

APPENDICES

Appendix 1: Radiocarbon dates for Late Pleistocene and Holocene sediments of the Black Sea coast and shelf from former USSR sources, arranged from youngest to oldest.

I.P. Balabanov, compiler

Appendix 2: Radiocarbon dates for Late Pleistocene and Holocene sediments of the Black Sea and Sea of Azov coasts and shelf from former USSR sources not included in Appendix 1 and from western sources, arranged from youngest to oldest.

Valentina V. Yanko-Hombach, compiler

Appendix 3: Programs of October-November, 2003, conferences.

Appendix 1. Radiocarbon dates for Late Pleistocene and Holocene sediments of the Black Sea coast and shelf from former USSR sources, arranged from youngest to oldest. Compiled by I.P. Balabanov.

Geographic Area*	Locality	Mode of Extraction	Elevation/ Water Depth (m)	Depth Within Core/ Outcrop (m)	Lithologic Unit/ Description	Laboratory Number**	Uncali- brated Age	± Error	References***
Colchis coast	Imnatskoe bog (southern coast of Paleostomi Lake)	Exploratory hole	6	2	Sphagnum peat	Mo-249	100		Vinogradova et al. 1963; Neishtadt et al. 1965
Anapa coast	Bamiyuk village, marine terrace	Exploratory hole	2	0.2	Mollusc shells with 30% removal of the outer layer	ЛП-89А	140	110	Badinova et al. 1976
Anapa coast	Bamiyuk village, marine terrace	Exploratory hole	2	0.2	Mollusc shells with 60% removal of the outer layer	ЛП-89В	240	90	Badinova et al. 1976
Pitsunda Peninsula	Nymphaean coastal bar	Exploratory hole 001/2	2.5	2.5	Mollusc shells dated after selection: <i>Chione gallina</i> (КИПН-437) and <i>Ostrea edulis</i> (КИПН-442)	КИПН-441	270	50	
Kuban River Delta	Dzigginskaya system of coastal bars, 6 km from Kiziltash liman	Core Д-1	1	0.2	<i>Cardium edule</i>	ЛУ-1877	660	90	Izmailov et al. 1989
Pitsunda Peninsula	Medieval coastal bar, western part of Pitsunda	Exploratory hole 2647	3.1	0.85	Wood in buried soil	ЛУ-524а	680	90	Balabanov et al. 1981
Ochamchiri shelf	Coastal shelf	Core 6/88	-29.2	4.6	Mollusc shells	МГУ-1185	690	100	
Pitsunda shelf	Pitsunda Bay, 0.6 km from the mouth of Tsanigvarta River, 0.8 km from the shore	Core 9	-28	3.5	Mollusc shells	ГПИ-104	770	35	Buachidze et al. 1975; Balabanov et al. 1981
Colchis coast	Left bank of Churiya River valley, 6 km from the river mouth	Core 369		0.5	Peat	ГИН	930	50	Timofeev and Bogolyubova 1998
Northwestern shelf	Dniepro-Bugian liman	Core 481	-5.7	2.6	Mollusc shells	КИ-1570	970	40	Gozhik and Novoselsky 1989

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Novyi Afon		Core 501	-15.2	2.8	Mollusc shells	КИПН-402	990	70	
Kerch Strait	Pesochnoe village, marine terrace (3-3.5 m)	Core 1017	3.4	1.5	Mollusc shells	ЛУ-110	1040	80	Badinova <i>et al.</i> 1976
Kuban River Delta	Markitanskaya spit	+2	2	1.5	Mollusc shells	МГУ-1549	1250	50	
Pitsunda Peninsula	Ancient boggy lagoon	Core 304	-0.7	3.9	Peat	ЛУ-1031	1350	60	Balabanov <i>et al.</i> 1981
Kobuleti coast		Core 380	2	0.2	Wood in peat	ГИПН-860a	1420	80	Kind <i>et al.</i> 1975, 1976
Kuban River Delta	Northern bank of Kazachya ridge	Outcrop	2	0	Mollusc shells	КИ	1600	50	Artyukhin <i>et al.</i> 1989
Northwestern shelf	Budaskii liman	Core 221	-2.4	2	Mollusc shells		1600	70	Palatnaya 1982; Molodykh <i>et al.</i> 1984
Pitsunda Peninsula	Nymphaean coastal bar	Exploratory hole 10	2	0	Mollusc shells	ВСЕГИНТЕ О II - 35	1665	86	Kuptsov <i>et al.</i> 1975
Pitsunda Peninsula	Nymphaean coastal bar	Exploratory hole 001/2	2.5	2.5	<i>Chione gallina</i> control of samples КИПН-441, КИПН-442	КИПН-437	1670	70	
Pitsunda shelf	Berth of Pitsunda resort, 0.08 km from the coast	Core 4	-15.8	12.9	<i>Ostrea edulis</i>	ГПИ-70	1690	240	Buachidze <i>et al.</i> 1975; Balabanov <i>et al.</i> 1981
Pitsunda shelf	Pitsunda Bay, 0.6 km from the mouth of Tsanigvarta River, 2.6 km from shore	Core 10	-38.25	7	Mollusc shells	ГПИ-105	1700	160	Buachidze <i>et al.</i> 1975
Kobuleti coast	First terrace of Natanebi River	Outcrop 13	10	1.2	Wood	ТБ-396	1740	50	Apakidze <i>et al.</i> 1987
Kuban River Delta	Kazachya ridge (~2 m), 1.4 km from Mostovyanskiy village	Outcrop	2	1	<i>Cardium edule</i> control of samples ТБ-398	ЛУ-1884	1740	50	Izmailov <i>et al.</i> 1989

Colchis coast	Ureki village, first coastal bar, to the south from the mouth of Supsa River	Exploratory hole	1.75	0	Mollusc shells		1750	240	Dzhandzhgava <i>et al.</i> 1979
Kobuleti coast	High flood-land of Natanebi River	Exploratory hole 344	13	2	Wood in alluvium	ТБ-490	1760	50	Apakidze <i>et al.</i> 1987
Kobuleti coast		Core 84	2.5	0.6	Peat	ТБ-486	1760	45	
Pitsunda Peninsula	Nymphaean coastal bar	Grubbing 1505	9	6.5	Mollusc shells	ВСЕГИНТЕ О II - 29	1790	170	Kuptsov <i>et al.</i> 1975; Balabanov <i>et al.</i> 1981
Pitsunda Peninsula	Nymphaean coastal bar	Grubbing 1505	9	6.5	Mollusc shells (control of sample ВСЕГИНТЕО II-29)	ЛЮ-548	1880	100	
Gagra coast	Beach cliff, river terrace of interfluvium between Byzb' and Ol'ginka Rivers	Outcrop without number	3	1	Peat	ТБ-350	1930	45	Apakidze <i>et al.</i> 1987
Kuban River Delta	Kazachya ridge, 1.4 km from Mostovyanskiy village	Outcrop without number	1	0	<i>Cardium edule</i> (control of sample ЛЮ-1884)	ТБ-398	1935	40	
Gagra shelf	Lower stretches of Zhvava-Kvara River	Core 607	-20	4.5	Mollusc shells	ЛЮ-724	1950	110	
Pitsunda Peninsula	Nymphaean coastal bar	Grubbing 134	2.75	0.55	Mollusc shells	ВСЕГИНТЕ О II - 30	1980	180	Kuptsov <i>et al.</i> 1975
Tuapse coast	Near Tuapse town	Core 14	2	11	<i>Chione gallina</i>	ЛЮ-308В	2000		Tertychny 1974
Colchis coast	Imnatskoe bog (southern shore of Paleostomi Lake)	Exploratory hole	6	6	Sphagnum peat	Мо-251	2100	150	Vinogradova <i>et al.</i> 1963; Neishtadt <i>et al.</i> 1965
Gagra coast	Beach cliff, interfluvium between Bzub' and Ol'ginka Rivers	Outcrop without number	3	0.9	Peat	ТБ-348	2130	45	Apakidze <i>et al.</i> 1987
Pitsunda Peninsula		Exploratory hole 001/2	2.5	2.5	<i>Ostrea edulis</i>	КИПН-442	2140	180	
Pitsunda Peninsula	Ancient boggy lagoon	Grubbing 1420a	0.3	0.8	Mollusc shells	ЛЮ-542	2190	80	Balabanov <i>et al.</i> 1981

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Gudauta shelf	Cape Souk-Su	Core 520	-6.8	12.4	Mollusc shells	КИПН-435	2220	120	
Kuban River Delta	Slobodkinsky Ridge (~1.5 km), 2.5 km from Slobodka village	Outcrop	1.5	0.75	<i>Cardium edule</i>	ЛГУ-1885	2220	40	Izmailov <i>et al.</i> 1989
Kobuleti coast		Core 380	2	0.8	Wood in peat	ГИН-860В	2240	150	Kind <i>et al.</i> 1975
Gagra coast	Beach cliff, Alachadze village	Outcrop	3	1.25	Peat	ТБ-351	2300	45	Аpakidze <i>et al.</i> 1987
Kuban River Delta	Dziginiskay system of coastal bars, 6 km from Kiziltash liman	Core 6-99	1.5	4.3	Mollusc shells	МГУ-1528	2300	110	
Gagra shelf	Lower stretches of Zhvava-Kvara River	Core 607	-20	8	Mollusc shells	ЛГУ-725	2450	150	
Gagra coast	Coastal part of Ol'ginka River valley	Exploratory hole 5039a	2.2	1.1	Wood, peat	ЛГУ-649	2450	80	
Kuban River Delta	Markitanskaya spit	Core M-2	2	2.3	Mollusc shells	МГУ-1552	2450	70	
Northwestern shelf	Berezanskii liman	Core 645	-7	2.5	Mollusc shells		2450	40	Molodykh <i>et al.</i> 1984
Pitsunda Peninsula	Ancient boggy lagoon	Core 190	-0.7	4.5	Mollusc shells	ВСЕГИНТЕ О II - 12	2470	380	Balabanov <i>et al.</i> 1981
Kobuleti coast	Kobuleti peat	Exploratory hole	2.5	0.9	Peat		2480	200	Dzhandzhgava <i>et al.</i> 1979
Sukhumi shelf	Western part of Sukhumi Bay	Core 718	-9.3	3.9	Mollusc shells	ТБ-384	2510	50	Аpakidze <i>et al.</i> 1987
Pitsunda Peninsula	Western side of Pitsunda Peninsula	Core 231	2.8	24	<i>Ostrea edulis</i> , <i>Chitamyx glabra</i> , and others	ВСЕГИНТЕ О II - 120	2530	120	Balabanov <i>et al.</i> 1981
Northwestern shelf	Dniepro-Bugian liman	Core 846	-5	4.6	Mollusc shells	КИ-2181	2560	30	Gozhik and Novosel'sky 1989
Colchis coast	Gagidskoe bog	Core 57	1	1	Peat	ГИН-647	2580	50	Kind <i>et al.</i> 1975

Colchis coast	Sakorkio village	Exploratory hole				Charcoal from 4th c. AD archaeological site	ТБ-6	2600	145	Апакидзе <i>et al.</i> 1987
Colchis coast	Molvavskoe bog, suburbs of Poti town	Core 44	1	2	Peat	Peat	ГИИ-645	2600	500	Kind <i>et al.</i> 1975
Kerch Strait	Chushka spit	Core 259	0.4	16	Mollusc shells	Mollusc shells	ЛУ-414	2630	160	
Kobuleti coast	Kobuleti peat	Core ?	2.5	1.8	Peat	Peat		2640	300	Dzhandzhigava <i>et al.</i> 1979
Novyi Afon coast	Marine slope of the first terrace, 0.1 km from the shoreline, in vicinity of the railway station Gvandra	Core 418	7.8	6.8	Mollusc shells	Mollusc shells	КИГН-313	2690	90	
Kobuleti coast		Core 380	2	1.5	Wood in peat	Wood in peat	ГИИ-860г	2770	100	Kind <i>et al.</i> 1975
Kobuleti coast		Core 387	7.5	5.8	Wood in peat	Wood in peat	ГИИ-862a	2830	100	Kind <i>et al.</i> 1975
Pitsunda shelf	Berth of Pitsunda resort, 0.08 km from the coast	Core 4	-15.8	12.9	Mollusc shells	Mollusc shells	ВСЕГЕНТЕ О - II - 33	2830	150	Kuptsov <i>et al.</i> 1975
Batumi coast	Batumski (Burun-Tabiya) Cape, stadium in Batumi	Outcrop	2	2	Mollusc shells in pebbles	Mollusc shells in pebbles		2840	180	Dzhandzhigava <i>et al.</i> 1979
Gagra coast	Beach, 0.7-0.8 km north of Colchis channel mouth, near Gmilushka River	Exploratory hole 008	1.8	0.4	Wood in peat	Wood in peat	КИГН-586	2880	40	
Kuban River Delta	Dzigninskaya system of coastal bars, 6 kilometers from Kiziltash liman	Core 6-99	1.5	6.3	Mollusc shells	Mollusc shells	МГУ-1529	2890	150	
Northwestern shelf	Dniepro-Bugian liman	Core 621	-5.8	2.75	Mollusc shells	Mollusc shells	КИ-1574	2900	40	Gozhik and Novosel'sky 1989
Pitsunda shelf	Pitsunda Bay, in front of the mouth of Tsanigvarta River, 2.08 km from shore	Core 3	-24.8	6.05	Wood	Wood	ВСЕГЕНТЕ О - II - 9	2920	340	Kuptsov <i>et al.</i> 1975
Northwestern shelf	Tiligulskii liman	Core 67		2	Mollusc shells	Mollusc shells		3000	90	Molodykh <i>et al.</i> 1984
Northwestern shelf	Shagany liman	Core 170	-2.24	1.3	Mollusc shells	Mollusc shells		3020	110	Molodykh <i>et al.</i> 1984

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Colchis coast	Mouth of Inguri River	Exploratory hole	1.25	2.2	Alder(-tree) peat	TA-1303	3090	100	Serebryanny <i>et al.</i> 1984
Pitsunda Peninsula	Ancient boggy lagoon	Core 473	0	14.8	<i>Divaricella divaricata</i> , <i>Pitar rudis</i> , <i>Spisula subtruncata</i> , <i>Ostrea edulis</i> , <i>Chione gallina</i> , <i>Bititium reticulatum</i> , <i>Cardium edule</i>	JIY-1033	3130	170	Balabanov <i>et al.</i> 1981
Colchis coast	Grigoleti village, second coastal bar, mouth of Supsa River	Exploratory hole	5	3	Mollusc shells		3140	280	Dzhandzhgava <i>et al.</i> 1979
Colchis coast	Chaladidi village, interfluvium between Rioni River and Paleostomi Lake	Exploratory hole	6	6	Mollusc shells	TB-56	3150	90	Burchuladze <i>et al.</i> 1975
Northwestern shelf	Dniepro-Bugian liman	Core 332	-4.4	3	Mollusc shells		3160	80	Molodykh <i>et al.</i> 1984
Kobuleti shelf	Coastal shelf	Core m20	-20	2	Mollusc shells	TE-480	3170	50	Apakidze <i>et al.</i> 1987
Northwestern coast	Alibey liman spit	Core 178	1.6	5.2	Mollusc shells		3200	100	Molodykh <i>et al.</i> 1984
Northwestern shelf	Dniepro-Bugian liman	Outcrop without number	-1.8	0.3	Mollusc shells under cultural layer at archaeological site of Olbia	JIЕ-1171	3210	50	Shilik 1972
Pitsunda Peninsula	Novochernomorskaya system of coastal bars	Exploratory hole 003	1.5	2.5	<i>Chione gallina</i>	КИГН-440	3250	160	
Gudauta shelf	Cape Souk-Su	Core 522	-16.5	1.5	Mollusc shells from clay sand	КИГН-577	3300	80	
Sukhumi shelf	2 km NNW from the mouth of Gumista River	Core 723	-9.8	4.5	Mollusc shells	TB-361	3340	50	Apakidze <i>et al.</i> 1987
Sukhumi shelf	Western part of Sukhumi Bay	Core 702	-15.4	0.7	Mollusc shells	TB-382	3360	50	Apakidze <i>et al.</i> 1987

Gudauta shelf	Near Cape Souk-Su	Core 520	-6.8	13.1	Mollusc shells	КИПН-436	3370	90	
Gudauta shelf	Left bank of Khipsta River	Core 535	-8.7	2.35	Mollusc shells in fine sand	КИПН-578	3380	80	
Gagra coast	North part of coastal plain	Core 459	2.7	3.25	Peat	ЛУ-651	3400	80	
Colchis coast	Molvayskoe bog, suburbs of Poti town	Core 44	1	2.75	Peat	ГИПН-646	3400	200	Kind <i>et al.</i> 1975
Kobuleti coast?		Core 84	2.5	1.4	Peat	ТБ-487	3420	90	
Colchis coast	Chaladidi village, "Zugra" hill, suburbs of Poti town	Exploratory hole			Charcoal; Late Bronze archaeological site XIV-X c. BC	ТБ-5	3470	190	Apakidze <i>et al.</i> 1987
Northwestern coast	Dniepro-Bugian liman, terrace +2 m	Outcrop without number	2	2.4	Mollusc shells	Мо-500	3480	60	Shilik 1972; Devirts <i>et al.</i> 1972
Northwestern coast	Odessa Bay port elevator	Core 31	1.2	12.1	Mollusc shells	ЛУ-1102	3500	170	
Pitsunda Peninsula	Beach, eastern side of Pitsunda Cape	Core 230	1	40	Mollusc shells	ВСЕГИПТЕ О II - 141	3520	130	Kuptsov <i>et al.</i> 1975
Pitsunda Peninsula	Coastal bar	Grubbing 60	2.5	1.5	Mollusc shells	ВСЕГИПТЕ О II - 28	3520	320	Kuptsov <i>et al.</i> 1975
Pitsunda Peninsula	SE of Lake Zmeinoe	Exploratory hole 006	0	0.94	Peat	КИПН-582	3550	50	
Pitsunda Peninsula	SE of Lake Zmeinoe	Exploratory hole 006	0	0.94	Peat	КИПН-583	3600	50	
Pitsunda Peninsula	Coastal bar	Exploratory hole 002	1.5	2.5	Mollusc shells	КИПН-438	3620	140	
Gagra coast	Beach, 0.7-0.8 km north of Colchis channel mouth, near Gnilyushka River	Exploratory hole 008	1.8	0.6	Peat	КИПН-587	3650	190	
Gagra coast	1.8-1.9 m above sea level south of Colchis channel mouth (Ol'ginka River)	Outcrop	1.9	0	Peat	МГУ-296	3690	120	Parunin <i>et al.</i> 1974; Kvavadze 1974
Kuban River Delta	Dziginiskaya system of coastal bars, 6 km from Kiziltash liman	Core 6-99	1.5	8.7	Mollusc shells	МГУ-1526	3770	60	

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Novyi Afon shelf		Core 1a/88	-30.4	2.45	Mollusc shells	МГУ-1190	3820	280	
Pitsunda Peninsula	Neochernomorion terrace, NW of Lake Inkit	Exploratory hole 007	0	0.36	Peat (control of sample КИГН-584)	КИГН-585	3850	60	
Sukhumi shelf	2 km NNW of the Gumista River mouth	Core 724	-14	5	Mollusc shells	ТБ-388	3850	50	Apakidze <i>et al.</i> 1987
Northwestern coast	Zmeiny Island	Core 862		2.4	Peat	КИ-690	3860	90	Kovalyukh <i>et al.</i> 1977
Kobuleti coast		Core 12		3	Mollusc shells	ТБ-393	3890	50	Apakidze <i>et al.</i> 1987
Novyi Afon shelf		Core 507	-14.9	2.9	Mollusc shells	КИГН-404	3900	70	
Northwestern coast	Marine terrace 1 km from the mouth of Berezhanskii liman	Outcrop without number	1	0.9	Mollusc shells		3900	100	Molodykh <i>et al.</i> 1984
Northwestern shelf	Budakskii liman	Core 221	-2.4	4	Mollusc shells		3900	100	Palatnaya 1982
Colchis coast	Left bank of Churiya River, 6 km from its mouth	Core 369		3.75	Peat	ГИН	3930	200	Timofeev and Bogolyubova 1998
Gagra coast	Lower stretches of Zhvava-Kvara River	Core 609	-17.8	22	Mollusc shells	ЛГУ-726	4000	140	
Novyi Afon coast	Psyrecha village, marine terrace 2.5 m above sea level	Exploratory hole	2.5	0.5	Mollusc shells overlying sand layer containing ceramics of the Kobamian culture (~4 ky BC)	ЛГ-95	4000	180	Badinova <i>et al.</i> 1976
Gagra shelf	Lower stretches of Zhvava-Kvara River	Core 607	-20	25	Mollusc shells	ЛГУ-727	4020	230	
Gudauta shelf	Left bank of Khipsta River	Core 536	-20.5	7.3	Mollusc shells in fine sand	КИГН-576	4020	80	
Northwestern shelf	Khadzhibeyskii liman	Core 342		4.6			4020	50	Molodykh <i>et al.</i> 1984

Sukhumi shelf	Interfluvial betw. Kelasuri and Madzharka Rivers	Core 717	-22.5	3.1	Mollusc shells	ТБ-353	4040	50	Apakidze <i>et al.</i> 1987
Colchis coast	Anakhiyski peat, south of the Inguri River mouth		1.25	3.5	Peat		4050	50	Burchuladze <i>et al.</i> 1975
Colchis coast	Churiyski peat			3.5	Peat		4050	60	Burchuladze <i>et al.</i> 1975
Pitsunda Peninsula	Neochernomorian terrace, NW of Lake Inkhit	Exploratory hole 007	0	0.36	Peat; control of sample КИГН-585	КИГН-584	4060	100	
Kobuleti coast	?	Core 385	3.5	3	Wood in peat	ГИН-861в	4070	120	Kind <i>et al.</i> 1975
Colchis coast	Anakhiyski peat in the Inguri River mouth		1.25	3.2	Sedge-reed peat	ТА-1301	4090	90	Serebryanny <i>et al.</i> 1984
Kobuleti coast	?	Core 385	3.5	2.25	Wood in peat	ГИН-8616	4100	300	Kind <i>et al.</i> 1975
Colchis coast	Poti			3.5	Peat	ГИН-103	4100	50	Zubakov 1974
Northwestern coast	Zmeiny Island	Core 862		2.6	Peat	КИ-691	4120	60	Kovalyukh <i>et al.</i> 1977
Colchis coast	Immatskoe bog (southern shore of Paleostomi Lake)		6	8.5	Peat	Мо-253	4130	190	Vinogradova <i>et al.</i> 1963; Neishtadt <i>et al.</i> 1965
Novyi Afon shelf	Coastal shelf	Core 517	-6.4	3.3	Mollusc shells	КИГН-414	4130	90	
Northwestern coast	Odessa Bay, port elevator	Core 8	1.45	16.6	Mollusc shells	ЛУ-1099	4130	150	
Gagra shelf	Lower Zhvava-Kvara R.	Core 607	-20	20	Mollusc shells	ЛУ-721	4140	160	
Colchis coast	Nabatskoe bog, right bank of Rioni River	Core 43	1	3.5	Sedge-reed peat	ГИН-108	4140	50	Cherdyntsev <i>et al.</i> 1966; Sluka 1969
Colchis coast	Gagidskoe bog		1	2.5	Peat		4150	40	Sluka 1969
Gagra coast	Interfluvial between Bzyb' and Ol'ginka Rivers	Core 316	2	3.9	Peat	ЛУ-507	4170	90	Balabanov <i>et al.</i> 1981
Colchis coast	20 km from Khobi River mouth, Horcha village (Khobski county); 1.3 m thick Pogrebennyi peat	Outcrop	4.5	0.3	Peat	ТБ-70	4170	50	Burchuladze <i>et al.</i> 1975

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Gagra coast	Beach, 0.7-0.8 km north of Colchis channel mouth, near Gnilushka River	Exploratory hole 008	1.8	1.1	Peat	КИПН-588	4200	60	
Gagra coast	Northern part of the coastal plain	Core 459	2.7	4.25	Peat	ЛУ-650	4220	70	
Gagra coast	Underwater slope south of Colchis channel (Ol'ginka River), 1.8-1.9 m above sea level	Outcrop without number	1.9	0	Peat	ТБ-43	4280	60	Burchuladze <i>et al.</i> 1975
Kobuleti shelf?		Core M24	-7.1	6.3	Mollusc shells	ТБ-481	4290	50	Апакидзе <i>et al.</i> 1987
Gagra shelf	Interfluvium between Ol'ginka and Tskherva Rivers	Core 617	-15.5	8.8	Mollusc shells	ЛУ-1065	4300	80	Dzhandzhgava <i>et al.</i> 1982
Kuban River Delta	Dzigsinskay system of coastal bars, 6 km from Kiziltash liman	Core 6-99	1.5	9.7	Mollusc shells	МУ-1527	4330	90	
Sukhumi shelf	Interfluvium between Kelasuri and Madzharka Rivers	Core 716	-10.4	1.4	Mollusc shells	ТБ-357	4370	60	Апакидзе <i>et al.</i> 1987
Colchis coast	Right bank of Supsa River, 3.5 km from mouth	Core 212	2	2	Peat	ГИН	4390	80	Тимофеев and Богolyubova 1998
Lazarevskoye coast	Left bank of Psezuapse River (close to the mouth)	Core 441	2.3	12	Mollusc shells	ЛУ-189	4440	100	Arslanov <i>et al.</i> 1975
Pitsunda Peninsula	Ancient boggy lagoon	Core 110	0	10.3	<i>Cardium edule</i> , <i>Ostrea edulis</i> , <i>Mytilus galloprovincialis</i> , <i>Paphia discrepans</i>	ВСЕГИНТЕ О II - 24	4450	310	Balabanov <i>et al.</i> 1981; Kuptsov <i>et al.</i> 1975
Gagra coast	Coastal plain, mouth of Ol'ginka River	Exploratory hole without number	2	1.8	Peat	ТБ-42	4460	150	Burchuladze <i>et al.</i> 1975

Pitsunda Peninsula	Cape Inkhit	Core 202	2.9	18	<i>Mytilus galloprovincialis</i> , <i>Divaricella divaricata</i> , <i>Spisula subtruncata</i> , <i>Chione gallina</i> , <i>Corbula mediterranea</i> , <i>Cardium edule</i>	ЛГУ-541	4480	60	Balabanov et al. 1981
Kuban River Delta	Zesterovataya ridge, 3 km from Prigibsky farmstead	Outcrop	0.8	0.15	<i>Cardium edule</i>	ЛГУ-1880	4500	60	Izmailov et al. 1989
Ochamchira shelf	Open sea	Core 6/89	-29.2	10	Mollusc shells	МГУ-1186	4500	120	
Northwestern coast	Marine terrace 1 km from the mouth of Berezanskii liman	Outcrop without number	1.75	1.45	<i>Cardium edule</i> , <i>Mytilus galloprovincialis</i> , <i>Hydrobia ventrosa</i>		4500	120	Molodykh et al. 1984
Pitsunda shelf	Pitsunda Bay in front of the mouth of Tsanigvaria River, 0.8 km from the shore	Core 1	-32.5	7.85	Mollusc shells	ГПИ-103-86	4510	200	Buachidze et al. 1975
Colchis coast	Anakhiyski peat, south of the Inguri River mouth		1.25	3.85	Sedge-reed peat	ТА-1300	4530	70	Serebryanny et al. 1984
Lazarevskoye coast	Right bank of Psezuapse River, close to the mouth	Core 401	1.77	13	Mollusc shells	ЛГУ-199	4560	160	Arslanov et al. 1975
Colchis coast	Anakhiyski peat, south of the Inguri River mouth		1.25	5.35	Peat in boggy clays	ТА-1299	4570	90	Serebryanny et al. 1984
Pitsunda shelf	Western part of Pitsunda Bay, berth of Pitsunda resort, 0.25 km from shore	Core 6	-40.3	26.6	Mollusc shells	ГПИ-97	4580	170	Buachidze et al. 1975
Northwestern coast	Odessa Bay, port elevator	Core 31	1.2	16.1	Mollusc shells	ЛГУ-1100	4600	680	
Sukhumi coast	Distal part of the Sebastopolisskiy Cape	Core 100	2.5	8.5	Peat	ТБ-371	4670	60	Apakidze et al. 1987
Novyi Afon shelf	?	Core 505	-8.4	3.3	Mollusc shells	КИПН-408	4680	80	
Kodora shelf	Kodorski Cape	Core 4/88	-17.3	13.7	Mollusc shells	МГУ-1187	4700	150	

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Kobuleti coast?		Core 88	2.1	5	Mollusc shells	ТБ-484	4770	60	Apakidze <i>et al.</i> 1987
Gagra shelf	Underwater slope south of Colchis channel (Ol'ginka River)	Outcrop	-3.5	7.0	Peat	МГУ-	4800	90	Kvavadze 1974
Kobuleti coast?		Core 385	3.5	3.45	Wood in peat	ГИН-861Г	4800	100	Kind <i>et al.</i> 1975
Northwestern shelf	Dniepro-Bugian liman	Core 481	-5.7	10.9	Mollusc shells	КИ-1571	4800	100	
Northwestern shelf	Dniepro-Bugian liman	Core 493	-6.6	5	Mollusc shells		4800	100	Gozhik and Novosel'sky 1989
Novyi Afon shelf		Core 514	-8.9	4	Mollusc shells	КИГН-416	4890	95	
Adler coast	Interfluvium betw. Mzymta and Psou Rivers, 3.4 km south of Mzymta River	Core A-11	3.8	17	Mollusc shells	ЛУ-702	4900	60	
Pitsunda Peninsula	In vicinity of poultry farm	Exploratory hole 005	0	0.3	Peat	КИГН-581	4960	270	
Kuban River Delta	Sadkovskaya system of coastal bars (1 m length), 2 km SE of Sadki village	Outcrop without number	1.0	0.6	<i>Cardium edule</i> , control of sample ЛУ-1879	ТБ-397	5025	50	
Northwestern shelf	Khadzhibeyskii liman	Core 342		6.8			5100	70	Molodykh <i>et al.</i> 1984
Kobuleti coast?		Core 88	2.1	6.5	Mollusc shells	ТБ-485	5120	60	Apakidze <i>et al.</i> 1987
Lazarevskoye coast	Right bank of Psezuapse River (close to the mouth)	Core Л-9	4	13	Mollusc shells	ЛУ-703	5140	90	
Sukhumi coast	Central part of Sukhumi Cape	Core 42	1	16	Mollusc shells	ТБ-341	5180	60	Apakidze <i>et al.</i> 1987
Kobuleti coast?		Core 71	4.8	8.3	Wood in lake-alluvial sediments	ТБ-488	5200	55	

Novyi Afon coast	Coastal part of the Aapsta River valley	Core 55	1.62	15.5	Wood in marine pebbles	КИГН-207	5200	80	
Northwestern shelf	Dnepro-Bugian liman	Core 846	-5	8.9	Mollusc shells	КИ 2182	5200	200	Gozhik and Novosel'sky 1989
Northwestern shelf	Dnepro-Bugian liman	Core 846	-5	11.8	Mollusc shells	КИ 2183	5200	90	Gozhik and Novosel'sky 1989
Northwestern shelf	Budakskii liman	Core 221	-2.4	5	Mollusc shells		5200	60	Palatnaya 1982; Molodykh <i>et al.</i> 1984
Kuban River Delta	Sadkovskaya system of coastal bars (1 m length), 2 km SE of Sadki village	Outcrop without number	1.0	0.6	<i>Cardium edule</i> , control of sample ТБ-397	ЛЮ-1879	5210	50	Izmailov <i>et al.</i> 1989
Kuban River Delta	Derevyankovskaya system of coastal bars, 2 km south of Derevyankovskaya village	Outcrop without number	1.0	0.5	<i>Cardium edule</i>	ЛЮ-1883	5210	60	Izmailov <i>et al.</i> 1989
Gagra coast	Coastal plain between Bzyb' and Ol'ginka Rivers	Core 16	2	7.2	Wood, peat	ЛЮ-508	5240	90	Balabanov <i>et al.</i> 1981
Colchis coast	Left bank of Churiya River, 6 km from mouth	Core 369		5	Peat	ГИН	5240	60	Timofeev and Bogolyubova 1998
Kobuleti shelf?		Core m14	-6	5.7	Mollusc shells	ТБ-483	5270	60	Апакидзе <i>et al.</i> 1987
Pitsunda shelf	Western part of Pitsunda Bay (berth of Pitsunda resort), 0.25 km off shore	Core 6	-40.3	28.6	<i>Mytilus galloprovincialis</i>	ГПИ-78	5270	180	Burchuladze <i>et al.</i> 1975; Balabanov <i>et al.</i> 1981
Kuban River Delta	Derevyankovskaya system of coastal bars west of Derevyankovskaya village	Outcrop without number	1.5	1.0	<i>Cardium edule</i> , control of sample ЛЮ-1881	ТБ-399	5310	55	
Pitsunda shelf	Erosion bench in the upper reach of "Akula" canyon	Outcrop without number	-35	0	Wood	МГУ-	5320	170	Balabanov <i>et al.</i> 1981
Novyi Afon shelf	?	Core 1/88	-53	2.5	Mollusc shells	МГУ-1184	5340	120	
Kobuleti coast?		Core 7	5.8	11.2	Mollusc shells	ТБ-392	5350	55	

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Northwestern shelf	Tiligulskii liman	Core 9	-9	4.3	Mollusc shells		5360	170	Molodykh <i>et al.</i> 1984
Colchis coast	5-6 km from the mouth of Supsa River, Supsa village		9	10.5	Peat	MTY; TJI-61	5400	700	Kvavadze 1978
Gagra shelf	Lower stretches of Zhvava-Kvara River	Core 607	-20	34.6	Mollusc shells	JTY-720	5410	320	
Colchis coast	Churitski peat, Khobi River mouth	?	1	5	Peat		5500	80	Dzhanelidze 1980
Northwestern shelf	Dniepro-Bugian liman	Core 493	-6.6	9.9	Mollusc shells	KI-1572	5500	80	Gozhik and Novosel'sky 1989
Colchis coast	Mouth of Inguri River		1.25	6.35	Peat	TA-1298	5540	100	Serebryanny <i>et al.</i> 1984
Sukhumi shelf	2 km NNW from the mouth of Gumista River	Core 723	-9.8	10.5	<i>Spisula subtruncata</i> , <i>Turbonilla delicata</i> , <i>Chione gallina</i> , <i>Bittium reticulatum</i> , <i>Retusa umbilicata</i> , <i>Mytilaster lineatus</i> , <i>Cardium edule</i> , <i>Hydrobia ventrosa</i>	TB-362	5540	60	Apakidze <i>et al.</i> 1987
Tuapse coast	Lazarevskoe village, marine terrace	Core 1209	1.4	18	Mollusc shells	JTY-195	5550	380	Arsianov <i>et al.</i> 1975
Gagra shelf	Interfluvium betw. Ol'ginka and Tskherva Rivers	Core 617	-15.5	24	Mollusc shells on terrestrial loams	JTY-1064	5560	70	Dzhandzhgava <i>et al.</i> 1982
Sukhumi coast	Rear part of peninsula, 0.8 km west of Adzapskh River	Core 125	3	9.6	Peat	TB-391	5570	50	Apakidze <i>et al.</i> 1987
Colchis coast	20 km from the Khobi River mouth, Horchia village (Khobski county); 1.2 m buried peat	Outcrop without number	4.5	1	Peat	TB-60	5600	50	Burchuladze <i>et al.</i> 1975
Northwestern coast	Allbey liman	Core 178	1.6	8	Mollusc shells		5600	170	Molodykh <i>et al.</i> 1984

Northwestern shelf	Dniepro-Bugian liman	Core 621	-5.8	10.75	Mollusc shells	КИ-1575	5600	70	Gozhik and Novosel'sky 1989
Pitsunda Peninsula	SW coastal part of the peninsula	Core 114	3.6	50	Mollusc shells	ВСЕГИНТЕ О II - 8	5650	95	Kuptsov <i>et al.</i> 1975
Kuban River Delta	Sadkovskaya system of coastal bars (1 m length), 10.4 km S of Sadki village	Outcrop	1.0	0.25	<i>Cardium edule</i>	ЛУ-1878	5660	60	Izmailov <i>et al.</i> 1989
Northwestern shelf	Dniepro-Bugian liman	Core 495	-5	16.1	Mollusc shells	КИ-1573	5700	90	Gozhik and Novosel'sky 1989
Northwestern shelf	Dniepro-Bugian liman	Core 493	-6.6	13	Mollusc shells		5700	90	Gozhik and Novosel'sky 1989
Kobuleti coast	?	Outcrop 10	12	5.9	Wood	ТБ-394	5710	60	
Adler coast	Interfluvial betw. Mzymta and Psou Rivers, 3.4 km S of the Mzymta River	Core 1204y	2	12	Wood in marine sediments	ЛУ-187	5720	120	Arslanov <i>et al.</i> 1975
Sukhumi shelf	2 km NNW from the mouth of Gumista River	Core 724	-14	10	<i>Spisula subtruncata</i> , <i>Rissoa splendida</i> , <i>Chione gallina</i> , <i>Cardium exiguum</i> , <i>Bitium reticulatum</i> , <i>Nassarius truncatulus</i> , <i>Retusa umbilicata</i> , <i>Pachia discrepans</i> , <i>Cardium edule</i> , <i>Hydrobia ventrosa</i> , rarely: <i>Ostrea edulis</i> , <i>Modiolus adriaticus</i> , <i>Gastrana fragilis</i>	ТБ-389	5720	60	Apakidze <i>et al.</i> 1987
Novyi Afon coast	Right bank of Tsevekvava River valley	Core 414	3	8	Mollusc shells	КИГН-122	5730	120	
Adler coast	Marine terrace on the interfluvial between the Kudepsta and Mzymta Rivers	Core A-18	5.87	20	Mollusc shells	ЛУ-753	5740	80	

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Sukhumi shelf	Near the Gumista River mouth	Core 725	-7.1	11.3	Mollusc shells	ТБ-390	5760	60	Аpakidze <i>et al.</i> 1987
Gagra coast	Northern part of the coastal plain	Core 407	3	30	Mollusc shells	ЛГУ-730	5760	160	
Colchis coast	Imatskoe bog (southern shore of Paleostomi Lake)		6	11.3	Sphagnum peat	Мо-254	5820	210	Vinogradova <i>et al.</i> 1963; Neishtadt <i>et al.</i> 1965
Novyi Afon shelf	?	Core 1/88	-53	3.7	Mollusc shells	МГУ-1191	5830	840	
Pitsunda shelf	Pitsunda Bay, in front of the Tsanigvarta River mouth, 0.8 km from the shore	Core 1	-32.5	14.15	Mollusc shells	ВСЕГИНТЕ О - II - 43	5840	410	Кuptsov <i>et al.</i> 1975
Adler coast	Marine terrace on the interfluvial betw. Kudepsta and Mzymta Rivers	Core A-17	5.33	15	Mollusc shells	ЛГУ-754	5860	70	
Kuban River Delta	Derevyankovskaya system of coastal bars, W of Derevyankovskaya station	Outcrop without number	1.5	1.0	<i>Cardium edule</i> , control of sample ТБ-399	ЛГУ-1881	5890	50	Izmailov <i>et al.</i> 1989
Kobuleti coast ?		Outcrop 10	12	7.8	Wood	ТБ-395	5910	60	Аpakidze <i>et al.</i> 1987
Kobuleti coast ?		Core 70	2.7	13.1	Mollusc shells	ТБ-482	5950	55	
Kobuleti coast ?		Core 387	7.5	9	Wood in peat	ГИН-862В	6000	500	Kind <i>et al.</i> 1975
Sukhumi shelf	Interfluvial between Kelasuri and Madzharka Rivers	Core 717	-22.5	6.9	Mollusc shells	ТБ-355	6050	60	Аpakidze <i>et al.</i> 1987
Sukhumi shelf	Interfluvial between Kelasuri and Madzharka Rivers	Core 716	-10.4	3	Mollusc shells	ТБ-358	6060	60	Аpakidze <i>et al.</i> 1987
Gagra shelf	Lower stretches of Ol'ginka River	Core 604	-14	7	Mollusc shells	ЛГУ-677	6060	180	Dzhandzhgava <i>et al.</i> 1982

Sukhumi shelf	Interfluvial between Kelasuri and Madzharka Rivers	Core 717	-22.5	6	Mollusc shells	ТБ-354	6060	60	Apakidze et al. 1987
Pitsunda Peninsula	SW coastal part of the peninsula	Core 214	5.2	30.0	Mollusc shells	ВСЕГИНТЕ О II - 41	6070	130	Kuptsov et al. 1975
Northwestern shelf	Budakskii liman	Core 221	-2.4	9	Mollusc shells		6100	80	Palatnaya 1982
Gagra shelf	Lower stretches of Ol'ginka River	Core 602	-7.1	12.2	Mollusc shells	ЛГУ-669	6160	160	Dzhandzhgava et al. 1982
Adler coast	Interfluvial between Mzymta and Psou Rivers, rear part of the terrace	Core A-9	1.62	7	Wood in peat	ЛГУ-700	6180	70	
Adler shelf	Canyon on Cape Konstantinovski	Outcrop without number	-16	0	Mollusc shells	ТБ-347	6210	60	
Pitsunda shelf	Within Pitsunda bayhead, opposite Tsanigvarta River estuary, 0.05 km from shore		-42	17.2	<i>Mytilus galloprovincialis</i>		6240	230	Burchuladze et al. 1975; Balabanov et al. 1981
Kobuleti coast		Core 387	7.5	6.25	Wood in peat	ГИН-8626	6300	2000	Kind et al. 1975
Northwestern shelf	Dniepro-Bugian liman	Core 855	-8.5	6.9	Peat	КИ-2241	6300	300	Gozhik and Novosel'sky 1989
Gudauta coast		Mine 1001/1	2	18	Wood	КИГН-230	6430	200	
Sukhumi coast	Rear part of the peninsula, 0.4 km W of Adzapskh River	Core 36	5.2	8	Peat	ТБ-352	6430	60	Apakidze et al. 1987
Novyi Afon shelf	Coastal shelf	Core 502	-8.5	4.5	Mollusc shells	КИГН-407	6460	190	
Sukhumi shelf	Interfluvial between Kelasuri and Madzharka Rivers	Core 716	-10.4	5	Mollusc shells	ТБ-359	6480	60	Apakidze et al. 1987
Novyi Afon shelf	Coastal shelf	Core 503	-8.7	5	Mollusc shells	КИГН-400	6480	180	

