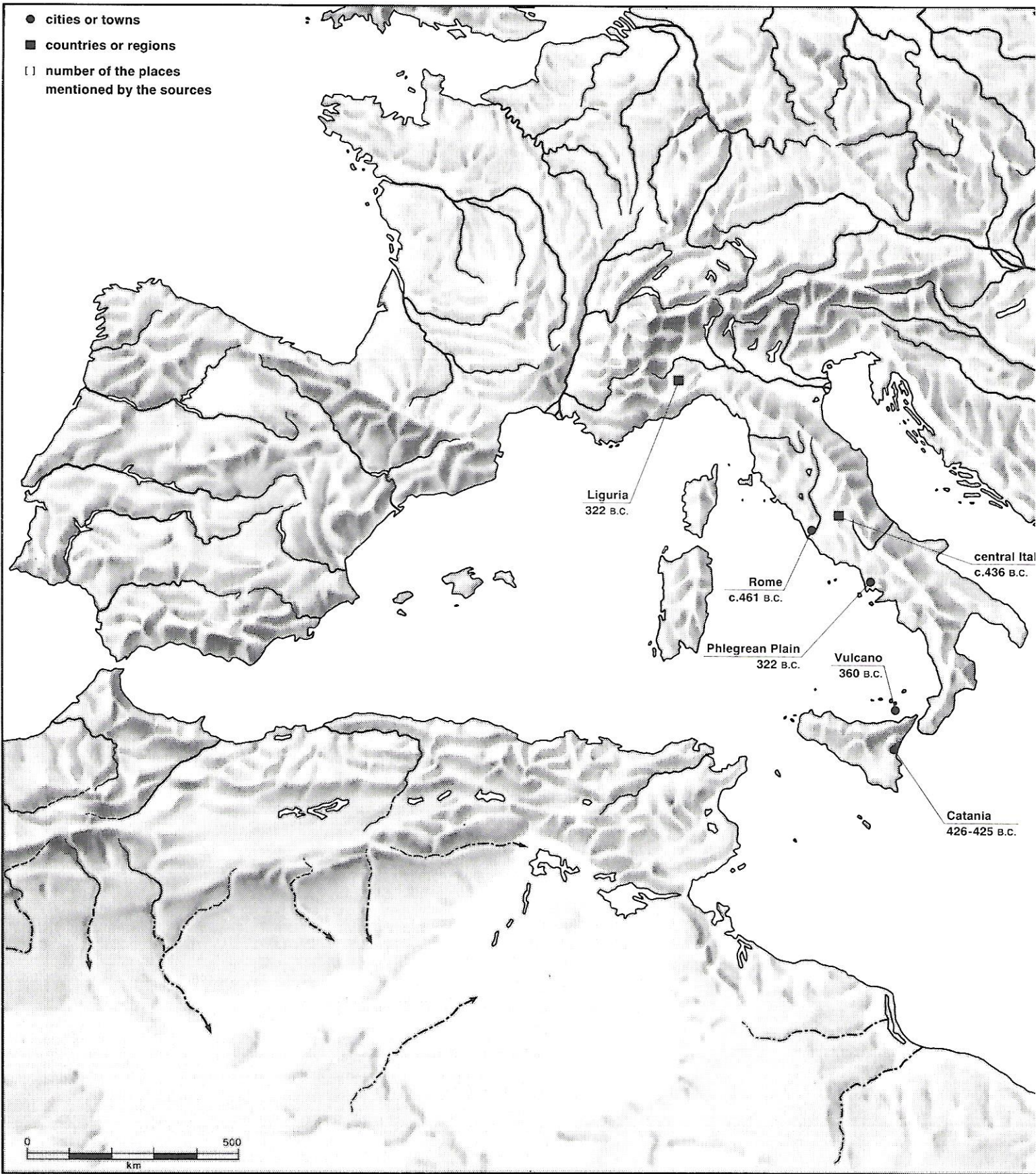


(207)	529, July	Amasia	≥VIII	≥VIII	4	TR
(208)	530	Myra	≥VIII	≥VIII	1	TR
(209)	532	Antioch			1	TR
(210)	533, November	Constantinople	V-VI	V-VI	1	TR
(211)	542, August 16	Constantinople	≥VIII	≥VIII	1	TR
(212)	543	Corinth	≥VIII ≤X	≥VIII ≤X	1	GR
(213)	543, September 6	Cyzicus	IX	IX	1	TR
(214)	544/545	Dionysopolis, Odessus			3	BG
(215)	546, April 8	Constantinople	≥VIII ≤X	≥VIII ≤X	1	TR
(216)	548, February	Constantinople			1	TR
(217)	551	Chaeronea, Naupactus, Patras	X	X	6	GR
(218)	551, July 9	Byblus, Beritus, Tripolis	X	X	7	RL
(219)	554, August 15	Constantinople, Nicomedia	VIII-IX	VIII-IX	3	TR
(220)	554, October 14	Egypt	≥IX ≤XI	≥IX ≤XI	1	ET
(221)	554-558	Cos (the island of)	IX-X	IX-X	1	GR
(222)	555, July 11	Constantinople			1	TR
(223)	557, April 16	Constantinople?	V	V	1	TR
(224)	557, October 19	Constantinople?			1	TR
(225)	557, December 14/23	Constantinople, Rhegium	IX-X	IX-X	4	TR
(226)	570 c.	Antioch	≥IX ≤XI	≥IX ≤XI	5	TR
(227)	580/581	Antioch, Daphne	IX	IX	2	TR
(228)	583, May 10	Constantinople			1	TR
(229)	584/585	Arabissus	IX-X	IX-X	1	TR
(230)	587/588, October	Antioch	VIII-IX	VIII-IX	1	TR
(231)	601 c.	Hierapolis	≥VIII ≤X	≥VIII ≤X	1	TR
(232)	601-602	Cilicia, Syria	≥IX ≤XI	≥IX ≤XI		TR, SYR
(233)	602-603	Surb Karapet	VIII	VIII	1	TR
(234)	611, April 20	Constantinople	V	V	1	TR
(235)	618, August 6	Rome	V	V	1	I
(236)	634, September	Jerusalem	≥VIII ≤X	≥VIII ≤X	1	IL
(237)	634	Aleppo	VII-VIII	VII-VIII	1	SYR
(238)	641-668	Byzantine area	≥VIII ≤X	≥VIII ≤X		
(239)	651-700	Sicily				I
(240)	659, June	Palestine, Syria	≥VIII ≤X	≥VIII ≤X		IL, SYR
(241)	659, September - 660, August	Jericho	IX	IX	1	JOR
(242)	679, April 3	Batnan	≥IX ≤XI	≥IX ≤XI	2	TR
(243)	713, February 28/March 10	Antioch, Aleppo, Qenneshrin	≥VIII ≤X	≥VIII ≤X	3	TR, SYR
(244)	717, December 24	Mesopotamia, Syria				SYR
(245)	725-744 c.	Ravenna, Classe	VII-VIII	VII-VIII	2	I
(246)	735	Vayoc' Jor	X	X		SU