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Kerch Strait		Core 14	-6.5	7.5	<i>Dreissena rostriformis</i>	МГУ-400	6500	250	Sheherbakov <i>et al.</i> 1977
Novyi Afon shelf	Coastal shelf	Core 510	-7.9	4.8	Mollusc shells	КИГН-410	6520	100	
Sukhumi coast	Right bank of Gumista River valley, 2 km NNW of mouth, on the sea shore	Core 50	4.5	18	Mollusc shells	ТБ-369	6520	70	Apakidze <i>et al.</i> 1987
Sukhumi shelf	2 km NNW of the mouth of the Gumista River	Core 722	-6	3.2	Mollusc shells	ТБ-385	6540	60	Apakidze <i>et al.</i> 1987
Sukhumi shelf	Interfluvial betw. Kelasuri and Madzharka Rivers	Core 716	-10.4	7.1	Mollusc shells	ТБ-360	6540	60	Apakidze <i>et al.</i> 1987
Sukhumi coast	Distal part of Sebastopol'skiy Cape	Core 100	2.5	11.3	Peat	ТБ-372	6590	65	Apakidze <i>et al.</i> 1987
Novyi Afon shelf	Coastal shelf	Core 516	-5.3	6	Mollusc shells	КИГН-415	6590	110	
Lazarevskoe coast	Left bank of Psezuapse River (close to the mouth)	Core JI-7	0.82	13	Mollusc shells	ЛУ-701	6600	120	
Novyi Afon shelf	Coastal shelf	Core 501	-15.2	6.2	Mollusc shells	КИГН-403	6650	130	
Colchis coast	Chaladidi village, "Simagre" locality between Rioni River and Paleostomi Lake		6	19	Peat	ТБ-55	6660	100	Vinogradova <i>et al.</i> 1963; Neishtadt <i>et al.</i> 1965
Colchis coast	Right bank of Rioni River, center of Nabadskoe bog	Core 43	1	6	Peat	ГИН-127	6660	60	Cherdyn'tsev <i>et al.</i> 1966; Sluka 1969
Sukhumi coast	Right bank of Gumista River, 2 km NNW from mouth, on the sea shore	Core 50	4.5	20	Mollusc shells	ТБ-376	6690	70	Apakidze <i>et al.</i> 1987
Novyi Afon coast	Coastal part of the Aapsta River valley	Core 58	6.53	17	Wood in liman clay	КИГН-204	6770	130	

Novyi Afon coast	Coastal part of the Aapsta river valley	Core 55	1.62	23.2	Wood in marine clay	КИПН-205	6780	120	
Northwestern shelf	Odessa-Dniester seaside	Core 189	-16.6	8.4	<i>Dreissena polymorpha</i> , <i>Viviparus viviparus</i> , <i>Lithoglyphus naticoides</i> , <i>Theodoxus pallasi</i>		6800	90	Inozemtsev <i>et al.</i> 1984
Adler coast	Interfluvium between Mzymta and Psou Rivers, 3.4 km S of the Mzymta River	Core A-12	2	13	Peat	ЛП-699	6810	120	
Lazarevskoye coast	Right bank of Psezuapse River (close to the mouth)	Core 401	1.77	20	Mollusc shells	ЛП-509	6820	210	
Novyi Afon shelf	Coastal shelf	Core 503	-8.7	3	Mollusc shells	КИПН-399	6890	120	
Sukhumi coast	Left bank of Gumistia River, near the mouth	Core 63	2	24	Mollusc shells	ТБ-378	6920	70	Apakidze <i>et al.</i> 1987
Gudauta coast	?	Core 1	2	12	Peat	ТБ-400	6960	60	Apakidze <i>et al.</i> 1987
Adler coast	Interfluvium betw. Mzymta and Psou Rivers, 3.5 km S of the Mzymta River	Core 1203y	2	20	Peat	ЛП-184	6970	120	Arslanov <i>et al.</i> 1975
Adler coast	Interfluvium betw. Mzymta and Psou Rivers, rear part of marine terrace	Core A-1	8.85	21	Peat	ЛП-635	7000	140	
Gagra shelf	Underwater slope, S of Colchis channel (Ol'ginka River)	Outcrop without number	0	5	Peat	ТБ-47	7060	100	Burchuladze <i>et al.</i> 1975
Adler coast	Interfluvium betw. Mzymta and Psou Rivers, middle part of marine terrace	Core A-2	1.17	20.3	Peat	ЛП-638	7090	90	
Sukhumi coast	W part of Sukhumi Cape	Core 49	2.5	16	Mollusc shells	ТБ-377	7140	70	Apakidze <i>et al.</i> 1987
Northwestern shelf	Tiligulskii liman	Core 9	-9	10.5	Mollusc shells		7150	190	Molodykh <i>et al.</i> 1984

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Sukhumi coast	Left bank of Gumista River, 1.3 km SSE, sea shore	Core 93	3	15	Mollusc shells	ТБ-379	7210	70	Apakidze et al. 1987
Northwestern coast	2.5 km from Primorskoe village	Core 219	1.5	29.8	Plant remains in Bugazian overlapping Neoeuxinian sediments	ЖП-165	7250	190	Badinova et al. 1978
Northwestern shelf	Dniepro-Bugian liman	Core 621	-5.8	16.5	Mollusc shells in layer of peat between Bugazian and Vityazevian sediments	КИ-1576	7300	120	
Sukhumi shelf	Interfluvium between Kelasuri and Madzharka Rivers	Core 717	-22.5	9.2	<i>Cardium edule</i> , <i>Corbula mediterranea</i> , <i>Hydrobia ventrosa</i>	ТБ-356	7300	70	Apakidze et al. 1987
Adler coast	High floodland, 4.2 km from mouth of Psou River	Core 5456	16.93	25	Wood in delta-liman sediments	ЖУ-687	7310	120	
Sukhumi coast	W part of Sukhumi Cape	Core 49	2.5	22	Mollusc shells	ТБ-375	7310	70	Apakidze et al. 1987
Kuban River Delta	Small Dziginka village	Core Ж-2	1	20.15	Peat	ЖУ-1882	7380	80	Izmailov et al. 1989
Northwestern shelf	Dniepro-Bugian liman	Core 858	-2.2	8.75	Peat	КИ-1583	7500	110	Gozhik and Novosel'sky 1989
Sukhumi shelf	2 km NNW from mouth of the Gumista River	Core 722	-6	10.3	Mollusc shells	ТБ-387	7500	70	Apakidze et al. 1987
Sukhumi coast	W part of Sukhumi Cape	Core 41	1.3	14	Mollusc shells	ТБ-373	7500	70	Apakidze et al. 1987
Northwestern shelf	Dniepro-Bugian liman	332	4.4	13.0	Mollusc shells		7520	120	Molodykh et al. 1984
Crimea shelf	W of Sevastopol and S of Balaklava	Core 101	-97	1	<i>Dreissena rostriformis</i>	МТУ-401	7560	140	Parunin et al. 1974
Adler coast	Right bank of Mzymta River	Core A-14	2.58	20	Wood in peat	ЖУ-748	7610	70	

Sukhumi shelf	2 km NNW of the mouth of the Gumista River	Core 723	-9.8	13	<i>Corbula mediterranea</i> , <i>Mytilaster lineatus</i> , <i>Cardium edule</i> , <i>Abra ovata</i> , <i>Hydrobia ventrosa</i> , rarely <i>Monodacna caspia</i>	ТБ-363	7630	250	
Adler coast	Interfluvium betw. Mzymta and Psou Rivers, 3.4 km S of the Mzymta River	Core 1204y	2	23	Peat	JLY-185	7760	130	Arslanov et al. 1975
Northwestern shelf	Dniester coastal zone	Core 183	-9.9	12.3	<i>Abra ovata</i> , <i>Dreissena polymorpha</i> , <i>Monodacna caspia pontica</i>		7800	90	Inozemtsev et al. 1984
Northwestern shelf	Odessa sand-bank	Core 67	-24	1.8	Mollusc shells in alluvium: <i>Viviparus viviparus</i> , <i>Clessiniola variabilis</i> , <i>Lithglyphus naticoides</i>		7800	90	Inozemtsev et al. 1984
Adler coast	Interfluvium betw. Mzymta and Psou Rivers, 3.5 km S of the Mzymta River	Core 1203y	2	30	Wood in peat	JLY-183	7850	120	Arslanov et al. 1975
Sukhumi coast	Distal part of Sukhumi Cape	Core 48	1.5	38	Mollusc shells	ТБ-374	7860	70	Apakidze et al. 1987
Colchis coast	Right bank of the mouth of Rioni River, near Poti		2	19	Peat above shallow marine sediments	ТБ-86	7900	60	Dzhanelidze 1980
Adler coast	High floodland of Psou River, 4.2 km from mouth	Core 544	19.85	22	Wood in delta alluvium	JLY-686	8000	150	
Colchis coast	Valley of Supsa River, 5-6 km from the mouth		9	21	Peat	МГУ; ТЛ-11	8000	940	Kvavadze 1978
Northwestern shelf	Odessa sand-bank	60	-7.5	6.6	<i>Dreissena polymorpha</i> , <i>Monodacna caspia pontica</i> , <i>Clessiniola variabilis</i>		8030	80	Inozemtsev et al. 1984
Adler coast	Right bank of Mzymta River	Core 1-14	2.58	22	Wood in peat	JLY-752	8050	70	
Adler coast	High floodland of Psou River, 4.2 km from mouth	Core 544	19.85	35	Peat in delta-liman sediments	JLY-689	8090	50	

Geographic Area*	Locality	Mode of Extraction	Elevation/ Water Depth (m)	Depth Within Core/ Outcrop (m)	Lithologic Unit/ Description	Laboratory Number**	Uncalibrated Age	± Error	References***
Northwestern shelf	Odessa sand-bank	Core 14/16		0.5	Peat, bark		8130	70	Inozemtsev <i>et al.</i> 1984
Northwestern shelf	Budakskii liman	Core 221	-2.4	17	Bugazian-like molluscs in marine sediments atop continental sediments		8200	105	Palatnaya 1982
Adler coast	Interfluvium between Mzymta and Psou Rivers, rear part of marine terrace	Core A-1	8.85	27.5	Sphagnum peat	JTY-636	8210	130	
Sukhumi shelf	2 km NNW from the mouth of Gumista River	Core 723	-9.8	13	<i>Mytilaster lineatus</i> (young specimen), <i>Cardium edule</i> , <i>Abra ovata</i> , <i>Hydrobia ventrosa</i> , <i>Dreissena polymorpha</i> (mass form), <i>Monodacna caspia</i> , <i>Theodoxus pallasi</i> , <i>Micromelania elegantula</i> , <i>Clessiniola variabilis</i>	TB-364	8260	300	
Adler coast	Interfluvium betw. Mzymta and Psou Rivers, middle part of marine terrace	Core A-2	1.17	27.7	Peat	JTY-637	8330	60	
Northwestern shelf	Odessa sand-bank	Core 1		12.2	Silty peat		8400	90	Inozemtsev <i>et al.</i> 1984
Crimean shelf	W of Sevastopol and S of Balaklava, S shore Crimea	Core 101	-97	2.5	<i>Dreissena rostriformis</i>	MTY-319	8550	130	Parunin <i>et al.</i> 1979; Shcherbakov <i>et al.</i> 1977
Northwestern coast	Adzalykskii liman, Bolshoy sand spit, Novaya Dophnovka village	Core 289	1.5	25.7	Marine molluscs in abundant plant debris	JIT-161	8610	170	Badinova <i>et al.</i> 1978
Northwestern coast	Dniester liman	Core 157	2	25.2			8700	150	Inozemtsev <i>et al.</i> 1984

Pitsunda Peninsula	Central part of peninsula	Core 125	1.6	77	<i>Dreissena polymorpha</i> , <i>Monodactna caspia</i> , <i>Theodoxus pallasi</i> , <i>Micromelania caspia</i> , control of samples JП-168 and JY-365	ВСЕГИНТЕ О II - 14	8850	160	Kupitsov <i>et al.</i> 1975; Balabanov <i>et al.</i> 1981
Northwestern shelf	Grigor'evka village, 60 km E of Odessa, near the shore	Core 10		10	Peat	MTY-48	8880	290	Parunin <i>et al.</i> 1979; Kaplin <i>et al.</i> 1977
Gudauta shelf	Cape Souk-Su	Core 522	-16.5	10.55	Peat	КИПН-443	8890	150	
Northwestern shelf	Central part of Golitsin Uplift	Core 151	-38	3	Peat		8900	130	Inozemtsev <i>et al.</i> 1984
Northwestern shelf	Odessa sand-bank	Core 1/16		3.6	Peat		9000	100	Inozemtsev <i>et al.</i> 1984
Northwestern shelf	Dniester coastal zone	Core 182	-12.9	6.7	Silt with plant debris		9000	100	Inozemtsev <i>et al.</i> 1984
Northwestern shelf	Odessa-Dniester seaside	Core 166	-23.5	2.5	Mollusc shells in alluvium (?)		9100	120	Inozemtsev <i>et al.</i> 1984
Gudauta shelf	Left bank of Khipsta River	Core 535	-8.7	10.1	Peat	КИПН-446	9180	380	
Gagra shelf	Interfluvium betw. Ol'ginka and Tskherva Rivers	Core 617	-15.5	32.8	Mollusc shells	JY-1060	9220	1770	Dzhandzhgava and Balabanov 1982
Northwestern shelf	Grigor'evka village, 60 km E of Odessa, near the shore			16.3	Peat	MTY-47	9240	380	Parunin <i>et al.</i> 1974; Kaplin <i>et al.</i> 1977
Sukhumi shelf	Sukhumi Bay, 0.8 km SE of the Basla River mouth	Core 721	-14.9	26.7	Peat	ТБ-346	9310	80	Apakidze <i>et al.</i> 1987; Yanko and Troitskaya 1987
Novyi Afon shelf	Coastal shelf	Core 503	-8.7	10.4	Mollusc shells	КИПН-401	9350	350	
Northwestern shelf	Open sea	Core 187	-19.6	3.3	Mollusc shells in alluvium: <i>Dreissena polymorpha</i> , <i>Clessiniola variabilis</i> , <i>Lithoglyphus naticoides</i> , <i>Viviparus viviparus</i>		9400	180	Inozemtsev <i>et al.</i> 1984

Geographic Area*	Locality	Mode of Extraction	Elevation/ Water Depth (m)	Depth Within Core/ Outcrop (m)	Lithologic Unit/ Description	Laboratory Number**	Uncali- brated Age	± Error	References***
Northwestern shelf	Odessa Bay	Core 162	-10.1	18.2	<i>Dreissena polymorpha</i> , <i>Dreissena rostriformis</i> , <i>Lithoglyphus naticoides</i> , <i>Viviparus viviparus</i>		9500	150	Inozemtsev <i>et al.</i> 1984
Northwestern shelf	Odessa sand-bank	Core 10	-12.9	14.9	Mollusc shells		9600	120	Inozemtsev <i>et al.</i> 1984
Northwestern shelf	Open sea	Core 185	-17.7	5.3	Peat		9700	150	Inozemtsev <i>et al.</i> 1984
Northwestern coast	Sand spit of Kuyalnitsky lagoon	Core 153	2	32.2	Peat		9800	400	Inozemtsev <i>et al.</i> 1984
Northwestern shelf	Odessa Bay	Core 162	-10.1	19.4	Peat		9900	110	Inozemtsev <i>et al.</i> 1984
Pitsunda Peninsula	Central part of peninsula	Core 125	1.6	77	<i>Dreissena polymorpha</i> , <i>Monodacna caspia</i> , <i>Theo- doxus pallasi</i> , <i>Micro- melania caspia</i> , control of samples ВСЕГИНТЕО II - 14 and JY-365	JIП-168	9960	340	Balabanov <i>et al.</i> 1981
Pitsunda Peninsula	Ancient lagoon in the rear part of the peninsula	Core 138	0.3	53.4	Wood in peat above marine sediments with <i>Dreissena polymorpha</i> , <i>Monodacna caspia</i> , rarely <i>Clessiniola variabilis</i>	ВСЕГИНТЕО II - 124	10,130	180	Balabanov <i>et al.</i> 1981
Northwestern shelf	Golitsin Uplift, Core 4M, 1971y.	Core 1		2	<i>Viviparus</i> in alluvium-lacustrine sediments (?)		10,200	450	Kovalyukh <i>et al.</i> 1977
Pitsunda Peninsula	Central part of peninsula	Core 125	1.6	77	<i>Dreissena polymorpha</i> , <i>Theo- doxus</i> , <i>Micromelania</i> , con- trol of samples ВСЕГИН ТЕО II -14 and JIП-168	JIY-365	10,220	140	Balabanov <i>et al.</i> 1981

Sukhumi shelf	2 km NNW of the Gumista River mouth	Core 724	-14	32.6	<i>Dreissena polymorpha</i> , <i>Theodoxus pallasi</i> , rarely <i>Monodacna caspia</i> , <i>Clessiniola variabilis</i>	ТБ-370	10,350	100	
Adler coast	Interfluvium between Mzymta and Psou Rivers, 2.5 km S of the Mzymta River, central part of marine terrace	Core 1206y	3	83	Shell rock with fine sand: <i>Dreissena polymorpha</i> , <i>Theodoxus pallasi</i> , rarely <i>Monodacna caspia</i> , <i>Micromelania caspia</i> , <i>Clessiniola variabilis</i>	ЛУ-350	10,350	270	Arslanov et al. 1975
Northwestern shelf	Odessa sand-bank	Core 10	-12.9	13.6	Mollusc shells in alluvium (?) <i>Dreissena polymorpha</i>		10,400	180	Inozemtsev et al. 1984
Northwestern shelf	Odessa-Dniester seaside	Core 168	-27	7.4	Mollusc shells in alluvium: <i>Dreissena polymorpha</i> , <i>Viviparus viviparus</i> , <i>Micro-melania lineta</i> , <i>Unio</i> sp.		10,500	150	Inozemtsev et al. 1984
Kerch Strait	Chushka Spit	Core 259	0.4	41.2	Mollusc shells	ЛУ-366	10,530	190	
Colchis coast	Coastal peat, mouth of Khobi River, Kulevi village	Core 47	1	42	Plant detritus	ГИИ-632	10,550	200	Kind et al. 1975
Northwestern shelf	Odessa-Dniester seaside	Core 101		11.6	Peat		10,600	300	Inozemtsev et al. 1984
Northwestern shelf	Odessa sand-bank	Core 26/18	13	1	Peat		10,600	160	Inozemtsev et al. 1984
Kerch Strait	?	Core 17	-6.5	12.5	<i>Dreissena rostriformis</i>	МТУ-405	10,800	200	Shcherbakov et al. 1977
Northwestern shelf	Odessa sand-bank	Core 10	-12.9	16	Peat		10,800	600	Inozemtsev et al. 1984

* Geographic Regions:

Northwestern:

Kerch-Taman region:
Caucasus Black Sea coast (from N to S):

Ukraine

Kuban River Delta, Kerch Strait
Anapa, Tuapse, Lazarevskoe, Adler, Gagra, Pitsunda, Gudauta, Novyi Afon, Sukhumi, Kodori, Ochamechiri, Colchis, Kobuleti, Batumi

*** Laboratory Index of Organizations Performing Radiocarbon analyses:

Мо	Institute of Geochemistry and Analytical Chemistry of the Academy of Sciences of the USSR
ГИИ	Geological Institute of the Academy of Sciences of the USSR
МГУ	Moscow State University
ВСЕГИНТЕО	All-Union Scientific Research Institute of Hydrogeology and Engineering Geology, Ministry of Geology of the USSR
ЛЕ	Leningrad Branch of the Institute of Archaeology of the Academy of Sciences of the USSR
ЛГ	All-Union Research Geological Institute of the Academy of Sciences of the USSR
ЛУ	Research Geographical-Economic Institute of Leningrad State University
КИ	Institute of Geochemistry and Physics of Minerals of the Academy of Sciences of the Ukrainian Soviet Socialist Republic
КИГН	Institute of Geological Sciences of the Academy of Sciences of the Ukrainian Soviet Socialist Republic
ТБ	Tbilisi State University
ТА	Institute of Zoology and Botany of the Academy of Sciences of the Estonian Soviet Socialist Republic

*** When a primary source is not specified, the date is being published here for the first time. All sources appear in the reference list for the paper by Balabanov in this volume, pp. 725-730.

Appendix 2. Radiocarbon dates for Late Pleistocene and Holocene sediments of the Black Sea and Sea of Azov coasts and shelf from former USSR sources not included in Appendix 1 and from western sources, arranged from youngest to oldest. Compiled by V.V. Yanko-Hombach.

Geographic Area*	Locality	Mode of Extraction	Elevation/ Water Depth (m)	Depth Within Core/ Outcrop (m)	Lithological Unit/Description of Dated Material/Age	Laboratory Number**	Uncali- brated Age	± Error	References***
Caucasian shelf		Core 36	-215	0.0-0.08		КИ-669	100		Mitropol'sky, pers. comm., 12.07.02
Northwestern shelf		Core 3	53	0.05	Mollusc shells in silty mud	КИ-682	100		Balandin and Mel'nik 1987
Northwestern shelf	Profile Tarkhankut-Cape Zmeinyi	Core 12	-90	0.0-0.1	Shell-bearing silty mud	КИ-659	120	70	Mitropol'sky, pers. comm., 12.07.02
Northwestern shelf		Core 12	-90	0.1	Mollusc shells in silty mud	КИ-46659	120	70	Balandin and Mel'nik 1987
Crimea shelf		Core 1306	-130	0.0-0.03	Shell-bearing silty mud	КИ-146	130	50	Mitropol'sky, pers. comm., 12.07.02
Northwestern shelf		Core 30	-90	0.1	Mollusc shells in calcareous silty mud	КИ-665	160	60	Balandin and Mel'nik 1987
Caucasian shelf		Core 38	-192	0.0-0.15	Mud	КИ-678	240	50	Mitropol'sky, pers. comm., 12.07.02
Crimean shelf		Core 3	-80	0.0-0.12	Mud	КИ-667	270	70	Mitropol'sky, pers. comm., 12.07.02
Crimean shelf		Core 26	-80	0.0-0.12	Silty mud	КИ-667	270	150	Mitropol'sky, pers. comm., 12.07.02
Northwestern shelf		Core 4	53	0.1	Mollusc shells in clayey mud	КИ-680	270	70	Balandin and Mel'nik 1987
Northwestern shelf	Profile Tarkhankut-Cape Zmeinyi	Core 7	-85	0.0-0.1	Shell-bearing silty mud	КИ-661	350	80	Mitropol'sky, pers. comm., 12.07.02
Crimean shelf		Core 1306	-130	0.03-0.12	Clayey mud with <i>Modiolus phaseolinus</i>	КИ-156	620	100	Mitropol'sky, pers. comm., 12.07.02
Caucasian shelf		Core 39					670	90	Mitropol'sky, pers. comm., 12.07.02

Geographic Area*	Locality	Mode of Extraction	Elevation/ Water Depth (m)	Depth Within Core/ Outcrop (m)	Lithological Unit/Description of Dated Material/Age	Laboratory Number**	Uncalibrated Age	± Error	References***
Northwestern shelf		Core 29	-84	0.4	Mollusc shells in silty mud	КИ-666	990	10	Balandin and Mel'nik 1987
Crimea shelf		Core 1306	-130	0.12-0.24	Clayey mud with <i>M. phaseolinus</i>	КИ-148	1400	120	Mitropol'sky, pers. comm., 12.07.02
Northwestern shelf	Left bank of Kuyalnikskii liman	Core 51	0.5	1	Kalamitian mollusc shells		1440	40	Gozhik <i>et al.</i> 1987
Northwestern shelf		Core 7	-70	0.2-0.3	Calcareous silty mud	КИ-664	1520	190	Mitropol'sky, pers. comm., 12.07.02
Northwestern shelf	Profile Cape Khersones-Romanian coast	Core 19	-190	0.2-0.26	Calcareous silty mud	КИ-662	1620	170	Mitropol'sky, pers. comm., 12.07.02
Northwestern shelf	Yagorlytskii Bay	Core 4/163	-5.2	0.0-1.2	Dzhemetinian mollusc shells		1700	90	Gozhik <i>et al.</i> 1987
Caucasian shelf		Core 38	-192	1.3-1.42	Mud	КИ-679	1740	100	Mitropol'sky, pers. comm., 12.07.02
Crimean shelf		Core 3	-53	0.8-0.9		КИ-683	1750	100	Mitropol'sky, pers. comm., 12.07.02
Northwestern shelf		Core 27	-88	0.88	Mollusc shells in silty mud	КИ-672	1800	100	Balandin and Mel'nik 1987
Northwestern shelf	Central trench	Core 38p	-19	0.4-0.45	Dzhemetinian mollusc shells		1830	60	Gozhik <i>et al.</i> 1987
Northwestern shelf	Central trench	Core 3p	-19	0.1-0.13	Dzhemetinian mollusc shells		1880	70	Gozhik <i>et al.</i> 1987
Northwestern shelf		Core 4	-53	0.83	Mollusc shells in clayey mud	КИ-681	1930	100	Balandin and Mel'nik 1987
Northwestern coast	Dniestrovskii liman	Core 6 ИГН АН УССР	-60	60.4	Calcareous mud	КИ-655	1950	200	Balandin and Mel'nik 1987
Northwestern shelf		Core 1	-60	0.3-0.4	Calcareous silty mud	КИ-655	1950	200	Mitropol'sky, pers. comm., 12.07.02
Northwestern shelf	Central trench	Core 38p	-19	0.65-0.7	Dzhemetinian mollusc shells		2110	90	Gozhik <i>et al.</i> 1987

Southwestern shelf	41°50.38' N x 28°37.54' E	Core MAR00-06	-127	0.45	<i>Mytilus</i> spp.	TO-9138	2160	60	Aksu <i>et al.</i> 2002c
Northwestern shelf	Tendrovskii Gulf	Core 35/134	-15.6	1.5-1.6	Dzhemetician mollusc shells		2300	80	Gozhik <i>et al.</i> 1987
Northwestern shelf	Danube	Core 17					2350	130	Mitropol'sky, pers. comm., 12.07.02
Northwestern shelf		Core 17	-150	0.4	Mollusc shells in silty mud	KИ-642	2350	130	Balandin and Mel'nik 1987
Northwestern shelf	Tendrovskii Gulf	Core 35/134	-15.6	1.8-2.0	Dzhemetician mollusc shells		2450	80	Gozhik <i>et al.</i> 1987
Northwestern shelf	Dniester seashore	Core 181	-12.9	1.2-2.0	Dzhemetician mollusc shells		2500	50	Gozhik <i>et al.</i> 1987
Northwestern shelf	Profile Tarkhankut-Cape Zmeinyi	Core 5	-52	0.65-0.75	Shell-bearing silty mud	KИ-660	2540	100	Mitropol'sky, pers. comm., 12.07.02
Northwestern shelf	Tendrovskii Gulf	Core 22/138	-12.7	0.0-0.45	Mollusc shells		2600	100	Gozhik <i>et al.</i> 1987
Northwestern shelf	Tendrovskii Gulf	Core 22/138	-12.7	0.45-0.85	Dzhemetician mollusc shells		2640	90	Gozhik <i>et al.</i> 1987
Northwestern shelf	Danube	Core 16					2700	105	Mitropol'sky, pers. comm., 12.07.02
Northwestern shelf		Core 16	-140	0.6	Mollusc shells in silty mud	KИ-673	2700	105	Balandin and Mel'nik 1987
Western shelf		Core 2362	-102	2.5-2.65	Silty mud with Neoeuxinian fauna	ИОАН-155	2740		Malovitsky <i>et al.</i> 1979
Turkish shelf	Near Sinop	Frame dredge	-140 to -170		<i>Trophonopsis breviata</i>	OS-21652	2800	45	Ballard <i>et al.</i> 2000
Turkish coast	Coastal plain of Sakarya River	Core KSK-20		8.5	Wood		2810	125	Görür <i>et al.</i> 2001
Turkish shelf	Near Sinop	Frame dredge	-140 to -170		<i>Modiolula phaseoline</i> (correct Latin name is <i>Modiolus phaseolinus</i>)	OS-21645	2810	40	Ballard <i>et al.</i> 2000
Northwestern shelf	Tendrovskii Gulf	Core 20/134	-13	1.1-1.45	Dzhemetician mollusc shells		2880	100	Gozhik <i>et al.</i> 1987
Northwestern shelf	Tendrovskii Gulf	Core 20/134	-13	1.45-1.65	Dzhemetician mollusc shells		2930	70	Gozhik <i>et al.</i> 1987

Geographic Area*	Locality	Mode of Extraction	Elevation/ Water Depth (m)	Depth Within Core/ Outcrop (m)	Lithological Unit/Description of Dated Material/Age	Laboratory Number**	Uncal- brated Age	± Error	References***
Northwestern shelf	Profile Cape Tarkhankut-Romanian coast	Core 18	-180	0.5-0.6	Calcareous silty mud	KИ-663	2960	180	
Northwestern shelf	Tendrovskii Gulf	Core 35/134	-15.6	2.35	Dzhemettinian mollusc shells		2970	80	Gozhik <i>et al.</i> 1987
Northwestern shelf	Profile Tarkhankut-Cape Zmeinnyi	Core 2	-50	0.9-1.0	Calcareous silty mud	KИ-656	2980	170	Mitropol'sky, pers. comm., 12.07.02
Northwestern shelf	Dnieper-Bugskii liman	Core 5/144	-4.8	1.8-1.9	Dzhemettinian mollusc shells		3010	90	Gozhik <i>et al.</i> 1987
Sea of Azov	Belosaraiskaia spit	Core 36	-4		Novoazovian <i>Mytilus galloprovincialis</i>	KИ-332	3100	170	Semenenko and Kovalyukh 1973
Turkish shelf	Near Sinop	Frame dredge	-140 to -170		<i>Parvicardium exiguum</i>	OS-21656	3190	50	Ballard <i>et al.</i> 2000
Turkish shelf	Near Sinop	Frame dredge	-140 to -170		<i>Papillocardium papillosum</i>	OS-21644	3200	70	Ballard <i>et al.</i> 2000
Western shelf		Core 2362	-102	0.1-0.2	Mud with <i>Phaseolinus</i>	Woods Hole	3400		Malovitsky <i>et al.</i> 1979
Western shelf		Core 2362	-102	0.1-0.2	Mud with <i>Phaseolinus</i>	Woods Hole	3400		Malovitsky <i>et al.</i> 1979
Sea of Azov	Near Belosaraiskaia spit	Core 36	-8		Dzhemettinian <i>Cardium edule</i>	KИ-306	3450		Semenenko and Kovalyukh 1973
Northwestern shelf		Core 711	-39.4	0	Dzhemettinian mollusc shells		3480	45	Gozhik <i>et al.</i> 1987
Northwestern shelf	Dnieper-Bugskii liman	Core 3a/158	-3.2	1.7-1.9	Dzhemettinian mollusc shells		3500	55	Gozhik <i>et al.</i> 1987
Western shelf		Core 2345	-122	0.15-0.25	Mud with <i>Phaseolinus</i>	Woods Hole	3780		Malovitsky <i>et al.</i> 1979
Turkish shelf	Near Sinop	Frame dredge	-140 to -170		<i>Bitium reticulatum</i>	OS-21653	3860	50	Ballard <i>et al.</i> 2000
Northwestern shelf	Central trench	Core 187	-19.6	0.7-1.0	Dzhemettinian mollusc shells		4000	80	Gozhik <i>et al.</i> 1987
Western shelf		Core 2360	-91	0.3-0.4	Mud with <i>Modiolus</i>	Woods Hole	4020		Malovitsky <i>et al.</i> 1979

Northwestern shelf	Central trench	Core 187	-19.6	0.0-0.7	Dzhemetician mollusc shells		4100	70	Gozhik <i>et al.</i> 1987
Turkish shelf	Near Sinop	Frame dredge	-140 to -170		<i>Abra ovata</i>	OS-21654	4130	45	Baillard <i>et al.</i> 2000
Northwestern shelf	Central part, profile Cape Khersones-Romanian coast	Core 21	-64	0.44-0.52	Calcareous silty mud	KИ-643	4170	310	Mitropol'sky, pers. comm., 12.07.02
Northwestern shelf	Central trench	Core 39p	-19	2.6-2.65	Dzhemetician mollusc shells		4330	100	Gozhik <i>et al.</i> 1987
Northwestern shelf	Dnieper-Bugskii liman	Core 3a/158	-3.2	2.0-2.15	Dzhemetician mollusc shells		4400	100	Gozhik <i>et al.</i> 1987
Turkish coast	Coastal plain of Sakarya River	Core KSK-18	2	8.5	Shell		4900	180	Görür <i>et al.</i> 2001
Northwestern shelf	Tendrovskii Gulf	Core 38/140	-13	0.5-0.65	Kalamitian mollusc shells		4930	80	Gozhik <i>et al.</i> 1987
Northwestern shelf	Dnieper 44° 57.6' N x 32° 5.5' E	Core BS1	-68	0.64	L1/Marine <i>Mytilus galloprovincialis</i>		5080	115	Majur 2002
Northwestern shelf	Tendrovskii Gulf	Core 30/129	-17.5	1.9-2.1	Kalamitian mollusc shells		5160	90	Gozhik <i>et al.</i> 1987
Northwestern shelf	Tendrovskii Gulf	Core 38/140	-13	1.15-1.25	Kalamitian mollusc shells		5300	125	Gozhik <i>et al.</i> 1987
Southwestern shelf	41°49.01' N x 28°30.68' E	Core MAR00-05	-83	0.6	<i>Mytilus</i> spp.	TO-9137	5460	70	Aksu <i>et al.</i> 2002b
Northwestern shelf	Tendrovskii Gulf	Core 22/138	-12.7	1.25-1.3	Kalamitian mollusc shells		5530	100	Gozhik <i>et al.</i> 1987
Northwestern shelf	Dniestrovskii trench	Core 493	-6.5	9.9-10.6	Kalamitian mollusc shells		5550	80	Gozhik <i>et al.</i> 1987
Northwestern shelf	Central trench	Core 38p	-19	2.7-2.73	Kalamitian mollusc shells		5560	90	Gozhik <i>et al.</i> 1987
Southwestern shelf	41°27.26' N x 29°16.01' E	Core MAR98-04	-112	0.24	<i>Mytilus</i>	TO-7782	5680	60	Aksu <i>et al.</i> 2002b
Northwestern shelf	Dnieper-Bugskii liman	Core 493	-6.5	13.0-13.1	Kalamitian mollusc shells		5700	90	Gozhik <i>et al.</i> 1987
Northwestern shelf	Yagorlytskii Bay	Core OGU	1	0.4-0.5	Kalamitian mollusc shells		5770	80	Gozhik <i>et al.</i> 1987

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Sea of Azov	Central part	Core 39		4.6	Drevneazovian <i>Chione gallina</i>	KИ-307	5770		Semenenko and Kovalyukh 1973
Southwestern shelf	41°42.16' N x 28°43.32' E	Core MAR00-08	-96	0.54	<i>Mytilus</i> spp.	TO-9139	5780	70	Aksu <i>et al.</i> 2002b
Southwestern shelf	41°27.26' N x 29°16.01' E	Core MAR98-04	-112	1.04	<i>Mytilus</i>	TO-7783	5780	60	Aksu <i>et al.</i> 2002b
Northwestern shelf	Tendrovskii Gulf	Core 38/140	-13	0.75-0.95	Kalamitian mollusc shells		5800	100	Gozhik <i>et al.</i> 1987
Turkish coast	Coastal plain of Sakarya River	Core KSK-4	5	9.3	Shell		5810	160	Görür <i>et al.</i> 2001
Northwestern shelf	Central trench	Core 189	-16.6	8.4	Kalamitian mollusc shells		6000	90	Gozhik <i>et al.</i> 1987
Northwestern shelf	Profile Cape Khersones-Romanian coast	Core 20	-181	0.7-0.9	Calcareous silty mud	KИ-641	6110	240	Mitropol'sky, pers. comm., 12.07.02
Southwestern shelf	41°42.38' N x 29°06.31' E	Core MAR00-09	-115	1.19	<i>Mytilus</i> spp.	TO-9525	6132	139	Aksu <i>et al.</i> 2002b
Sea of Azov	Central part	Core 39			Drevneazovian <i>Chione gallina</i>	KИ-308	6200		Semenenko and Kovalyukh 1973
Caucasian coast	Pitsunda Bay	Core 2					6240	230	Balabanov <i>et al.</i> 1981
Northwestern shelf	Yagorlytskii Bay	Core 4/163	-5.2	1.2-1.75	Kalamitian mollusc shells		6280	75	Gozhik <i>et al.</i> 1987
Northwestern shelf	Central trench	Core 38p	-19	2.75-2.85	Kalamitian mollusc shells		6320	120	Gozhik <i>et al.</i> 1987
Northwestern shelf	Tendrovskii Gulf	Core 38/140	-13	1.0-1.15	Kalamitian mollusc shells		6400	105	Gozhik <i>et al.</i> 1987
Northwestern shelf		Core 817	-20	2.5	Peat with plant remains	KИ-65	6400	300	Balandin and Mel'nik 1987
Northwestern shelf		Core 1517	-130	0.4	Kalamitian mollusc shells		6430	100	Gozhik <i>et al.</i> 1987
Northwestern shelf	Dnieper 44°57.6' N x 32°5.5' E	Core BS1	-68	1.21	L1/Marine <i>Mytilus</i>		6470	30	Major 2002

Northwestern shelf	Tendrovskii Gulf	Core 20/134	-13	1.75-1.95	Kalamitian mollusc shells	6540	120	Gozhik <i>et al.</i> 1987
Southwestern shelf	41°42.16' N x 28°43.32' E	Core MAR00-08	-96	1.16	<i>Mytilus</i> spp.	6590	70	Aksu <i>et al.</i> 2002b
Northwestern shelf	Dnestrovskii trench	Core 92	-7.2	1.9-2.1	Kalamitian mollusc shells	6600	100	Gozhik <i>et al.</i> 1987
Southwestern shelf	41°49.01' N x 28°30.68' E	Core MAR00-05	-83	1.67	<i>Cardium</i> spp.	6660	70	Aksu <i>et al.</i> 2002b
Northwestern shelf	Danube 44°15.2' N x 30°24.68' E	Core BLKS9801	-92	0.33	L1/Bugazian <i>Mytilus galloprovincialis</i>	6750	70	Major 2002
Southwestern shelf	41°19.82' N x 29°45.53' E	Core MAR00-23	-98	1.7	<i>Mytilus</i> spp.	6760	60	Aksu <i>et al.</i> 2002b
Western shelf		Core 62	-93	0.55-0.65	Sapropel and <i>Mytilus</i> mud	6800		Malovitsky <i>et al.</i> 1979
Turkish shelf	Near Sinop	Frame dredge	-140 to -170		<i>Mytilus galloprovincialis</i>	6820	55	Ballard <i>et al.</i> 2000
Northwestern shelf	Dnieper 44°57.6' N x 32°5.5' E	Core BS1	-68	1.34	L1/Bugazian <i>Mytilus galloprovincialis</i>	6860	35	Major 2002
Northwestern shelf	Dnieper 44°53.4' N x 32°9.3' E	Core BS7/AK93-7	-108	0.92	L1/Bugazian <i>Mytilus galloprovincialis</i>	6860	35	Major 2002; http://imager.ideo.columbia.edu/BlackSeaShelf/Table.html
Western shelf		Core 2362	-102	0.6-0.7	Shell hash with Vityazevian fauna	6890	630	Malovitsky <i>et al.</i> 1979
Northwestern shelf	Dnieper 44°57.6' N x 32°5.5' E	Core BS1	-68	1.3	L1/Bugazian <i>Cardium exiguum</i>	6910	45	Major 2002
Northwestern shelf		Core 817	-20	2.6	Peat with plant remains	6920	120	Balandin and Mel'nik 1987
Caucasian coast	2 km NNW of Gumista River mouth	Core 722	-6	5.4-6.1	Mollusc shells	7040	70	Balabanov, pers. comm., 09.07.03
Northwestern shelf		Core 6	-6.8	4	Peat with plant remains	7040	170	Balandin and Mel'nik 1987
Northwestern shelf	Tiligulskii liman	Core 67	Not known	5.5-7.2	Kalamitian mollusc shells	7080	140	Gozhik <i>et al.</i> 1987

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Northwestern shelf		Core 817	-20	2.7	Peat with plant remains	КИ-69	7100	105	Balandin and Mel'nik 1987
Northwestern shelf		Core 711	-39.4	0.25	Kalamitian mollusc shells		7110	70	Gozhnik <i>et al.</i> 1987
Northwestern shelf	Dnieper 45°21.9' N x 31°49.7' E	Core BS3-2	-49	0.49	<i>Monodactna caspia</i>	OS-2321	7130	40	Major 2002; http://imager.ldeo.columbia.edu/BlackSeaShelf/Table.html
Northwestern shelf	44°58.8' N x 32°11.1' E	Core BS12/AK93-12	-78	1.44	L1/Bugazian <i>Cardium edule</i>	OS-2325	7140	45	Major 2002; http://imager.ldeo.columbia.edu/BlackSeaShelf/Table.html
Northwestern shelf	Dnieper 44°54.4' N x 32°8.5' E	Core BS8	-99	1	L1/Bugazian <i>Cardium exiguum</i>		7140	45	Major 2002
Northwestern shelf	Dnieper 44°57.6' N x 32°5.5' E	Core BS1/AK93-1	-68	1.34	L1/Bugazian <i>Monodactna caspia</i>	OS-2357	7220	40	Major 2002; http://imager.ldeo.columbia.edu/BlackSeaShelf/Table.html
Turkish shelf	Near Sinop	Frame dredge	-140 to -170		<i>Turricaspia caspia lincta</i>	OS-21659	7460	55	Baillard <i>et al.</i> 2000
Western shelf		Core 2362	-102	0.7-0.9	Shell hash with mixed Bugazian and Vityazevian fauna	ИОАН-153	7480	540	Malovitsky <i>et al.</i> 1979
Turkish shelf	Near Sinop	Frame dredge	-140 to -170		<i>Turricaspia caspia lincta</i>	OS-21661	7480	55	Baillard <i>et al.</i> 2000
Northwestern coast	Dniestrovskii liman	Core 3	-6.6	13.9	Peat	КИ-50	7500	200	Balandin and Mel'nik 1987
Northwestern coast	Dnieper-Bugskii liman, Ochakovskii profile 1-1	Core 303a		12	Mud	КИ-733	7520	120	Mitropol'sky, pers. comm., 12.07.02