(247)	740, October 26	Constantinople, Nicea, Nicomedia	≥IX ≤XI	≥IX ≤XI	4	TR
(248)	743/744	Derbend				SU
(249)	749, January 18	Jerusalem, Mabbug	IX-X	IX-X	12	IL, SYR
(250)	757, March 9	Mesopotamia	IX	IX	1	SYR
(251)	778	Treviso	VIII-IX	VIII-IX	1	I
(252)	780-797, March 17	Constantinople			1	TR
(253)	790, February 9	Constantinople	V	V	1	TR
(254)	796, March 16 - 797, March 4	Alexandria	VI-VII	VI-VII	1	ET
(255)	796, April	Crete				GR
(256)	796, May 4	Constantinople	VII-VIII	VII-VIII	1	TR
(257)	801, April 29	Rome			2	I
(258)	813-820	Byzantine area				
(259)	824	Panion	VIII	VIII	1	TR

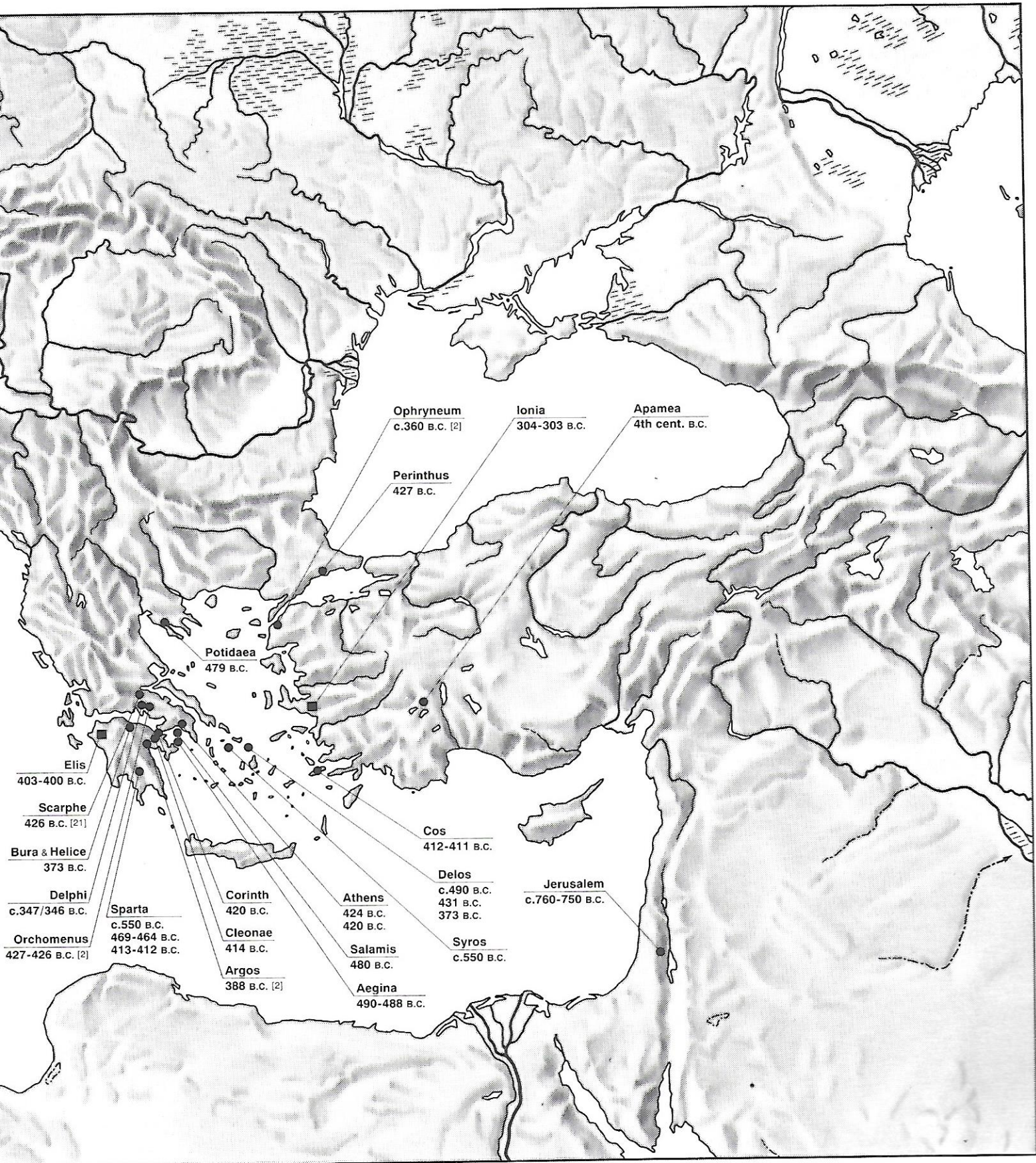
<260>	829-842	Byzantine area					
<261>	835, January 5 - December 25	Antioch	≥IX ≤XI	≥IX ≤XI	1	TR	
<262>	836, December 30	Pavia			1	I	
<263>	847, April 10 - August 31	Rome			1	I	
<264>	847, November 24	Antioch, Damascus	≥IX ≤XI	≥IX ≤XI	7	TR, SYR	
<265>	848, June	Isernia	≥IX ≤XI	≥IX ≤XI	6	I	
<266>	849-851	Constantinople	V	V	1	TR	