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Northwestern shelf	Danube 44°1.9' N x 29°54.84' E	Core BLKS9831	-75	1.76	<i>Dreissena</i> sp. L2/Shell hash		8360	70	
Northwestern shelf	Danube 44°0.54' N x 29°58.87' E	Core BLKS9837	-68	0.39	<i>Dreissena</i> sp. L2/Shell-bearing mud		8360	75	Major 2002
Northwestern shelf	Danube	Core 12	-9.5	5.6	Peat with plant remains	КИ-120Б	8400	300	Balandin and Mel'nik 1987
Northwestern shelf		Core 1	-6.6	6.2	Peat with plant remains	КИ-119	8400	350	Balandin and Mel'nik 1987
Northwestern shelf	Dnieper 44°55.2' N x 32°8.0' E	Core BS11	-91	1.55	<i>Dreissena rostriformis</i> L2/Shell hash		8415	70	Major 2002
Northwestern shelf	Central trench	Core 19a	-6	8.3	Peat with plant remains	КИ-118	8500	200	Balandin and Mel'nik 1987
Northwestern shelf	Central trench	Core 805	-21	1.25-1.3	Bugazian-Vityazevian mollusc shells		8510	95	Gozhik <i>et al.</i> 1987
Northwestern shelf	Kerch 44°40.0' N x 36°34.5' E	Core BS24	-110	1.64	<i>Dreissena polymorpha</i>		8550	80	Major 2002
Northwestern shelf		Core 778	-22.8	0.7-0.85	Bugazian-Vityazevian mollusc shells		8635	90	Gozhik <i>et al.</i> 1987
Northwestern shelf	Danube 44°15.2' N x 30°24.68' E	Core BLKS9801	-92	0.34	L1/Bugazian <i>Dreissena</i> sp. in shell-bearing sand		8660	75	Major 2002
Northwestern shelf		Core 711	-39.4	0.55	Bugazian-Vityazevian mollusc shells		8850	95	Gozhik <i>et al.</i> 1987
Northwestern shelf	Tiligulskii liman	Core 38	-11	12.6-15.0	Bugazian-Vityazevian mollusc shells		8900	60	Gozhik <i>et al.</i> 1987
Northwestern shelf		Core 711	-39.4	0.5	Neoeuxinian mollusc shells		8900	150	Gozhik <i>et al.</i> 1987
Sea of Azov	Belosariskii Bay	Core 26		18	Bugazian <i>Monodactna caspia</i>	КИ-262	8940	200	Semenenko and Kovalyukh 1973
Northwestern shelf	Kerch 44°39.2' N x 36°35.2' E	BS22	-129	1.1	<i>Dreissena polymorpha</i> L2/Shell hash		8990	75	Major 2002
Northwestern shelf	Central trench	Core 14/40	-23.6	3.15-3.3	Neoeuxinian mollusc shells		9100	150	Gozhik <i>et al.</i> 1987

Northwestern shelf	Kerch 44°39.2' N x 36°35.2' E	Core BS22	-129	1.1	<i>Dreissena rostriformis</i> L2/Shell hash	9235	75	Major 2002
Northwestern coast	Dnieper-Bugskii liman, Ochaovskii profile 1-1	Core 304a		12	Mud	КИ-734	160	Mitropol'sky, pers. comm., 12.07.02
Sea of Azov	Belosaritskii Bay	Core 26		18	Bugazian <i>Cardium edule</i>	КИ-261	200	Semenenko and Kovalyukh 1973
Turkish shelf	Near Sinop	Frame dredge	-140 to -170		<i>Turricaspia caspia lincta</i>	OS-21658	65	Ballard et al. 2000
Northwestern shelf	Central trench	Core 187	-19.6	3.3-4.1	Neoeuxinian mollusc shells		180	Gozhik et al. 1987
Northwestern shelf	Tiligulskii liman	Core 67	-16	9.5-10.1	Neoeuxinian mollusc shells		190	Gozhik et al. 1987
Northwestern shelf	Central trench	Core 162	-10.1	18.0-18.4	Neoeuxinian mollusc shells		150	Gozhik et al. 1987
Northwestern shelf	Danube 44°7.99' N x 29°19.53' E	Core BLKS9814	-55	1.3	<i>Cardium exiguum</i> in shell-bearing, silty mud of saline pond		80	Major 2002
Northwestern shelf	Tendrovskii Gulf	Core 4/60	-16	2.4-3.3	Neoeuxinian mollusc shells		100	Gozhik et al. 1987
Northwestern coast	Dnieper-Bugskii liman	Core 329	-3	18	Mollusc shells	КИ-735	180	Kovalyukh et al. 1977
Sea of Azov	Belosaritskii Bay	Core 27		15.0-20.0	Neoeuxinian <i>Viviparus fasciatus</i>	КИ-282		Semenenko and Kovalyukh 1973
Northwestern shelf	Dnieper 44°51.6' N x 32°21.3' E	Core BS14	-140	0.2	<i>Dreissena rostriformis</i> in L4/ <i>Dreissena coquina</i>		50	Major 2002
Northwestern shelf	Danube 44°8.95' N x 30°39.24' E	Core BLKP9805	-131	0.14	<i>Dreissena</i> sp. in L4/ <i>Dreissena coquina</i>		130	Major 2002
Northwestern shelf	Golitsin Uplift	Core 1(4M)		2	<i>Viviparus fasciatus</i>	КИ-286		Semenenko and Kovalyukh 1973
Northwestern shelf	Danube 44°15.2' N x 30°24.68' E	Core BLKS9801	-92	0.45	<i>Dreissena</i> sp. in L1/ <i>Bugazian shell-bearing sand</i>		90	Major 2002
Northwestern shelf	Danube 44°7.38' N x 30°42.98' E	Core BLKS9806	-135	0.11	<i>Dreissena</i> in L4/ <i>Dreissena coquina</i>		95	Major 2002
Northwestern shelf	Golitsin Uplift	Core 2 (1m)		2.3	<i>Viviparus viviparus</i>		560	Shnyukov, ed., 1985

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Northwestern shelf	44°53.4' N x 32°9.3' E	Core BS7	-108	0.95	<i>Dreissena rostriformis</i> in L2/Shell hash		10,400	50	Major 2002
Turkish shelf	Near Sinop	Frame dredge	-140 to -170		<i>Dreissena rostriformis</i> var. <i>distincta</i>	OS-21650	10,400	70	Ballard et al. 2000
Northwestern shelf	Danube 44°5.76' N x 30°46.80' E	Core BLKS9807	-163	0.03	<i>Dreissena</i> sp. in L4/ <i>Dreissena</i> coquina		10,430	80	Major 2002
Turkish shelf	Near Sinop	Frame dredge	-140 to -170		<i>Dreissena rostriformis</i> var. <i>distincta</i>	OS-21648	10,450	70	Ballard et al. 2000
Turkish shelf	Near Sinop	Frame dredge	-140 to -170		<i>Dreissena rostriformis</i> var. <i>distincta</i>	OS-21649	10,450	70	Ballard et al. 2000
Turkish shelf	Near Sinop	Frame dredge	-140 to -170		<i>Dreissena rostriformis</i> var. <i>distincta</i>	OS-21651	10,500	70	Ballard et al. 2000
Northwestern shelf	Danube 44°12.0' N x 30°32.21' E	Core BLKS9804	-101	0.14	<i>Dreissena</i> sp. in L4/ <i>Dreissena</i> coquina		10,560	75	Major 2002
Northwestern shelf	Danube 44°4.04' N x 30°50.68' E	Core BLKS9810	-378	0.94	<i>Turricaspa caspia</i> in L5/Shell-bearing calcareous mud	ETH-23298	10,640	80	Major 2002; Major et al. 2002
Western shelf		Core 2361	-88	0.7-0.85	Neoeuxinian shell hash	Woods Hole	10,670		Malovitsky et al. 1979
Turkish shelf	Near Sinop	Frame dredge	-140 to -170		<i>Dreissena rostriformis</i> var. <i>distincta</i>	OS-21647	10,800	75	Ballard et al. 2000
Northwestern shelf		Core 19a	-6	10	Peat with plant remains	KИ-117	10,800	300	Balandin and Mel'nik 1987
Northwestern shelf	Dnieper 44°53.4' N x 32°9.3' E	Core BS7	-108	1.4	<i>Dreissena</i> in L4/ <i>Dreissena</i> coquina		10,800	65	Major 2002
Sea of Azov	Belosariskii Bay	Core 27		19.2	Neoeuxinian <i>Viviparus fasciatus</i>	KИ-264	10,900	490	Semenenko and Kovalyukh 1973
Northwestern shelf		Core 1506	-200	1.1-1.4	Neoeuxinian mollusc shells		10,980	390	Gozhik et al. 1987
Northwestern shelf	Dnieper 44°54.4' N x 32°8.5' E	BS8	-99	1.3	<i>Dreissena rostriformis</i> in L4/Sandy <i>Dreissena</i> coquina		11,190	80	Major 2002

Northwestern shelf	Kerch 44°39.2' N x 36°35.2' E	Core BS22	-129	1.15	Unidentified gastropod in L4/Shelly mud		11,260	90	Major 2002
Northwestern shelf	Dnieper 44°53.5' N x 32°8.8' E	Core BS10/AK93-10	-106	1.45	<i>Dreissena rostriformis</i> in L4/Sandy <i>Dreissena</i> coquina	OS-2324	11,350	35	Major 2002; http://imager.ideo.columbia.edu/BlackSeaShell/BlackSeaShell/ Table.html
Northwestern shelf	Danube 44°4.04' N x 30°50.68' E	Core BLKS9810	-378	1.18	<i>Dreissena rostriformis</i> in L5/Shelly calcareous mud	ETH-23299	11,410	110	Major 2002; Major <i>et al.</i> 2002
Western shelf		Core 62	-93	0.9-1.1	Shell hash bearing silty sand with Neoeuxinian fauna	ИОАН-787	11,430	330	Malovitsky <i>et al.</i> 1979
Sea of Azov	Azov Sea	Core 40			Peat with <i>Planorbis</i> sp.	КИ-328	11,480	?	Semenenko and Kovalyukh 1973
Sea of Azov	Belosariskii Bay	Core 27		20-21.7	Neoeuxinian <i>Dreissena polymorpha</i>	КИ-284	11,480		Semenenko and Kovalyukh 1973
Northwestern shelf	Dnieper 44°53.0' N x 32°9.2' E	Core BS9	-123	1.15	<i>Turricaspia caspia</i> in L4/Sandy <i>Dreissena</i> coquina		11,540	85	Major 2002
Northwestern shelf	Budakskii liman	Core 221	-22	22.0-23.0	Neoeuxinian mollusc shells		11,570	140	Gozhik <i>et al.</i> 1987
Western shelf		Core 2345	-122	1.1-1.25	Shell hash with Neoeuxinian fauna	ИОАН-791	11,590	240	Malovitsky <i>et al.</i> 1979
Caucasian coast	Gudauta coast Cape Souk-Su	Core 120 M	2	16.3-16.9	Mollusc shells	КИПН-221	11,680	230	Balabanov, pers. comm., 07.16.02
Northwestern coast	Berezanskii liman	Core 657		13.8-13.9	Mollusc shells		11,700	180	Molodykh <i>et al.</i> 1984
Northwestern shelf	Central trench	Core 189	-16.6	11.3	Neoeuxinian mollusc shells		11,700	150	Gozhik <i>et al.</i> 1987
Western shelf		Core 2345	-122	1.4-1.5	Shell hash with Neoeuxinian fauna	ИОАН-161	11,710	1100	Malovitsky <i>et al.</i> 1979
Crimean shelf	Yalta	Core 165	-112	1.5	Mollusc shells		11,900	180	Gozhik <i>et al.</i> 1987
Northwestern shelf	Golitsin Uplift	Core 2 (1m)		2.3	Neoeuxinian <i>Viviparus fasciatus</i> , <i>V. contectus</i>	КИ-260	12,050		Semenenko and Kovalyukh 1973
Turkish shelf	Near Sinop	Frame Dredge	-140 to -170		<i>Turricaspia caspia lincta</i>	OS-21657	12,100	85	Ballard <i>et al.</i> 2000

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Northwestern coast	Dnieper-Bugs'kii liman	Core 854	-5.4	15.9-16.2	Mollusc shells	КИ-1582	12,200	180	Molodykh <i>et al.</i> 1984
Sea of Azov	Belosariskii Bay	Core 27		20-21.7	Neoeuxinian <i>Viviparus fasciatus</i>	КИ-265	12,250	400	Semenenko and Kovalyukh 1973
Northwestern shelf	Danube 44°5.23' N x 30°47.98' E	Core BLKS9809	-240	0.15	<i>Dreissena rostriformis</i> in L5/Shellly calcareous mud	ETH-22156	12,310	95	Major <i>et al.</i> 2002
Northwestern shelf	Dnieper 44°53.5' N x 32°8.8' E	Core BS10	-106	1.46	Wood in L5/Shell-bearing mud/silt		12,330	90	Major 2002
Northwestern shelf	Goltisin Uplift	Core 2 (1m)		2.3	Neoeuxinian <i>Dreissena polymorpha</i>	КИ-283	12,360	500	Semenenko and Kovalyukh 1973
Northwestern shelf		Core 894	-63	1.3	<i>Dreissena polymorpha</i> in shell-bearing sand	КИ-383	12,400	500	Balandin and Mel'nik 1987
Northwestern shelf	Dnieper-Bugs'kii liman	Core 1407	-7.4	15.8-16.0	Neoeuxinian mollusc shells		12,520	180	Gozhik <i>et al.</i> 1987
Northwestern shelf		Core 822	-31	3.8	Mollusc shells in loamy sand	КИ-811	12,700	500	Balandin and Mel'nik 1987
Northwestern shelf	Danube 44°4.04' N x 30°50.68' E	Core BLKS9810	-378	1.54	<i>Dreissena rostriformis</i> in L5/Shell-bearing mud	ETH-23300	12,790	110	Major 2002; Major <i>et al.</i> 2002
Northwestern shelf	Danube 44°4.04' N x 30°50.68' E	Core BLKS9810	-378	1.86	<i>Dreissena rostriformis</i> in L5/Shell-bearing mud	ETH-23301	12,920	100	Major <i>et al.</i> 2002
Sea of Azov	Belosariskii Bay	Core 26		19.2	Neoeuxinian <i>Monodactna caspia</i>	КИ-263	13,100	800	Semenenko and Kovalyukh 1973
Northwestern shelf	Dnieper 44°55.3' N x 32°16.5' E	Core BS13	-165	1.07	<i>Dreissena rostriformis</i> in L5/Shell-bearing mud/silt		13,250	90	Major 2002
Crimean shelf	South of Balaklava	Core 81	-100	2.9	Mollusc shells		13,500	500	Gozhik <i>et al.</i> 1987
Caucasian shelf	Pitsunda Peninsula, ancient swampy lagoon	Core 138	1	73.5-77.0	Mollusc shells	ВСЕГИИ- ГЕО II-140	13,680	610	Kuptsov and Nechaev 1975
Northwestern shelf	Central trench	Core 67	-24	8.0-10.2	Neoeuxinian mollusc shells		13,800	110	Gozhik <i>et al.</i> 1987
Northwestern shelf	Danube 44°5.23' N x 30°47.98' E	Core BLKS9809	-240	1.15	<i>Dreissena rostriformis</i> in L5/Shell-bearing mud	ETH-22157	14,010	100	Major <i>et al.</i> 2002

Western shelf		Core 2378	-96	1.0-1.2	Terrigenous shell-bearing sediments with Neoeuxinian fauna	ИОАН-802	14,610	210	Malovitsky <i>et al.</i> 1979
Western shelf		Core 2378	-96	1.0-1.2	Mollusc shells in terrigenous shell-bearing sediments with Neoeuxinian fauna	ИОАН-802	14,610	200	Malovitsky <i>et al.</i> 1979
Northwestern shelf	Dniiper 44°51.6' N x 32°21.3' E	Core BS14/AK93-14	-140	2.15	<i>Dreissena rostriformis</i> in L5/ <i>Dreissena</i> -bearing mud	OS-2360	14,700	65	Major 2002; http://imager.ideo.columbia.edu/BlackSeaShell/Table.html
Northwestern shelf	Danube 44°5.23' N x 30°47.98' E	Core BLKS9809	-240	2.15	<i>Dreissena rostriformis</i> in L5/Shell-bearing mud	ETH-21127	14,950	100	Major <i>et al.</i> 2002
Northwestern shelf		Core 814	-10	2.3		КИ-814	15,100	370	Balandin and Mel'nik 1987
Caucasian coast	North part of Gagra Bay	Core 432	-3.5	50.0-50.1	Mollusc shells	ЛГУ-728	15,230	220	Balabanov, pers. comm., 2003
Turkish shelf	Near Sinop	Frame dredge	-140 to -170		<i>Dreissena rostriformis</i> var. <i>distincta</i>	OS-21646	15,550	120	Ballard <i>et al.</i> 2000
Northwestern shelf		Core 711	-39.4	0.8	Neoeuxinian mollusc shells		16,720	170	Gozhik <i>et al.</i> 1987
Western shelf		Core 2360	-91	1.0-1.25	Neoeuxinian shell-bearing silty mud	ИОАН-150	17,080	510	Malovitsky <i>et al.</i> 1979
Western shelf		Core 62	-93	1.4-1.5	Shell hash bearing silty sand with Neoeuxinian fauna	ИОАН-788	17,180	300	Malovitsky <i>et al.</i> 1979
Northwestern shelf		Core 1513	-79	1.5-1.7	Neoeuxinian mollusc shells		17,400	500	Gozhik <i>et al.</i> 1987
Northwestern shelf	Danube 44°4.04' N x 30°50.68' E	Core BLKS9810	-378	7.04	<i>Dreissena rostriformis</i> in L5/Shell-bearing mud	ETH-23302	17,760	130	Major 2002; Major <i>et al.</i> 2002
Crimean shelf	South of Balaklava	Core 81	-100	1	Mollusc shells		17,780	200	Gozhik <i>et al.</i> 1987
Caucasian coast	Coastal plain of Gagra Bay	Core 459	2.7	16	Peat	ЛГУ-652	19,460	580	Balabanov, pers. comm., 07.16.02
Northwestern shelf	Danube 44°7.38' N x 30°42.98' E	Core BLKS9806	-135	0.38	<i>Dreissena rostriformis</i> in L5/Shell-bearing mud/silt		20,490	150	Major 2002

Geographic Area*	Locality	Mode of Extraction	Elevation/ Water Depth (m)	Depth Within Core/ Outcrop (m)	Lithological Unit/Description of Dated Material/Age	Laboratory Number**	Uncali- brated Age	± Error	References***
Northwestern shelf	Danube 44°5.23' N x 30°47.98' E	Core BLKS9809	-240	8.4	<i>Dreissena rostriformis</i> in L5/Shell-bearing mud	ETH-21128	20,580	150	Major <i>et al.</i> 2002
Northwestern shelf	Dnieper 44°55.2' N x 32°8.0' E	Core BS11	-91	1.75	Wood in L6/Stiff deltaic mud		22,750	200	Major 2002
Caucasian coast	Gudauta shelf, left bank of Khipsa River	Core 535	-8.7	11.3-11.5	Peat		23,900	680	Balabanov, pers. comm., 07.16.02
Northwestern shelf	Danube 44°5.47' N x 30°47.21' E	Core BLKS9808	-186	1.27	<i>Dreissena rostriformis</i> in L5/Shell-bearing mud/silt		24,160	190	Major 2002
Northwestern shelf	Danube 44°0.66' N x 29°53.71' E	Core BLKS9834	-76	0.6	Bulk organic C in L6/Stiff deltaic mud		24,980	200	Major 2002
Northwestern shelf	Danube 44°0.66' N x 29°53.71' E	Core BLKS9834	-76	2.35	Bulk organic C in L6/Stiff deltaic mud		26,630	230	Major 2002
Western shelf		Core 2345	-122	2.75-2.8	Silty mud with Neoeuxinian fauna	ИОАН-162	26,950		Malovitsky <i>et al.</i> 1979
Western shelf		Core 2362	-102	4.75-5.0	Silty mud with Neoeuxinian fauna	ИОАН-154	27,295	1120	Malovitsky <i>et al.</i> 1979
Western shelf		Core 2345	-122	4.1-4.2	Clayey mud with Neoeuxinian fauna	ИОАН-164	27,780		Malovitsky <i>et al.</i> 1979
Western shelf		Core 2345	-122	4.3-4.4	Clayey mud with Neoeuxinian fauna	ИОАН-165	28,100		Malovitsky <i>et al.</i> 1979
Western shelf		Core 2345	-122	2.25-2.4	Silty mud with pebbles and Neoeuxinian fauna	ИОАН-790	29,650		Malovitsky <i>et al.</i> 1979
Western shelf		Core 2378	-96	2.3-2.4	Silty mud with Neoeuxinian fauna	ИОАН-792	30,170		Malovitsky <i>et al.</i> 1979
Western shelf		Core 2378	-96	1.7-2.0	Terrigenous shelly sediment with Neoeuxinian fauna	ИОАН-794	31,420		Malovitsky <i>et al.</i> 1979
Southwestern shelf	41°27.26' N x 29°16.01' E	Core MAR98-04	-112	1.18	White mussel	ТО-7784	33,550	330	Aksu <i>et al.</i> 2002b
Northwestern shelf		Core 3	-10	3	Peat in loess-like loam	КИ-812	33,600	1500	Balandin and Mel'nik 1987
Northwestern shelf		Core 53	-10	5	Peat in loess-like loam	КИ-813	45,000		Balandin and Mel'nik 1987

Western shelf	Core 2361	-88	0.85-1.0	Shell hash with Chaudinian fauna	Woods Hole	50,000	Malovitsky <i>et al.</i> 1979
Western shelf	Core 2360	-91	1.25-1.4	Shell hash with Chaudinian fauna	Woods Hole	50,000	Malovitsky <i>et al.</i> 1979

* Geographic Regions (clockwise):
 Turkish coast, Turkish shelf
 Southwestern shelf
 Western shelf
 Northwestern coast, Northwestern shelf
 Crimean shelf
 Sea of Azov
 Caucasian coast, Caucasian shelf

** Laboratory Index of Organizations Performing Radiocarbon analyses:

КИ Institute of Geochemistry and Physics of Minerals of the Academy of Sciences of the Ukrainian Soviet Socialist Republic
 ИОАН Institute of Oceanology, Academy of Sciences of the USSR
 ЕТН Hoenggerberg AMS facility (Eidgenössische Technische Hochschule, Zürich)
 ЛУ Research Geographical-Economic Institute of Leningrad State University
 ВСЕГИНГЕО All-Union Scientific Institute of Hydrogeology and Engineering Geology, Ministry of Geology of the USSR
 КИПН Institute of Geological Sciences of the Academy of Sciences of the Ukrainian Soviet Socialist Republic
 ТБ Tbilisi State University
 ТО IsoTrace Radiocarbon Laboratory, Accelerator Mass Spectrometry Facility, University of Toronto (Errors attached to the calibrated calendar years represent 95% confidence limits, but do not account for analytical errors of the ¹⁴C dates.
 OS National Ocean Sciences AMS Facility, Department of Geology and Geophysics, Woods Hole Oceanographic Institution
 Woods Hole Woods Hole Oceanographic Institution (no specimen number provided)

*** All sources appear in the reference list for the paper by Yanko-Hombach in this volume, pp. 183-199.

Appendix 3. Programs of October-November, 2003, conferences.

**NATO Advanced Research Workshop (ARW)
"CLIMATE CHANGE AND COASTLINE MIGRATION"
GeoEcoMar, National Institute of Marine Geology and Geo-ecology,
Bucharest, Romania
October 1-5, 2003**

October 1, 2003 Arrival

October 2, 2003

Morning Session

8:00 Objectives of the NATO ARW
N. Panin, Romania; and **V. Yanko-Hombach**, Canada.

PANEL 1: LATE PLEISTOCENE-HOLOCENE (LAST 20,000 YEARS)
MIGRATION OF THE COASTLINE IN THE CIRCUMPONTIC REGION;
GEOLOGICAL AND GEOPHYSICAL EVIDENCE

8:30 PLENARY: FLOOD HYPOTHESIS IN THE BLACK SEA: AN
OVERVIEW.

W.B.F. Ryan, USA; and **G. Lericolais**, France.

9:15 PLENARY: CLIMATE CHANGE AND COASTLINE
MIGRATION IN THE CIRCUMPONTIC REGION:
GEOLOGICAL AND PALEONTOLOGICAL RECORDS.

A. Tchepalyga, Russia; and **V. Yanko-Hombach**, Canada.

10:00 PLENARY: NEOTECTONIC DEVELOPMENT OF THE
CIRCUMPONTIC REGION: AN OVERVIEW.

Y. Yilmaz, Turkey.

10:45 Questions and discussion

11:15 CLIMATE DYNAMICS, SEA-LEVEL CHANGE, AND
COASTLINE MIGRATION IN THE BULGARIAN SECTOR OF
THE CIRCUMPONTIC REGION.

M. Georgiev, Bulgaria.

12:00 CLIMATE DYNAMICS, SEA-LEVEL CHANGE, AND
COASTLINE MIGRATION IN THE ROMANIAN SECTOR OF
THE CIRCUMPONTIC REGION.

N. Panin, Romania.

12:45 Questions and discussion

Afternoon Session

- 2:00 CLIMATE DYNAMICS, SEA-LEVEL CHANGE, AND COASTLINE MIGRATION IN THE UKRAINIAN SECTOR OF THE CIRCUMPONTIC REGION.
Yu. Shuisky, Ukraine.
- 2:30 CLIMATE DYNAMICS, SEA-LEVEL CHANGE, AND COASTLINE MIGRATION IN THE RUSSIAN SECTOR OF THE CIRCUMPONTIC REGION.
A. Glebov, Russia.
- 3:00 Questions and discussion
- 3:15 MOLLUSCAN ECOLOGY/PALEOECOLOGY IN THE RECONSTRUCTION OF COASTAL CHANGES.
D. Basso, Italy.
- 3:45 CLIMATE DYNAMICS, SEA-LEVEL CHANGE, AND COASTLINE MIGRATION IN THE TURKISH SECTOR OF THE CIRCUMPONTIC REGION.
O. Algan and **M. Ergin**, Turkey.
- 4:15 Questions and discussion
- 5:15 CLIMATE DYNAMICS, SEA-LEVEL CHANGE, AND COASTLINE MIGRATION IN THE GREEK SECTOR (AEGEAN SEA) OF THE CIRCUMPONTIC REGION.
N. Conispoliatis, Greece.
- 5:45 CLIMATE DYNAMICS, SEA-LEVEL CHANGE, AND COASTLINE MIGRATION IN THE EASTERN MEDITERRANEAN SECTOR OF THE CIRCUMPONTIC REGION.
A. Issar, Israel.
- 6:15 Questions and discussion
- 6:30 *Ad Hoc* Committee: Splinter Group: Geology, Neotectonics, and Geophysics of the Circumpontic Region

October 3, 2003

PANEL 2. LATE PLEISTOCENE-HOLOCENE MIGRATION OF THE COASTLINE IN THE CIRCUMPONTIC REGION: PALEONTOLOGICAL AND ARCHEOLOGICAL EVIDENCE

Morning Session

- 8:00 PLENARY: CLIMATE DYNAMICS AND MIGRATION OF THE COASTLINE AS FACTORS FOR HUMAN DEVELOPMENT IN

THE CIRCUMPONTIC REGION: AN OVERVIEW.

M. Özdoğan, Turkey.

8:45 PLENARY: SUBMERGED SETTLEMENTS IN THE CIRCUMPONTIC REGION: AN OVERVIEW.

H. Angelova, Bulgaria.

9:30 ARCHAEOLOGICAL AND PALEONTOLOGICAL EVIDENCE OF CLIMATE DYNAMICS, SEA-LEVEL CHANGE, AND COASTLINE MIGRATION IN THE BULGARIAN SECTOR OF THE CIRCUMPONTIC REGION.

M. Filipova-Marinova, Bulgaria.

10:00 Questions and discussion

10:30 ARCHAEOLOGICAL AND PALEONTOLOGICAL EVIDENCE OF CLIMATE DYNAMICS, SEA-LEVEL CHANGE, AND COASTLINE MIGRATION IN THE ROMANIAN SECTOR OF THE CIRCUMPONTIC REGION.

P. Alexandrescu, Romania.

11:00 ARCHAEOLOGICAL AND PALEONTOLOGICAL EVIDENCE OF CLIMATE DYNAMICS, SEA-LEVEL CHANGE, AND COASTLINE MIGRATION IN THE UKRANIAN SECTOR OF THE CIRCUMPONTIC REGION.

V. Chabai, Ukraine.

11:30 Questions and discussion

Afternoon Session

1:00 ARCHAEOLOGICAL AND PALEONTOLOGICAL EVIDENCE OF CLIMATE DYNAMICS, SEA-LEVEL CHANGE, AND COASTLINE MIGRATION IN THE RUSSIAN SECTOR OF THE CIRCUMPONTIC REGION.

N. Leonova and **A. Tchepalyga**, Russia.

1:30 ARCHAEOLOGICAL AND PALEONTOLOGICAL EVIDENCE OF CLIMATE DYNAMICS, SEA-LEVEL CHANGE, AND COASTLINE MIGRATION IN THE CAUCASIAN SECTOR OF THE CIRCUMPONTIC REGION.

V. Kuznetsov, Russia.

2:00 Questions and discussion

2:30 ARCHAEOLOGICAL AND PALEONTOLOGICAL EVIDENCE OF CLIMATE DYNAMICS, SEA-LEVEL CHANGE, AND COASTLINE MIGRATION IN THE TURKISH SECTOR (SOUTHERN SHELF OF THE BLACK SEA, THE SEA OF MARMARA, THE BOSPORUS, AND THE DARDANELLES) OF THE CIRCUMPONTIC REGION.

- M. Özdoğan** and **E. Meriç**, Turkey.
 3:00 ARCHAEOLOGICAL AND PALEONTOLOGICAL EVIDENCE OF SEA-LEVEL CHANGE AND COASTLINE MIGRATION IN THE GREEK (AEGEAN SEA) SECTOR OF THE CIRCUMPONTIC REGION.
A. Andrinopoulos, Greece
 3:30 Questions and discussion
 4:00 ARCHAEOLOGICAL AND PALEONTOLOGICAL EVIDENCE OF SEA-LEVEL CHANGE AND COASTLINE MIGRATION IN THE EASTERN MEDITERRANEAN SECTOR OF THE CIRCUMPONTIC REGION.
A. Ronen, Israel.
 4:30 Questions and discussion
 4:45 *Ad Hoc* Committee: Splinter Group: Archaeology and Paleontology

October 4, 2003

PANEL 3. MODELING OF CLIMATE DYNAMICS, COASTLINE MIGRATION, AND GEOMORPHOLOGY IN THE CIRCUMPONTIC REGION

Morning Session

- 8:00 PLENARY: MODELING OF CLIMATE DYNAMICS: AN OVERVIEW.
A. Kislov, Russia.
 8:45 PLENARY: MODELING OF COASTLINE MIGRATION AND GEOMORPHOLOGY IN THE CIRCUMPONTIC REGION WITH RESPECT TO CLIMATE DYNAMICS: AN OVERVIEW.
A. Selivanov, Russia.
 9:30 Questions and discussion
 10:00 POSTERS
1. PALEONTOLOGICAL AND GEOCHEMICAL PROXIES IN RECONSTRUCTION OF PLEISTOCENE-HOLOCENE CLIMATE DYNAMICS.
S. Spezzaferri, Switzerland.
 2. ACTIVE TECTONICS IN THE MODIFICATION OF THE QUATERNARY COASTLINES IN THE MARMARA REGION, WESTERN PONTICS.
H. Koral, Turkey.
 3. HIGH-RESOLUTION MODEL OF SEDIMENTATION ON THE NORTHWESTERN SHELF OF THE BLACK SEA:

APPLICATION FOR CLIMATE DYNAMICS, COAST-
LINE MIGRATION, AND SEA-LEVEL CHANGES.

E. Konikov, Ukraine.

10:30 Round Table: The ARW Project overview (Project co-ordinator V. Yanko-Hombach) and general discussion (all participants).

Afternoon Session

3:00 Field trip to the deltaic sites.

October 5, 2003 Departure

**International Conference on “THE BLACK SEA FLOOD:
ARCHAEOLOGICAL AND GEOLOGICAL EVIDENCE”
Columbia University Seminar on the Ancient Near East, New York NY
October 17–20, 2003**

October 17, 2003 Arrival

October 18, 2003

Morning Session

8:45 INTRODUCTION AND WELCOME

Allan S. Gilbert, Fordham University, Bronx, NY, and Columbia University Seminar on the Ancient Near East

PANEL 1: THE FLOOD; DISCOVERY, DATING, AND ALTERNATIVE PERSPECTIVES

9:00 DISCOVERY OF THE FLOOD.

Walter C. Pitman, III, Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY

9:30 NEW DEVELOPMENTS FROM CONTINUED EXPLORATIONS.

William B.F. Ryan, Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY

10:00 SEISMIC, STRATIGRAPHIC, AND STABLE ISOTOPE EVIDENCE FROM THE BLACK, MARMARA, AND NORTHEASTERN AEGEAN SEAS: ALTERNATIVE INTERPRETATIONS.

Ali E. Aksu, Memorial University, St. John's, Newfoundland,
Canada

10:30 GLACIAL TO HOLOCENE BENTHIC FORAMINIFERA IN THE
BLACK, MARMARA, AND NORTHEASTERN AEGEAN SEAS.

Michael A. Kaminski, University College, London

11:00 Discussion

Afternoon Session

PANEL 2: ANATOLIAN AND BALKAN COASTAL SITES AND THEIR INTERPRETATION

2:00 THE BLACK SEA FLOOD IN ARCHAEOLOGICAL
PERSPECTIVE: PROSPECTS AND QUESTIONS.

Mehmet Özdoğan, Istanbul University

2:30 BLACK SEA COASTAL CHANGES AND UNDERWATER
EXCAVATIONS OF THE BULGARIAN LITTORAL.

Hristina Angelova, Center of Underwater Archaeology, Sozopol,
Bulgaria

3:00 DENDROCHRONOLOGY OF SUBMERGED BULGARIAN
SITES.

Peter I. Kuniholm, Cornell University, Ithaca, NY

3:30 NEW EVIDENCE FOR THE EMERGENCE OF A MARITIME
BLACK SEA ECONOMY.

Owen P. Doonan, California State University, Northridge

4:00 HOLOCENE CHANGES IN THE LEVEL OF THE BLACK SEA:
CONSEQUENCES AT A HUMAN SCALE.

Douglas W. Bailey, Cardiff University, Wales

4:30 Discussion

October 19, 2003

Morning Session

PANEL 3: BLACK SEA BASIN, HYDROLOGY, AND PROSPECTS FOR UNDERSEA DISCOVERY

9:00 THE LATE QUATERNARY HISTORY OF THE BLACK SEA
AND ITS ADJACENT BASINS: A CRITICAL OVERVIEW OF
THE FLOOD HYPOTHESES.

Andrei L. Tchepalyga, Russian Academy of Sciences, Moscow; and
Valentina Yanko-Hombach, Avalon Institute for Applied Science,

- Winnipeg, Canada
- 9:30 MORPHOTECTONIC EVOLUTION OF THE SOUTHERN BLACK SEA REGIONS.
Yücel Yılmaz, Kadir Has University, Istanbul
- 10:00 THE BLACK SEA: OXIC, SUBOXIC, AND ANOXIC LAYERS.
James W. Murray, University of Washington, Seattle
- 10:30 FROM MOUNTAIN-TOP TO OCEAN BOTTOM: COMPREHENSIVE ARCHAEOLOGICAL RESEARCH ALONG THE BLACK SEA COAST.
Fredrik T. Hiebert, University of Pennsylvania, Philadelphia
- 11:00 Discussion

Afternoon Session

PANEL 4: UNDERSEA DISCOVERIES AND CULTURAL DISTRIBUTIONS TO THE NORTH AND EAST

- 2:00 RECENT DEEPSEA SURVEY RESULTS IN THE BLACK SEA.
Robert D. Ballard and **Dwight F. Coleman**, Institute for Exploration, Mystic, CT, and University of Rhode Island
- 2:30 STEPPE POPULATIONS NORTH AND EAST OF THE BLACK SEA BETWEEN 6200-5500 calBC: THE FLOOD AND THE TRANSITION TO FOOD PRODUCTION.
David W. Anthony, Hartwick College, Oneonta, NY
- 3:00 THE EARLY NEOLITHIC CULTURES OF EASTERN EUROPE.
Valentin Dergachev, Moldavian Academy of Sciences, Chinisau
- 3:30 THE MEDITERRANIZATION OF THE SOUTHERN CRIMEAN FLORA DURING THE HOLOCENE.
Carlos E. Cordova, Oklahoma State University, Stillwater
- 4:00 ORIGINS OF EURASIAN LANGUAGE FAMILIES IN RELATION TO THE BLACK SEA FLOODING.
Johanna Nichols, University of California, Berkeley
- 4:30 Discussion

October 20, 2003

Morning Session

- 9:00 CONFERENCE SUMMARY AND OVERVIEW.
Valentina Yanko-Hombach, Avalon Institute for Applied Science, Winnipeg, Canada

Geological Society of America Annual Meeting
T104. "NOAH'S FLOOD" AND THE LATE QUATERNARY
GEOLOGICAL AND ARCHAEOLOGICAL HISTORY OF THE
BLACK SEA AND ADJACENT BASINS
Washington State Convention and Trade Center, Seattle
November 2-5, 2003

November 4, 2003

Session No. 178 Valentina Yanko-Hombach and Jim Teller, Presiding

- 1:30 EVIDENCE FOR A BLACK SEA FLOODING EVENT.
William B.F. Ryan, Lamont Doherty Earth Observatory, Columbia University, Palisades, NY; **Namik Çağatay**, Geology Department, ITU Maden Fakultesi, Ayazaga, Istanbul, Turkey; **Candace O. Major**, Laboratoire des Sciences du Climat et de l'Environnement, Gif-sur-Yvette, France; and **Gilles Lericolais**, DRO-Geosciences Marines, IFREMER, Laboratoire Environnements Sedimentaires, Plouzané, France.
- 1:45 LATE GLACIAL GREAT FLOOD IN THE BLACK SEA AND CASPIAN SEA.
Andrei Chepalyga, Institute of Geography, Russian Academy of Science, Moscow, Russia.
- 2:00 CONFLUENCE OF CLIMATE CHANGE AND CULTURAL COMPLEXITY IN SOUTHERN MESOPOTAMIA: IMPLICATIONS FOR BIBLICAL FLOOD MYTHOLOGY.
James P. Kennett, Department of Geological Sciences and Marine Science Institute, Univ of California Santa Barbara, Santa Barbara, CA; and **Douglas J. Kennett**, Department of Anthropology, Univ of Oregon, Eugene, OR.
- 2:15 MORPHOTECTONIC DEVELOPMENT OF THE SOUTHERN BLACK SEA REGION AND THE SURROUNDINGS.
Yücel Yılmaz, Kadir Has Univ, Cibali, Istanbul, Turkey.
- 2:30 "NOAH'S FLOOD" AND THE LATE QUATERNARY HISTORY OF THE BLACK SEA AND ITS ADJACENT BASINS: A CRITICAL OVERVIEW OF THE FLOOD HYPOTHESES.
Valentina Yanko-Hombach, Avalon Institute of Applied Science, Winnipeg, Canada.
- 2:45 Paper Withdrawn
- 3:00 EARLY HOLOCENE SEA LEVEL CURVE OF THE COAST OF ISRAEL, EAST MEDITERRANEAN.
Dorit Sivan, Institute for Maritime Studies, Univ of Haifa, Israel;

- and **Kurt Lambeck**, Research School of Earth Sciences, The Australian National Univ, Canberra, Australia.
- 3:15 THE CONNECTIONS BETWEEN THE BLACK SEA AND MEDITERRANEAN DURING THE LAST 30 KY.
Oya Algan, Institute of Marine Sciences and Mgmt, Vefa, Istanbul, Turkey.
- 3:30 THE BLACK SEA DURING THE LAST 20.000 YEARS: SEA LEVEL, SALINITY AND CLIMATE.
Anton, Preisinger and Selma Aslanian, Mineralogy, Technical Univ of Vienna, Vienna, Austria.
- 3:45 CLIMATIC CHANGES MODIFIED THE QUATERNARY COASTAL LINES IN THE MARMARA REGION, WESTERN PONTICS: WHAT ABOUT ACTIVE TECTONICS?
Hayrettin Koral, Department of Geological Engineering, Istanbul University, Avcılar, Istanbul, Turkey.
- 4:00 THE BLACK SEA FLOOD: ARCHAEOLOGICAL & GEOLOGICAL EVIDENCE; A SUMMARY OF THE COLUMBIA UNIVERSITY CONFERENCE.
Allan S. Gilbert, Department of Sociology & Anthropology, Fordham University, Bronx, NY.
- 4:15 WATER EXCHANGE BETWEEN MEDITERRANEAN AND BLACK SEAS DURING LATE GLACIAL-HOLOCENE: EVIDENCE FROM MARMARA AND BLACK SEAS.
M. Namik Çağatay and **Naci Görür**, Geological Engineering Department, Faculty of Mining and Eurasian Institute of Earth Sciences, Ayazaga, Istanbul, Turkey.
- 4:30 HOLOCENE BLACK SEA ENVIRONMENTS ACCORDING TO PALYNOLOGY.
Sr Speranta-Maria Popescu, PaléoEnvironnements et PaléobioSphère, Univ Claude Bernard-Lyon 1, Villeurbanne, France; **Martin V. Head**, Geography, Univ of Cambridge, Cambridge, UK; and **Gilles Lericolais**, DRO Géosciences Marines, IFREMER, Plouzané, France.
- 4:45 WAS THE LAST RAPID SEA CHANGE IN THE BLACK SEA LINKED TO A CATASTROPHIC EVENT RECORDED BY MANKIND ?
Gilles Lericolais, DRO-Geosciences Marines, IFREMER, Laboratoire Environnements Sedimentaires, Plouzané, France; **Irina Popescu**, RCMG, Univ of Gent, Gent, Belgium; **Nicolae Panin**, GEOECOMAR, Bucharest, Romania; **François Guichard**, LSCE, CNRS-CEA, Gif-sur-Yvette, France; and **Sr Speranta-Maria**

Popescu, Centre de Paléontologie stratigraphique et Paléoécologie,
Université Claude Bernard-Lyon 1, Villeurbanne, France.

5:00 STABLE AND RADIOGENIC ISOTOPE CONSTRAINTS ON THE
DEGLACIAL HISTORY OF THE BLACK AND MARMARA
SEAS.

Candace O. Major,¹, **William B.F. Ryan**,², **Steven L. Goldstein**,²,
Laurent Labeyrie,¹, and **Namik Çağatay**,³ (1) Laboratoire des
Sciences du Climat et de l'Environnement, CNRS, Gif-sur-Yvette,
France; (2) Lamont Doherty Earth Observatory, Palisades, NY (3)
Geology Department, ITU Maden Fakültesi, Ayazaga, Istanbul.

5:15 LATE GLACIAL FRESHENING OF THE LEVANTINE BASIN:
ISOTOPIC EVIDENCE FROM ISKENDERUN BAY.

Silvia Spezzaferri, Geology and Paleontology, Univ of Fribourg,
Fribourg, Switzerland; **Valentina Yanko-Hombach**, Avalon Institute
of Applied Science, Winnipeg, Canada; and **Sebastien Bruchez**,
Geology and Paleontology, Univ of Lausanne, Lausanne,
Switzerland.

AUTHOR INDEX

A

- Abashin, A. A., 181
Abbès, F., 826, 832
Abdüsselamoğlu, Ş., 583, 595
Abe-Ouchi, A., 61
Abonyi, S., 531
Abrajano, T., 64, 71–72, 77, 79–81, 89,
94–95, 101, 103–106, 111–112,
114, 144, 181, 218, 245–246, 273,
340, 348, 367, 402, 439, 450, 473,
528, 563, 592, 608, 626–627, 732,
755–757, 764–765
Adams, K. L., 792
Adams, R. M., 814, 817
Aggen, J. A., 44
Agnon, A., 816
Aharon, P., 230–232, 241, 245
Ahmad, M., 197
Aigner, T., 44
Akal, T., 409, 429, 695–696, 681
Akartuna, M., 576, 581, 583, 585, 592
Akay, E., 575, 595
Akçar, N., 633, 645, 648–649
Akçer, S., 228, 245
Akkan, E., 703, 707
Akkök, R., 64, 71, 95, 115, 146, 186,
218, 403, 540, 563, 565, 629,
673–676, 695
Aksay, A., 594
Aksenov, A. A., 186, 188, 190, 196
Aksoy, A., 568
Aksu, A. E., 27, 43, 64–65, 71–72,
77–82, 89–92, 94–95, 97–108,
111–112, 114–117, 119, 144, 181,
187–188, 191, 218, 227–228, 244,
246, 268, 270, 273, 277, 335, 340,
348, 367, 399, 402, 406, 429,
438–439, 441, 448, 450, 463–464,
467, 473, 479, 493, 510, 517, 528,
531–532, 558, 563, 568, 577,
588–589, 592, 601, 604, 623, 625,
627, 629, 673, 675–676, 678, 694,
696, 732, 746, 755–757, 764, 798,
805–806, 863–875
Akurgal, E., 705, 707
Akyüz, H. S., 577, 592
Akyuz, S., 598
Alavi, S. N., 181, 549, 555, 563
Alekseev, M. N., 283, 286, 292
Alekseev, V. A., 726, 721
Alekseeva, L. I., 286, 292
Alenkin, V. M., 225, 249, 711, 729, 769
Alexanderson, H., xxiii
Algan, O., 64–65, 67, 69, 71–72, 78, 80,
82, 95, 103, 115, 144, 181, 186,
218, 399, 402–403, 406, 429, 438,
450, 461, 466, 473, 475, 540, 548,
552, 558, 562–565, 593, 603, 606,
611, 613, 627–629, 673, 674–676,
695
Alkim, H., 704, 707
Alkim, U. B., 704, 707
Allen, G. P., 404
Alley, R. B., 222, 240, 246
Allison, E. H., 24, 43
Allison, P. A., 24, 43
Almogi-Labin, A., 72, 80, 194, 276,
832
Alpar, B., 64–65, 68, 71–72, 78, 82, 95,
115, 146, 181, 186, 194, 218, 403,
429, 473, 540, 563, 565, 595,
599–600, 603, 627–629, 673–676,
695
Alpher, B., 777, 791
Alptekin, Ö., 577, 592
Al-Salameen, M., 95, 103, 106, 111,
116, 188, 218, 629, 806
Altman, E. N., 223, 246
Altunel, E., 592
Altunkaynak, Ş., 569

- Ambraseys, N. N., 577, 592
 Ammerman, A. J., 489–490, 510
 Andersen, H., 789, 791
 Anderson, D. M., 52, 60
 Anderson, M. W., 559, 566
 Andreescu, R., 529
 Andreev, A. A., 117, 106, 108
 Andreev, V. M., 182, 735, 764, 772, 773
 Andrews, J. T., 231, 247
 Andrienko, T. L., 343
 Andrusov, N., xi, xvii, 182, 563, 583, 592
 Angelier, J., 572–573, 596
 Angelova, H., 454, 473
 Anikovich, M. V., 279, 281, 292, 296
 Anthony, D. W., 307, 314, 345, 349, 357, 366–367, 778, 781, 791
 Antipov, M. N., 146
 Antonarakon, A., 831
 Antonioli, F., 803, 806–807
 Apakidze, A. M., 725, 837–846, 847, 849–855, 857
 Appleyard, D., 776, 779, 780, 790, 791
 Ardel, A., 539, 563–564, 585, 592
 Arensburg, B., 829
 Arkhangel'sky, A. D., xi, xvii, 182, 218, 406–407, 429, 439, 441, 450, 732, 743, 746, 755, 764
 Armijo, R., 558, 565, 573, 575–576, 592, 595–596
 Arnold, A., 197
 Arnold, M., 246, 451, 534
 Arpat, E., 575, 592–593
 Arslanov, Kh. A., 65, 86, 135, 148, 191, 248, 299, 314, 403, 432, 479, 605, 627, 630, 712–713, 720–722, 725, 727, 768, 843, 845, 848–849, 853, 855, 859
 Artem'ev, V. E., 408, 429
 Artemenko, I. I., 368, 346
 Arthur, M. A., 477, 676, 695–696, 673
 Artyukhin, Yu. V., 725, 836
 Artyushenko, A., 182, 301, 314, 375, 382
 Arz, H., 66–67, 72, 74–76
 Aschenbrenner, S. E., 806
 Aslanian, S., 269–270, 275, 480
 Astakhov, V., xxiii
 Atabey, M. E., 611–612, 625, 630
 Atalay, İ., 609, 628
 Atanassova, J., 68, 71, 115, 333, 340, 454, 463, 465, 473, 475, 480
 Atkinson, Q. D., 778, 790, 793
 Attenborough, R., 796
 Austerlitz, R., 775, 791
 Avenarius, I. G., 224, 246
 Avner, U., 813, 815
 Avnimelech, M. A., 820, 823, 829
 Avşar, N., 44, 180, 183, 188, 190, 196, 550, 552, 562, 566, 596–597
 Ayalon, A., 815, 832
 Aytaç, A., 564
 Aytuğ, B., 474
- B**
- Baak, C., 796
 Babak, Y. V., 66–67, 71, 189, 219, 516, 534, 732, 743, 755, 768
 Babynets', A. E., 406, 408–409, 429
 Badinova, V. P., 182, 725, 835, 842, 854, 856
 Badyukov, D. D., 228, 246, 469, 473
 Badyukova, E. N., 144
 Bahat, D., 817
 Bahr, A., 66–67, 72, 74–76
 Bailey, D. W., 474, 476, 515, 518–519, 522–524, 528–531, 535, 665, 668, 677, 694
 Baird, G. C., 26, 43
 Baker, V. R., xvi, xix, xxi–xxii
 Bakker, M., 796
 Bakler, N., 830, 832
 Balabanov, I. P., 65, 82, 86, 153, 167, 169, 172, 182, 191, 220, 248, 302, 403, 406, 410, 429, 432, 471, 473, 479, 612, 628, 630–631, 711–714, 717, 721–723, 725–726, 728, 732, 743, 753, 755, 757, 763–764, 768–769, 835–838, 840, 843, 847, 851, 857–858

- Balandin, R. K., 145, 861–863, 866–868, 870, 872, 874–876
Balandin, Yu. G., 182, 220, 260–262, 273, 276, 410, 426, 429, 605, 628, 711, 726
Balassanian, S., 596–597
Balbon, E., 250
Balkema, A. A., 148
Ballard, R. D., 17, 65–66, 182, 218, 236, 244, 246, 334–335, 340, 466, 474, 517, 529, 577, 593, 606, 625, 628, 671, 673–675, 677–679, 681–686, 691, 694–696, 700, 703, 708, 863–865, 867–869, 871–873, 875
Bambach, R. K., 25, 45
Banks, C. J., 541, 543, 564, 567, 598
Barazangi, M., 569
Bard, E., 51, 60, 230, 240, 242, 245–246, 343, 439, 451, 534, 535, 488, 799, 803, 807
Bargu, S., 576, 581, 583, 585, 593, 598–599
Barka, A., 559, 564, 566, 573, 575–577, 590, 592–593, 595–598, 600
Barkai, R., 830
Bar-Matthews, M., 810–811, 813–815, 832
Barnola, J. M., 62
Barnowsky, C. W., 92, 106, 108–109, 115, 145, 293–294, 402, 434, 451, 475, 628
Bart, M. A., 435
Bartlein, P. J., 61, 478
Bartosiewicz, L., 529, 535
Bartov, Y., 809, 816
Barynkin, P. P., 351, 361, 367–368, 363
Bar-Yosef, O., 812–813, 816, 824, 829, 451
Başaran, H., 194, 599
Bascom, W., 694, 678
Başgelen, M., 703, 709
Başgelen, N., 349, 369, 669
Baslerov, S., 147
Bass, G. F., 681, 695–696
Bassinot, F., 534
Basso, D., 23–24, 28, 31, 43, 45, 182–183
Bauer, A., 701, 704, 708
Bayhan, E., 65, 628
Bayrak, D., 588–589
Beck, J. W., 343, 488, 535
Becker, B., 486, 488
Becker, C., 831
Beer, J., 510
Begin, Z. B., 809, 816
Behl, R. J., 222, 240, 246
Bein, A., 817
Bekker, I., 639, 648
Belan, N. G., 376, 382
Belanovskaya, T. D., 497–498, 510
Belberov, Z. K., 186, 188, 190, 196
Beldiman, A., 530
Belke, K., 649
Bellwood, P. S., 785, 792
Belokopytov, V., 20
Bender, M. L., 791–792
Benecke, N., 360, 364, 366–367
Bener, M., 644–645, 648
Benito, G., 148
Bennett, K. D., 465, 474
Benniger, L. K., 247
Bennington, J. B., 28, 44
Benson, R. N., 432
Bentley, R. A., 513
Berckhemer, H., 599
Berger, A., 50, 60, 249
Berger, W. H., 513
Berggren, W. A., 432
Berglund, B. E., 461, 474
Bergsten, H., 474
Berkofsky, L., 817
Bermúdez, P. J., 183
Berné, S., 398, 402
Berner, R. A., 3, 17
Bertman, D. Ya., 267, 276
Besiktepe, S. T., 20, 694
Best, R. M., 183, 367, 349
Beug, H.-J., 106, 115, 333, 340, 454, 465–466

- Bezborodov, A. A., 767
 Bibikov, S. M., 379, 382
 Bibikov, S. N., 303–304, 315, 340, 328
 Bibikova, V. I., 360, 376–377, 379, 382
 Bickel, B., 787, 792
 Biddle, K. T., 599
 Bietti, A., 528–529
 Bilgi, Ö., 707–708
 Bilgin, T., 585, 593
 Bird, E. C. F., 628
 Birks, H. J. B., 465, 474, 477
 Biscaye, P. E., 429
 Bischoff, J. L., 406, 423, 429
 Bittel, K., 668
 Björck, S., 474
 Björkman, L., 115, 106
 Blagodarov, M. I., 250
 Blagovolin, N. S., 260, 263, 265, 271, 273, 762–764
 Blanpied, C., 463, 480, 557–558, 562, 567, 599, 607, 631
 Blazhchishin, A. I., 65, 441, 451
 Bleahu, M., 398, 402
 Blench, R., 795
 Blium, N. S., 248
 Bloom, A. L., 229–230, 246
 Blundell, D. J., xxii
 Blust, R. A., 785, 792
 Boardman, J., 704, 709
 Bobrinsky, A. A., 361, 368
 Boden, G., 432
 Boenigk, W., 830–831
 Boer, G. J., 62
 Bogdanovich, A. K., 183
 Bogolyubova, L. I., 730, 842–843, 847
 Bogucki, P., 349, 368
 Boguckyj, A., 283, 292
 Bohaty, S. M., 240, 246
 Bohncke, S. J. P., 302, 315, 481, 492, 511
 Bojadjiev, J., 506, 510
 Bolikhovskaya, N. S., 283, 286, 292
 Bologna, A., 21, 694
 Boltivets, V. A., 191, 247, 395, 404, 711, 717, 721–722, 727
 Boltovskoy, E., 183, 190
 Bonani, G., 190, 510
 Bonapace, U., 628–629
 Bonch-Osmolovsky, G. A., 299, 315
 Bond, G., 247, 508, 510
 Bondar, C., 440, 451
 Bondev, I., 183, 455, 474
 Bonfils, C., 61
 Bonnin, J., 594
 Bonsall, C., 528–529, 531, 535
 Bookman (Ken-Tor), R., 814, 816
 Borić, D., 528–529, 535
 Boriskovsky P. I., 281, 292, 295–296, 350, 368, 374, 376, 382
 Borisova, O., 147–148
 Borissoff, B., 598
 Boroneanț, V., 528–531
 Borzenkova, I. I., 298, 318
 Borziac, I. A., 292
 Bosinski, G., 280, 292
 Bottema, S., 42–43, 183, 325, 333, 340, 343–344, 461, 474
 Bourillet, J.-F., 402
 Bouzek, J., 471, 474
 Box, G. E. P., 409, 420, 429
 Box, M., 95, 103, 106, 111, 116, 188, 218, 629, 806
 Boyadziev, Y., 456–457, 469, 474, 477
 Boyle, J. S., 61
 Boyle, K., 366–367, 385, 511
 Boysal, Y., 708, 705
 Bozcu, M., 569, 601
 Bozilova, E., 71, 82, 84, 88, 106, 115, 169, 171, 183, 185, 188, 333, 340, 342, 431, 454, 465–470, 473–480
 Bozkurt, E., 569, 575, 593, 595–596
 Braconnot, P., 49, 58, 61
 Brady, H. B., 183
 Brand, A. R., 43
 Brandt, D. S., 26, 43
 Brătescu, C., 402
 Bratianu, G. I., 708, 698
 Braund, D., 708, 699
 Brazionas, T. F., 535

- Brenet, M., 832
 Brenner, R. L., 247, 274, 595
 Brett, C. E., 26, 43, 45
 Brewer, P. G., 15, 17, 20–21
 Brewer, S., 475
 Briand, F., 91–92, 108, 116–117, 403
 Bridgland, D., 600
 Briggs, D. E. G., 24, 43
 Brinkhuis, H., 478
 Brinton, L. J., 795–796
 Broccoli, A. J., 61
 Broecker, W., 11, 17, 229, 246, 248–249, 816
 Brown, D. R., 366–367
 Brown, N., 815–817
 Brown-Leger, S., 247
 Bruevich, S. V., 183, 423, 427, 429
 Bruins, H. J., 810, 817
 Brunet, M.-F., 597
 Brunnacker, K., 826, 829
 Bryden, H. L., 66–67, 111, 113, 116, 452, 558, 565
 Buachidze, I. M., 726, 835–836, 845
 Buchbinder, B., 816
 Buesseler, K. O., 3, 11, 17–18
 Bullister, J. L., 21
 Burchuladze, A. A., 183, 721, 725–726, 840, 843, 847–848, 851, 854
 Burdukiewicz, J. M., 831
 Bürkan, K. A., 599
 Burke, A., 286, 292
 Burleigh, R., 812, 816
 Burov, G. M., 677, 694
 Burr, G. S., 343, 488, 535
 Burr, S., 146
 Bustin, R. M., 18
 Butuzov, G. Yu., 408, 429
 Butzer, K. W., 653, 668
- C**
- Cabioch, G., 246
 Çağatay, M. N., 64, 66–67, 69, 71, 83–84, 95, 103, 115, 144, 146, 152, 161, 164, 169, 181, 183–184, 186, 192, 218, 245, 402–403, 433, 450, 452, 530, 540, 552, 558, 562–565, 577, 593, 595–596, 608, 626, 628–629, 673–676, 687, 689, 694–695
 Callahan, A. E., 20
 Callender, W. R., 45
 Calon, T. J., 90, 114, 592
 Calvert, S. E., 16, 18, 20, 67, 443, 451
 Campbell, A. S., 628
 Campbell, L., 776, 782, 785, 792
 Campbell, T., 15, 19
 Caner, H., 461, 475
 Canfield, D. E., 3, 17
 Canitez, N., 572, 599
 Cannariato, K. G., 240, 246
 Caraivan, G., 184
 Cârciumar, M., 528, 530
 Carlson, D. D., 45
 Carmel, Z., 819, 829
 Carmi, I., 816
 Carpelan, C., 794
 Carroll, M., 44
 Carter, B., 830
 Carter, R. W. G., 70
 Casazza, L., 44
 Caspers, H., 1, 18
 Casso, S. A., 17
 Catto, N. R., 318
 Cauvin, J., 826, 829
 Cavalli-Sforza, L. L., 489–490, 510, 512
 Cetin, N., 20
 Çetin, O., 585–589, 593, 595
 Çetin, T., 593
 Chabai, V. P., 279–280, 282–283, 293–295, 299, 316
 Chalenko, V. A., 186, 766, 771–772
 Chalié, F., 476
 Chamot-Rooke, N., 596
 Champlin, P., 653, 668
 Chan, K. M., 190, 406, 432
 Chapman, J. C., 342, 385, 433, 520, 522, 528–530
 Chappell, J., 230–232, 237, 241, 245–246, 588, 593–594, 798–799, 806–807

- Chappellaz, J., 62
 Chaput, G., 583–594
 Charnock, H., 66–67, 111, 113, 116, 452
 Charnole, H., 558, 565
 Chasovinkov, V. K., 21
 Chatsipetros, A. A., 145
 Cheddadi, R., 827, 829
 Chen, G., 70
 Chepalyga, A. L., 64–67, 76, 92, 106, 108–109, 115, 119, 144–146, 148, 181, 195, 283, 286, 293, 299–301, 315, 383, 394–395, 402, 406, 429–430, 434, 439, 441, 450–451, 463–464, 466, 468, 470–471, 475, 626, 628, 711–712, 715, 720–722, 725, 727, 729, 767
 Cherchi, M., 783, 792
 Cherdyntsev, V. V., 721, 726, 843, 852
 Cherepanov, E. V., 182, 725
 Chernov, S. B., 713, 721–722, 727
 Chernyshova, M. B., 189, 219
 Chichagova, O. A., 478
 Chikhachef, P. A., 636, 638–641, 648
 Childe, V. G., 308, 315, 489–490, 522, 530, 783, 792
 Chistyakov, A. A., 219, 292
 Chistyikova, I. A., 145
 Chiu, Tzu-chien, 249
 Chochoy, S., 71, 73–74, 88, 189, 219, 477
 Chorowicz, J., 600
 Christensen, P. B., 45
 Christie-Blick, N., 599
 Christova, R., 185, 454, 477
 Cihan, M., 595–596
 Cimerman, F., 184
 Cisne, J. L., 452
 Cisternas, A., 598
 Cita, M. B., 45
 Clackson, J., 794–795
 Clark, J. G. D., 490, 510
 Clark, P. U., 222, 240, 246
 Clarke, G. K. C., xxi–xxiii
 Clausen, H. B., 247
 Clement, B., 18
 Coban-Yildiz, Y., 21
 Codispoti, L. A., 4, 13, 18
 Cohen, V., 331–332, 340
 Cohn, N., xix, xxii
 Colarusso, J., 783, 790–792
 Coleman, D. F., 17, 66, 182, 218, 246, 339, 340, 474, 529, 593, 628, 671, 673–675, 678–679, 684–686, 691, 694–695, 700, 703, 708
 Colombo, U., 430
 Comes, H. P., 323, 325, 340
 Compston, W., 245
 Comrie, B., 793, 795
 Comşa, E., 315, 505, 510
 Cook, G., 529
 Coope, G. R., 481
 Cordova, C. E., 319–320, 323, 325, 327–332, 334, 340–341
 Corselli, C., 23–24, 31, 43
 Covey, C., 60–62
 Cowie, G. L., 18
 Craig, G. Y., 29, 45
 Crampin, S., 575, 594
 Croff, K., 673, 677–678, 684–686, 694, 700, 703, 708
 Cross, P., 595
 Crumley, C. L., 699, 708
 Cubasch, U., 61
 Cummings, V., 522, 529, 531, 535
 Cushman, J. A., 184
 Cutler, A. H., 44
 Cutter, G. A., 15, 18
 Cypionka, H., 20
 Cyrek, K., 292
- D**
 Dachev, Ch. I., 186, 188, 190, 196
 Dahl-Jensen, D., 247
 Dale, B., 66, 68, 461, 463–464, 468, 478, 481
 Dalfes, H. N., 341
 Dam, R. A. C., 795
 Dan, J., 820, 826, 829
 Daniels, P. T., 792

- Danilenko, V. N., 374, 379, 383
 Danin, A., 817
 Dansgaard, W., 240, 247
 Darden, B. J., 778, 781, 784, 789–790, 792
 Darkot, B., 609, 628–629
 Davies, D. J., 25–26, 43, 45
 Davies, T. A., 432
 Davis, B. A. S., 463, 475
 Davis, P. H., 322, 341, 343
 Davis, S. J. M., 825, 830
 Davitashvili, L. S., 184
 Dawson, T., 598
 de Batist, M., 402
 De Deckker, P., 250
 de Mille, C., 532
 de Noblet, N., 61
 de Rijk, S., 308, 317, 441, 452, 492, 513
 Dean, W. E., 477, 673, 676, 695–696
 DeAngelis, F., 704, 705, 709
 Dease, C. G., 61
 DeBaar, H. J. W., 20
 Debolskaya, E. I., 21
 Degens, E. T., xii, xvii, 67–68, 74, 184, 190, 192, 220, 408, 427, 430, 432, 441, 451–452, 464, 466, 475, 481, 516, 530, 534, 558, 566–567, 576, 594, 598, 607, 610, 622, 628–630, 673–676, 695–696, 732, 743, 755, 764, 769
 Değirmenci, E., 595
 Deith, M. R., 534
 Del Piero, D., 44
 Delage, C., 832
 Delmas, R. J., 62
 Demidenko, Yu. E., 282, 293
 Demir, C., 596–597
 Demir, T., 600
 Demirbağ, E., 65, 218, 396, 402, 451, 466, 475, 548, 550, 553, 555, 558–559, 562, 564–566, 577, 594, 596–597, 599, 606, 611, 616, 625, 628–629
 Demirci, S., 65, 68, 71–72, 78, 82, 181, 429, 473, 488, 627
 Demoule, J.-P., 490, 511
 Dengate, J. A., 528, 535
 Der Aprahamian, G., 832
 Dergachev, V., 489
 Dermann, B., 830
 Deuser, W. G., 66, 72, 461, 463–464, 475, 576, 594, 607, 628, 673, 695
 Dever, W. G., 814, 816
 Devirts, A. P., 726, 728, 730
 Devol, A. H., 17–18
 Dewey, J. F., 572, 594
 Dexter, M. R., 793
 Diaconu, V., 20
 Diamond, J., 785, 792
 Dibblee, T. W., 559, 564
 Didukh, Ya. P., 320, 322–325, 341
 DiGeronimo, I., 24, 28–29, 31, 42–43
 DiIorio, D., 549, 564, 611, 628
 DiJulio, D., 1
 Dimitrov, D., 145, 687, 689, 695
 Dimitrov, P., xvii, xxiii, 64–66, 68, 71–72, 77–80, 93, 95, 100, 110, 117, 145, 147, 184, 186, 192, 218–220, 248, 275, 317, 343, 346, 369, 404, 433, 452, 454–455, 460, 463, 467, 475–476, 478–480, 513, 534, 567, 598, 630, 673, 674–677, 687, 689, 695, 743, 747, 764, 768, 687, 695–696, 724, 729, 807
 Dimov, N., 510
 Dimov, T., 469, 475
 Dinesman, D. L., 384
 Dinu, C., 65, 67, 69, 71, 196, 404, 600, 631
 Dippner, J. W., 3, 6, 13, 20
 Dixon, J. E., 596
 Djindjian, F., 299, 315
 Dmitrienko, V., 184
 Dmitriev, V. A., 185, 764
 Dmitrieva, T. N., 296
 Dobkina, E. I., 726, 730
 Dodge, R. E., 229–230, 247
 Doğan, A. U., 188, 247, 274, 594–595

- Doğan, E., 548, 565, 595
 Dolgachev, V. P., 431
 Dolgopol'skaya, M. A., 185
 Dolgopol'sky, A. B., 792
 Doll, C. G., 600
 Dolukhanov, P. M., 108, 115, 297–299,
 301, 305, 307–308, 310, 315–317,
 342, 356, 366, 368, 385, 433,
 489, 491, 495, 497, 503, 511,
 514, 530
 Domozhilova, L. M., 431
 Dong, B., 61
 Dong, Z., 70
 Dönmez, Ş., 708
 Doonan, O., 681, 695, 697, 700–702,
 704–706, 708–709
 Dorbath, L., 598
 Döscher, R., 62
 Douguedroit, A., 322, 341
 Doutriaux, C. M., 61
 Drach, R. S., 61
 Draganov, V., 454, 456–457, 469–470,
 473, 476, 665, 668
 Dragomir, I., 506, 511, 528, 530
 Drasovean, F., 668
 Dreger, D., 62
 Drenova, A. N., 318
 Drews, R., 792
 Droz, L., 404
 Drozdov, O. A., 256, 273
 Druckman, Y., 816
 Dryer, M., 795
 Ducos, P., 831
 Duhon, S. T., 535
 Duman, T. Y., 594
 Duplessy, J.-C., 250, 451
 Durie, M., 794
 Dvorianinov, S. A., 379, 383
 Dyke, A. S., xxii, 56, 61
 Dyrssen, D., 11, 20
 Dzeiranshvili, V. G., 154, 169, 189,
 410, 432
 Dzhafazade, I. M., 146
 Dzhambazov, N., 374, 383–519, 530
 Dzhandzhgava, K. I., 711, 717, 726,
 837–840, 843, 848, 850–851, 857
 Dzhanlidze, Ch. P., 185, 711, 717,
 721, 723, 726, 848, 855
- E**
 Earland, A., 187
 Eastoe, C., 67, 69, 95, 103, 115, 144,
 187, 402, 450, 552, 558, 562–564,
 593, 628
 Ecevitoglu, B., 80, 84, 451, 548, 550,
 553, 555, 558–559, 562, 565, 629
 Echt, R., 668
 Eckstein, Y., 810, 817
 Ediger V., 65, 220, 589, 594, 611–612, 630
 Efe, T., 668–667
 Efimenko, P. P., 379, 383
 Efremov, I. A., 24, 43
 Egorov, A. V., 21
 Ehrenreich, R. M., 699, 708
 Ehret, C., 780, 790, 792–793
 Einsele, G., 406, 430
 Eischeid, J., 488
 Elderfield, H., 247
 Ellenberg, H., 341
 Elmas, A., 568–569
 Embleton, S., 777, 793
 Emeis, K. C., 66, 79, 276, 343, 631
 Emery, K. O., 674, 696, 798, 807, 809,
 817, 819, 830
 Emiliani, C., 231, 247
 Emre, B., 146
 Emre, Ö., 64, 71, 95, 115, 186, 218,
 403, 540, 548, 558, 563–565, 577,
 581, 594, 599, 629, 673–676, 695
 Engelmann, A., 823, 828, 830
 Enzel, Y., 816
 Eremeev, V. V., 673, 696
 Eren, R. H., 80, 555, 566, 630
 Erendil, M., 581, 594
 Erentöz, C., 539, 565, 583, 594
 Erfurdt, K. G. A., 648
 Ergin, M., 65, 220, 589, 594, 603, 616,
 628, 630

- Ergintav, S., 596–597, 599
 Ergün, M., 576, 594
 Ergünay, O., 598
 Erinç, S., 539, 557, 559, 564, 583, 589,
 594, 644–645, 648
 Eriş, K., 82, 192
 Eristavi, I. V., 721, 726
 Erkal, T., 64, 71, 95, 115, 146, 186,
 218, 403, 540, 548, 558, 563–565,
 594, 629, 673–676, 695
 Erlenkeuser, H., 62, 66, 79, 276, 343,
 631
 Erol, O., 559, 564, 583, 585, 594, 609,
 611, 628
 Ershov, A. V., 597
 Ertek, T. A., 559, 564
 Ertunç, A., 432, 601
 Eryılmaz, M., 573, 596
 Eseller, G., 600
 Esin, N. V., 67, 185, 732, 734, 737,
 742–743, 756, 760, 762–765
 Evans, M. N., 510
 Evans, R., 575, 594
 Evsyukov, Yu. D., 67, 82, 185, 438,
 451, 739, 764, 766, 769
 Eyidoğan, H., 577, 595
- F**
- Faber, A., 783, 793
 Fabienne, M., 463, 476
 Fairbanks, R. G., 60–61, 94, 97, 101,
 115, 185, 230, 240, 242, 245–247,
 249, 448, 451, 695, 798, 806
 Fairbridge, R. W., 257–259, 265, 273,
 374, 383
 Fairchild, T. R., 473
 Faldborg, K., 24, 43
 Farrand, W. R., 528, 530
 Fashchevsky, S. N., 431
 Faudot, M., 700–702, 704–706, 708
 Faure, G., 246
 Fedorov, P. V., 65, 185, 187, 194, 218,
 224, 226, 228, 247, 255, 260, 263,
 265, 273, 312, 314–315, 374, 383,
 389–391, 394–395, 398, 402,
 406–407, 424, 427–428, 430, 441,
 451, 471, 476, 492, 506, 511, 558,
 565, 604–606, 622, 628, 711, 726,
 732, 743, 757, 762, 765, 744–746,
 752–753, 755
 Feige, A., 26, 43–44
 Feinman, G. M., 831
 Fellner, R. O., 825, 830
 Fernández López, S., 24, 44
 Ferrier, C., 533
 Feurdean, A., 106, 115
 Fifield, L. K., 250
 Filimonova, E., 792
 Filipescu, S., 95, 103, 106, 111, 116,
 188, 218, 629, 806
 Filipova, M., 68, 71, 188, 431, 454,
 465, 468, 474–477
 Filipova-Marinova, M., 106, 115, 185,
 453–454, 463–470, 476–477
 Filipovitch, L., 465, 477
 Finch, V. C., 108, 115
 Fink, J., 185
 Finkel, C. F., 577, 592
 Fiorino, M., 61
 Fischer, A., 694
 Fischer, B., 708–709
 Fish, S. K., 700, 709
 Flannery, K. V., 826, 830
 Flemming, N. C., 831
 Flessa, K. W., 24, 26, 44–45
 Flexor, J. M., 473
 Florov, I., 677, 695
 Florov, N., 677, 695
 Foley, B., 673, 677–678, 684–686, 694,
 700, 703, 708
 Folk, R. L., 185, 408, 430
 Fontugne, M. R., 67, 441, 443, 451
 Forova, V.S., 727
 Forster, P., 794–795
 Fosing, H., 18
 Francois, R., 247
 Franz, U., 432
 Fraysse, A., 700–702, 704–706, 708
 Frechen, M., 821–823, 828, 830
 Frenzel, B., 185

- Friederich, G. E., 18
 Friedmann, G. M., 819, 830
 Frolov, V. T., 250
 Frumkin, A., 814–816, 832
 Fry, B., 452
 Fuchsman, C. A., 15, 18
 Fursenko, A. V., 186, 192
 Fürsich, F. T., 26, 43–44
 Furtes, V. V., 263, 274
- G**
- Gadzhiev, M.G., 793
 Gagnon, A. R., 67, 73
 Galili, E., 801, 806–808, 826–827, 830
 Galleb, A., 277
 Galleb, B., 92, 107, 117, 568, 601
 Gamble, C., 291, 293, 315
 Gamkrelidze, T. V., 793
 Ganeshram, R. S., 16, 18
 Gantos, A., 700, 704, 708, 709
 Gaprindashvili, M. V., 723, 725
 Gardiner, A. R., 567
 Garfin, G., 488
 Garkusha, N. A., 191, 711, 717, 721–722, 727
 Garrard, A., 831
 Garrett, P., 247
 Garzon, G., xxii
 Gat, J. R., 810, 816–817
 Gates, W. L., 49, 61
 Gatsov, I., 519, 530, 662, 668
 Gattinger, T. E., 539, 565
 Gavish, E., 819, 830
 Gay, N., 479
 Gaydukevich, V. F., 337, 341
 Gazioglu, C., 65, 68, 71–72, 78, 82, 181, 429, 473, 548, 550, 553, 555, 558–559, 562, 565, 575–576, 595, 627
 Gedevanishvili, A. D., 183
 Gedevanishvili, L. D., 721, 726
 Gegory, K. J., 148
 Gei, N. A., 627
 Geist, E. L., 192, 598
 Genç, Ş. C., 569, 581, 583, 595, 601, 631
 Genov, I., 65
 Gensler, O. D., 783, 788–789, 793
 Geny, E., 700–702, 704–706, 708
 Genz, H., 708–709
 Georgescu, P., 196, 404, 600, 631
 Georgiev, I., 596–597
 Georgiev, V. M., 67, 71–75, 81, 188–189, 219, 477, 668
 Gerasimenko, N. P., 283, 286, 293, 332, 340–341
 Gerasimov, I. P., 146, 148, 324, 341
 Gerasimova, S. A., 627, 720, 725
 Gershanovich, D. E., 406, 430
 Gertner, Y., 830
 Gey, N. A., 65, 191, 248, 403, 432, 630, 711–712, 722–723, 725, 728, 768
 Geyh, M. A., 810–811, 816
 Gherardi, J.-M., 247
 Giacobbe, S., 43
 Gigineishvili, G., 109–110, 116
 Gil, D., 795
 Gilead, I., 817, 824, 830
 Giles, P.T., 70
 Gilinsky, N. L., 28, 44
 Gillespie, H., 95, 103–106, 111, 114, 116, 181, 245, 273, 342, 450, 473, 479, 528, 592, 627, 675–676, 678, 694, 696, 732, 755–757, 764
 Gillespie, J., 532
 Gilmour, M., 832
 Gimbutas, M., 507, 511, 781, 793
 Giosan, L., 276
 Girotti, O., 806
 Gkiasta, M., 490, 512
 Glagol'eva, M. A., 186
 Glantz, M. H., 115, 110
 Glava, V., 341
 Glavatsky, A. B., 431
 Glazer, B., 18
 Glazunova, K. N., 727

- Glebov, A. Yu., 64, 67 220, 631, 731,
750, 752, 754, 756, 763–767,
769–773
- Gleckler, P. J., 61
- Glover, R. W., 49, 62
- Glumov, I. F., 186, 766
- Glykas, M., 636, 648
- Goddard, J., 246
- Goddio, F., 818
- Godfrey-Smith, D. I., 820, 824, 830
- Gökaşan, E., 65, 68, 71–72, 78, 80, 82,
144, 181, 218, 402, 429, 438,
450–451, 473, 475, 548, 550, 552–
553, 555, 558–559, 562–566, 595,
597, 603, 626–629
- Gokhman, I. I., 307, 315
- Goldsmith, V., 819, 830
- Goldstein, S. L., xxiii, 63, 67–68,
72–74, 76, 80, 93–98, 100–101,
104, 106, 108–114, 147, 192, 248,
317, 343, 346, 349, 369, 404, 433,
452, 480, 532–533, 567, 630, 724,
729, 768, 807
- Goldstein, S. B., 66
- Golik, A., 829
- Golovanova, L. V., 280, 293, 299, 315
- Golson, J., 796
- Golubev, G. N., 110, 115
- Goncharov, V. P., 186, 739, 766
- Göncüoğlu, M. C., 594
- Göney, S., 595
- Goodger, K. A., 295
- Goodwin, W., 316
- Gopher, A., 826, 830
- Gophna, R., 832
- Gorashchuk, I. V., 351, 368
- Gorelik, A. F., 379, 383
- Goretsky, G. I., 292
- Goring-Morris, N., 810, 812, 816
- Görmüş, M., 189, 197, 432, 601
- Görsdorf, J., 469, 477
- Gorshkov, A. S., 182, 186, 734–735,
744, 746, 764, 766, 773
- Görür, N., xvii, xxiii, 64, 69, 71–72,
77–78, 80, 93, 95, 100, 103, 110,
115, 117, 146–147, 184, 186, 192,
218, 220, 248, 275, 317, 343, 346,
369, 396, 399, 403–404, 433, 452,
480, 513, 517, 530, 534, 540, 558,
562, 563–565, 567, 593, 595,
597–600, 611, 626, 628–630,
673–676, 695, 724, 729, 768, 807
- Goryachkin, Yu., 20
- Götherström, A., 316
- Govberg, L. I., 184, 186, 454, 477
- Gozhik, P. F., 72, 186–187, 191, 410,
430, 711, 717, 721–722, 724,
726–727, 746–747, 753, 760, 762,
766, 835, 838–839, 846–847, 849,
851, 854, 862–875
- Gradusov, B. P., 429
- Graham, A. J., 709, 706
- Graham, L. P., 62
- Grakova, I. V., 68, 71, 87, 193, 480,
567, 631, 769
- Gramova, L., 196, 406, 435
- Gramsch, B., 529
- Granova, A. K., 754, 767
- Gray, R. D., 778, 790, 793
- Graybill, F. A., 409, 420, 431
- Greenberg, J. H., 776, 793
- Greenfield, H. J., 522–523, 528, 531
- Gregg, M. C., 8, 10, 18, 20
- Gregoras, N., 639, 648
- Gregory, T., 695, 674, 681, 691
- Grichuk, V. P., 283, 293
- Griffith, E. T., 567
- Griggs, C. B., 478–488
- Grigor'ev, A. V., xvii, 172, 174, 187,
218, 410, 430
- Grigor'eva, G. V., 317, 346, 368, 382
- Grinenko, V. A., 220
- Grishankov, G. Ye., 322, 341
- Grist, J. P., 116, 110
- Gronenborn, D., 490, 511, 513
- Grootes, P. M., 62, 66, 79, 276, 343,
508, 511, 513, 631
- Grosset, H. E., 325, 341
- Grosswald, M. G. (also Grosval'd),
xxii–xxiii, 52, 61, 76, 146, 441, 451