<267>	853, June 12 - 854, June 1	Tiberias	≥VIII ≤X	≥VIII ≤X	1	IL	
<268>	853, August 31	Sicily				I	
<269>	857, April 1-29	Cairo	≥VIII ≤X	≥VIII ≤X	1	ET	
<270>	859, April 8 - 860, March 27	Maghreb	≥VIII ≤X	≥VIII ≤X		MA, DZ	
<271>	859, December 30 - 860, January 29	Laodicea, Antioch	IX-X	IX-X	12	TR, SYR	
<272>	862, May 28	Constantinople	VIII	VIII	1	TR	
<273>	863, February 13	Dvin	≥IX ≤XI	≥IX ≤XI	1	SU	
<274>	869, January 9	Constantinople	≥VIII ≤X	≥VIII ≤X	1	TR	
<275>	881, May 16	Tanġa, Tilimsān			2	MA	
<276>	885, November 13 - December 11	Cairo	VIII-IX	VIII-IX	1	ET	
<277>	893, December 27	Dvin	X	X	1	SU	
<278>	894	Apulia, Samnium				I	
<279>	906 c.	K'argop'	≥VIII ≤X	≥VIII ≤X	1	SU	
<280>	911, August 29 - 912, August 17	Kairouan			2	TN	
<281>	911, August 29 - 912, August 17	Egypt	≥VIII ≤X	≥VIII ≤X		ET	
<282>	926/927	Trace	≥VIII ≤X	≥VIII ≤X		BG	
<283>	935, October 4	Egypt	≥VIII ≤X	≥VIII ≤X		ET	
<284>	944, July 2-3	Cordoba	VII	VII	1	E	
<285>	945	Constantinople			1	TR	