- Grove, J. M., 640, 646, 648
 Grudinova, L. Ya., 725
 Grupe, G., 529
 Güçlü, U., 595
 Gugliotta, G., 187
 Guichard, F., 65, 68, 70–71, 78, 81, 189, 432, 437, 629
 Guilaine, J., 832
 Guilderson, T. P., 52, 61
 Guiot, J., 61, 110, 117, 475
 Gülen, L., 575, 593
 Gundestrup, N. S., 247
 Güner, Y., 569
 Güneysu, C., 65, 68, 71–72, 78, 82, 181, 429, 473, 595, 627
 Gunnerson, C. G., 2–3, 18
 Gupta, N. S., 44
 Gürbüz, E., 569
 Gürer, F., 569
 Gurkan, O., 596–597
 Guslitzer, B. I., 281, 294
 Gvirtzman, G., 821–823, 826, 829–832
 Gvozdover, M. D., 294
 Gyllius, P., 648, 639
- H**
- Haack, S., xxiii
 Haarmann, H., 269, 273
 Haessler, H., 598
 Hahn, J., 282, 292, 294
 Hajdas, I., 74–80, 190, 219, 247, 403, 432, 510, 532–533, 629, 684, 689–690, 696, 767, 807, 816
 Hajicová, E., 795
 Hall, J. K., 809, 817
 Hall, M. A., 249
 Hallman, D. P., 44
 Halstead, P., 522–523, 531
 Hamblin, W. K., 409, 430
 Hamburger, M., 596–597
 Hamelin, B., 60, 246, 451
 Hamilton, W. J., 539, 565
 Hammer, C. U., 247
 Hammond, E. H., 108, 115
 Hannisdal, B., 44
 Hansen, J. M., 531–532, 827, 829, 832
 Hansson, U., 62
 Harada, K., 481
 Harding, A., 474
 Harkness, D., 529
 Harmon, R. S., 230, 232, 241, 247
 Harper, P. C., 343
 Harris, A. C., 783, 793
 Harrison, S. P., 52, 57, 61–62, 110, 115, 117
 Hartleb, R., 592
 Hartnett, H. E., 17–18
 Haşotti, P., 505, 511
 Haspelmath, M., 795
 Haupt, B., 62
 Hauptmann, H., 474, 478, 488
 Hawkesworth, C. J., 832
 Hay, B. J., 452, 469–471, 477, 676, 695
 Hayden, B., 824, 830
 Hays, J., 432
 Head, M. J., 452
 Hearty, P. J., 230–232, 241, 247, 249
 Heath, G. R., 431
 Hecht, J., 187
 Hecky, R. E., 464, 466, 475
 Hedge, I. C., 343
 Hedges, J. I., 18
 Hedges, R. E. M., 283, 294
 Heinemann, W., 343
 Heinitz, W.-D., 480
 Heise, E. A., 45
 Helfrich, K. R., 276
 Hemleben, Ch., 66, 72, 79–80, 88, 194, 276, 343, 631
 Hendy, A., 44
 Henriksen, M., xxiii
 Henry, D. O., 813, 816, 826, 831
 Herece, E., 575, 577, 595
 Herodotus, 633, 635, 648, 704–705
 Heron-Allen, A., 187
 Herterich, K., 61
 Herz, N., 184, 403
 Hesp, P. A., 70
 Hetzron, R., 793
 Hewitt, B. G., 783, 793–794

- Hewitt, C. D., 49, 61
 Hide, R., 796
 Hiebert, F. T., 673–674, 677–678,
 685–686, 694–695, 700, 702–704,
 708–709
 Higgs, E., 523, 531
 Hild, F., 649
 Hilgen, F. J., 831
 Hill, J. H., 794
 Hillman, G. C., 817
 Hind, J., 333, 337, 341, 709
 Hirst, J. P. P., 567
 Hiscott, R. N., 64–65, 71–72, 77–82,
 89–92, 94–95, 97–101, 103–107,
 111–112, 114–117, 144, 181,
 187–188, 218, 245–246, 273, 277,
 340, 348, 367, 399, 402, 429, 450,
 473, 510, 517, 528, 531, 563, 568,
 592, 601, 604, 608, 627, 629, 673,
 675–676, 694, 696, 732, 746,
 755–757, 764, 798, 805–806
 Hjort, C., xxiii
 Hnilo, J. J., 61
 Hobson, G. D., 430
 Hochstatter, F., 557, 565
 Hodder, I., 439, 451
 Hoffecker, J. F., 280, 293, 315–316
 Hoffmann, S., 510
 Hofker, J., 187
 Holisky, D. A., 792, 795
 Holland, H. D., 3, 18
 Holland, S. M., 26, 44
 Holland, T. A., 816
 Holst, I., 795
 Home, A. K., 567
 Honio, S., 452, 477, 676, 695
 Hopf, M., 780, 787, 796, 826, 832
 Horowitz, A., 831
 Horvat, I., 322, 341
 Hostetler, S. W., 52, 61
 Houseley, R. A., 294, 301, 315
 Howard, A. J., 518, 529, 532
 Howarth, R. W., 452
 Hsü, K. J., 354, 369, 599
 Huber, H., 343
 Hubert, A., 592
 Hubert-Ferrari, A., 575, 590, 595
 Hudak, T. J., 792
 Hughen, K. A., 343, 488, 535
 Hughes, M. K., 484, 488
 Hughes, T. J., 76
 Huijzer, B., 187
 Huntley, B., 465, 477
 Hurst, K., 595–597
 Hvidberg, C. S., 247
- I**
 Ikeda, Y., 585, 595
 Il'ina, L. B., 187, 406, 430
 Ilani, S., 830
 Imboden, D. M., 18
 Improta, S., 806
 Imren, C., 558, 565–566, 596–597
 Inal, A., 583, 594
 İnan, S., 599
 Inandık, H., 539, 565, 583, 594, 609, 629
 Indjidjian, G. V., 637, 648
 Inman, D. L., 408, 430, 829
 Inozemtsev, Yu. I., 187, 194, 247, 276,
 711, 719, 726, 729, 853, 855–859
 Ion, E., 403
 Ion, G., 403
 Isagulova, E. Z., 187, 430
 Isarin, R. F. B., 302, 315, 492, 511
 Ishchenko, L. V., 187, 250, 373, 383,
 430
 Ishman, S., 432, 601
 Işıkara, A. M., 595
 Isin, M. A., 702, 709
 İslamoğlu, Y., 64, 71, 95, 115, 146,
 186, 218, 403, 540, 563, 565, 568,
 629, 695, 673–676
 İşler, F. I., 64–65, 77–82, 94–95,
 97–101, 103, 106–107, 112,
 114–115, 181, 187, 218, 245, 273,
 402, 429, 450, 510, 528, 532, 592,
 627, 629, 673, 675–676, 694, 696,
 805
 Issar, A. S., 809–810, 813–817,
 819–820, 831

Itsikson, E. M., 182
 Ittekkot, V., 451
 Ivannikov, A. V., 242, 247
 Ivanov, G. I., 66, 220, 239, 242, 247,
 276, 373, 383, 406, 426–428, 431,
 607, 629
 Ivanov, I. V., 322, 341, 351, 368, 469,
 474, 491, 511
 Ivanov, K. M., 186, 188, 190, 196
 Ivanov, L. I., 18, 20
 Ivanov, V. G., 187
 Ivanov, V. V., 782–783, 791, 793
 Ivanova, I. K., 188, 292, 295
 Ivantchik, A. I., 705–706, 709
 İzбірak, R., 609, 629
 Izmailov, Ya. A., 65, 182, 184, 192,
 248, 403, 432, 471, 473, 627, 630,
 711–713, 717, 720–722, 725,
 727–728, 743, 762, 767–768, 768,
 835–836, 838, 845, 847, 849–850,
 854

J

Jackson, J. A., 194, 599–600
 Jacob, E. A., 196
 Jacob, J., 197, 432, 601
 Jacobs, K., 306–307, 316, 357, 368
 Jacobsen, T. W., 528, 530, 814, 817
 Jahns, S., 323, 342
 Jaimoukha, A. M., 783, 794
 Jakobsson, M., xxiii
 Jall, E., 146
 James, D. P., 404
 Jamieson, R. W., 531
 Janda, R. D., 792, 795
 Janhunen, J., 781–782, 787, 794
 Jannasch, H. W., 18, 20
 Jaoshvili, S., 109–110, 116
 Jean, É., 705, 708–709
 Jelinovsky, A., 146
 Jenkins, G. M., 409, 420, 429
 Jensen, K. T., 45
 Jezik, S., 531
 Johns, W. E., 110, 116–117
 Johnsen, S. J., 247

Johnson, R. G., 231, 247
 Johnston, P., 250, 799, 807
 Jolly, D., 61
 Jones, C., 62
 Jones, G. A., xvii, xxiii, 64–68, 71–73,
 77, 79–80, 93, 95, 100, 110, 117,
 147, 192, 220, 248, 275, 317, 343,
 346, 369, 404, 433, 452, 480, 513,
 534, 567, 598, 630, 673–676, 696,
 724, 729, 768, 807
 Jones, H. L., 343
 Jones, P., 61
 Jones, R. W., 540, 565
 Jones-Bley, K., 793
 Jongsma, T. L., 523, 531
 Jordanes, G., 636, 648
 Jordanov, A., 183
 Jordanov, D., 456, 477
 Jørgensen, B. B., 18, 20
 Joseph, B. D., 792, 795–796
 Josey, S. A., 110, 116
 Jousel, D. J., 62
 Joussaume, S., 49, 52, 57–58, 61
 Jouzel, J., 247
 Jung, S. J. A., 62

K

Kadereit, J. W., 325, 340
 Kadinsky-Cade, K., 559, 564, 573,
 575–576, 593
 Kadioğlu, M., 593
 Kadzhiya, S. G., 726
 Kafafi, Z., 831
 Kagan, E. J., 832
 Kahle, H.-G., 572, 581, 589–590,
 595–597, 600
 Kaiho, K., 103, 116
 Kalinin, A. V., 188
 Kalinin, G. P., 256, 260, 273–274
 Kalis, A. J., 449, 451
 Kaminski, M. A., 64, 71–72, 77, 79–
 82, 89, 94–95, 101, 103–107,
 111–112, 114–116, 144, 181,
 187–188, 197, 218, 245–246, 273,
 340, 348, 367, 402, 450, 473, 528,

- 532, 563, 592, 604, 608, 622, 627,
629, 675–676, 696, 732, 755–757,
764, 798, 806
- Kanev, D. D., 188
- Kaplin, P. A., 64–66, 80–81, 254–258,
274–275, 372–373, 383, 403, 430,
432, 434, 469, 473, 479–480, 628,
630, 711–712, 715, 720–723,
725–730, 765–769, 857
- Kara, S., 194, 599
- Karacık, Z., 569
- Kareva, E. V., 182
- Karlık, G., 64, 71, 95, 115, 146, 186,
218, 403, 540, 563, 565, 629,
673–676, 695
- Karpov, V. A., 187
- Karul, N., 668
- Karyshkovsky, P. O., 360, 367, 384
- Kasapoğlu, E., 600
- Kassakian, S., 1
- Kastens, K., 595–597
- Kats, Yu. I., 191
- Katsav, E., 830
- Kaufman, A., 810, 815–816, 824,
831–832
- Kaufman, D., 824, 831–832
- Kaufman, T., 792
- Kavak, K. S., 600–601
- Kazakov, O. V., 253, 274
- Kazancı, N., 548, 558, 564, 594
- Keçer, M., 64, 71, 84, 95, 115, 146,
186, 218, 403, 531, 540, 548, 558,
563–565, 594, 629, 673–676, 695
- Keigwin, L. D., 247
- Keil, R. G., 18
- Keita, S. O. Y., 793
- Kekelidze, G., 596–597
- Keller, N., 24, 44
- Keller, W., 187
- Kelletat, D., 806
- Kelling, G., 247, 274, 595
- Kempe, S., 451
- Kennett, J. P., 197, 222, 240, 246
- Kenyon, K., 812, 816–817, 826, 831
- Kerey, I. E., 188, 197, 227–229, 244, 247,
260, 268–269, 271, 274, 577, 595
- Kerey, P. E., 550, 552, 562, 566
- Kerkhof, L. J., 20
- Keskin, Ö., 65
- Keskin, Ş., 603, 628
- Kessel, Kh. Ya., 146
- Kessler, B., 776, 781, 794
- Ketin, I., 539–544, 555, 565, 567–568,
573, 583, 595
- Khachapuridze, Ya. F., 726
- Khain, V. Z., 719, 728–729
- Khakhalev, E. M., 186, 766, 771–772
- Kharitonov, V. M., 294, 315–316
- Khiba, Z., 783, 793
- Khlystov, A. I., 424, 431
- Khomerki, I., 109–110, 116
- Khotinsky, N. A., 721, 728
- Khouri, J., 816
- Khozatsky, L. I., 717, 728
- Khrishev, K., 455, 459, 463, 467, 471,
477
- Khrishev, Kh. G., 67, 71–75, 81, 188,
218
- Kidd, W. S. F., 541, 568
- Kidwell, S. M., 24–26, 44
- Kiefer, T., 62
- Kilpatrick, K. A., 20
- Kim, J. W., 61
- Kind, N. V., 188, 721, 726–727, 836,
838–840, 843, 846, 850–851, 859
- King, G., 592, 595
- King, L. W., 188
- King, R. W., 559, 566, 595–598, 600
- Kinik, I., 559, 566, 597–598
- Kıran, F., 555, 565
- Kirch, P. V., 778, 794
- Kırcı, E., 65, 68, 71–72, 78, 82, 181,
429, 473, 627–628
- Kırcı-Elmas, E., 603
- Kislev, M. E., 817
- Kislov, A. V., 3, 47, 52, 61–62
- Kitaev, L. M., 294
- Kitoh, A., 61

- Kiyashko, V. Ya., 498, 511
Klige, R. K., 148, 256–260, 273–275, 277, 383, 430, 434, 711–712, 715, 720, 721–722, 725, 727, 729, 767
Klimanov, V. A., 106, 108, 117, 318
Klimov, G. A., 783, 794
Klyueva, V. O., 274
Klyukin, A. A., 323, 338, 340, 342
Knox, G. A., 93, 116
Kobori, I., 110, 115
Kochenov, A. V., 433
Kochetkov, M. V., 186, 766
Kochev, H., 456, 477
Kochubey, N. N., 191, 711, 717, 721–722, 727
Koçyiğit, A., 577, 595–596
Koder, J., 649
Koen, V. Yu., 315
Kohfeld, K. E., 52, 57, 62
Kojumdieva, E., 576, 596
Kol'tsov, L. V., 355, 357, 364, 368
Kolesnik, A., 280, 294
Köln, B., 292, 294
Kolosov, Yu. G., 299, 316, 503, 511
Kolska-Horwitz, L., 826, 830–831
Kolstrup, E., 474
Komarov, A. M., 350–353, 368, 370
Komarov, A. V., 68, 71, 87, 153, 167, 176, 186, 193, 258, 261, 275, 410, 431, 454, 465, 477, 480, 562, 567, 625, 631, 766, 769, 772
Kominz, M. A., 409, 431
Konecka-Betley, K., 292
Konikov, E. G., 191, 195, 242, 250, 277, 405–406, 410, 419–420, 422–424, 426–428, 431, 434–435, 711, 717, 721–722, 727, 730
Kononov, S. K., 3–4, 13–14, 18
Konuk, Y. T., 43, 181
Koprarev, I., 481
Koral, H., 24, 28, 44–45, 183, 571, 573, 576–577, 589–591, 596–599
Kordzadze, A., 109–110, 116
Koreneva, E. V., 404, 433, 768
Korfmann, M., 485, 488
Korobkova, G. F., 306, 316, 381, 383
Köroğlu, K., 705, 708–709
Korotaev, M. V., 597
Korsakov, O. D., 732, 734, 744, 754, 763, 767
Korzhenevskii, V. V., 323, 340, 342
Kosarev, A. N., 110, 116
Koskikallio, P., 794
Kostylev, V. E., 64, 77, 79–82, 94–95, 97–101, 103, 106–107, 112, 115, 187, 218, 532, 629, 675–676, 696
Kotova, N. S., 496, 511–512
Kotovshchikov, B. B., 673, 696
Kotšovcová, A., 795
Kotzev, V., 596–597
Kouli, K., 463, 478
Kovalyukh, M. M., 357, 361, 363, 370, 842–843, 858, 864, 866, 870–874
Kovalyukh, N. N., 72, 147, 187, 193, 273, 719, 726
Kovalyukh, N. P., 188, 717, 719, 727
Kowalczyk, G., 806
Kowalewski, M., 24–26, 28, 42, 44
Kowalewski, S. A., 700, 709
Kozacı, O., 592
Kozin, E. V., 363, 367
Kozłowski, J. K., 289, 294, 315, 510, 530
Kozłowski, S., 385
Kozuharov, S., 183
Kra, R. S., 451, 816
Kraft, J. C., 802, 806
Krainov, D. A., 303, 316
Krakowsky, B. I., 195, 435
Kramer, S. N., 349, 368
Krasnoshchok, A. Ya., 195, 277
Krastev, T., 454, 469–471, 476, 478, 480
Krause, Jr, R. A., 44
Krefeld, E. V., 62
Kremenetski, C. V., 332, 342, 470, 478
Kremenetski, K. V., 297, 308, 310, 316, 318, 492, 512
Kriausakul, N., 247
Krinner, G., xxiii

- Krizhevskaya, L. Ya., 360, 365, 368, 379, 381, 383, 497, 512
 Kromer, B., 343, 478, 483, 485, 488, 510, 535
 Kronfeld, J., 44, 188, 197, 596
 Kroonenberg, S. B., 76
 Krotova, A. A., 301, 316
 Krugliakov, V. V., 196, 404, 600, 631
 Kruglyakova, R. P., 766
 Krumbein, W. C., 409, 420, 431
 Krupsky, N. K., 324, 342
 Krynytzky, M., 1
 Krystev, T. I., 188, 218
 Kryzhitskii, S. D., 312, 316
 Ku, T.-L., 246, 431
 Kuhlmann, H., 66–67, 72, 74–76
 Kuhn, T., 67, 69, 95, 103, 115, 184, 562, 564, 593, 628
 Kuhnt, W., 62
 Kuipers, A. H., 783, 791, 794
 Kuipers, M. M. M., 14, 19
 Kukla, G., 341
 Kuklev, S. B., 765
 Kulakovskaya, V., 280, 282, 292–294
 Kuneva-Abadzhieva, V. I., 184, 186
 Kuniholm, P. I., 457, 470, 478, 483–486, 488
 Kuprin, P. I., 711, 729
 Kuprin, P. N., 64–65, 68, 71, 73, 188–189, 193–194, 205, 218–220, 249, 260, 262, 274, 276, 384, 404, 433, 479, 534, 625, 629, 631, 757, 767–768
 Kuptsov, M. B., 219, 454, 478, 836–837, 839, 841, 843, 849–851, 857
 Kuptsov, V. M., 189, 211, 727
 Kurt, H., 597
 Kuşçu, İ., 67, 69, 95, 103, 115, 184, 562, 564, 593, 597, 599, 628
 Kuşçu, L., 594
 Kutzbach, J. E., 61, 465, 478
 Kuz'mina, I. E., 288, 296, 368, 354
 Kuzmanov, B., 183
 Kuznetzov, V., 704, 709
 Kuzucuoğlu, C., 634, 648
 Kvasov, D. D., 65, 146, 189, 397, 403, 441, 448, 451, 605, 622, 629, 742, 767
 Kvavadze, E. V., 189, 431, 720, 727, 846–847, 855
 Kvirveliia, B. D., 182, 429, 628, 711–712, 714, 717, 721–722, 725–726, 764
 Kyrvel, N. S., 189
- L**
 LaBarbera, M., 44
 Labeyrie, L., 245, 250, 451
 Labracherie, M., 250
 Laity, J. E., 70
 Lallemand, S., 596
 Lamb, S. M., 793, 795
 Lambeck, K., 234, 248, 250, 797, 799–803, 805, 807–808
 Lambert, S., 61
 Lambert, W. G., 189
 Lamy, F., 66–67, 72, 74–76
 Lancaster, N., 70
 Lanczont, M., 292
 Land, L. S., 247
 Landing, W. M., 15, 19–20
 Lane-Serff, G. F., 66–67, 111, 113, 116, 439, 448, 452, 558, 565
 Lang, B., 832
 Langer, M. R., 184
 Laronne, J., 819, 832
 Larson, A. J., 247
 Latif, M. A., 2–3, 20, 108, 116, 403, 566, 673, 696
 Latif, M., 62
 Latini, C., 488
 Latun, V. S., 673, 696
 Latvinskaya, S. A., 341
 Laughton, A. S., 432
 Laukhin, S. A., 820, 831
 Lavrushin, Yu. A., 146
 Lawrence, D. R., 25, 44
 Lazarov, M., 454, 456, 465, 469, 471, 478
 Lazarova, M., 333, 342
 Lazarovici, Gh., 490, 512

- Lazo, D. G., 44
 Lazukov, G. I., 190, 283, 294
 Le Pichon, X., 541, 543, 548, 550, 558–559, 562, 564–565, 569, 572–573, 576, 581, 596
 Lear, C. H., 240–241, 247
 Lechevallier, M., 832
 LeDrezen, E., 65, 67, 69, 71, 404
 Lee, B.-S., 11, 19
 Lee, C., 16, 19
 Lee, H.-K., 295
 Leet, L. D., 409, 431
 Legge, A. J., 817
 Leguy, C., 810, 817
 Lehman, P. H., 320, 325, 327–332, 334, 340–341
 Lehtonen, A., 781, 794
 Lemdahl, G., 474
 Lenk, O., 559, 566, 596–598
 Lennon, R., 529
 Leonov, Yu. G., 146
 Leonov, Yu. V., 426, 431, 434
 Leonova, N., 145–146
 Leont'ev, O. K., 146, 148, 273–274
 Lericolais, G., xxi, xxiii, 63, 65, 67–81, 93–98, 100–101, 104, 106, 108–114, 147, 189–190, 192, 219, 247–248, 317, 343, 346, 349, 369, 402, 404, 406, 432–433, 437, 452, 480, 532–533, 567, 621, 629–630, 675, 684, 689–696, 724, 729, 767–768, 807
 Leroy, S., 473, 476
 Leunclavius, J., 636, 648
 Leverington, D. W., xxii–xxiii
 Levine, M., 366–367, 385, 511
 Levkovskaya, G. M., 491, 512
 Levy, J. E., 699, 708, 813, 816–817, 832
 Levy, Y., 406, 423, 432
 Lewis, B. C., 15, 19
 Lianos, N., 802, 806, 808
 Lichardus, J., 668
 Lidén, K., 316
 Lillie, M., 305, 307, 316, 357, 361, 363, 370, 490, 514, 523, 536
 Limonov, A. F., 188, 218–219
 Line, J. M., 465, 474
 Linné, C., 189
 Lipin, V. M., 182, 725
 Lisitsin, A. P., 406, 432, 714, 727
 Lisitsyn, N. F., 350, 368
 Liston, A., 343
 Livingston, H. D., 17–18
 Loeblich, Jr, A. R., 189
 Lohmann, G. P., 607, 631
 Lohr, M., 778, 794
 Lokhin, M. Yu., 146
 Lokshin, N. V., 627, 720, 725
 Longinelli, A., 44
 López Bayón, I., 286, 294–295
 Lord, A. R., 64, 77, 78–82, 94–95, 97–101, 103, 106–107, 112, 115, 187, 218, 532, 629, 675–676, 696
 Lordkipanidze, O., 344
 Lorius, C., 62
 Lotti-Bond, R., 510
 Lourens, L. J., 827, 831
 Loutre, M. F., 50, 60–61
 Lubotsky, A., 796
 Luciv, Ya. K., 719, 726
 Lüddmann, T., 600
 Lugina, K. M., 256, 273
 Luk'yanova, S. A., 274
 Lüning, J., 513
 Lunkka, J.-P., xxiii
 Luther, III, G. W., 4, 13, 15, 18
 Lutsiv, Ya. K., 187
 Lyberis, N., 576, 596, 600
- M**
 Maagaard, L., 43
 MacDonald, J. C., 64, 77, 79–82, 94–95, 97–101, 103, 106–107, 112, 115, 187, 218, 532, 629, 675–676, 696
 Machavariani, G. I., 782, 793
 MacIlvaine, J., 74, 516, 534, 598, 696, 673, 675–676
 Macklin, M. G., 148, 518, 529, 532

- Maddy, D., 600
 Madeyska, T., 289, 292, 294
 Maev, G., 218
 Magaritz, M., 816
 Magen, U., 669
 Magnusson, M., 190
 Mahmoud, S., 596–597
 Major, C. O., xvii, xxiii, 63–68, 71–81, 93–98, 100–101, 104, 106, 108–114, 116–117, 147, 190, 192, 219–220, 222, 225, 229, 247–248, 275, 317, 323, 326, 329, 337, 343, 346, 349, 369, 399, 403–404, 406, 432–433, 438–439, 450, 452, 480, 513, 517, 532–534, 567, 598, 625–626, 629–630, 673–678, 684–686, 689–690, 694, 696, 700, 703, 708, 724, 729, 756, 767–768, 797–798, 803–805, 807, 871–875
 Makarenko, D. E., 732, 737, 743–744, 746, 749, 751–752, 755, 769
 Makarenko, M. O., 504, 512
 Makarov, S. O., 223, 247
 Makarova, R. A., 110, 116
 Makkaveev, P. N., 21
 Maksimov, E. V., 432
 Maleev, V. P., 325, 342
 Mallory, J. P., 349, 368, 781, 794
 Malovitsky, Ya. P., 186, 188, 190, 196, 253, 274–276, 431, 477–478, 769, 863–864, 867–868, 872–873, 877
 Malyasova, E. S., 288–289, 294
 Mamedov, A. V., 103, 106, 116, 190
 Mamonov, A. E., 361–362, 369
 Mangerud, J., xxi, xxiii
 Manheim, F. T., 190, 406, 408, 432
 Mann, J. D., xxiii
 Mann, M., 61
 Manolakakis, L., 437
 Marcellinus, A., 635, 648
 Margalitadze, N. A., 729
 Margos, A., 374, 383, 454, 481, 519, 530
 Maricescu-Bilcu, S., 503, 512
 Marinova, E., 469, 478
 Marinski, J., 481
 Markevich, V. I., 493, 495, 512
 Markov, A. A., 673, 696
 Markov, H., 472, 479
 Markov, K. K., 184, 190
 Markova, A. K., 184, 283, 286, 288, 292, 294
 Markova, N. G., 721, 728
 Marks, A. E., 281, 293, 295, 299, 316, 831
 Marlais, S. M., 61
 Marsh, S., 64–65, 77–78, 81, 95, 97, 99–101, 114, 181, 218, 245, 273, 402, 429, 450, 510, 528, 592, 627, 673, 694, 732, 746, 755–757, 764, 805
 Marsset, T., 402
 Martin, L., 473, 831
 Martin, R., 432, 601
 Martini, P., xxii
 Martinson, D. G., 432
 Martynov, V. S., 191, 247, 711, 717, 721–722, 727
 Maslakov, N. A., 247, 276
 Masson, V., 61
 Masters, P. M., 831
 Mateva, B., 503, 512
 Matioukhine, A. E., 281, 295
 Matthews, A., 832
 Matthews, R. K., 246, 248
 Matyushin, G. N., 147, 348, 369,
 Maucher, A., 540, 565
 Maurrasse, F., 247
 Maximowa, M., 337, 342
 Mayer, E. M., 190, 193
 Maynard, N. G., 68, 607, 629
 McAvaney, B., 61
 McCann, S. B., 70
 McClusky, S. C., 559, 566, 581, 596–598, 600
 McCormac, F. G., 343, 488, 535
 McFarlane, N., 61
 McGann, M., 432, 601
 McHugh, C., 192, 433
 McKenzie, D. P., 541, 566, 597, 600
 McKinney, C., 283, 295

- McMahon, A., 793–794
 McManus, J. F., 240, 242, 247, 250
 McSweeney, K., 529
 Meehl, G. A., 49, 62
 Meier, H. E. M., 62
 Meischner, D., 72, 80, 194, 276
 Meisner, L. B., 186, 766, 771–772
 Mel'nik, E. V., 190
 Mel'nik, V. I., 181–182, 194, 218, 263, 275, 410, 426, 429, 769, 861–866, 871
 Meldahl, K., 44
 Mellaart, J., 667–668, 677, 696
 Menozzi, P., 490, 510, 512
 Mercier de Lepinay, B., 558, 565, 596
 Meriç, E., 45, 188, 190, 197, 247, 274, 550, 552, 562, 566, 569, 588, 593–595, 597, 600
 Merklin, R. L., 184
 Merkt, J., 451
 Merpert, N. Ya., 311, 316, 350–354, 368, 370
 Meskell, L., 529, 532
 Mesolella, K. J., 230, 246, 248
 Messina, C., 44
 Mestel, R., 190
 Métivier, B., 534
 Meyer, B., 558, 565, 592, 595–596
 Michaeli, A., 817
 Michaelis, W., 451
 Michaud, J.-F., 638, 649
 Michel, E., 250
 Michova, E., 454, 478
 Micklin, P. P., 110, 116
 Miedema, J., 795
 Mikadze, I. S., 185
 Mikhailesku, C., 283, 286, 292, 295
 Mikhailesku, K., 184
 Mikhalevich, V. I., 190
 Miki, Z., 529
 Milanovsky, E. E., 742, 767
 Militarev, A., 780, 794
 Millard, A. R., 189
 Miller, Jr, F. D., xxiii
 Miller, N., 674, 677, 685–686, 695
 Millero, F. J., 13, 19
 Milliman, J. D., 674, 696, 798, 807
 Mills, S., 529
 Milne, G. A., 799, 807
 Mirau, N. A., 531
 Mirlin, Ye. G., 566
 Mirovský, J., 795
 Mishin, A., 596–597
 Mitchell, E. D., 793, 795
 Mitchell, J. F. B., 49, 61
 Mitin, L. I., 769
 Mitropol'sky, A. Yu., 64, 188, 218, 220, 273, 429, 431, 631, 717, 719, 727, 752, 767, 769, 861
 Mitrovica, J. X., 799, 807
 Mitterer, R. M., 247
 Mix, A. C., 52, 61, 232, 248
 Möbius, K., 24, 44
 Mogoşanu, F., 528, 533
 Molchanov, E. F., 322, 342
 Möller, P., xxiii
 Molodykh, I. I., 191, 711, 717, 721–722, 727, 836, 838–840, 842, 845–848, 853–854
 Mommsen, T., 648
 Monakhov, I. B., 219
 Moncharmont Zei, M., 193
 Monigal, K., 293–295
 Montaggioni, L., 246
 Moore, A. M. T., 813, 817
 Moore, Jr, T. C., 432
 Morgunov, I. I., 64, 68, 71, 73, 629
 Morgunov, Yu. G., 219
 Morkoc, E., 21
 Mörner, N.-A., 228, 248, 471, 479
 Morozova, T. D., 148
 Morris, A., 559, 566
 Morrison, P., 191
 Moskalenko, V., xvii, xxiii, 64–66, 68, 71–72, 77–80, 93, 95, 100, 110, 117, 147, 192, 220, 248, 275, 317, 343, 346, 369, 404, 433, 452, 480, 513, 534, 567, 598, 630, 673–676, 696, 724, 729
 Motnenko, I. V., 250

- Motta, G., 628–629
Mudie, P., 64, 71–72, 77, 79–82, 89, 94–95, 97–101, 103–108, 111–112, 114–116, 144, 181, 187, 191, 218, 245–246, 273, 333, 335, 340, 342, 348, 367, 402, 450, 461, 463, 473, 479, 528, 532, 563, 592, 627, 629, 675–676, 678, 694, 696, 732, 755–757, 764
Mukhina, V. V., 396, 404
Muller, A. H., 26, 45
Müller-Beck, H.-J., 374, 384
Mungov, G., 472, 481
Munteanu, M., 504, 512
Muramoto, J. A., 439, 452
Muratov, M. V., 576, 597
Muratov, V. M., 273, 725, 720
Murawski, S. A., 45
Murray, J. W., xi, xvi–xvii, xxiii, 1, 3, 6–7, 11, 13–15, 17–21
Murray, Jo. W., 191
Murray, K. J., 18
Murray, S. P., 110, 117
Muscheler, R., 510
Musich, L. F., 432
Myers, P. G., 66
- N**
Nábělek, J. L., 592
Nadariya, M., 596–597
Nadel, D., 795, 811, 817
Nakada, M., 807
Nash, D., 777, 791
Naumenko, P. I., 711, 729
Naumenko, P. N., 191, 711, 717, 721–722, 727
Navarro, S., 592
Nawrocki, J., 292
Nazarov, V. V., 312, 316
Nazik, A., 597
Neber, A., 819–821, 826, 830–831
Nechaev, V. I., 148, 189, 318
Neev, D., 809, 816–817, 819, 830
Neff, E. D., 477, 676, 695
Nehoroshev, P. E., 280, 295
Neishtadt, M. I., 721, 728, 835, 837, 843, 850, 852
Neprochnov, Yu. P., 394–395, 403–404, 543, 566, 597
Neprochnova, A. F., 566
Nesmeianov, S., 148, 713, 728, 743, 762, 767
Netser, M., 830
Nettle, D., 791, 796
Neuman, G., 1, 4, 19
Nevevskaya, L., xii, xvii, 68, 71, 147, 187, 191, 394, 396, 398, 403, 406–407, 432, 441, 452, 567, 605, 629, 711, 714, 717, 722, 724, 728, 767
Nevevsky, E. N., 68, 71, 191, 220, 262, 263, 271, 275, 374, 384, 406, 423, 426–427, 432, 441, 452, 606, 629–630, 711, 728
Newman, J. B., 695, 674, 679
Newman, P., 776, 780, 793–794
Newton, M. W., 483
Nichols, J., 775–776, 778, 780, 782, 787–788, 792, 794–795
Nikiforov, L. G., 260, 267, 273–275
Nikishin, A. M., 576, 597
Niklewski, J., 461, 479
Nikolaev, S. D., 66, 147, 220, 225, 237, 241, 248, 454, 467, 479, 605, 630
Nikolaev, V. A., 190
Nikolaev, V. I., 225, 237, 241, 248
Nikolov, Kh., 740, 768
Nikolskaya, O., xxiii
Nikonov, A. A., 191
Nilsen, T. H., 564
Nir, Y., 802, 806
Nisi, M. F., 806
Noakes, J., 184, 403
Noiret, P., 295
Noomen, R., 596
Nordberg, K., 474
Nordstrom, K. F., 70, 83
Norman, T., 611–612, 625, 630
Normand, A., 65, 67, 69, 71, 404
Novosad, V. V., 341

Novosel'sky, F. A., 191, 247, 711, 717,
721–722, 726–727, 835,
838–839, 846–849, 851, 854

Nur, A., 559, 566

Nurk, A., 794

Nurlu, M., 600

Nuttal, C. P., 583, 595

Nuzhnyi, D. Yu., 376, 384

Nuzzio, D. B., 18

O

O'Connel, M., 481

Obruchev, D. B., 403

Obukhovskaya, I. N., 725

Odé, C., 795

Oganezov, P. S., 721, 726

Oguz, T., 3–7, 13, 18–20, 566, 696,
673

Okay, A. I., 576, 585, 587, 597, 599

Okay, N., 597

Oktay, F. Y., 65, 80, 194, 218, 402, 451,
475, 548, 550, 553, 555, 557–559,
562, 564–565, 594, 597, 599–601,
615, 628–630

Okyar, M., 65, 220, 563, 611–612, 630

Olshitsky, S. P., 429

Olson, D. B., 110, 116

Onal, M., 576, 597

Önalın, M., 599

Öncel, A. O., 576, 596

Ongan, D., 65, 67–69, 71–72, 78, 82,
95, 103, 115, 144, 181, 184, 402,
429, 450, 473, 552, 558, 562–564,
593, 603, 627–628

Opdyke, N. D., 231, 237–238, 248

Orachev, A., 471, 479

Oral, M. B., 559, 566, 581, 597–598

Orbigny, A. D., 191

Orel, V. E., 790, 795

Orlova, M. I., 588, 598

Orschiedt, J., 293–295

Oschmann, W., 45

Östlund, H. G., 11, 20

Ostrovsky, A. B., 65, 94, 182, 191, 223,
239, 248, 275, 260–261, 273, 395,

398, 403, 406, 429, 432, 471, 479,
626, 628, 630, 711–712, 714, 717,
720–723, 725, 728, 732, 743, 750,
753, 755, 757, 762, 764, 767–768

Oswald, F., 539–540, 566

Oswald, R. L., 795

Osychnok, V. V., 343

Otte, M., 282, 293–295, 315

Otto-Bliesner, B. L., 49, 58, 62

Oudintzeva, O., 188, 431, 477

Ouzounis, A., 596–597

Ovchinnikov, I. V., 300, 316

Overbeck, R., 430

Overmann, J., 6, 20

Ovid, 635, 649

Ovsianyi, E. I., 767

Özacar, A., 595–596

Özden, S., 600–601

Özdoğan, M., 349, 369, 490, 512, 590,
597, 635, 649, 651, 662–663,
665–669, 696, 703, 709

Özel, E., 594

Özer, A. M., 488

Özer, N., 568

Özhan, G., 588–589

Özsoy, E., 5, 8–10, 18–20, 108, 116,
388, 403, 566, 673, 696

Özturan, M., 80

Özturgut, E., 2–3, 18

Öztürk, B., 593

Öztürk, H., 192, 593, 598

Öztürk, K., 548, 550, 553, 555, 558–559,
562, 565

P

Pagava, S. B., 183, 721, 726

Pakhomov, M. M., 191

Pakhomova, S. V., 21

Palamarev, F., 183

Palatnaya, N. N., 191, 711, 717, 721–722,
727–728, 836, 842, 847, 851, 856

Palienko, E. T., 191, 711, 717, 721–722,
727

Palo, T., 794

Paluska, A., 598

- Pamir, H. N., 548, 557, 566
 Pamukciyan, K., 636, 639, 640–641, 649
 Panayotov, I., 476, 530, 665, 668, 677, 694
 Panchenko, G. A., 189
 Panin, A., 147–148
 Panin, N., 65, 67–71, 78, 81, 189, 192, 196, 387–388, 395, 399–400, 403–404, 432, 440, 450, 452, 516, 533, 600, 629, 631, 747, 768
 Panin, S., 388, 399–400, 403
 Paradissis, D., 596–597
 Paramonova, N. P., 187
 Parishkura, S. I., 324–325, 342
 Parker, W., 197
 Parlichev, D., 479
 Parpola, A., 794
 Parrenin, F., 249
 Parsons-Hubbard, K. M., 45
 Parunin, O. B., 711, 719, 728–729, 768, 841, 854, 856–857
 Parzinger, H., 490, 512
 Pashkevich, G. A., 182, 283, 286, 292, 295, 297, 306, 311, 317, 377–378, 384, 499, 513
 Pateev, M. A., 429
 Paterne, M., 451, 534
 Patokova, E. F., 310, 317
 Patou-Mathis, M., 286, 292, 295
 Paul, E. F., xxiii
 Paul, J., xxiii
 Pauli, V. L., 185
 Păunescu, A., 286, 295, 355, 369, 374, 384, 500, 513, 520, 528, 533
 Pavlidis, S. B., 145
 Pavlov, P. Yu., 281, 294
 Pawley, A. K., 786, 795–796
 Pawlikowski, M., 518, 533
 Payton, C. E., 734, 768
 Payton, R., 529
 Pazyuk, L. I., 195, 277
 Peacock, D. C. P., 559, 566
 Pedersen, T. F., 16, 18, 20
 Peitchev, V., 479
 Peltier, W. R., 51, 61–62, 195, 249
 Peneva, E. L., 7, 21
 Peng, T. H., 11, 17
 Perch-Nielsen, K., 432
 Pérès, J. M., 24, 30, 45
 Perinçek, D., 590, 598
 Perlès, C., 503, 513, 528, 533
 Pernicka, E., 597, 601, 669, 676–677, 686, 696
 Perry, C. A., 354, 369
 Peter, Y., 596–597
 Peters, J., 529
 Peterschmitt, J. Y., 61
 Petersen, C. G. J., 24, 45
 Petersen, J. K., 45
 Peterson, D. A., 782, 795
 Petrenko, L. V., 187, 719, 726
 Pettijohn, F. J., 406, 433
 Pettit, P., 315
 Pettitt, P. B., 283, 294–295, 535
 Petzold, C., 467, 479
 Pfannenstiel, M., 66
 Pfennig, N., 20
 Pfister, M., 568
 Pflaumann, U., 62
 Philip, H., 598
 Philippson, A., 557, 566
 Phillips, T. J., 61
 Piazza, A., 510, 512
 Picard, J., 24, 27, 30–31, 45
 Pienazek-Sikora, M., 705, 709
 Pignatti, S., 324, 342
 Piotrovskaya, T., 479
 Piotrowski, A. M., 532–533
 Piper, D. J. W., 43, 181
 Piper, J. D. A., 569
 Piperao, M., 528, 533
 Piperno, D. R., 787, 795
 Pirazzoli, P. A., 605, 630
 Pirogov, A. N., 145
 Pirumova, L. G., 186, 219
 Pisiás, N. G., 232–233, 248, 409, 431–432
 Pitman, III, W. C., xii, xvii, xx–xxi, xxiii, 64, 66, 68, 71–72, 77, 80, 93,

- 95, 100, 106, 110, 117, 147, 192,
220, 248, 275, 298, 302, 317, 343,
349, 361, 369, 372, 384, 399, 404,
433, 438–439, 449–450, 452, 480,
492, 507, 513, 516, 534, 563, 573,
576–577, 594, 598, 604, 606–607,
621, 630, 653, 669, 673–678, 724,
729, 768–769, 797, 807
- Pluet, J., 605, 630
- Pobedonostsev, S. V., 762, 764
- Podgorodetsky, P. D., 325, 343
- Podshuveit, V., 196, 404, 600, 631
- Podymov, O. I., 21
- Pokatilov, V. P., 189
- Polat, Ç., 91–92, 108, 117
- Pollard, D., 61
- Polozhevets, M. F., 191, 711, 717, 722,
727
- Polupan, N. P., 324, 342
- Polyakov, A. S., 64, 68, 71, 189,
193, 219–220, 249, 276, 384,
433, 631
- Pomerancblum, M., 819, 831
- Ponomarenko, V. D., 191, 711, 717,
721–722, 727
- Pop, E., 192
- Popescu, I., 65, 67–69, 70–71, 78, 81,
189, 387, 397–398, 404, 432, 437,
629
- Popescu, S.-M., 65, 68, 70–71, 78, 81
437, 448, 452, 629
- Popov, G. I., 65, 147, 192, 395, 404,
516, 533
- Popov, V., 504, 513
- Popp, N., 516, 533
- Porat, N., 822, 829, 831
- Porath, Y., 808
- Porozhanov, K., 470, 479
- Porozhnyakova, O. M., 147–148
- Porter, P. E., 406, 433
- Porunin, O. B., 220, 479
- Posamentier, H. W., 398, 404
- Pospelova, G. A., 831
- Potapova, L. I., 64, 68, 71, 193, 220,
249, 404, 433, 631
- Potekhina, I. D., 307–308, 317, 357,
361, 363, 370
- Potetsch, Th., 598
- Potter, E.-K., 234, 248
- Potter, G. L., 61
- Powell, E. N., 24–27, 43, 45
- Praslov, N. D., 292, 294, 296, 346, 350,
368–369, 383
- Pratt, M. L. J., 276
- Preisinger, A., 269–270, 275, 456, 480
- Prell, W., 432
- Prentice, I. C., 61, 110, 117
- Prest, V. K., 56, 61
- Price, R. A., 325, 343
- Price, T. D., 490, 513, 535–536, 831
- Prilepin, M., 596–597, 600
- Pringle, M., 600
- Prinz, B., 528, 533
- Prokofieva, N. I., 726
- Prosek, J., 485, 488
- Prutsky, N. I., 735, 737, 750, 768
- Psuty, N. P., 70, 83
- Puchalski, S., 44
- Puglisi, C., 806
- Pumpelly, R., 653, 669
- Purcell, A., 797–802, 807
- Purlichev, D. G., 218, 740, 768
- Put', A. L., 711, 729
- Put', L. L., 192
- Puzachenko, A. Yu., 294
- R**
- Raban, A., 801, 807–808
- Radovanović, I., 520, 528, 531,
533–534
- Räisänen, J., 60, 62
- Rajab, R., 816
- Ramsey, C. B., 294
- Ramstein, G., 61
- Randall, D. E., 559, 566
- Rangin, E., 558, 565
- Rangin, C., 548, 550, 558–559, 562,
564, 596
- Ranov, V.A., 831
- Rao, K., 61

- Rapp, Jr, G., 806
 Rashad, M., 669
 Ratcliffe, R., 790, 795
 Rauzer-Chernousova, D. M., 192
 Raymond, A., 45
 Raynaud, P., 62
 Rebaï, S., 589, 598
 Reches, Z., 816
 Reeburgh, W. S., 15, 20
 Rees-Jones, J., 295
 Reeves, B. O. K., 376–377, 384
 Reid, D. F., 588, 598
 Reilinger, R. E., 559, 566, 572, 581,
 595, 597–598, 600
 Reimer, P. J., 31, 45, 343, 457, 480,
 488, 517, 535
 Reineck, G.-E., 406, 421–422, 433
 Rekovetz, L., 340
 Rendell, A. R., 21
 Renfrew, C., 311, 315, 317, 366–367,
 385, 490, 510–511, 513, 522, 534,
 677, 696, 790–791, 793–796
 Repeta, D. J., 16, 20
 Reuter, J. H., 408, 430
 Richards, F. A., 15, 20
 Richards, M., 535
 Richardson, D. M., 343
 Rikli, M. A., 323, 343
 Rimani, E., 816
 Rind, D., 61
 Rindsberger, M., 817
 Ringe, Jr, D. A., 776, 781, 796
 Rink, W. J., 283, 295
 Ritte, M., 826, 831
 Robba, E., 28–29, 31, 43
 Roberts, N., 634, 648
 Robertson, A. H. F., 596
 Robinson, A. G., 540–541, 543,
 564–565, 567, 569, 576, 598
 Robinson, A. H., 108, 115
 Rochon, A., 64, 71–72, 77, 79–81, 89,
 94–95, 99, 101, 103–104, 106, 108,
 111–112, 114, 116, 144, 181, 191,
 218, 246, 340, 342, 348, 367, 402,
 450, 479, 563, 676, 678, 696
 Rockwell, T., 578, 598
 Rodier, G., 557, 567
 Rodin, L. E., 299, 317
 Rodionov, D. A., 409, 433
 Roebroeks, W., 291, 293
 Rogachev, A. N., 279, 281–282, 292,
 294, 296
 Roginsky, Ya. Ya., 294
 Rögl, F., 567
 Rohl, D. M., 147
 Rohling, E. J., 66–67, 72, 80, 111, 113,
 116, 194, 276, 308, 317, 439, 441,
 443, 452, 492, 513, 558, 565
 Rollefson, G. O., 826, 831
 Romanov, A. S., 18–19
 Romanova, G. P., 315–316
 Ron, H., 566, 831
 Ronen, A., 806, 819–820, 824–826,
 829–832
 Roodenberg, J. J., 703–704, 709
 Ropes, J. W., 24, 45
 Rosen, B., 830
 Rosen, P., 830
 Rosenberg, G. D., 66, 182, 218, 246,
 340, 474, 529, 593, 628, 673, 675,
 678, 681–684, 694
 Ross, D. A., xii, xvii, 18, 67–68, 74, 83,
 87–88, 184, 190, 192, 220, 427,
 430, 432, 441, 451–452, 481, 516,
 530, 534, 550, 552, 558, 562, 566–
 567, 576, 594, 598, 607, 610, 622,
 628–630, 695, 673–676, 696, 732,
 743, 755, 764, 768–769
 Ross, M. D., 786, 794–796
 Rossignol, M., 819, 832
 Rossignol-Strick, M., 333, 343, 827,
 829
 Rotar', M.F., 191, 220, 250, 276–277,
 434, 711, 717, 721–722, 727, 730
 Rothfus, T.A., 44
 Rotstein, Y., 581, 590, 598
 Rougerie, F., 246
 Roussos, N., 576, 598
 Roux, J. C., 832
 Rowbotham, G., 600

- Rowe, G. T., 45
 Rowe, M., 247
 Royer, J. F., 61
 Rubenstone, J. L., 61
 Rubtsov, N. I., 322, 342
 Rudat, J. H., 598
 Ruddiman, W. F. I., 232, 248, 478
 Rudnev, Yu. P., 725
 Rudolph, W., 668–669
 Ruffman, A. S., 432
 Rukhadze, L. P., 723, 729
 Rukhin, L. B., 408–409, 433
 Runnels, C. N., 249, 490, 510, 514, 662, 669
 Rusakov, G. V., 76
 Russell, N., 523, 534
 Russell, T., 512
 Rutherford, M. M., 567
 Ryabinin, A. L., 727
 Ryan, W. B. F., xii–xiii, xv–xvii, xx–xxiii, 63–68, 71–74, 76–80, 93–101, 103–104, 106, 108–111, 112–114, 117, 126, 147, 190, 192, 219–220, 222, 236, 244, 247–248, 268–269, 271, 275, 298, 300, 302, 317, 335, 343, 346, 349, 361, 369, 372, 384, 396, 398–399, 403–404, 406, 424, 432–433, 437–439, 441, 449–450, 452, 464, 466–468, 480, 492, 507, 513, 516, 532–534, 557–558, 562–563, 567, 573, 576–577, 588, 594, 598, 604, 606–607, 621–622, 625–626, 629–630, 653, 669, 673–676, 689–690, 696, 724, 729, 731–732, 743, 755–757, 763, 767–769, 797–798, 804, 807
 Rybak, A. R., 341
 Rychagov, G. I., 146–147
 Rysgaard, S., 45
- S**
 Saarnisto, M., xxiii
 Saatçılar, R., 558, 565, 576, 596, 599
 Sachs, P. L., 21
 Sadchicova, T. A., 145
 Sahin, M., 600
 Sakaguchi, Y., 815, 817
 Sakamoto, C. M., 18
 Sakiñç, M., xvii, xxiii, 64–66, 68, 71–72, 77–80, 92–93, 95, 100, 107, 110, 115, 117, 146–147, 186, 192, 218, 220, 245, 248, 277, 317, 343, 346, 369, 403–404, 433, 452, 473, 480, 513, 534, 540, 555, 557, 559, 563, 565–569, 576, 581, 583, 585, 593, 595, 597–601, 629–630, 673–676, 695–696, 724, 729, 768, 807
 Salameh, E., 816
 Sälgeback, J., 44
 Salmons, J. C., 792, 796
 Salomie, G., 768
 Samsonov, A. I., 195, 218–219, 277
 Samuelsson, P., 62
 Sanadze, A. A., 726
 Sancar, U., 245
 Sand, M. K., 45
 Sandbeck, K. A., 20
 Sandval, E., 569
 Sanli, I., 559, 566, 596–598
 Santer, B. D., 61
 Saposhnikov, I. V., 360, 369
 Sapozhnikova, G. V., 360, 369
 Sari, E., 65, 68, 71–72, 78, 82, 181, 429, 473, 563, 627
 Sarnthein, M., 51–52, 62, 513
 Şaroğlu, F., 541, 543, 567, 569, 576, 599
 Savin, M. T., 185, 764–765
 Sayar, C., 555, 567
 Sayles, F. L., 406, 423, 429, 432
 Schäfer, W., 29, 45
 Schäfer-Neth, C., 62
 Schick, T., 817
 Schijf, J., 15, 20
 Schilman, B., 821, 828–829, 832
 Schindler, C., 568, 600
 Schlesinger, M. E., 51, 61–62
 Schlüchter, C., 633, 645, 648–649
 Schmelzer, I., 72, 80, 194, 276
 Schmiedl, G., 66, 79, 276, 343, 631

- Schneider, A. M., 668
 Schnepf, G., 818
 Schnurrer, F., 636, 638, 640–641, 649
 Scholten, R., 261, 275, 439, 452, 557, 567, 607, 630–631, 745, 769
 Schöne, B. R., 24, 45
 Schopen, L., 639, 648
 Schrijver, P., 789, 791, 796
 Schröder, B., 806
 Schultze-Westrum, H. H., 540, 565
 Schulz, M., 62, 508, 513
 Schwarcz, M. P., 247
 Schwartz, M. L., 628
 Schwarz, H. U., 430
 Scott, A. C., xxii
 Scott, M., 529
 Scott, O., 566
 Seber, D., 569
 Seeger, H., 596–597
 Seferiades, M., 514
 Sefunç, A., 568
 Seguenza, G., 193
 Seidov, D., 62
 Seilacher, A., 26, 45
 Seilenthal, T., 794
 Sejr, M. K., 24, 45
 Seleshchuk, L., 184
 Selivanov, A. O., 64–66, 80–81, 148, 194, 249, 406, 433–434, 452, 631
 Seliverstov, Yu. P., 712, 725
 Selley, R. C., 406, 421–422, 433
 Semenenko, V. N., 65, 71–72, 80, 193, 253, 260, 275, 864, 866, 870–874
 Sen Gupta, B. K., 193, 197
 Sen, S., 576, 588, 590, 596, 599
 Şengör, A. M. C., 540–544, 548, 550, 558–559, 562, 564–565, 567–569, 572–573, 575–576, 590, 592–593, 596–597, 599, 631
 Serchuk, F. M., 45
 Serebryanny, L. R., 263, 265, 273, 715, 729, 840, 843, 845, 848
 Sevinç, K. Y., 550, 552, 562, 566
 Seyir, H. I., 64–66, 68, 71–72, 77–80, 404, 534, 567
 Seymen, I., 575, 599
 Sgarrella, F., 193
 Shackleton, J. C., 249, 528, 534, 798–799, 806, 808
 Shackleton, N. J., 104, 117, 229–233, 237–239, 241, 248–249, 432, 534, 588, 593–594, 798–799, 806, 808
 Shacknai, E., 830
 Shali, F., 146
 Shantyr', S. P., 344
 Shapavalov, S. N., 431
 Sharonova, Z. V., 831
 Sharvit, J., 801, 806
 Shaw, P. A., 70
 Shchedrina, Z. G., 193
 Shcheglov, A. P., 767
 Shchekina, N. A., 324, 343
 Shchelinsky, V., 479
 Shcherbakov, F. A., 64, 68, 71, 73, 185, 193–194, 219–220, 222, 224–225, 248–249, 260–263, 269, 271, 275–276, 292, 373–374, 383–384, 389, 392–393, 403–404, 406, 424, 426–427, 432–433, 479–480, 516, 534, 605, 622–623, 629, 631, 711, 723, 726, 729, 743, 746–747, 752, 755, 757, 765, 767–769, 852, 856, 859
 Shel'ting, S. K., 182, 731, 773
 Shelyag-Sosonko, Yu. R., 323, 343
 Shennan, S., 512
 Shepard, F. P., 406, 433
 Sherratt, A., 523, 534
 Shevtsov, V., 184
 Shilik, K. K., 193, 297, 310, 312–314, 317, 406, 433, 471, 480, 491, 513, 711, 723, 729, 753, 769, 840–841
 Shilyaev, D. V., 734, 766
 Shimansky, V. N., 403
 Shimkus, K. M., xvii, xxiii, 64–68, 71–72, 77–80, 82, 93, 95, 100, 110, 117, 147, 193, 219–220, 231, 248–249, 261, 263, 275–276, 317, 343, 346, 369, 404, 433, 438, 451–452, 465, 467, 478, 480, 513, 534, 567,

- 598, 625, 630–631, 673–676, 696,
724, 729, 740, 742–743, 766, 768–
769, 807
- Shipilov, A. L., 431
- Shirman, B., 808
- Shishkina, O. V., 193, 406, 408, 423, 433
- Shishlina, N. A., 478
- Shkativa, V. K., 148
- Shlyunikov, V. A., 273
- Shlyukov, A. I., 719, 728–729
- Shmuratko, V. I., 66, 221, 229–233,
236, 239, 241–242, 247, 249,
258–260, 263, 265, 272, 276, 406,
424, 426–428, 431, 433, 607, 629
- Shnitnikov, A. V., 405–406, 424, 428,
434, 508, 513
- Shnyukov, E. F., 181, 186, 187, 192,
193, 194, 218, 220, 225, 247, 249,
253, 263, 268, 275, 276, 395, 404,
406–407, 409–410, 414, 422–424,
426–428, 430, 434–435, 711, 727,
729, 743–744, 746, 749, 751–752,
755, 763–765, 769
- Sholokhov, V. V., 219
- Shopov, V. L., 68, 73–74, 218, 454,
457, 459, 465, 467–468, 477,
480
- Shornikov, E. I., 194
- Showers, W., 510
- Shteglov, A., 479
- Shtseglov, A. P., 725
- Shuisky, Yu. D., 251, 267, 269, 276
- Shukurov, A., 307–308, 315, 498, 500,
511
- Shvaiko, T. N., 317, 382
- Shvebs, G. I., 80
- Siani, G., 516, 534
- Sibirchenko, M. G., 187
- Siddall, M., 72, 80, 194, 260, 268–271,
276
- Sidenko, O. G., 65, 71–72, 80, 181
- Sidorchuk, A., 147–148
- Silenzi, S., 807
- Simakova, A. N., 294
- Simmons, A. H., 831
- Simmons, M. D., 540, 565
- Simpson, D. J., 20
- Şimşek, M., 65, 194, 402, 451, 475,
548, 550, 553, 555, 558–559, 562,
564–565, 594, 599, 628–629
- Simstich, J., 62
- Singh, I. B., 433
- Sinitsyn, A. A., 279, 281, 283, 296,
346, 369
- Sirakov, N., 533
- Sirakova, S., 533
- Sirenko, N. A., 195, 375, 384
- Sivan, D., 797–798, 801, 808
- Siyako, M., 576, 588, 599
- Skakun, N. N., 503, 512
- Skempton, A. W., 409, 434
- Skiba, S. I., 65, 191, 194, 248, 403,
432, 479, 516, 534, 630, 711–712,
722–723, 725, 728–729, 768
- Skryabina, N. G., 65, 191, 194, 248,
403, 432, 630, 711–712, 717,
722–723, 725, 728, 732, 734, 754,
763, 765, 767–768
- Slavova, K., 65
- Slipchenko, P. S., 191, 711, 717, 721–
722, 727
- Sluka, V. P., 721, 730, 843
- Smart, D., 700, 709
- Smeed, D. A., 72, 80, 110, 116, 194,
276
- Smeets, R., 783, 796
- Smith, A. D., 194, 576, 599
- Smith, J. S., 673, 677–678, 684–686,
694, 700, 703, 708
- Smith, P., 832
- Smith-Stark, T. C., 792
- Smyntyna, E. V., 297, 317, 500–501,
513–514
- Sobczyk, K., 294
- Sobotovich, E. V., 717, 719, 726–729,
187–188
- Soffer, O., 294, 346, 350, 368–369, 383
- Sofianos, S. S., 110, 117
- Sokoloff, D., 315
- Sokolov, B. S., 717, 728

- Solakov, D. P., 687, 689, 695
 Solov'ev, B. L., 723, 729
 Solov'ev, V. V., 194, 766
 Solov'eva, N. A., 194, 220
 Solov'eva, R. N., 67, 82, 766
 Solovyov, S. L., 704, 709
 Solyankin, E. V., 223, 249
 Sorokin, V. M., 64, 68, 71, 188–189,
 193–194, 205, 219–220, 249, 260,
 262, 274, 404, 433, 479, 631, 757,
 767
 Sorokin, Yu. I., 1, 20
 Sosnovsky, N. F., 732, 734, 754, 763,
 765–766
 Sourkova, G. V., 62
 Soustal, P., 649
 Souvatzi, S., 522, 535
 Spencer, D. W., 15, 20–21
 Sperber, K. R., 61
 Sperling, M., 66, 79, 260, 276, 335,
 343, 607, 626, 631
 Spezzaferri, S., 28, 32–33, 42, 45,
 182–183
 Spiridonova, E. A., 146, 288–289, 294
 Spitz, A., 451
 Spriggs, M., 795
 Spurk, M., 343, 488, 535
 Srejovič, D., 490, 514, 528, 534–535,
 677, 696
 Staff, G. M., 24, 45
 Staneva, J., 21
 Stanko, V., 194, 304, 306–307, 315,
 340, 360, 369, 371, 374, 377–379,
 382, 384–385, 495, 498, 500, 511,
 514
 Stanley, D. J., 463, 480, 557–558, 562,
 567, 599, 607, 630–631
 Stanley, J.-D., 815, 818
 Stanton, R. J., 43
 Stapert, D., 481
 Starkin, A. V., 376, 382
 Starking, A., 340
 Starostenko, V. I., 767
 Starovoytov, A. V., 188
 Stattegger, K., 62
 Steele, J., 512
 Stefanovich, M., 474, 478, 488
 Steffensen, J. P., 247
 Stein, G. J., 699, 709
 Stein, M., 816
 Steininger, F. F., 555, 567
 Stempien, J., 44
 Stepanov, D. L., 717, 728
 Stepanov, Yu. V., 512
 Stern, E., 816–817
 Sterrett, J. R. S., 343
 Stetsyuk, V. V., 191, 711, 717, 721–722,
 727
 Stevenson, A. C., 475
 Stewart, C., 529
 Stewart, K., 1
 Stewart, K., 817
 Stolbova, O. V., 790, 795
 Stolyar, A. D., 306, 317
 Stordeur, D., 826, 832
 Stouffer, R. J., 62
 Stoyanova, R., 454, 478, 480
 Stoylovsky, V. P., 276
 Strabo, 337, 343, 635, 649
 Strakhov, N. M., xi, xvii, 182, 218,
 406–407, 423, 429, 434, 439, 441,
 450, 764
 Stratil-Sauer, G., 539, 567
 Straub, C., 572, 581, 590, 595, 600
 Strauss, S. H., 343
 Street, M., 315
 Street-Perrot, F. A., 478
 Striker, C. L., 484
 Stuiver, M., 31, 45, 328, 343, 457,
 480, 486, 488, 508, 511, 517, 535
 Stupina, L. V., 247
 Subbotin, L. V., 309, 318, 369, 360,
 506, 514
 Suc, J.-P., 343, 452
 Suguio, K., 473
 Sulerzhitsky, L. D., 296
 Sulimov, I. N., 250
 Sümengen, M., 595
 Summers, G. D., 488, 668–669
 Sunal, G., 592

- Suprunova, N. I., 65, 191, 248, 403,
432, 630, 711–712, 723, 728, 768
- Sur, H. I., 20, 566, 673, 696
- Sütçü, İ. F., 585, 593
- Sutton, S. B., 528–529, 535, 806, 829
- Suzanne, P., 576, 600
- Sveinbjörnsdottir, A. E., 247
- Svensden, J. I., xxiii
- Svensson, N. O., 56, 62
- Svezhentsev, Yu. S., 296
- Svgai, T., 595
- Svitoch, A. A., 66–67, 76, 148, 194,
225, 249, 406, 434, 448, 452, 468,
478, 480, 604–606, 631
- Swiny, S., 832
- Syktus, J., 61
- Sytnyk, O. S., 280, 292, 296
- T**
- Taldenkova, E., 480
- Taner, G., 550, 552, 562, 566
- Taniş, T., 599
- Tappan, H., 189
- Tarasov, P. E., 62, 110, 115
- Tari, E., 589, 600
- Tarter, S. L., 478–488
- Tatar, O., 600–601
- Tatartsev, S. V., 293
- Taylor, K. E., 49, 61
- Taymaz, T., 194, 576, 594, 599–600
- Tchapalyga, A. (see also Chepalyga),
67, 69, 95, 103, 115, 144–145,
402, 406, 434, 450, 548, 552, 558,
562–564, 576, 588, 593–595, 600,
628
- Tchepalyga, A. (see also Chepalyga),
181, 195, 144–145, 547, 563–564,
568
- Tchernov, E., 831
- Tealeb, A., 596–597
- Tebo, M., 15, 18, 21
- Tekeli, O., 594
- Teksöz, M., 595–596
- Telegin, D. Ya., 303–304, 306–307,
318, 355–359, 361, 363, 369–370
- Telelis, I. G., 639, 649
- Teller, J. T., xxii–xxviii
- Temel, A., 83, 64, 616, 628
- Temren, A., 594
- Terquem, O., 195
- Terrell, J. E., 794
- Terry, R. C., 44
- Tertychnaya, T. V., 713, 721–722, 727
- Tertychny, N. I., 479, 627, 720, 725,
730, 837
- Terziev, F. S., 251, 277
- Tesson, M., 404
- Thissen, L., 668–669
- Thomas, D. S. G., 70
- Thomas, J., 490, 522, 535
- Thompson, S., 61
- Thorup, K., 598
- Thunell, R. C., 607, 631
- Thurber, D. L., 246, 248
- Tilley, C., 490, 514
- Tillmanns, W., 829
- Timashkova, T. A., 719, 728–729
- Timofeev, P. P., 730, 835, 842–843,
847
- Timofeev, V. I., 361, 370, 512
- Timur, K., 563
- Tisnerat, N., 534
- Titov, V. S., 514
- Tkachenko, G. G., 195, 263, 267–277
- Tkachenko, V. F., 195, 277
- Todorova, H., 456, 466, 469, 474, 478,
480, 488
- Todorova, Kh., 506, 514
- Togonidze, G. I., 721, 726
- Tok, B., 548, 550, 553, 555, 558–559,
562, 565
- Toksöz, M. N., 559, 566, 577, 592,
596–598, 600
- Tolmazin, D., 8, 21
- Tomašových, A., 44
- Toncheva, G., 454, 481
- Tonkov, S., 340, 342, 454, 466, 468,
470, 475–476, 479
- Top, Z., 20
- Topchiev, A. G., 276

- Toropov, P. M., 47
 Torre, F., 694–695, 673–674, 677–678, 684–686, 700, 703, 708
 Toueg, R., 808
 Trashchuk, N. N., 395, 404, 605, 628, 711, 726
 Trask, R. L., 777, 793–794, 796
 Trewartha, G. T., 108, 115
 Triantafyllos, L., 576, 598
 Trimonis, E. S., 231, 249, 597
 Tringham, R., 378, 385, 490, 514, 522, 528, 535
 Troitskaya, T. S., 197, 588, 601, 719, 730, 752, 769, 857
 Trouwborst, R. E., 18
 Truesdale, V. W., 15, 21
 Tryon, D., 795
 Tsagareli, A. L., 711, 717, 726
 Tsalkin, V. I., 303, 318
 Tsatskin, A., 830–831
 Tschepaliga, A. (see also Chepalyga), 64
 Tseitlin, S. M., 292, 295
 Tsereteli, D. V., 195
 Tsetskhladze, G. R., 341, 704–706, 709–710
 Tsoar, H., 817
 Tsvek, E., 309, 318
 Tuboltsev, O. V., 496, 512
 Tufescu, M., 195
 Tugolesov, D. A., 186, 426, 434, 766
 Tugolesov, D. D., 766
 Tuğrul, S., 91–92, 108, 116–117, 403
 Tuite, K., 792, 794, 796
 Tumajanov, I. I., 325, 343
 Tunay, G., 594
 Tunoğlu, C., 247, 274, 550, 552, 562, 566, 595
 Tupakka, S., 532
 Tuplin, C. J., 710
 Tur, H., 80, 548, 550, 553, 555, 558–559, 562, 565
 Turgut, S., 43, 576, 600
 Turlo, S. I., 375, 384
 Tushingham, A. M., 195
 Tüysüz, D., 569
 Tüysüz, O., 540, 569, 576, 600, 631
 Tvyerdokhlybov, I. T., 344
 Tzedakis, P. C., 474, 676, 694, 696
- U**
- Udluft, P., 816
 Uerpman, H.-P., 349, 357, 366–367, 601, 669, 676–677, 686, 696
 Ukav, I., 593
 Ülgen, U. B., 92, 107, 117, 277, 568, 601
 Ullerstig, A., 62
 Uluğ, A., 43, 600
 Unay, E., 548, 558, 564, 594
 Ungureanu, G., 196, 404, 600, 631
 Ünlüata, Ü., 19–20, 108, 116, 403, 566, 673, 694, 696
 Ünsal, I., 550, 552, 562, 566
 Unsöld, G., 430
 Ürgün, M. B., 594
 Ursulescu, N., 490, 514
 Uryson, M. I., 294
 Usenko, V. P., 191, 711, 717, 721–722, 727
 Usinger, H., 481
 Ustaömer, T., 548, 550, 553, 555, 558–559, 562, 565
 Üster, C., 642–644, 649
 Ustinov, V. I., 220
 Ustinovskya, M. I., 189
 Utku, Z., 595
- V**
- Vacher, H. L., 230–232, 241, 247, 249
 Vaisman, V. M., 769
 Vaks, A., 829, 832
 Valdes, P. J., 49, 61–62
 Valla, F. R., 813, 816, 824–825, 830, 832
 Valyashko, M. G., 423, 434
 van Andel, T. H., 249, 490, 510, 514, 528–529, 535, 676, 694, 696, 799, 802, 805–806, 808, 829, 832
 van der Meij, D., 796

- van der Plicht, J., 343, 488, 535
van Hinte, J. E., 432
van Hoof, A. A. M., 831
van Klinken, G. J., 294
van Voorthuysen, J. H., 195
van Weinelt, M., 52, 62
van Zeist, W., 325, 343, 461, 479, 481
Vanchugov, V. P., 385, 705, 710
Vandenbergh, J., 195
Varodin, V., 768
Varushchenko, A. N., 148, 219
Vasil'chuk, A. C., 62
Vasil'chuk, Yu. K., 52, 62
Vasil'ev, I. B., 350–353, 361, 363, 367–368, 370, 491, 511
Vasilieva, I. N., 361, 368
Vaughan, K. B., 830
Veis, G., 595–597
Vekilova, E. A., 303, 318
Veklich, M. F., 195, 232, 249, 324, 343
Velev, V., 183
Velev, S., 455, 481
Velichko, A. A., 92, 106, 108–109, 115, 117, 184, 195, 293–294, 299–301, 315, 318, 341, 384, 402, 430 434, 451, 475, 628
Velkov, V., 535
Vennemann, T., 789, 796
Verbitsky, M. Ya., 51, 62, 256, 262, 277
Verbruggen, C., 481
Vereshchagin, N. K., 288, 296
Vergnaud-Grazzini, C., 831
Verrubi, V., 806
Vesselinov, V., 472, 481
Vettoretti, G., 61
Videiko, M. Y., 311, 318
Vigne, J.-D., 826, 832
Vincent, E., 249
Vinogordov, A. P., 216, 220, 730
Vinogradova, S. N., 727, 835, 837, 843, 850, 852
Vishnyatsky, L. B., 280, 295
Vitelli, K. D., 528, 535
Vladimirov, V. V., 673, 696
Vlasov, M., 147
Vodop'yanova, T. D., 322–323, 343
Vogel, J. C., 44, 188, 596
Voigt, R., 780, 796
Volgina, V. A., 831
Völker, A., 62
Volkov, I. I., 429
von den Dreisch, A., 366–367, 831
von Hammer-Purgstall, J., 636, 638–640, 648
Von Hoff, K. E. A., 557, 568
Vorob'eva, L. V., 197
Voronov, Yu. N., 722–723, 730
Voskoboinikov, V. M., 191, 195, 239, 250, 277, 406–407, 409, 414, 421–424, 426–428, 434–435, 711, 717, 721–722, 727, 730
Vovin, A., 787, 796
Voytek, B., 528, 534–535
Vronsky, V. A., 333, 344
Vul'f, E. V., 325, 344
Vybornov, A. A., 350–353, 361, 363, 367–368, 370
Vyed', I. P., 322, 344
- W**
Waelbroeck, C., 234–236, 240–241, 243, 250
Wagner, G. A., 597, 601, 669, 676–677, 686, 696
Wagner, J. A., 648
Wagner, W., 816
Wahl, J., 513
Wakshal, E., 817
Walker, G., 196
Walker, K. R., 25, 45
Walker, M. J. C., 461, 481
Walker, S. E., 45
Wall, D., 66, 68, 461, 463–464, 468, 481
Walter, H., 322, 344
Walton, W. R., 196
Wang, X., 70

- Ward, B. B., 20
 Ward, C., 673–674, 677–678,
 684–686, 694–695, 700, 703,
 708
 Waterman, L. S., 432
 Watkins, T., 829
 Watts, S. F., 21
 Wdowinski, S., 808
 Webb, III, T., 478
 Webb, R. S., 52, 60–61
 Webster, S., 681, 696
 Wechler, K. P., 309, 318
 Wefer, G., 66–67, 72, 74–76
 Weinelt, M., 52, 62
 Weinstein-Evron, M., 801, 806
 Weiss, E., 795
 Weiss, H., 341
 Wendorf, F., 831
 Weniger, G.-C., 293–295
 Werker, E., 817
 Westaway, R., 572, 589–590, 600
 Whalen, S. C., 20
 White, S., 45
 Whitmarsh, R. B., 432
 Whittle, A. W. R., 514, 518, 522,
 528–529, 531, 535
 Wieder, M., 826, 829, 832
 Wielki, C., 66
 Wijbrans, J. R., 20
 Wiles, R. L. F., 598
 Wilford, J. N., 196
 Wilkin, R. T., 673, 696
 Willcox, G., 826, 832
 Willén, U., 62
 Williams, D. N., 61
 Williamson, W. C., 196
 Willis, K. J., 474, 535, 673, 677–678,
 684–686, 694, 700, 703, 708
 Wilson, P. A., 247
 Wilson, U. A. W., 43
 Winchester, J. A., 569
 Winguth, C., 196, 398, 404, 600, 606,
 631
 Winter, H., 826, 832
 Winter, K. P., 806
 Wintle, A. G., 831
 Wirsén, C. O., 18
 Wohlfarth, B., 106, 115
 Woldring, E., 474,
 Woldring, H., 42–43, 481
 Wong, H. K., 196, 402, 404, 576, 600,
 631
 Woods, W., 695, 674, 677, 685–686
 Woodward, J. C., 148
 Wright, Jr, H. E., 92, 106, 108–109,
 115, 145, 293–294, 402, 434, 451,
 473, 475, 478, 628
 Wuest, A., 18
 Wunderlich, J., 451
 Wurtele, M. G., 817
 Wyputta, U., 61
- Y**
- Yaalon, D. H., 819–820, 826, 829–
 830, 832
 Yakar, J., 663, 668–669
 Yakimov, V. P., 294
 Yakubenko, V. G., 21
 Yakushev, E. V., 4, 8, 18, 21
 Yalçin, N., 600
 Yalçin, U., 669
 Yalçınlar, I., 557, 568
 Yaltrak, C., 92, 107, 117, 277, 548,
 558, 562, 566, 568, 576, 585,
 588–589, 591, 595, 597, 599,
 600–601
 Yanina, T. A., 66, 148, 194, 249, 434,
 478, 480, 452, 631
 Yanko, V., 28, 45, 183–184, 188, 190,
 195–197, 245, 250, 406, 428, 432,
 435, 576, 596–597, 601, 605, 621,
 631, 719, 730, 732, 734, 746, 755,
 757, 763, 769, 857
 Yanko-Hombach, V. V., 64, 145,
 148–149, 189, 197, 220, 406–407,
 410–411, 428, 432, 558, 562, 568,
 577, 588, 601, 605–606, 626, 631,
 732, 734, 746, 755, 757, 763, 769
 Yankova, D., 468, 480
 Yao, F., 110, 116

- Yaşar, D., 64–65, 71–72, 77–82, 84, 89, 90–91, 94–95, 97, 99–106, 111–112, 114, 181, 187, 218, 245–246, 273, 340, 348, 367, 402, 429, 450, 473, 479, 510, 528, 532, 563, 592, 627, 629, 673, 675–676, 694, 696, 732, 746, 755–757, 764, 805
- Yavuz, V., 633, 645, 649
- Yena, A. V., 322, 344
- Yena, V. G., 322, 344
- Yevtushenko, A. I., 293
- Yiğitbaş, E., 540, 547, 568–569, 600–601, 631
- Yılmaz, A., 15, 21, 695
- Yılmaz, K., 569, 601
- Yılmaz, Y., 537, 540–541, 543, 548, 555, 557, 559, 567–568, 599, 601, 609, 615, 631
- Yokoyama, Y., 231, 250, 807
- Yu, G., 110, 115
- Yüce, H., xvii, xxiii, 64–66, 77, 93, 95, 100, 110, 117, 147, 192, 194, 218, 220, 248, 275, 317, 343, 346, 369, 402, 404, 433, 452, 475, 480, 513, 534, 548–550, 553, 555, 558–559, 562, 564–565, 594, 598–600, 611, 628–630, 673–676, 696, 724, 729, 768, 807
- Yücel, Z. Y., 65, 68, 71–72, 78, 82, 191, 429, 473, 548, 550, 553, 555, 558–559, 562, 565, 595, 627
- Yurtmen, S., 600
- Yürür, T., 600
- Z**
- Zabelina, E. K., 64, 68, 71, 193, 220, 249, 404, 433, 631, 729, 711, 768
- Zachariasse, W. J., 831
- Zachos, J. C., 240, 246
- Zaitseva, G. I., 361, 370
- Zak, I., 816
- Zamkovoy, V., 184, 766–767, 769–770
- Zangvil, A., 817
- Zankl, H., 540, 565
- Zbenovich, V. G., 310, 318
- Zeldina, B. B., 219
- Zeldina, V., 478
- Zelinsky, I. P., 225, 250
- Zhang, J., 70
- Zhizhchenko, B. P., 714, 730
- Zhuze, A. P., 396, 404
- Zilhão, J., 490, 514
- Zimina, R. P., 322, 341
- Zindler, A., 60, 451
- Zohar, M., 814–815, 817
- Zohary, D., 780, 787, 796, 826, 832
- Zohary, M., 325, 344
- Zolotarev, M. I., 337, 344
- Zonenshain, L. P., 541, 543, 569
- Zor, E., 541, 569
- Zschau, J., 598
- Zubakov, V. A., 159, 182, 192, 225, 232, 239, 250, 258, 260, 262, 271, 277, 298, 318, 426, 435, 569, 730, 843
- Zvelebil, M., 369, 348, 490, 514, 523, 535–536

SUBJECT INDEX

A

- Ağaçlı, 616, 662
Aapsta River, 847, 852
Abeskun, 126
Abkhaz, 783
Abkhaz-Adyghe, 783
Abydos, 637–638
acritarch, 464, 467–468, 470, 472
Adamawa-Ubangi, 786
Adana-Kilikya Basin, 572
Adapazarı, 584
Adapazarı Basin, 573, 581
Adapazarı Depression, 577
Adapazarı-Karasu Fault, 547
Adatepe Akgöl, 333
Adler, 712, 715, 719–721, 846, 849, 851, 853–856, 859
Adriatic Sea, 323, 638–639
Adzalykskii Liman, 856
Adzapsh River, 848, 851
Aegean area, 659
Aegean Sea, 66, 90–92, 94–98, 100, 103–104, 109–110, 112–113, 136, 164, 347, 397–399, 492–493, 539, 573, 576, 607, 626, 635, 658, 664–665, 675, 798
 water levels, 94
aeolian deflation, 448
aeolianites, 822–823, 826–828
Africa, 300
African Plate, 541, 572
Afroasiatic language family, 776, 779–780, 783, 786, 788–790
Agassiz-Ojibway megalake, xxi
Agricultural Revolution, 824, 827
Ai-Petri, 321
Akchagyl Basin, 253
Akhtopol, 457, 470
Akhtuba River, 125
Akkadian, 778, 782, 791
Akliman, 703
Akula Canyon, 847
Akyazi, 577
Alachadze village, 838
Alanic language, 783
alasses, 141
alder, 172, 262, 497
Alepu, 471
aleurites, 471
Alexandrovka, 309
algal-serpulid bioherms, 99–101, 107, 112
Alibeg, 495
Alibey, 154, 549, 712
 Lagoon, 198
 Liman, 840, 848
Allerød, 301, 392–393, 462, 492, 525
Allerød-Younger Dryas, 51
alluvium, 518
Alma Depression, 267
Al'ma River, 321
Alpine age geostructures, 252
Alpine geosyncline, 265
Alpine-Himalayan Mountain belt, 131, 540
 system, 572
Alpine Mountain glaciers, 270
Alpine Orogenic Phase, 263
Alps, 270
Altaic, 786–787
Alushta, 321
Aşağı Pinar, 502
Amasra, 610
Amastris, 698
Amersfoort, 284
AMH. *see* Anatomically Modern Humans
Amisos, 698
Ammianus Marcellinus, 635
amphorae, 684, 691, 702, 706

- Amrosievka, 346
 Amtkheli, 391
 Amvrosievka, 301, 316, 376
 Anadolu Kavađi, 552
 Anakliyski peat, 843, 845
 Anapa, 712, 762, 835
 Anastas'evka, 381
 Anatolia, 349, 538, 541–543, 547, 657, 659, 661, 666–667, 698
 morphotectonic characteristics, 542–543
 Anatolian-Balkan Culture Complex, 658
 Anatolian Plate, 541–542, 572–573, 581
 Anatomically Modern Humans (AMH), 299–300, 518
 Ancient Euxinian, 426
 Anetovian, 379
 Anetovka, 301, 346, 376, 381
 animal domestication, 365, 524
 Annovka, 381
 Anosov's thermophase, 261
 anoxia, 152, 607, 673
 Ant, 167
 Antarctic ice cores, 51–52
 antler, 303
 Antonovka, 284, 287
 Anzabegovo, 495
 Apollo, 706
 Aprilska Structure, 458, 460
 Apsheron, 174
 Apsheron Basin, 253
 Aptian-Albian Ages, 540
 Arabatskii, 267
 Arabian Desert, 810
 Arabian Peninsula, 58
 Arabian Plate, 541, 572
 Arabic, 778–779, 782
 Arab invasion, 815
 aragonite, 217, 821
 Aral-Sarykamys' Basin, 135–137, 142
 Aral Sea, xx, 110, 136, 463, 731
 Aramaic, 778, 782, 791
 Aras River, 584
 Arbuzova Balka, 381
 Arcadius, 636
 Arctic Ocean, 288
 Arcy, 392–393
 Arcy-Denekamp Interstadial, 300
 Arcy Interstadial, 283, 286, 288, 290–291, 299
 areality, 785–788
 Argive Plains, 322
Argus towslod, 679, 686
 Arifiye, 577
 Arkutino Lake, 458, 465
 Armutlu-Almacik Highland, 547
 arsenical copper, 310
 Ashamba River, 750
 Ashe, 391
 Asparukhovo, 471
 ASSEMBLAGE Project, 439
 Assyrian, 782
 Atelian, 124–125, 135, 138
 Atelian regression, 124, 132
 Atia, 457, 470
 Atlantic Climatic Ecozone, 172–173
 Atlantic Ocean, 131
 sea-level curve, 272
 Atlantic Period, 259, 332, 377, 392–393, 462, 465, 468, 525
 Atmospheric Model Intercomparison Project (AMIP), 49
 Augustus, 635
 Aurignacian, 279, 282, 285, 289–292, 662–663
 aurochs, 303, 306, 360, 376–377, 379, 497, 499
 Austroasiatic, 785
 Austronesian, 776–777, 785
 authigenic minerals, 123, 125
 Avar, 780
 Avcılar, 549
 Avdeevo, 141
 Avesta, 137, 143
 Avşa, 662, 665
 Ayamama, 549
 Azerbaijan, 780

- Azerbaydzhan regression, 132
 Azores High, 54, 56
 Azov-Black Sea Basin, 253, 607
 Azov-Crimean steppes, 354
 Azov-Dnieprian Culture, 496, 502,
 504–505, 509
 Azylian cryophase, 261
- B**
- Babel layers, 391
 Babylonian, 782
 Baghdad, 639
 Bahamas model, 230–231, 233–234,
 236, 240–241
 Bakalskaya brachyanticline, 267
 Bakirköy, 556
 Balabinka village, 127
 Balakha, 381
 Balaklava, 854, 856
 Balashevo, 381
 Balchik, 458, 470
 Balkan Peninsula, 169
 Balkans, 309, 658, 666–667
Balkas, 331
 Bamlyuk village, 835
 Banat Culture, 502, 505
 Bandırma Bay, 581
 Baraboi, 381
 Barakaevskaia, 284, 288
 Barbados Island, 272
 Barbados model, 230–231, 236,
 240–241
 Barbados sea-level curve, 94, 798
 Barents-Kara ice sheets, 76
 Barents Sea, xxi
 barium, 306
 barley, 309, 503, 522, 666, 814
 barrier islands, 268
 BARTLETT function, 420–422
 basalt, 588, 824
 Basileus II, 638
 Basla River, 857
 Basque, 776, 789
 Batova River, 471
 Batumi, xii, 153, 213, 388, 712, 839
 Batumski (Burun-Tabiya) Cape, 839
 Batyliman, 337–338
 baymouth barriers, 268
 Bay of Sozopol, 106, 456–457, 470
 Baz'kov, 495
 Bazkov Ostrov, 363
 beaver, 497
 beech, 171–172, 262, 466
 Bekgash regression, 124, 132
 Bel'bek River, 321
 Belecik High, 584
 Belek Creek, 582
 belemnites, 281
 Belgorod-Dnestrovskij, 502
 Belokuzminovka, 1, 2, 284, 287
 Beloles'e, 304–305, 307, 355, 360, 374,
 379, 381, 500, 502
 pollen diagram, 378
 Beloslav, 469
 Belovega interglacial, 254
 Beşiktepe, 590
 Beneasa II, 381
 benthic foraminiferal oxygen index
 (BFOI), 103
 Benue-Congo, 786
 Berber, 779
 Bereşti, 381, 495
 Berezan, 312, 698, 702, 704
 Berezansky Liman, 154, 158, 198, 426,
 712, 838, 842, 845
 Berezina glaciation (Günz), 254
 Berlin, 641
 Berriasian Age, 540
 Bessarabia, 500, 506, 509
 Beyşehir Occupation Phase, 42
 Bialystok, 640
 Bible, 143
 Biblical Flood, 373
 Big Caucasus, 267
 Bilecik, 581
 Bingöl, 538, 543
 bioturbation, 828
 birch, 164, 288, 299–300, 302, 492, 497
 bison, 305, 346, 355, 376–377, 379,
 497