<286>	950, July 25	Cairo	≥VIII ≤X	≥VIII ≤X	1	ET	
<287>	951-1004	Rossano	IX	IX	1	I	
<288>	951, September 15	Alexandria	≥VIII ≤X	≥VIII ≤X	1	ET	
<289>	951, June 9 - 952, May 28	Aleppo	≥VIII ≤X	≥VIII ≤X	4	SYR, TR	
<290>	956, January 5	Alexandria			1	ET	
<291>	963, May 12	Egypt				ET	
<292>	967, September	Claudiopolis	≥IX ≤XI	≥IX ≤XI	3	TR	
<293>	969, July 1	Egypt	≥VIII ≤X	≥VIII ≤X		ET	
<294>	972	Antioch	VII-VIII	VII-VIII	2	TR, SYR	
<295>	976, January 20	Monza	V	V	1	I	
<296>	977, August 19 - 978, August 8	Mahdia			1	TN	
<297>	989/990, October 25	Ariano Irpino	IX-X	IX-X	7	I	
<298>	989, October 26	Constantinople, Nicomedia	VIII	VIII	2	TR	
<299>	991, April 5	Damascus	IX	IX	2	SYR	
<300>	995	Balu, Cop'k', Palnatun	≥IX ≤XI	≥IX ≤XI	3	TR	



- cities or towns
- countries or regions
- [ ] number of the places mentioned by the sources



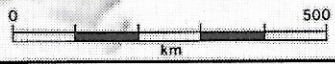




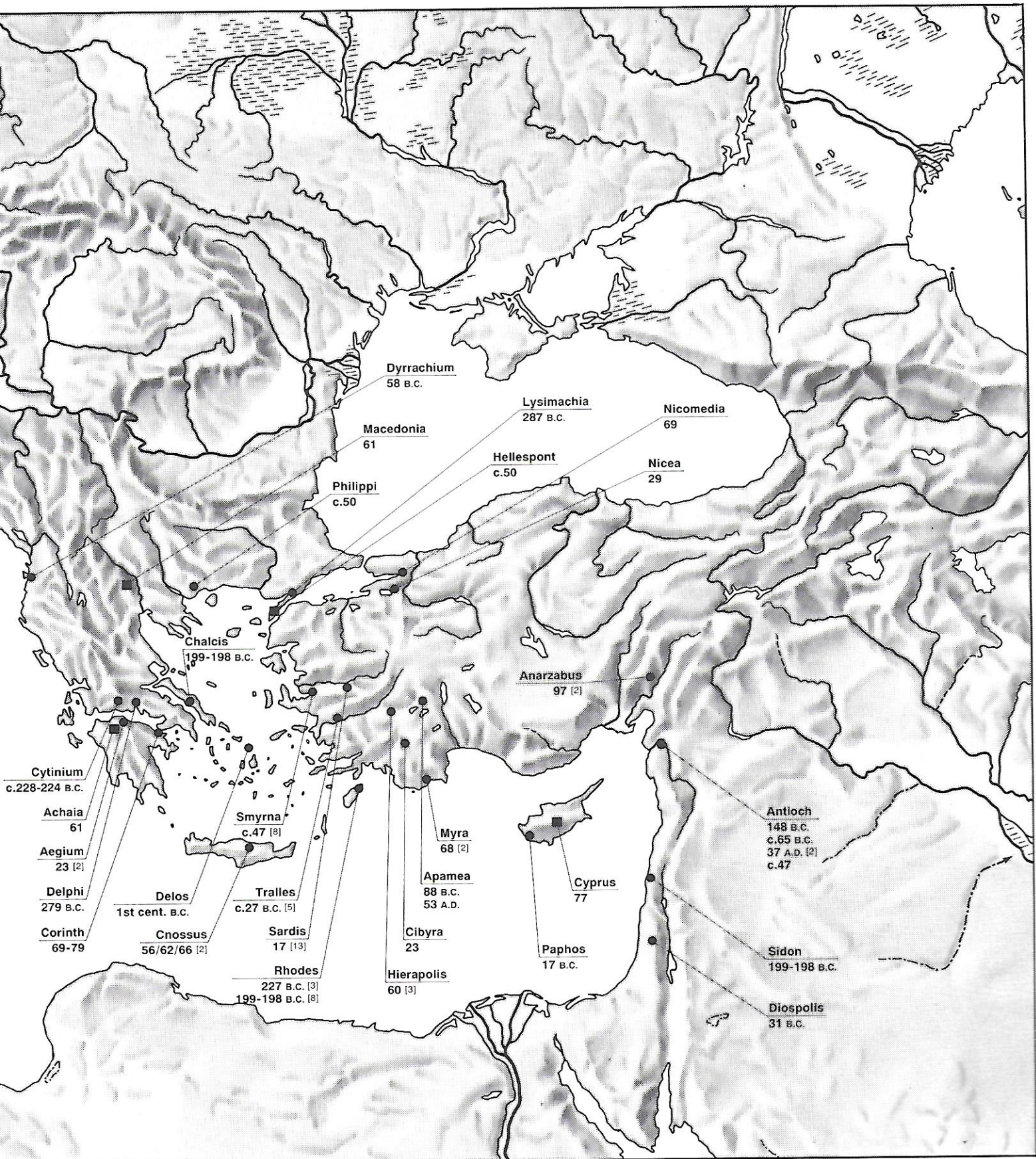
summary maps 760-303 B.C.



- cities or towns
- countries or regions
- [ ] number of the places mentioned by the sources







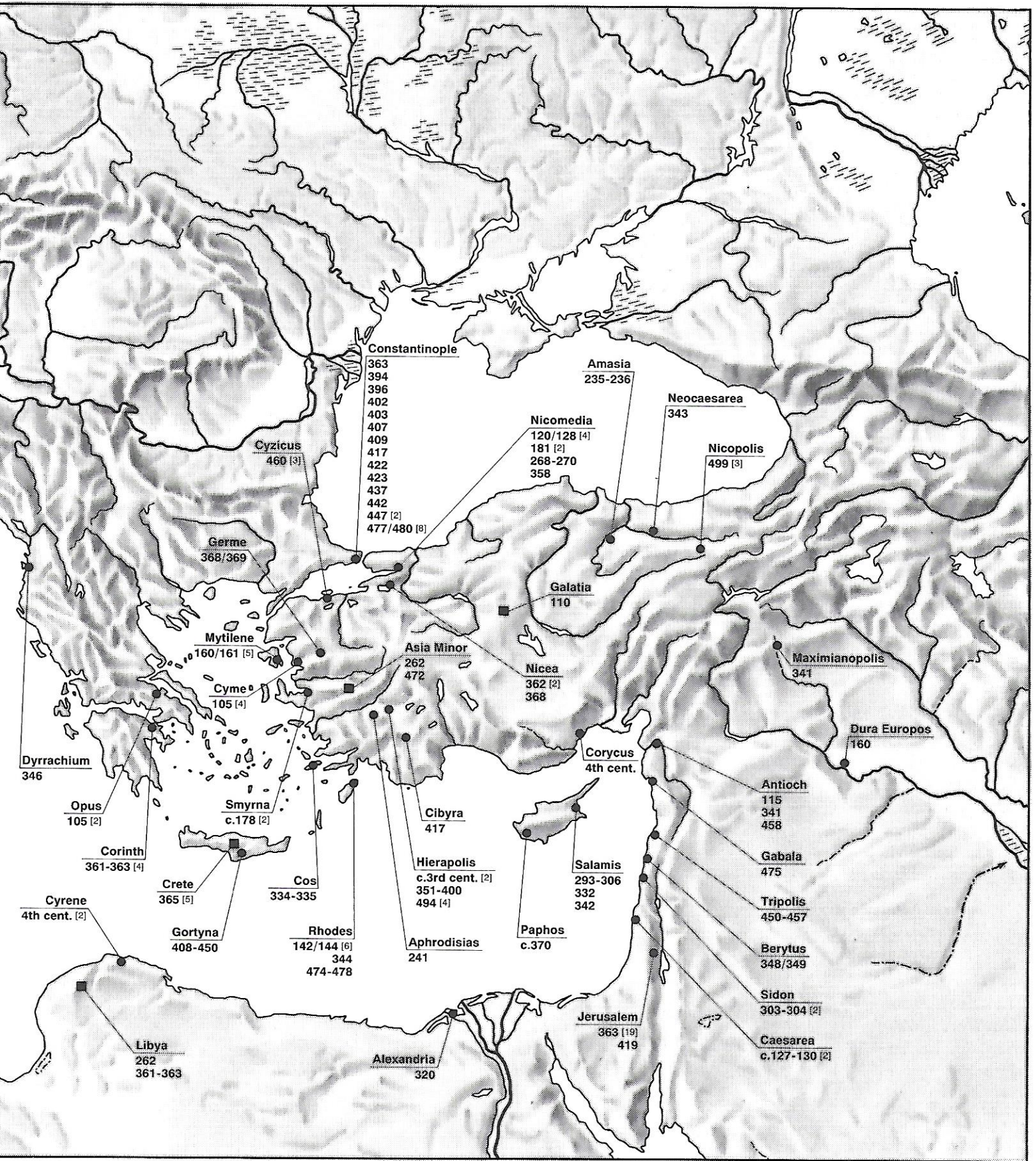
summary maps 287 B.C.-c.100 A.D.