- bison hunters, 301
- Bitlis, 543
- Bitlis-Zagros, 542
 - suture, 540
 - system, 541
- black bindweed, 306, 379, 499
- Black Sea, 110, 136, 154, 252, 266, 272, 305, 320, 380, 388, 485, 494, 664, 712, 798
 - ammonium, 14–15
 - anoxic zone, 3, 16–17, 394
 - area, xi, 251, 387
 - average salinity, 158
 - bacteriochlorophyll (BChl) e, 16
 - Batumi eddy, 5
 - Black Sea endemics, 157
 - Bosphorus eddy, 5
 - Caucasus eddy, 5
 - chemocline, 111
 - chlorofluorocarbon, 11
 - circulation, 4, 6
 - cold intermediate layer (CIL), 6–13
 - Crimea eddy, 5
 - Cs isotope, 11
 - cultural areas, 654
 - currents, 337
 - deep-sea sediments, 229
 - density, 6, 12–13, 16
 - depth, xi, 251, 387
 - Eastern Gyre, 5
 - evaporation, 223–224
 - floating trash, 337
 - foraminifera, 156
 - freezing, 635–641, 643–644, 646
 - geological survey, xii, 153, 155, 407, 712
 - grain size, 163
 - gyres, 3–6, 8–9, 12–15, 673, 700
 - hydrogen sulfide, 262
 - hydrographic data, 4
 - icebergs, 638, 641, 646
 - Kali-Akra eddy, 5
 - Kızılırmak eddy, 5
 - lithology, 160, 165, 169–171
 - live foraminifera, 198
 - location, 1
 - marine terraces, 232
 - Mediterranean immigrants, 154, 159, 169–172
 - methane, 15
 - Mn cycling, 13
 - nitrate, 14–15
 - organic matter, 16–17
 - outflow, 399
 - oxic zone, 3, 17
 - oxygen, 12–14
 - paleosalinity, 160, 163, 165–166, 170, 174
 - physical characteristics, 2
 - physiographic features, 609
 - pollen sequences, 333
 - radiocarbon dates, 459
 - rainfall, 223–224, 699
 - redox reactions, 3
 - reservoir age, 76–77
 - residence time, 11
 - reworking, 174, 176
 - Rim Current, 4–5
 - river discharge, 223, 508
 - Sakaraya submarine canyon, 5
 - Sakarya eddy, 5
 - salinity, 2, 6–9, 91–93, 171, 251–253, 387, 423, 463, 715
 - samples, 155
 - sea level, 154, 172, 259, 263, 314, 401, 493, 715
 - sea-level changes, 245, 252, 265, 427, 674, 719, 745
 - sea-level curve, 272
 - Sevastopol eddy, 5
 - shelf morphology, 229
 - shipwrecks, 684, 686, 691–692
 - shoreline formation, 255
 - shoreline length, 251
 - Sinop eddy, 5
 - Strabo's trade route, 337
 - stratification, 3, 5, 12
 - stratigraphy and correlations, 390–393
 - suboxic zone, 3–4, 11, 13–16
 - sulfide, 3, 12–14

- surface current, 699
 tectonic movements, 230
 temperature, 6–9, 253
 thermocline, 3
 trash distribution, 338
 ventilation, 3–4, 9, 11, 13, 92, 608
 volume, 251, 387
 washout, 67, 81
 water balance, 221, 223–226,
 243–244, 263
 water fluxes, 2, 388
 water levels, 92, 94
 Western Gyre, 5
 Black Sea Lowland, 298
 Black Sea Trade Project (BSTP), 700
 Blade Mousterian, 279–280, 284,
 286–289, 299
 BLASON expedition, 68–69, 71, 73,
 77, 81, 399
 boar, 309, 497
 boat images, 143
 Boian Cultures, 309, 502, 505–506, 509
 Bolgrad, 305, 309, 502
 Bolgrad-Aldei II Culture, 506
 Bölling Period, 76–77, 392–393, 461–
 462, 525
 Bölling/Allerød, 74, 439, 812
 Bol'shaya Akkarzha, 301, 372, 374
 Bolshoi Adzalykskii, 712
 Bolshoy sand spit, 856
 Bolu Basin, 573
 bonito, 705
 Book of Genesis, 438
 boreal, 329
 Boreal Ecozone, 171
 Boreal Period, 259, 302, 377, 392–393,
 462, 464–465, 472, 492, 525
 Borehole KS2, 169
 Borisovka, 305, 381, 502
 Borshchevo thermophase, 262–263
 Bosphorus Strait, xx, 2, 5, 8, 64–65, 67,
 72, 77–81, 90, 93–95, 97–98, 100,
 103, 108, 111, 113, 120, 126–127,
 136–137, 150–154, 158–159, 161,
 164, 169, 178–179, 200, 206, 217,
 224–225, 242, 244, 253, 257, 263,
 265, 268–269, 272, 302, 333, 335,
 347–348, 394, 397, 439, 442, 464,
 466, 507, 538–539, 549–550,
 552–553, 555, 557–559, 561, 584,
 588, 590, 604, 606–607, 610–611,
 616, 619, 625, 634–636, 642–643,
 658–659, 662–663, 665, 673, 679,
 699, 745–746, 760
 Bosphorus Plume, 9, 11, 13
 bottom deposits, 271
 bottom topography, 10
 depth, 10, 549
 entrainment ratios, 11
 erosional downcutting, 226–227
 Facies Association A, 228
 Facies Association B, 228
 freezing, 635–641, 643–646
 geological development, 226, 228,
 560
 geological map, 556
 icebergs, 638, 641, 644, 646
 inflow, 7, 11
 one-way outflow, 260
 palynology, 104
 salinity, 10
 seismic section, 553
 shelf-edge wedges, 228–229, 244
 sill depth, 96
 sills, 2, 8, 10, 66, 90, 101, 111, 152,
 261, 387, 389, 396, 398–399,
 438, 441, 448, 492, 539, 549,
 561, 605, 625–626, 674, 740,
 745, 752, 756, 797–798
 slope angles, 555–556
 temperature, 10
 terraces, 555, 559
 topographic map, 554
 two-way flow, 91, 96, 107, 111, 215,
 224, 226, 228–229, 387, 398,
 448, 492, 724
 Bosphorus submarine canyon, 269, 271
 Botai, 504
 Botas, 27
 boxwood, 485

- Boztepe, 700–701
 brackish, 93, 136, 157, 167, 169, 171, 174–175, 177–179, 225, 299, 301, 303, 347–348, 387, 389, 395–396, 401, 410–411, 423, 442, 445, 448, 461–463, 467, 492, 516, 525, 562, 576, 585, 589, 617–618, 620, 622–623, 625–626, 678, 683–684, 712, 719
 Brandenburgian, 392–393
 broadleafed, 106, 108, 139, 169, 171–172, 262, 283, 286, 329–331, 335, 375, 410, 492, 499
 Bronze Age, 329, 523, 657, 661, 667, 676, 706
 Brörup, 284
 Brörup/Upper Volgian, 299
 brown bear, 303
 Bryansk Interstadial, 288, 300, 395
 Bubinka, 381
 Bucharest, 641
 Budakskii Liman, 712, 836, 842, 847, 851, 856
 Budyachki, 381
 Bugazian, 68, 72, 166, 169, 171–172, 174, 177, 262, 392, 493, 509, 717, 719–720, 752, 754, 854, 856
 Mediterranean immigrants, 173–174, 177–178
 salinity, 171–172
 Bugazian-Vityazevian stage, 752
 Bug-Dnieper Liman, 312
 Bug-Dniester wares, 363
 Bug-Dniestrian, 309, 496
 Culture, 308, 493, 495, 502–505, 508–509
 Bug Liman, 310, 312
 Bugliv V, II, 284, 287
 Bug River, 90, 360, 656, 698
 Bujnask transgression, 124
 Bulganyak River, 321
 Bulgaria, 33, 309, 374, 516–519, 527, 637, 676–677, 686
 Bulgarian shelf, 65, 71, 158–160, 167, 175–176, 200, 211–212, 333, 454, 458, 471–472, 673, 690, 693, 737, 740, 747
 central zone, 455
 littoral zone, 455
 peripheral zone, 455
 bunchgrass steppe, 497
 Bunjask transgression, 132
 Buran-Kaya, 283, 285, 290
 Burgas, 470, 485, 610
 Burgas Bay, 211
 Burgas Depression, 458
 Burgas Lake, 388, 457–458, 469
 Burgas-Zhdanovskaya, 267
 Burovaya 53, 351
 Büyük Çekmece, 586
 Büyükçekmece, 549
 Büyük Menderes River, 584, 588
 Byzance, 638–639
 Byzantine Empire, 815
 Byzantium, 634–636, 698
 Byzb' River, 175, 214, 716, 722, 837, 843
- C**
 Cadiz, 815
 Caesarea, 815
 Café au Lait vertisol, 823
 Calabrian, 390
 calcium carbonate, 408, 414, 463, 606
 calfersic soils, 324
 Çamdağ-Akçakoca Highland, 547
 Çamlı Creek, 582
 Campanian Age, 540
 Canaan, 814
 Çanakkale, 588–590
 strait, 585
 Cantemir, 502
 Cape Atia, 456, 469
 Cape Carambis, 698
 Cape Emine, 211, 456, 458
 Cape Inkit, 845
 Cape Kaliakra, 206, 211
 Cape Konstantinovski, 851
 Cape Meganom, 265
 Cape Midia, 396

- Cape Sarich, 265
 Cape Shabla, 470
 Cape Souk-Su, 838, 840–841, 857
 carbonate clasts, 123
 carbon isotopes, 74, 306, 606, 810, 811–813, 829
 Cârcea, 495
 Carmel Coast, 801–802
 Carpathian Basin, 308, 655
 Carpathian foothills, 346
 Carpathian Mountains, 300, 463, 501–502, 504, 506, 528, 576, 588
 Cascade of Eurasian Basins, 137, 144
 Caspian Basin, 283, 746
 Caspian Depression, 351, 353, 360, 363
 Caspian Lowland, 123, 125, 130
 Caspian Sea, xx, xxi, 67, 76, 92, 106, 108–110, 121, 123, 126–127, 129, 135–136, 138, 141, 157–158, 171, 176–177, 179, 201, 224, 253, 260, 301, 345, 351, 389, 394, 400, 448, 467, 485, 558, 605–606, 625, 682, 723, 780
 Eastern shelf, 201
 evaporation, 348
 foraminifera, 156
 live foraminiferal, 201
 maximum salinity, 158
 molluscs, 464
 Northeastern shelf, 201
 Northwestern shelf, 201
 regressions, 348
 samples, 155
 sea level, 124–125
 stratigraphy, 124
 transgressions, 132, 348
 water balance, 224
 Western shelf, 201
 Catacomb Culture, 310–311, 702
 Çatak, 485
 Çatalca, 549
 Çatal Hüyük, 677
 catfish, 303
 cattle, 309, 311, 364–366, 381, 497, 503, 521, 666, 786
 Caucasian shelf, 158, 167, 176, 200, 213, 464, 735, 737, 740, 746–747, 762, 861
 map, 748
 paleogeographical map, 748
 seismic stratigraphy, 739
 Caucasus, 244, 253, 263, 265, 283, 291, 299–300, 302, 313, 319, 338, 377–378, 394, 657, 660, 667, 712, 714, 717, 719, 779, 781–782, 787, 791
 Caucasus Mountains, 1, 58, 129, 572, 581, 588
 cave bear, 303
 cave hyena, 303
 Celtic languages, 788–789
 cemeteries, 354, 357, 359
 Çenesuyu Creek, 582
 Cenozoic, 240
 Central Asia, 92, 299
 Ceramic Neolithic, 364
 Černa Voda-Ezerovo Culture, 486
 Cernavoda I-Pevets Culture, 506
 Ceyhan River, 27, 42, 584
 Chadic, 776, 779
 Chaladidi village, 721, 840–841, 852
 Chalcolithic, 491, 495, 590, 657–659, 661, 668, 677, 702–703, 813
 Early, 505–506
 Middle, 506
 sea level, 509
 Charaks, 312
 Chauda Lake Sea, 588
 Chaudinian, 176, 211, 253, 255, 390, 735–736, 739, 747, 761
 transgression, 744
 Chazaria, 637
 Cheboksary, 130
 Chekalino IV, 361–362
 Cheluskinets, 284, 287
 chenopod, 110
 Chernavoda I Culture, 456
 Chernomorian, 713–714, 736, 745
 chernozem, 299, 321, 324, 326, 328–329, 331, 335, 339, 506

- Chersonesos, 312–313, 332, 337, 698
 Chimovo, 471
 “*Chlamys* effect,” 28
 chlorite, 125, 414
 chocolate clay, 76, 123, 125–126, 130, 137
 Chograi Bay, 127
 Chokh, 780–781, 788
 Chokurcha I, IV, 284, 288
Chora, 331
Chronicon Pachale (Pascal Chronicle), 635
 chronocorrelation, 121
 Chrysopolis (Üsküdar), 636–637
 Chumashan, 776
 Churia River, 722
 Churiiski peat, 843, 848
 Churiya River, 835, 842
 Chushka Spit, 839, 859
 Chyornaya floodplain, 331
 Chyornaya River, 328–329
 Chyornaya Valley, 320, 331
 Cimmerian, 253, 704–705
 Cimmerian-Kuyalnikian paleo-shoreline, 754
 Cinnamonic soils, 321, 324, 326, 328, 330, 339
 Circassian, 783
 Classical Age, 702, 753
 clastic materials, 541
 clay minerals, 123, 408
 climate, 47
 change, 255–257
 feedback cycles, 48
 general circulation models, 48
 Climatic Optimum, 753
 clinofolds, 68, 621, 735, 749
 Çınarcık Basin, 575–576
 coal, 123
 cobbles, 683–684
 Cobusca-Veche, 381
 coccolithic ooze, 674–675
 coccolith-rich laminae, 74
 coccoliths, 393
 Colchidian forest, 325
 Colchis, 720, 722–723, 752, 835, 837–845, 848, 850, 852–853, 855
 lowland, 717
 Plain, 159, 712
 Columbia University Seminar on the Ancient Near East, xiii–xiv, 121, 180
 Constanta, 266, 388, 396
 Constantinopolis Fortress, 638
 Continental Polar Air Mass, 645
 Continental slopes, 265
 Continental Tropical Air Mass, 645
 copper, 311, 677
 Age, 677
 metallurgy, 309
 coquina, 207, 209, 410–411, 413, 421
 coral reef, 270
 Core 1, 78, 619–620, 622, 624, 845, 850, 853, 856, 858
 Core 1-14, 855
 Core 1/16, 857
 Core 1/88, 847, 850
 Core 1a/88, 842
 Core 1M, 154, 166
 Core 2, 619, 624, 854
 Core 2-82, 407, 410, 412–414, 417, 419, 421
 Core 2/86, 161, 163–164, 171
 Core 2/123, 212
 Core 2A-82, 408
 Core 3, 619, 624, 839, 861
 Core 4, 71, 614, 618, 620–621, 624, 836, 839, 861
 Core 4/88, 845
 Core 4M, 154, 166, 858
 Core 5, 618, 624–625
 Core 6, 618, 624, 845, 847
 Core 6/88, 835
 Core 6/89, 845
 Core 6-99, 838–839, 841, 844
 Core 7, 618, 623–625, 847, 861
 Core 8, 72, 618, 843
 Core 9, 71, 79–80, 620–621, 623, 835, 848, 853

Core 10, 623–625, 836, 857–859
Core 11, 617, 623
Core 12, 616–617, 623, 842, 861
Core 13, 617, 623–625
Core 14, 837, 852
Core 14/16, 856
Core 16, 620, 847
Core 17, 859
Core 19, 620–621
Core 19/96, 210
Core 20, 71, 614, 620–621
Core 23, 72
Core 26, 861
Core 26/18, 859
Core 30, 861
Core 31, 841, 845
Core 36, 851, 861
Core 37A-82, 407–408, 412–414,
418–421
Core 38, 861
Core 39, 861
Core 41, 854
Core 42, 846
Core 43, 843, 852
Core 44, 839, 841
Core 47, 859
Core 48, 855
Core 49, 853
Core 50, 852
Core 52/110, 212
Core 54/24, 210
Core 55, 847, 853
Core 55/93, 212
Core 56/65, 210
Core 56/100, 212
Core 57, 838
Core 58, 852
Core 60/95, 212
Core 62, 213
Core 62/93, 212
Core 63, 853
Core 63/104, 212
Core 64/25, 210
Core 67, 839, 855
Core 70, 850
Core 71, 846
Core 81, 161, 165, 209, 213
Core 81/100, 208
Core 83/100, 212
Core 84, 837, 841
Core 84/92, 212
Core 86/98, 212
Core 88, 846
Core 91/28, 210
Core 93, 854
Core 100, 845, 852
Core 100/78, 208
Core 101, 213, 854, 856, 859
Core 101/97, 208
Core 110, 844
Core 114, 741, 849
Core 116, 741
Core 118, 741
Core 118/56, 208
Core 120, 741
Core 122, 741
Core 124, 741
Core 125, 848, 857–858
Core 126, 741
Core 138, 858
Core 138/62, 210
Core 151, 857
Core 153, 858
Core 157, 856
Core 162, 858
Core 166, 857
Core 168, 859
Core 170, 839
Core 178, 840, 848
Core 182, 857
Core 183, 855
Core 185, 858
Core 187, 857
Core 189, 853
Core 190, 838
Core 202, 845
Core 211/41, 208
Core 212, 844
Core 214, 851
Core 215/71, 208

Core 216/84, 208
Core 219, 854
Core 219/70, 208
Core 221, 836, 842, 847, 851, 856
Core 230, 841
Core 231, 838
Core 259, 839, 859
Core 289, 856
Core 300/29, 210
Core 304, 836
Core 308/21, 210
Core 316, 843
Core 319/22, 210
Core 332, 840
Core 342, 842, 846
Core 369, 835, 842, 847
Core 379A, 231
Core 380, 836, 838–839
Core #380 DSDP, 126, 734
Core 385, 843, 846
Core 387, 839, 850–851
Core 401, 845, 853
Core 407, 850
Core 414, 849
Core 418, 839
Core 441, 844
Core 459, 841, 844
Core 473, 840
Core 481, 835, 846
Core 493, 846, 848–849
Core 495, 849
Core 501, 836, 852
Core 502, 851
Core 503, 851, 853, 857
Core 505, 845
Core 507, 842
Core 510, 852
Core 514, 846
Core 516, 852
Core 517, 843
Core 520, 838, 841
Core 522, 840, 857
Core 535, 841, 857
Core 536, 842
Core 544, 855
Core 5456, 854
Core 602, 851
Core 604, 850
Core 607, 837–838, 842–843, 848
Core 609, 842
Core 617, 844, 848, 857
Core 621, 839, 849, 854
Core 645, 838
Core 702, 840
Core 711, 154, 166–169, 171
Core 716, 850–852
Core 717, 843, 850–851, 854
Core 718, 838
Core 721, 170–171, 857
Core 722, 852, 854
Core 723, 154, 171, 840, 848,
855–856
Core 724, 842, 849, 859
Core 725, 850
Core 846, 838, 847
Core 855, 851
Core 858, 854
Core 862, 842–843
Core 1017, 836
Core 1136, 166–167, 171–172, 407–408,
410–416, 419, 421–422, 427
Core 1203y, 853, 855
Core 1204y, 849, 855
Core 1206y, 859
Core 1209, 848
Core 1306, 861
Core 1971y, 858
Core 2345, 213
Core 2362, 159–161, 164, 167, 171,
213
Core A-1, 853, 856
Core A-2, 853, 856
Core A-9, 851
Core A-11, 846
Core A-12, 853
Core A-14, 854
Core A-17, 850
Core A-18, 849
Core A91-20, 91, 101, 103–105
Core A96, 75

- Core AB1, 688
 Core AB2, 688
 Core AB3, 688
 Core AB4, 688
 Core AB5, 688
 Core AB6, 688
 Core AB-6, 690
 Core AB7, 688
 Core AB8, 688
 Core AB9, 688
 Core AB10, 688
 Core AB11, 688
 Core AB12, 688
 Core AB13, 688
 Core AB14, 688
 Core AB15, 688
 Core AB16, 688
 Core AB17, 688
 Core AB18, 688
 Core AK08-93, 72
 Core B-7, 333
 Core BLKS9801, 71
 Core BLKS9804, 71
 Core BLKS9806, 71
 Core BLKS9807, 71
 Core BLKS9808, 71
 Core BLKS9809, 75–76
 Core BLKS9810, 74–76
 Core BLKS9834, 71
 Core BLKS9837, 69, 444–445, 447
 Core BLKS9838, 69
 Core BPMP-14, 227
 Core C-2, 460
 Core C-3, 460
 Core Д-1, 835
 Core GeoB 7608-1, 75–76
 Core KL11, 270
 Core Л-7, 852
 Core Л-9, 846
 Core M02-103, 91, 100–101
 Core M02-110, 98, 100–102
 Core M02-111, 97–101
 Core M-2, 838
 Core m14, 847
 Core m20, 840
 Core M24, 844
 Core M98-9, 91, 98, 100–101, 104–105
 Core M98-12, 91, 101, 103–105
 Core M-12392, 265
 Core MAR00-06, 72, 78, 616, 623
 Core MAR95-04, 78
 Core MAR98-04, 154, 164
 Core MAR98-06, 154, 164
 Core MD952042, 237, 239–241, 245
 Core NA 87-22, 235
 Core NA 87-25 (North Atlantic), 235
 Core ODP677, 232–233
 Core PZ-2b, 333
 Core V19-29, 265
 Core V19-30, 232–233, 265
 Core V29-179, 265
 Core V30-97, 265
 Çoruh Gorge, 545–546
 Çoruh River, 538, 584
 Cosna-Sinoie Delta, 400
 Coupled Model Intercomparison
 Project (CMIP), 49, 60
 Cretaceous Period, 393, 540, 552, 556,
 576, 612, 615, 717, 748, 758–759
 Cretean arc, 573
 Criş Culture, 363–364, 501–503
 Crimea, 207, 253, 263, 265, 280–286,
 289, 291–292, 299–300, 302, 306,
 310, 312, 320, 322–323, 333, 337,
 373–374, 407, 423, 504, 612, 673,
 698, 704, 733, 743, 748
 climatic conditions, 336
 Mediterranean vegetation, 320, 323,
 325–326, 334, 339
 pollen data, 320, 324, 338
 pollen zones, 329
 radiocarbon dates, 327
 sea level, effects of, 335
 soils, 320, 328
 southern, 324
 southwestern, 320–322, 325, 335,
 337
 Sub-Mediterranean vegetation, 326,
 330
 Crimean anticlinoria, 265

- Crimean Culture, 495
 Crimean Mountains, 267, 303, 322,
 355, 360, 375
 Crimean Peninsula, 319, 355–356, 656,
 677
 Crimean shelf, 165, 167, 175, 199,
 207–208, 213–214, 334, 712, 740,
 854, 856, 861
 Cromerian, 390
 cryogenic microsculpture, 141
 cryolithozone, 141
 cryo-suspensites, 125
 Cucuteni Culture, 313
 Cucuteni-Tripolye Culture, 309, 507,
 509, 783
 Cuina Turcului, 519
 Cuitlatec, 785
 Cushitic, 779
 cyclogenesis, 336
 Cyprus Trench, 572
- D**
- Daghستان, 130, 780
 Daghستان transgression, 132
 Daic, 785
 Danapris River, 637
 Danastris River, 637
 Danube Delta, 158, 198, 232, 355,
 394–395, 400–401, 407
 coastline changes, 400
 sedimentary evolution, 399
 Danube-Dniester Interfluve, 304–305,
 309, 377, 500, 502, 506
 Danube fan, 15, 681
 Danube glaciation, 389
 Danube Gorges, 528
 Danube River, 2, 90, 101–102, 108,
 128, 154, 211, 223, 266, 298, 305,
 311, 320, 336, 355, 360, 373,
 379–380, 388, 396, 500, 503–506,
 509, 519, 528, 635, 637–638, 640,
 656, 677, 687, 698
 discharge, 388, 440
 Danube shelf, 68, 71, 740
 Danube Valley, 364, 490
- Daphnousia, 637
 Dardanelles Strait, 64, 66, 79, 91, 94,
 97–98, 107, 120, 127, 136–137,
 154, 253, 272, 348, 387, 394, 397,
 399, 441–442, 448, 492, 538–539,
 562, 584, 588–589, 590, 604–605,
 644, 658–659, 663–665, 724
 geologic history, 226
 sill, 66, 90, 100, 107, 539, 798
 Datames, 702, 706
 Dead Sea, 809, 814–815
 deer, 355
 deglaciation, 226, 230, 238, 240, 243,
 256, 260, 347, 398
 Değirmen Creek, 582
 Değirmendere (Izmit Bay), 577
 delta, 65, 78–80, 99, 107, 112
 Delyatin, 355
 Demetrius Cantemir, 639
 demi-freshwater, 136
 Demircihüyük, 486, 590
 Demirci Valley, 700–701, 703
 dendrochronology, 484
 Denekamp Interstadial, 283, 290–291
 Denmark, 640
 dental pathology, 304
 Derbent, 549
 Derbent regression, 132
 Derevyankovskaya, 847
 Derevyankovskaya station, 850
 Derevyankovskaya village, 847
 Derince, 582
 Dervişocak, 662
 desert, 353–354, 360
 desert-steppe, 171
 desiccation, 124
 Deultum, 471
 deuterium, 811
 Devnya River, 469
 diatoms, 68, 216, 225, 393, 396, 470
 Dibblee model, 559
 Dicle River, 584
 dinocysts, 64, 71, 447–448, 461, 464
 dinoflagellates, 393, 457, 461,
 463–464, 466, 470

- cysts, 104, 111, 467–468, 472
 Dioskoria, 723
 Divizia, 381, 500, 502
 Divostin, 495
 Dizi, 779
 Dmitrov-Moscovian glaciation (Riss),
 254
 Dneprian, 390
 Dnestrian, 390
 Dnieper-Bug Liman, 154, 198, 712,
 719, 721, 835, 838–841, 846–847,
 849, 854
 Dnieper-Donets Culture, 308, 357
 Dnieper paleolagoon, 423, 426
 Dnieper Paleovalley, 407, 410, 413,
 424, 428
 Dnieperpetrovsk, 306, 311, 356
 Dnieper Rapids, 306, 356, 359–360,
 363
 Dnieper River, xx, xxi, 2, 90, 101–102,
 108, 154, 211, 223, 236, 266, 268,
 287–288, 290, 298, 300, 304–307,
 311–312, 320, 332, 336, 346,
 355–358, 374–375, 380, 388, 396,
 440, 494, 504, 698
 discharge, 388
 Dnieper Valley, 359
 Dniester Liman, 312, 856
 Dniester-Prut steppes, 355, 360
 Dniester River, 2, 90, 101–102, 108,
 154, 211, 236, 266, 268, 287–288,
 290, 298, 300, 304, 308, 320, 336,
 355–356, 360, 374–375, 380, 388,
 396, 440, 493–494, 496, 501–502,
 504, 656, 698
 discharge, 388
 Dniester Valley, 33, 286
 Dniestrian Culture, 504
 Dniestrovsky Liman, 154, 158, 198,
 426, 712
 Dobrozheani, 381
 Dobruja, 265, 267, 355, 373, 400, 500,
 504–505, 509
 Dogger Epoch, 540
 Dogon, 786
 dogs, 497, 520–521, 825
 Dolinka, 381
 Dolinskoe, 504
 dolphin, 677
 domesticated animals, 364, 366
 Donau, 494, 502
 Donbass, 127, 283–284, 286
 Donetsk Highlands, 288
 Donetsk Upland, 373
 Donets River, 355
 Döngel Creek, 582
 Don-Kuban alluvial fan, 735, 737, 739
 Don-Kuban River, 733
 Don River, xx, 2, 65, 90–91, 101–102,
 108, 130, 139–140, 154, 280–282,
 285–292, 298, 300, 307–308, 320,
 336, 346, 356, 388, 494, 497–498,
 504, 509, 636, 698, 744, 749
 Dor Kurkar, 822–823, 827
 double diffusion, 7
 Dovzhanka, 381
 Dracula River, 498
 Drevnechernomorian, 409–415,
 421–423, 428
 sea level, 426
 Drevneevksinskie, xi
 Drobyshevo, 381
 Dronovka, 381
 Dudești Culture, 502, 505, 509
 Dufour bladelets, 282
 Dündartepe, 663
 dunes, 64, 68–71, 80–81, 438,
 445–446, 448–449, 606, 611, 621
 Durankulak, 662
 Durankulak Lake, 458
 dust storms, 810
 Düzce, 584
 dysoxyia, 103, 106
 Dzhangul Ridge, 267
 Dzhemetinian, 166, 172, 174, 262,
 392–393, 398, 493, 509, 722
 Dzhikumur River, 722
 Dzhubgy, 391
 Dziginka village, 854
 Dziginskaya, 835, 838–839, 841, 844

E

- Early Bronze Age, 457, 466, 469–470, 472, 485–486, 584, 664, 702, 704, 722, 813, 814, 814
- Early Glacial, 286–287
- Early Gravettian, 279, 282
- Early Holocene, 124
- Early/Middle Holocene boundary, 464
- Early Old-Euxinian, 253, 255
- Early Pleniglacial, 283, 286, 289, 291
- Early Pottery Neolithic, 360
- Early Valdaian, 299
- earthquake, 176
 - August 17, 1999, 577–578, 583, 589, 599
 - Mudurnu, 577
 - November 12, 1999 Düzce, 577–578
- East Anatolian Transform Fault (EAF), 541–542, 584
- East Caucasian language family, 779–780, 788
- Eastern Anatolian Accretionary Complex (EAAC), 542
- Eastern Anatolian Fault, 572
- Eastern Balkan Range, 458
- Eastern Mediterranean Sea, 325, 540
 - foraminifera, 156
 - samples, 155
- Eastern Rezovo fault, 458
- Eastern Tyulenovo fault, 458
- East European Plain, 299–301, 308, 313
- East European Plate, 298
- East European Platform, 265
- East European Steppe, 377
- Eblaite, 782
- Echo* profiler, 679
- ecostratigraphy, 156
- Eemian Interglacial, 254, 284, 393
- Efteni Lake, 578
- Eggrisian regression, 166, 172
- Egypt, 640, 814
- Egyptian/Coptic, 779
- Ein el Sultan, 812
- Elamite, 787
- Elbe River, 638
- Elenonka, 381
- Eleuthera Island, 230
- Elizavetinska Structure, 458
- elk, 309
- elm, 106, 262, 301–302, 308, 310, 492, 497
- Elshanka, 361–362
- Elton regression, 124–125, 131–133
- Emilian, 390
- emmer, 309
- Eneolithic, 357, 359, 366, 456, 465, 487, 657
 - Final, 456
 - Late, 456–457, 469–470, 472
- England, 641
- Enotaevka regression, 124–125, 131–133
- Eocene, 540, 556, 585
- Eocene-Oligocene, 573, 576
- Epic of Atrahasis, 150
- Epic of Gilgamesh, 150, 438, 526
- Epic of Ziusudra, 150
- epidote, 123
- Epipaleolithic, 354, 359, 528, 655, 657, 663, 811–812, 822–824, 827
- Epistulae Ex Ponto* (Letters from Black Sea), 635
- equids, 350, 360, 376
- equivalent sea level (ESL), 229–230, 232, 235, 238, 240–241
- Erbiceni, 495, 500
- ergativity, 786, 788
- Ergeni Highlands, 123, 127, 129–130
- Erotovinas, 828
- ESR, 234, 239
- estuaries, 267, 298
- Ethiopia, 811
- Etruscan, 789
- Euphrates River, 485
- Euphrates Valley, 813, 814
- Eurasian Plate, 572–573, 581, 589
- Eurasian steppes, 656
- euryhaline, 64, 68, 71–72, 111–113, 156, 163, 171, 178, 394, 411, 449,

461, 463–464, 466–468, 470, 472,
493, 623, 719–720
fauna, 93
Eutyrrhenian, 390
Euxinian Basin, 253, 588
Euxinian province, 455
evaporation, 138–139, 742
evaporative drawdown, 81, 93–96,
106–109
evaporative fractionation, 72–73
Eyüp, 641
Ezero VI-IX, 486

F

facies rule, 406, 714
Fairbridge curve, 257–258
Fandakliyska River, 470
Fatma-Koba, 303–304
Fedorovka, 142
feldspars, 123
Fener, 703
Fener-Akliman, 702
Fennoscandia, 76, 441
Fennoscandian ice sheet, 270, 439
Feodosia, 208
Fertile Crescent, 787–788, 790, 813,
815
Fikirtepe, 662
Finno-Ugric, 776, 782
fir, 262
Firat River, 584
firths, 467–468, 471
Flandrian transgression, 390, 558, 752
flash floods, 813
flint, 354, 358, 360, 366, 374, 376, 497,
499, 519–520
Flood Hypothesis, 93–94, 96, 110,
150–152, 173, 175–179, 269–270,
298, 398–399, 439, 652, 666, 756
Flood Myth, 516
flysch, 323
foraminifera, 160, 165, 168, 170, 605,
608
abundance, 158
benthic, 157–158, 202, 265

diversity, 158–159
d'Orbigny collection, 156
fossil, 156
generic classification, 156
Le Calvez collection, 156
live (rose bengal stained), 156
origin, 157
paleoenvironmental indicators, 153
planktonic, 157, 178
Schlumberger collection, 156
suprageneric classification, 156
taxonomic diversity, 158
forb-bunchgrass steppe, 499
forest-steppe, 164, 262, 289, 291, 298,
302, 308–310, 321, 330, 354, 363,
377, 491, 501, 503–506, 509–510
forest-steppe/steppe-desert, 292
forest-tundra, 139
Foros, 321
fossil water, 810
fox, 497, 499
France, 639, 641
Franchthi Cave, 528
Frankfurtian, 392–393
Frontovoe, 360, 504
Frunze-Arciz, 267
Frunzovka, 381
fur, 786

G

gabbro, 227
Gadjucha Balka, 381
Gagidskoe bog, 838, 843
Gagra, 712, 715, 723, 837–839, 841–844,
846–848, 850–851, 853, 857
Gagra Bay, 265, 722
Gagrskii Gulf, 716
Gagrskii Ridge, 716
Galata, 637, 639
Galata Castle, 638
Gallipoli Peninsula, 576
Gallitzin Rise, 395
garnet, 445
garrigue, 323
Garvån, 495, 500, 502

- gastropod, 209, 464, 467–468, 472
 Gaziköy Mountains, 590
 GCM, 49–51
 Gediz River, 584
 Gelendzhik, 750
 Gelendzhik Bay, 733–734, 743, 748,
 750–752, 762
 Gelibolu (Gallipoli), 539
 Gelveri, 662
 Gemlik Bay, 573, 581, 584–585
 Genesis, xix, 604
 Genovese, 699
 geoarchaeology, 652–653
 Geoid's deformation, 228
Geologia, xix
 Geological Society of America, xiv–xv,
 64, 121, 173, 180
 Geometric Kebaran, 812
 Georgia, 484
 Georgian shelf, 747, 752
 geothermal flux, 256
 geothermal heat, 7
 Germanic peoples, 814
 Germany, 641
 Gerze, 704
 Gerzel, 703
 Geyve Basin, 581
 Gibraltar Strait, 604
 Gilan, 448
 Giresun, 540, 610
 Girzhevo, 306–307, 356, 360, 381, 495
 glacial intervals, 441
 glaciers, 256, 269, 347, 376, 396
 glauconite, 123
 global ocean
 sea level, 260
 sea-level changes, 265
 global precipitation line, 811
 glottochronology, 777
 Glubokaya, 381
 Glykas, 636, 638
 Gnilushka River, 839, 841, 844
 goats, 311, 497, 503, 521, 656, 666
 Gobustan, 143
 Gölcük, 577–578, 582
 gold, 311, 677
 Golden Horn, 549–551, 634, 636, 639,
 641–643, 646
 Golitsin Uplift, 167, 410, 857–858
 Golovitsa, 154
 Golovitsa Liman, 198
 Gönen River, 581, 584
 Gontsy-Borshevo, 379
 goosefoot, 171
 Gorgippia, 312
 Gorodtsovskaya, 279, 281–282, 285,
 289–291
 Gothiglacial, 392–393
 Gottweig, 392–393
 Gousan transgression, 132
 graben-gulf bottoms, 762
 grabens, 538
 grain-size, 408, 413
 grain size analysis, 155
 Gravettian, 289–290
 Gravettoid, 282
 Greater Caucasus, 660
 Great Flood, 120–122, 124, 131,
 133–134, 136–138, 143–144, 150
 Great Lakes, 137
 Great Plains, 377
 Grebeniki, 360, 365, 381, 495
 Grebenikian, 306–307
 Greece, 461, 463, 484, 503, 515, 522
 Greek Archaic, 702
 Greek-Armenian, 790
 Greek Classical, 702
 Greek Colonization, 312, 326, 332,
 398, 661, 663, 705–706
 Greek language, 778
 Greenhouse effect, 760
 Greenland GRIP, 74–76
 ice record, 508
 ice sheet, 242
 Grigoleti village, 840
 Grigor'evka village, 719, 857
 Grimaldian regression, 390
 Grushevakha, 381
 Gudauta, 712, 715, 719, 838, 840–842,
 851, 853, 857

- Gulf of Mexico, 26
 Gulluavlu, 702–704
 Gumelnița A-Aldeni II Culture, 505
 Gumelnița-Bolgrad, 506, 509
 Gumelnița -Karanovo VI Culture, 506
 Gumelnitsa, 305, 662
 Gumelnitsa Cultures, 309, 313
 Gumista River, 840, 842, 848–850, 852–856, 859
 Gümüşhane, 538
 Gümüşhane-Trabzon, 543
 Günz glaciation, 389–390
 Gur, 786
 Gura Bacului, 495
 Gurian, 390
 Gurian-Chaudinian boundary, 744
 Gvandra, 839
 Gvozdev, 381
 gypsum, 123
- H**
- Hacıoglu, 703
 Hacilar, 790
 Hacilartepe, 590
 Hadera Sands, 821
 hailstones, 640
 hairy vetch, 379, 499
 Halicioğlu, 641
 Halic, 556
 halophilous, 469
 Halys, 698
 Hamangia Culture, 502, 505–506, 509
 Hamburg, 641
 Hamra, 820, 828
 hanging Valleys, 555, 581
 Haramidere, 549
 hare, 281, 288, 497
 Harmene, 702–703
 Hassuna, 365
 Hattic, 776, 778, 791
 Hausa, 779
 Hazars, 637
 hazelnut, 262, 301–302, 492
 Heinrich event N 1, 134
 Hellenic Trench, 572
 Hellenistic, 332, 337, 698
 Hengelo Interstadial, 283–284, 286, 288, 300
 Heraclea, 698
 Heraklean Peninsula, 320–321, 326, 329–332, 335
 Heraklea Pontika, 337
Hercules ROV, 679, 681
 Hercynian geosyncline, 265
 Hermonasse, 754
 Herodotus, 635, 704–705
 Hieron, 637
 highstand, 80, 97, 124, 133–134, 138, 231, 234, 389, 394–395, 399, 410, 448, 589, 608, 624
 Hind Balkan fault, 458
 Histria, 698
 Hittite language, 778, 781
 Hittites, 665, 699, 702
 Hmong-Mien, 785
 hoard finds, 668
 Hoca Çeşme, 495, 502
 holeuryhaline, 159–160, 165, 167–168, 170
 Holocene, 255
 climatic changes, 259
 transgression, 261, 271–272
 Holocene Climatic Optimum, 172–173, 228, 230, 308–309
 Horcha village, 843, 848
 hornbeam, 262, 465, 497
 hornblende, 123
 horses, 143, 288, 303, 306, 310–311, 346, 348, 350, 355, 360, 366, 376, 379, 497, 499, 781, 786
 domesticated, 143
 horsts, 538, 548–549, 555, 558–560, 562
 Huave, 785
 Hungary, 518, 641, 666
 Huns, 815
 Hurrian-Urartian, 776, 787
 hydrogen sulfide, 394–396
 hydroisostasy, 798
 hydromica, 125
 hydrotroilite, 73–74, 161

hydruntine, 360, 497
 Hyrcanian forest, 325
 Hızır Creek, 582

I

Iberian Peninsula, 815
 iceberg, 256
 Icelandic, 777
 Icelandic Low, 54
 ice sheets, 398, 798–799
 melting, 226, 230, 243
 ice volume, 238
 IFREMER, 70, 439–440, 449
 IGCP Project 521, xiv, 180
 Igren', 304, 356, 381, 495
 Igren' 8, 306–307, 357–358, 364, 372
 Igrovitsa I, II, 284, 287
 Ijoid, 786
 İköztepe, 662–663, 698, 702, 704
 ilmenite, 445
 Ilıpınar, 662, 698, 702–704
 Ilskaya I, 284, 287
 Imeretia lowland, 720–721, 723
 Imeretian Culture, 142
 Imnatskoe bog, 721, 835, 837, 843, 850
 Inceburun, 702–703
 Inceburun Peninsula, 612
 Indian Ocean, 540
 Indo-European, 776–779, 781–783,
 787–791
 Indo-European dispersal, 507
 Indo-European languages, 349
 Indol foredeep, 267
 İgneada, 549, 616
 infrared optically stimulated
 luminescence (IRSL), 820
 ingression, 426
 Inguri River, 610, 722–723, 840, 843,
 845, 848
 INQUA, 121
 Institute for Aegean Prehistory, xv
 Interglacial Period, 225
 interglacials, 234, 260, 339, 440, 742,
 799, 829
 interstadials, 472