- cities or towns
- countries or regions
- [ ] number of the places mentioned by the sources





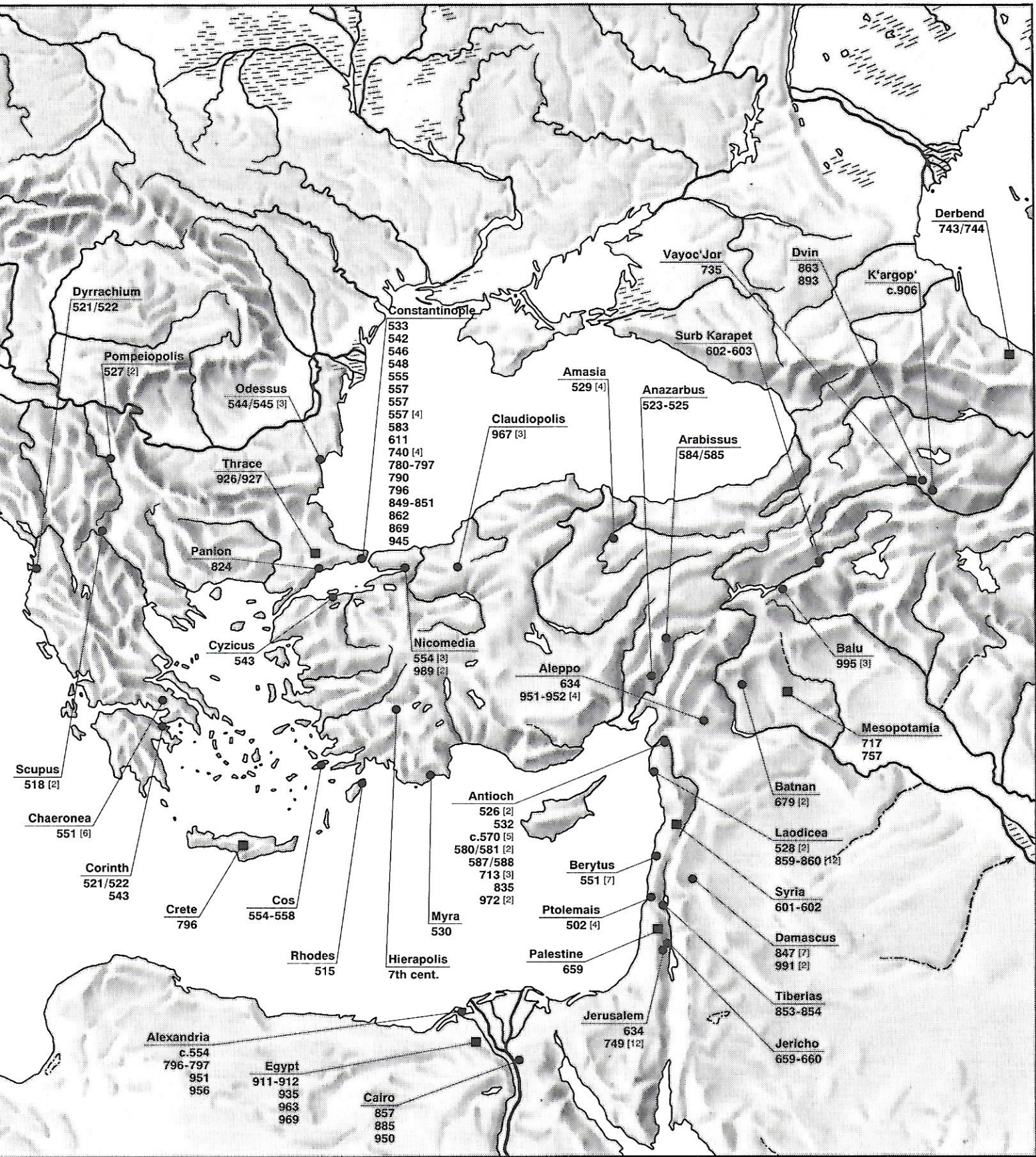




- cities or towns
- countries or regions
- [ ] number of the places mentioned by the sources







summary maps c.501-995 A.D.