Intertropical Convergence Zone
 (ITCZ), 645
 ion diffusion studies, 463
 Iranian, 777–778, 787
 Iris River, 698
 Iron Age, 523, 657, 702, 706, 753
 Iron Gates Gorges, 519–521
 iron hydroxide, 123
 iron oxides, 125
 Irtysh River, xxi
 Iskar, 494
 Iskenderun, 27
 Iskenderun Bay, 27–28, 41–42,
 589
 isostasy, 234
 İstai IV, 353–354, 360
 İstai VI, 351
 Istanbul, 320, 388, 547–549, 554–555,
 558–559, 561–562, 634–636, 639,
 643, 665, 698, 752
 precipitation record, 644
 winter precipitation, 645
 Istanbul University, 155
 Istria, 320
 Istriian, 398
 Italy, 639
 IUGS, xiv
 Ivanovskaya, 361
 ivory, 281
 İyisu, 585, 588
 Izmail, 502
 İzmit, 582
 İzmit Bay, 161, 176, 179, 229, 573,
 576, 578, 581, 583–586,
 589–590
 uplift rates, 588–589
 İzmit Gulf, 66
 İzmit Gulf-Sakarya Valley, 169
 İznik Bay, 590
 İznik Lake, 573, 581, 585, 590

J

Japanese-Ryukyuan, 776
 Jarmo, 790
 Je-Kalgan, 350–352

- Jericho, 812
 Jordanes, 636
 Jordan Valley, 824
 Joukowsky Family Foundation, xv
 Judean Hills, 810
 Jurassic, 323
- K**
- Kabardian, 783
 Kabazi II, 283–285, 287–288, 290
 Kacha River, 321
 Kadiköy, 556
 Kadugli-Krongo, 786
 Kair-Shak, 351
 Kair-Shak III, 354, 362–363
 Kairy, 381
 Kağithane-Alibeyköy River, 550–551
 Kağithane Deresi, 98, 103, 549, 639
 Kakhovka, 381
 Kalamitian, 166, 172, 174, 392–393, 717, 721
 Kalamitsky Bay, 154, 175, 199
 Kalanchak River, 268
 Kalaus River, 129
 Kalinian, 390, 392–394
 Kalinin glaciation (Würm I), 254
 Kalmius River, 504
 Kalos Limen, 312
 Kama River, 139–140
 Kama Valley, 130
 Kamchia River, 458, 470
 Kamenka, 374
 Kamennaya Balka, 142
 Kamennaya Moghila, 356, 360, 363, 381, 495
 Kamennaya Moghila 1, 496, 500
 Kamennobalkian, 379
 Kamçıya River, 502
 Kandilli Observatory, 641
 Kantemir, 381
 kaolinite, 125, 414
 Kapıdağ Peninsula, 662, 664
 Karaagatch River, 470
 Karabanovo, 381
 Kara-Bogaz–Gol Bay, 201
 Karaburun, 549, 555
 Karadzha, 267
 Karacaköy, 549
 Karamürsel, 585
 Karangat, 313, 426
 Karangatian transgression, 126, 253, 255, 260, 283, 390–394, 401, 736, 739, 744–746, 748, 752, 758–759, 761
 salinity, 394
 shorelines, 299
 Karanovo, 662, 677
 Karanovo I, 504
 Karanovo I-II Culture, 501–503, 508
 Karanovo I-Starčevo-Criş Culture, 658, 666
 Karanovo VI, 702
 Kara Sea, xxi
 Karasu Valley, 549, 700–701
 Kardashinski Swamp, 332
 Karkinit horizon, 395
 Karkinitian, 392–393
 Karkinitzky Bay, 154, 159, 166–167, 175, 199, 395, 407, 413, 423–424, 426, 428
 Karkinitzky lagoon, 423
 Karkinitzky paleolagoon, 423
 Karınca Creek, 582
 Karpinsky Swell, 127
 Karpovo, 381
 karst, 347
 Kartvelian, 776, 779, 782–783, 788
 Kashka, 702
 Katarzhino, 381
 Kavarna, 469
 Kazachya Ridge, 836–837
 Kazakhstan, 298, 350
 Kazanka, 381
 Kazantip Bay, 752
 Kazıklı Creek, 582
 Kebaran Culture, 811, 824
 Keçioğlu, 703
 Kelasuri River, 843–844, 850–852, 854
 Kerasus, 698

- Kerch-Anapa area, 752
 Kerch Peninsula, 267
 Kerch shelf, 176, 208
 Kerch Strait, 65, 80, 130, 154, 167,
 176, 199, 205, 225, 236, 265, 391,
 395, 438, 442, 638, 712, 717,
 719–720, 733, 736, 739, 743, 748,
 752, 756, 836, 839, 852, 859
 samples, 155
 Kerch-Taman area, 715, 717, 746
 Kerch-Taman shelf, 213, 738, 740, 744,
 749
 Kerkenitis, 132
 kettle depressions, 267
 Khadzhibeian, 422, 428
 Khadzhibeysky Liman, 154, 198, 426,
 712, 842, 846
 Khalba, 360
 Kharba, 350, 354
 Khazarian, 125
 Khipsta River, 841–842, 857
 Khobi River, 717, 722, 843, 848, 859
 Khooper River, 139
 Khvalynian transgression, 76, 92–93,
 127, 129–135, 137–138, 140, 143,
 301, 347, 350
 deltas, 138
 endemic species, 126
 molluscs, 126
 oscillations, 134
 oxygen, 126
 radiocarbon dates, 133
 salinity, 126
 sediments, 123, 125
 terraces, 124, 130
 turbidity, 126
 Khvalynian Basin, 120, 122, 129, 136,
 142
 Khvalynian Sea, 746
 Khvalynsk Culture, 507, 781
 Kichkas, 357
 Kiev, 324
 Kilez Creek, 582
 Kilia Delta, 400
 Kiliya, 502
 Kilyos, 549
 Kimmerian, 743
 Kinburnskii, 267
 kinetic isotope fractionation, 810
 Kiryatibya, 381
 Kishinev-Constanța, 267
 Kiten, 469–470, 485–487
 Kızılırmak River, 584, 609–611, 660–
 661, 663, 698, 704
 Kiziltash Liman, 835, 838–839, 841,
 844
 Kizlevyii, 381
 Kobanian Culture, 842
 Kobuleti, 712, 715, 836–844, 846–847,
 849–851
 Kocaeli Penneplain, 581, 584
 Kocaeli Peninsula, 549
 Kocagöz, 702–704
 Kocagöz Höyük, 663
 Koca River, 584
 Kocası, 91
 Kocatepe, 662
 Kodora, 845
 Kodori River, 175, 214
 Kodori River Delta, 712
 Kodorski Cape, 845
 Kodyma, 381
 Kodzhadermen-Gumelnitza-Karanovo
 VI Culture, 456
 Kofun Period, 815
 Kogulnik River, 298
 Kogylnik, 502
 Kolkhida Depression, 394
 Kolkhidian regression, 166, 172, 177–
 178
 Kolodiev, 284, 287
 Kominternovskoe, 381
 Konecpol', 381
 Konstantinos V Kopronymos, 636
 Koprivets, 495, 503–504
 Kordofanian, 786
 Korean, 776
 Korsunian regression, 172, 265, 313,
 471
 Kösk Höyük, 703–706

- Kösk Höyük-Gerze, 702
 Kostenki, 290
 Kostenki 1, 292
 Kostenki 8, 282, 285
 Kostenki 14, 291
 Kostenki 17, 281, 291
 Kostenki-Borshchevo area, 292
 Kostenki II, 346
 Kotyora, 698
 Koğukdere, 549
 Kouphis River, 637
 Krasnogorka, 381
 Krasnovodsky Bay, 201
 Kremenian Culture, 495, 503
 Kremennaya, 495
 Kremennaya Gora (Aleksandrovka),
 381
 Kremennaya II, 502, 509
 Kremikovtsy, 495
 Krems-Dufour variant, 282
 Krems points, 282
 Kru, 786
 Kuban paleo-valley, 749
 Kuban River, 2, 154, 266, 287–288,
 290, 305, 660, 712
 Kuban River Delta, 712, 720–723,
 835–839, 841, 844–847, 849–850,
 854
 Küçük Akgöl, 333
 Küçükçekmece, 549, 556
 Kudepsta River, 849–850
 Kugat, 363
 Kukrek, 306, 356, 381, 495
 Kukrekian, 306
 Kukrekskaya, 354, 356–357, 359–360
 Kulan, 497
 Kulevi village, 859
 Kuş Lake, 582
 Kuş (Apoloyont) Lake, 575
 Kuş (Manyas) Lake, 581
 Kuma transgression, 124, 132
 Kumköy, 616
 Kumtepe, 590
 Kunova Balka, 381
 Kura-Araxes River drainage, 660
 Kura Delta, 201
 Kura River, 138
 Kura River Delta, 143
 Kurbağalidere River, 79–80, 98, 103,
 152, 556
 Kurdumovka, 284, 287
 Kurgan migrations, 656
 kurgans, 310, 656, 660
 kurkar, 828
 Kurzak-Koba, 303
 Kuvan River, 388
 Kuyalnitiskii Basin, 253
 Kuyalnitiskii Liman, 154, 426, 712
 Kuyalnitisky lagoon, 858
 Kwa, 786
 Kıyıköy, 549, 616
 Kytoros, 698
 Kyzikos, 698
- L**
 lagoons, 268, 665, 713, 719, 754
 Lake Baikal, 361
 Lake Durankulak, 468–469
 Lake Inkit, 842–843
 Lake Iznik (Nicea), 578
 Lake Kastoria, 463
 Lake Kinneret, 814
 Lake Mandra, 471
 Lake Razim, 400
 Lake Saki, 321, 332
 Lake Shabla-Ezeretz, 468
 Lake Sinoie, 396, 400
 Lake Tuzlata, 469–470
 Lake Van, 106, 171, 485
 Lake Varna, 468
 Lake Zmeinoe, 841
 lamb's quarters, 379
Lamelle Dufour, 282
 Lamont-Doherty Earth Observatory,
 xii, 81
 Landsat, 611
 Langhian Age, 541
 language *catalyst stock*, 785
 language family, 776–777
 age, 777

- language stock, 776
 language stock cluster, 785
 Lapita Culture, 778
 Laposh, 381
 Lapos Poina Roman, 528
 Largu Cornul Malului, 528
 Largu Le Calentir, 528
 Lasian transgression, 471
 Laspi, 207
 Laspi 7, 303
 Last Glacial, 299
 Last Glacial Maximum (LGM), xiv,
 51–52, 54–55, 144, 153–154, 175,
 179, 224–225, 231, 244, 270, 272,
 300, 346, 350, 376, 396, 406, 410,
 424, 439, 441, 465, 500, 518–519,
 606, 612, 634, 798, 809–811, 814,
 824, 827
 Last Interglacial, 282–283, 287, 289,
 299
 Late Glacial, 460–461, 463, 465, 467,
 472
 Late Glacial Maximum
 evaporation, 225
 rainfall, 225
 Late Old-Euxinian, 253, 255
 Late Paleolithic, 141
 Late Pleistocene, 124
 Late Pleistocene Climatic Optimum,
 230
 Late Pleniglacial, 289, 460
 Late Pliocene Akchagylian, 127
 Late Tripolye, 310–311
 Late Würm cryochrome, 225
 Laurentide ice sheet, 56
 lava, 541
 Lazarevskoe, 712, 715, 844–846,
 852–853
 Lazarevskoe village, 848
 LBK. *see* Linear Pottery Culture
 Lebyazhinka IV, 361
 Lee Stocking Island, 26
 legumes, 666
 Leipzig, 640
 Lenino, 381
 Leo Grammaticus, 638
 Leo III, 636
 Leont'evka, 379, 381
 Lepenski Vir, 495, 677
 Leski, 376
 Lessepsian immigrants, 41–42
 Lesser Caucasus Mountains, 541, 543
 Letea-Caraorman spit, 399–400
 Levallois-Mousterian, 279–280,
 283–291, 299
 Levant, 300, 313, 812
 LGM. *see* Last Glacial Maximum
 Likhvin interglacial, 254
 limans, xi, 72, 80, 224, 236, 268, 298,
 304, 375, 409, 423, 426, 428, 492,
 506, 508, 715, 717, 721–722, 751,
 754
 limans/lagoons, 712
 lime, 106, 172, 301, 308, 310, 492, 815
 limestone, 227, 717, 748
 linden, 262
 Linear A, 791
 Linear Pottery Culture (LBK), 308,
 313, 349, 502, 504–505, 509
 radiocarbon dates, 308
 listric faults, 544–545, 573
 Listvyanka, 381
 lithic, 521
 lithic scatters, 662
 Lithuania, 641
 Little Climatic Optimum, 639
Little Hercules ROV, 679, 686
 Little Ice Age, 428, 640, 646, 723, 815
 Liventsovka, 504
 Livorna, 641
 loess, 210, 299, 301, 373, 391, 506,
 752, 810
 Lokhansty, 381
 Lom River, 503–504
 Losipovka, 381
 Lower Dnepr Sands (Kuchugury), 381
 Lower Danube Plain, 503
 Lower Don Culture, 502
 Lower Dryas, 392–393
 Lower Euxinian, 394

- Lower Kamchia Depression, 458
 Lower Paleolithic, 820, 824
 Lower Volga, 284
 low magnesium calcite (LMC), 810, 821
 lowstand, 64–67, 77, 79, 81, 99, 102, 107, 109, 113, 124, 152, 173–175, 389, 395, 397, 399, 440, 448, 605–606, 608, 612–613, 615, 621, 625
 Lutetian Age, 540
 Lykhvinian, 390
 Lyubimovka Beach, 321, 324–325
- M**
- Macedonia, 666
 Mackenzie River, xxi
 macromeanders, 131, 133, 139–140
 Madzharka River, 843–844, 850–852, 854
 Maeotis, 312
 Magri, 391
 Mahachkala regression, 132
 Mahachkala transgression, 124, 132
 Maidanetskoe, 311
 maize agriculture, 785
 Makopse, 391
 Malm Epoch, 540
 Maltepe, 702
 Malusteani, 381
 Malye Khatki, 381
 mammoth, 281, 303, 376
 mammoth steppe, 346, 350
 Manchuria, 786
 Mande, 786
 Mandra, 471
 Mandzhil terrace, 391
 Mangalia, 396
 Mangana, 637
 Mangyshlak, 127, 131, 138
 Mangyshlak regression, 124, 132
 mantle response models, 799
 Manych Depression, 76, 91–92, 101–102, 126–127, 134, 224, 283, 301, 347, 389, 394, 746
 Manych-Gudilo Lake, 129
 Manych-Kerch Gateway, 49
 Manych-Kerch Outlet, 176
 Manych-Kerch Spillway, xx, 120, 127, 129, 132, 136–138, 141–142, 179
 delta, 130
 ridges, 130
 Manych-Kuma area, 605
 Manych River, 127, 130
 Manych Strait, 128, 260
 maple, 301, 308, 492
maquis, 323
 Marica River, 494, 502
 Marievka, 357, 359, 500
 Marine Polar Air Mass, 645
 Marine Tropical Air Mass, 645
 Mariupol, 311, 359
 Mariupol' Culture, 357, 495, 498, 502, 504–505, 509
 Mariupol-Nikol'skoe, 359
 Markitanskaya spit, 836, 838
 Markov analysis, 422
 Markov chains, 409
 Marmara area, 658, 664, 667
 cultural terminology, 659
 early Bronze Age, 664
 Marmara Sea Gateway, 49, 90, 92, 95, 97, 111–112, 114, 227, 271
 Mar'yanovka, 381
 Marzaleevka, 381
 Matuzka, 285, 290
 Matveev Kurgan, 356, 360, 363, 365–366, 381, 495, 497–498
 Mayan, 777, 785
 Mazandaran, 448
 Medeia, 637
 Medieval Period, 656
 Medieval regression, 428, 723
 Medieval Warm Period, 639
 Mediterranean Biome, 320, 337
 Mediterranean climate, 322
 Mediterranean fauna, 622
 Mediterranean Sea, 5, 66–67, 73, 75, 77–81, 90–91, 93, 95–96, 100, 111, 136–137, 151, 157, 214, 217, 225,

- 228, 252–253, 261, 300, 302, 335, 394, 396, 399, 441, 492, 558, 562, 576, 675, 724, 742, 746, 757, 815, 819, 819
- average salinity, 158
- salinity, 387
- sea level, 827
- sea-level change, 252
- Mediterranean species, 720
- Mediterranean vegetation, 327
- Meganticlinorium, 267
- Meiotic Seas, 324
- Melanesia, 778
- Melitopol, 504
- Melovoe, 381
- meltwater, xxi, 67, 73, 76, 93, 140, 256, 270, 396, 398, 439, 441, 449, 463, 558, 562, 607, 676, 757, 760, 798
- Melt Water Pulse 1, 449
- Melt Water Pulse 1A, 177, 439
- Meotic Basin, 253
- Meotis, 174
- Meriç River, 584
- Mesembria, 637
- Mesoamerica, 785
- Mesolithic, 302, 305–306, 313, 328–329, 346, 349, 352–353, 372, 377, 380, 490, 494–495, 497, 499, 508, 518–519, 521, 655–658, 661–663, 676, 678
- burials, 304, 306
- Early, 350–351, 354–356, 359–360
- Late, 348, 350–351, 353–360, 364–365, 379, 496, 498, 500–502
- material culture, 303, 306
- physical types, 307
- radiocarbon dates, 304, 307
- sea level, 508
- settlement pattern, 303–304
- subsistence, 303–304
- Mesolithic sites, 528
- mesophytic, 492
- mesophytic steppe, 499
- Mesopotamia, xiii, 131, 143–144, 150, 349, 366, 698, 778, 780–782, 787–789, 791, 814
- Mesozoic, 127, 540, 585
- metamorphics, 576
- metaophiolites, 576
- methane, 612
- Mezarliktepe, 702–704
- Mezen[?] River, 140
- Mezhvodnenskaya brachyanticline, 267
- Mezin, 346
- Mezirich, 346
- Mezmaiskaya Cave, 285, 288, 290, 299
- micas, 123
- Micoquian, 279–280, 283–285, 287–291, 299
- micro-alasses, 141
- microblades, 282
- microlithic, 824
- microliths, 142, 303, 306, 350, 352, 354, 359–360, 376, 379, 498
- Middle Bronze Age, 702, 814
- Middle Miocene marine Basin, 253
- Middle Paleolithic, 279, 282–292
- Middle Pleniglacial, 286, 288–289, 291
- Middle-Valdaian Megainterstadial, 300
- Middle Weichselian, 161, 179
- Mikhailovka, 311
- Mikulianian interglacial, 392–394
- Milankovitch, 50, 258
- Milankovitch cycles, 244, 388–389
- Miletus, 699, 705–706
- miliolids, 159
- millet domestication, 785
- Mindel (Elsterian) Glaciation, xii, 389, 588
- Mindel Regression, 390
- Mindel-Riss, xii
- Minoan civilization, 784
- Minoan language, 791
- mint, 323
- Miocene, 298, 324, 540–541, 543, 547–548, 552, 556, 558, 560, 562, 575–576, 583, 585, 588, 590, 615, 742

- Miocene-Pliocene, 581
 Mirnoe, 305–307, 360, 374, 377,
 379–381, 495, 498, 500, 502
 pollen diagram, 378
 Mirnoe 1, 304
 Mirnoe-na-Baraboe, 381
 MIS-2, 164, 175
 MIS-3, 161, 164
 Mississippi River, xxi, 103, 128–129
 Missouri River, 103
 Mitoc Malul Galben, 282, 285,
 289–290
 Mius River, 365, 497
 Mixe-Zoque, 785
 Mladeè points, 282
 Moershoofd Interstadial, 283–284,
 286–287, 289, 291
 Moesian Platform, 458
 Moldavia, 308–309, 363, 506, 509,
 656–657
 Moldova, 500, 503
 molluscs, 24, 393
 biocoenoses, 24–25, 30–32
 biostratigraphy, 25
 ecological categorization, 30
 environments of deposition (EOD), 25
 longevity estimates, 24
 preservation code, 29
 sampling, 28
 specimen counting, 28–29
 status code, 30
 stratigraphic distribution, 174
 taphonomic grades, 26
 taphonomy, 24, 29
 thanatocoenoses, 25–30, 42
 time-averaging, 25
 Molochnaya River, 496
 Molodova, 285, 287, 290
 Molodova I, 4, 284
 Molodova Mousterian Culture, 280
 Molodova V, 289, 346, 355
 Mologo-Sheksnian interstade, 390,
 392–393, 395
 Moltavskoe bog, 839, 841
 molybdenum, 752
 monadnocks, 550
 Monasheskaya, 2–4, 284, 288
 Mongolia, 298, 655, 778, 786
 monsoon, 815
 Montdidier, 640
 montmorillonite, 125, 414
 Morozovian-Nogayskian, 390
 Moscovian, 390, 394
 Moscow, 641
 Mospino, 381
 Mostovyanskiy village, 836–837
 Mousterian, 281, 299, 376
 radiometric dates, 299
 mud drape, 97, 99–102, 107, 113, 446
 mudstone, 323
 mud volcano, 733
 Muralovka, 376
 Murzak-Koba, 304, 328–329, 355–356,
 360
 Murza-Koba Culture, 303
 Murzakobian, 304
 Murzina Balka, 381
 Museum of Natural History, Paris, 156
 mussels, 691
 Mustafakemalpaşa River, 581, 584
 mustard, 331
M/V Northern Horizon, 679, 693
 Mycenaean Greek, 781, 784
 Mykulinian, 390
 Myuserskaya Heights, 716
 Mzyb' River, 733, 735
 Mzymta-Psou interfluvial, 721
 Mzymta River, 720–721, 846, 849–851,
 853–856, 859
- N**
 Nabadian peat, 721
 Nabadskoe bog, 843, 852
 Nabataean Culture, 814
 Nagornoe, 309
 Nahsholim Sand, 823
 Nahuan, 785
 Nakh-Daghestanian, 780
 Nancy, 640
 Nanevska Structure, 458

- nannoplankton, 393
 Naples, 640–641
 Narodich, 355
 Natanebi River, 836–837
 NATO, xv
 Advanced Research Workshop (ARW), xiii, 121, 180
 Natufian Culture, 812–813, 824–825, 827
 Navodari, 396
 NBF. *see* Northern Boundary Fault
 Neanderthals, 285, 299–300, 313
 Nea Nikomedeia, 490, 495
 Neapolis, 312
 Near East, 659, 809, 814
 Negev Desert, 810, 812, 813
 Nekropolai River, 637
 Neochernomorian, 739, 842–843
 Neoeuxinian, 66, 72–74, 78, 80–81, 126–127, 131, 135, 137, 140, 159, 166, 174, 206–208, 213, 217, 225, 236, 255, 262, 265, 271, 300–301, 373, 390–393, 395–397, 401, 409, 411, 424, 426–427, 441, 459–460, 462, 464, 467, 558, 562, 605–606, 624, 690, 712, 717, 719–720, 736, 739, 743–745, 747–753, 757–759, 761, 763, 854
 Caspian immigrants, 169
 coastline, 375
 deltas, 164–167
 Early, 164, 173, 176, 179, 395, 425
 lake, xii, 93, 150, 152, 173, 176–178, 396, 398, 410, 412, 424, 558, 562, 626, 634, 675, 677, 683, 688, 692
 Late, 176, 179, 414, 423, 426
 Lower, 161, 164, 167
 regression, 267
 salinity, 127, 167, 177, 395, 461
 sea level, 151, 236, 269, 301
 sea-level changes, 265, 427, 745
 sediments, 135, 209, 211, 213
 shorelines, 215, 236, 396, 398
 transgression, 462, 492–493, 746, 754
 Upper, 167, 169, 172, 178, 410, 412–415, 423, 457, 460
 wave-cut terrace, 397
 Neoeuxinian Basin, 120, 122, 129, 136, 142
 Neoeuxinian-New Black Sea, 732
 Neoeuxinian (Novoevksinskie), xi
 Neoeuxinian-Old Black Sea, 732
 Neogene, 174, 208–209, 213–214, 393, 584, 717, 748, 758
 Neolithic, 308, 330–331, 334, 349, 354, 361, 377, 449, 489, 494–495, 497, 515–516, 518–520, 522, 524, 527, 590, 655–659, 661, 666, 673, 676–678, 686, 702–703, 779, 787–788, 790, 826
 Early, 362–364, 381, 493, 495–496, 498, 503–504, 508
 Late, 362, 496, 504–505, 509
 sea level, 509
 neotectonic movement, 394
 Neotectonic Period, 540
 neotectonic processes, 176
 NeoTethys Ocean, 540, 572, 585
 Neotyrrenian, 390
 nepheloid, 735
 Nessebar, 468–469, 471
 Netanya, 820–821
 Netanya Hamra, 822–823, 827–828
 net potential evaporation (NPE), 109–110
 New Black Sea, 68, 96, 206–207, 211, 213–215, 262, 265, 314, 373, 390–391, 409–411, 462, 492, 714, 751, 753, 757
 sediments, 209
 New Black Sea, 309–310
 New Black Sea transgression, 462
 New Caspian, 125
 New Euxinic Stage, 461
 New Guinea, 786
 Niagara Falls, 150–151, 399, 757
 Nicephorus, Patriarch of
 Constantinople, 636–637, 639, 644
 Nicephorus II Focas, 638

- Nicholas Island, 230
 Nicomedia, 577
 Niger-Congo, 786
 Nikitskiy Botanical Garden, 322
 Nikolaevka, 381
 Nikol'ski, 311
 Nile River, 638, 815, 819
 Noah, 438
 Noah's Flood, xii, xiii, 93, 121, 131,
 150–151, 154, 179–180, 349, 577,
 604, 652–653, 675, 697
 “Noah's Flood Hypothesis,” xx, xxi–xxii
 Nobel, 355
 Norse, 777
 North Aegean trough, 253
 North Anatolian Fault (NAF), 91, 98,
 538–539, 541–542, 547–548, 558–
 559, 561, 572–573, 575–578, 581,
 584–585, 588–590, 664
 strands, 573
 North Atlantic, 242–243
 North Atlantic Oscillation (NAO), 644
 Index, 646
 North Caspian Depression, 350
 North Caspian steppes, 354
 North Caucasus Mountains, 347
 North Crimea Plain, 267
 Northern Aegean Trough, 576
 Northern Atlantic, 239
 Northern Boundary Fault (NBF),
 548–550, 558–561
 Northern Caucasus, 284–285
 Northern Structure, 458, 460
 North Pontic Depression, 298
 North Pontic Lowland, 373
 North Pontic steppe, 345–346, 349,
 354, 356, 359, 372–373, 377
 farming, 379, 381
 pollen record, 377
 stock breeding, 381
 North Sea, 398
 Northwestern (NW) shelf, 2, 5–6, 8, 15,
 150, 158–159, 161, 166–167, 175,
 199, 205, 207, 209–210, 214–215,
 225, 229, 232–234, 236, 243–245,
 261, 265, 268, 374–375, 388, 406–
 408, 414, 422, 424–428, 611, 712,
 719, 747, 835, 836, 838–840, 842,
 846–849, 851, 853–859, 861
 marine terraces, 233, 235
 tectonic movements, 229, 426
 Nosovo I, 284, 287
 Novaya Dophnovka village, 856
 Noveselitsa 1, 500
 Novo-Arhangel'sk, 381
 Novochernomorian, 409–415, 420–424
 sea level, 426
 Novochernomorskaya, 840
 Novo-Danilovka Culture, 506
 Novo-Petrovskoe, 381
 Novorossiysk, 319–320, 322, 324–325,
 338, 388, 712
 Novorossiysk-Tuapse, 320, 337
 Novoselicy I, 381
 Novoselitsa, 502
 Novoselovo anticlinal dome, 267
 Novoselskoe, 309
 Novyi Afon, 712, 715, 836, 839,
 842–843, 845–847, 849–853, 857
 Nubian Desert, 815
 Nubian sandstone, 810
 Nuntash lagoon, 154, 198
 nutwood, 172
 Nymphaean transgression, 172, 262,
 265, 312, 314, 390–391, 398, 462,
 471, 606, 722–723, 835–836, 837
 Nymphaeos, 312
- O**
 oak, 106, 262, 301–302, 308, 310, 322–
 323, 330, 462, 465–466, 470, 472,
 485, 487, 492
 oak-pistacio, 171
 Ob River, xxi
 Obshchiy Syrt upland, 123, 130
 obsidian, 227
 Ochamchira, 722, 835, 845
 Odderade, 284, 299

- Odessa Bay, 154, 158–159, 171, 199,
 266–267, 302, 310, 320, 375, 388,
 712, 841, 843, 845, 858
 Odessa sand-bank, 855–859
 Odessa State University, 155
 Odessa tidegauge, 760
 Odintsov interglacial, 254
 Odyntzovian, 390
 Ogrădeana, 495
 Ohalo II, 811
 OIS 2, 300
 OIS 3, 224, 289, 291, 300, 313
 OIS 4, 289, 291, 299, 313
 OIS 5, 299, 313
 OIS 5a, 234
 Oka glaciation (Mindel), 254
 Oka River, 140
 Okan, 390
 Olbia, 310, 312, 320, 698, 840
 Old Azov age, 752
 Old Black Sea, 68, 94, 206–207, 211,
 213–216, 265, 390–391, 398,
 409–411, 462, 464, 743–744,
 751–754, 757, 763
 coastline, 375
 sediments, 209
 Old Chernomorian, 739, 748
 Older Dryas, 462, 525
 Oldest Dryas, 74
 Old Euxinian, xi, 736, 739, 744–745,
 748, 752, 758–759, 761
 Old Planina, 267
 Ol'ginka River, 837–838, 841, 843–
 844, 846, 848, 850–851, 853, 857
 Oligocene, 253, 540, 556, 615
 oligohaline, 156–157, 160, 163, 165,
 167–168, 170, 175
 olive, 322
 Omotic, 779
 onagers, 350–351, 354, 360, 366
 Ordu, 610, 668
 Orenburg, 347
 organic content, 408, 413
 Orhaneli River, 584
 Orhangazi, 590
 orictocenoses, 712, 714, 720
 Orlovka, 381
 Ormanlı, 616
 Ortaköy, 640
 oscillating sea level, 406, 426–428,
 457, 460, 507, 753–754, 757, 760
 Oskorivka, 304, 376
 Osman II, 639
 Osman III, 640
Osnovi Paleontologii, 156
 ossuary, 357
 Ostashkovian, 390, 392–393, 395
 Ostracoda, 752
 Ostrovul Mare, 495
 Otomanguean, 785
 Ottomans, 698–699
 Ourdoviza, 457, 469
 Outflow Hypothesis, xx, 94–95, 151
 Outflow Hypothesis I, 96
 Outflow Hypothesis II, 96–97, 107,
 110, 112, 114
 Ovčarovo, 495, 503
 overkill, 379
 overthrusts, 573
 Ovid, 635
 ox traction, 781
 oxygen isotopes, 64, 73, 75–76,
 104–105, 135, 229–233, 235–241,
 245, 256, 263, 265, 270, 424, 441,
 463, 606, 626, 810, 811–814, 821,
 827, 829, 829
 Oxygen Isotopic Stage 1, xii
 Oxygen Isotopic Stage 2, xii
 Oyrat Ridge, 267
 Ozernoe, 305, 309
- P**
 Pacific Ocean, 235
 Pacific Rim, 787
 Padina, 495
 paleo-lasses, 141
 Paleoclimate Modeling
 Intercomparison Project (PMIP),
 49–52, 56, 58, 60
 Paleo-Danube River, 396

- Paleo-Dnieper River, 396
 Paleo-Don River, 65, 743, 748
 paleoecology, 23
 Paleoeuxinian, 390–391, 562
 Paleogene, 393, 748
 Paleo-Kuban River, 743, 748
 Paleolithic, 528, 661–662, 665, 676, 702
 Late, 500–501
 Paleontological Museum of Odessa National University, 156
 Paleo-River Provadiyska, 687, 689
 paleosols, 820–821, 828
 Paleostomi Lake, 721, 723, 835, 837, 840, 843, 850, 852
 Paleotectonic Period, 540
 PaleoTethys Ocean, 540
 Paleotyrrenian, 390
 Paleo-Uzunlarian, 253, 255, 390–391
 Paleozoic, 79, 548, 550, 552, 555–556, 576, 609
 Palmyra, 811
 Pamukova Basin, 581, 583
 Pannonian alluvium, 518
 Panticapaeus, 312
 Panticapaion, 320
 Paratethyan, 552
 Paratethys Sea, 157, 540–541
 Pardina Depression, 400
 Paris, 640
 Paudorf, 392–393
 peat, 159–160, 165, 168–170, 173, 377, 410–411, 422–423, 468, 470–471, 713, 717, 719–724, 751–752, 835–844, 846–848, 850–857, 859
 Pechora River, 140
 pedogenic episodes, 829
 Peirovskoe, 381
 pelecypod, 209
 pellitic, 751
 pellitomorphic clays, 125
 Peloponnese, 322, 635, 802
 Pelrovo-Orlovskoe, 381
 peneplain, 558
 periglacial zone, 301, 346, 500
 Peririf, 80
 permafrost, 121–122, 125, 127, 131, 139–141, 144, 161, 346–347
 Persian Gulf, 109–110, 150, 485
 Pervomayskiy, 266–267
 Peschanaya brachyanticline, 267
 Pesochnoe village, 836
 Petrovka, 381
 Phanagoreia, 312, 754
 Phanagorian, 166, 172, 265, 310, 312, 314, 390–391, 398, 424, 428, 462, 470–471, 753, 606, 722–723
 sea level, 310
 Phasis, 698
 Phoenician, 789
 Phrygana, 323, 326–327, 330–331, 333–334, 339
 pigs, 303, 309, 364–366, 497, 503, 520–521
 pike-perch, 303
 pine, 164, 169, 262, 286, 288, 299–300, 302, 410, 461–462, 472, 485, 492, 498
 pistacio, 108
 Pit-Grave Culture, 311, 778
 Pitsunda, 265, 712, 715, 721, 839
 Pitsunda Bay, 835–836, 845, 847, 850
 Pitsunda Cape, 841
 Pitsunda-Gagra, 714, 717
 Pitsunda Gulf, 716
 Pitsunda Peninsula, 716–717, 719, 722–723, 835, 836, 837–838, 840–846, 849, 851, 857–858
 Pivdennyi Bug, 496
 plant domestication, 524
 Pleistocene, 126
 Early, 760
 interglacial stages, 254
 precipitation, 256
 temperature, 256
 Pleistocene-Holocene boundary, 222, 463–464, 466, 472
 Pleniglacial, 161, 179, 461, 464, 472

- Pliocene, 174, 207, 324–325, 541, 548,
 555, 558, 562, 575, 581, 583–585,
 588, 590, 609, 742
 Plishcheevka, 381
 PMIP. *see* Paleoclimate Modeling
 Intercomparison Project
 PMIP GCM, 52, 54, 56, 59
 Pobiti Kamuni, 519, 521
 Pogrebennyi peat, 843
 Poland, 289
 polar fox, 281
 Polar Front Jet (PFJ), 645
 polyhaline, 156–157, 160, 163, 165,
 168, 170, 175
 Polynesian, 777
 Pomeranian, 392–393
 Ponsien-Pliocene, 576
 Pont brackish lake, 253
 Pontian, 166, 172, 743
 Pontic forest, 325
 Pontic Lowland, 301–302, 304,
 306–307, 309, 313, 492, 500, 502
 Pontic Mountains, 1, 253
 Pontic stage, 253
 Pontic steppe, 655
 Pontide Mountains, 538–541, 543–545,
 547, 572, 576, 588, 609, 611
 pore water, 268
 Portugal, 641
 Post-Chaudinian, 255, 735–736, 739, 744
 Post-Hengelo Stadial, 290
 Post-Karangatian, 255, 391–392,
 394–395, 401, 735–736, 739, 744,
 746, 748–749, 752, 758
 Post-Moershoofd Stadial, 288
 Post-Old-Euxinian, 255
 Post-Yenikalian' regression, 717
 Poti, 610, 721, 723, 839, 841, 843, 855
 pottery, 361, 363, 495, 497–498, 504,
 520–521, 656, 666, 701, 705
 pottery making, 354
 Pottery Neolithic, 655, 826–827
 Pottery Neolithic A, 813
 Poznanka, 381
 Pre-Balkan fault, 458
 Preboreal, 259, 302, 392–393, 462,
 464–465, 472, 492, 525
 Pre-Cambrian, 267
 precession cycles, 231
 Pre-Chaudinian, 744, 759
 Precucuteni-Tripolye A Culture,
 506–507
 Pre-Danube River, 164
 Pre-Dnieper River, 164
 Pre-Dniester River, 164
 Pre-Neoeuxinian, 261, 746
 Pre-Old Black Sea, 735
 Pre-Pottery Neolithic, 655
 Pre-Pottery Neolithic A, 813, 826–827
 Pre-Pottery Neolithic B, 813, 826–827
 Pre-Surozhian, 283
 Prichepovka, 381
 Prichernomorian, 169
 Prigibsky farmstead, 845
 Priimovo, 381
 Primorsko, 470, 485
 Primorskoe village, 854
 Pripet, 355–356
 Prishib, 381
 Privolzhskaya upland, 123, 130
 Prolom, 285
 Prolom I, 290
 Proniatin, 284, 287
 Propontida Basin, 120, 127, 136–137
 Propontis, 637–638, 698
 Proto-Afroasiatic, 780
 Proto-East Caucasian, 781
 Proto-Germanic, 777
 Proto-Indo-European, 349, 778, 781,
 791
 Proto-Neolithic, 655, 657
 Proto-Oceanic, 778
 Protosesklo Culture, 501–502, 508
 Proto-Uralic, 781
 Protva River, 139
 Provadiyska River, 469, 677
 Prut-Dniester Basins, 280, 282–286,
 289, 291

- Prut-Dniester-Southern Bug interfluve, 310
 Prut River, 266, 282, 287–288, 290, 298, 305, 380, 505–506
 Prut Valley, 291
 Pseudo-Dufour bladelets, 282
 Psezuapse River, 844–846, 852–853
 Pshady Valley, 391
 Psou, 856
 Psou River, 721, 744, 846, 849, 851, 853–855, 859
 Psyrcha village, 842
 Pugach, 495
 pulses, 503
 Pur River, 140
 pycnocline, 91, 113
 pyrite, 395
- Q**
 Quarantine Bay, 312
 quartz, 227, 310, 445, 819, 821
- R**
 radiocarbon dating, 160, 162–163, 165–166, 170, 174, 213, 270
 Raigorodok, 381
 Rakushechnyi Yar, 307–308, 495, 497–498
 Ramat Gan Kurkar, 823
 Rassypnaya, 495
 Razdol'noe, 495
 Razdorskoe, 495
 Razdorskoe 1, 498
 Razelm, 154
 Recent transgression, 166, 172
 red deer, 303, 309, 360, 376, 497, 520
 Red Sea, 109–110, 269–270
 reflectors, 99–102
 refugia, 325, 333–334, 339, 465
 regosol, 820–821
 regressions, 92, 124, 132, 213, 217, 226, 230, 255, 258, 261, 267, 283, 291, 299, 301, 310, 312–313, 373, 390–391, 395, 398, 406, 423, 425–426, 428, 471, 493, 605, 612, 626, 714–715, 719–724, 742, 745, 747, 749, 751–752, 757, 763
 reindeer, 286, 303, 346, 355, 376, 786
 relative sea level (RSL), 229
 remotely operated vehicle (ROV), 678–679
 rendzina, 321, 324, 326, 328, 331
 Reni, 502
 Rennes, 639
 Rhine River, 638, 640
 rhodoxeralf, 820, 829
 Rhone River, 641
 rias, 268
 Ribachya, 267
 rice domestication, 785
 Rigveda, 143
 Ril Mountain, 171
 Rioni River, 610, 698, 720–721, 840, 843, 852, 855
 Ripiceani, 381
 Ripiceni-Izvor, 284, 286–288
 Riss glaciation, 389
 Riss II, 394
 Riss regression, 390
 Riss-Würm, 392–394
 Riss-Würm Interglacial, 588, 591, 760
 Rize, 610
 roach, 303
 Robert I, 639
 Rodionov's criterion, 409, 420
 roe deer, 303, 309, 377, 497
 Rogalik, 355
 Rogalik-Tsaritsian, 379
 Rogalik-Yakimovska, 379
 Roman, 698
 Romance, 777
 Roman Empire, 814
 Romania, 309, 374, 484, 500, 503, 505, 516–519, 527–528, 676, 686
 Romanian shelf, 65, 68, 70–72, 77–78, 151, 161, 175, 213–214, 397, 401, 607, 619, 673
 bathymetry, 396
 Roman regression, 390
 Romanus I Lecapenus, 638

- Ropotamo, 457, 470
 Rosenstiel School of Marine and
 Atmospheric Science, xii
 Rostov, 497
 Rubcy, 381
 Rumeli Kavağı, 552
 Russian, 779
 Russian Plain, 288
 Russian Platform, 265, 463
 Russians, 699
 Russian shelf, 71
R/V Akademik, 679, 687–688, 694
R/V Aquanaut, 73, 82
R/V Arar, 613, 616–617, 626
R/V Atlantis II, xii
R/V Chernomorets, xi
R/V Glomar Challenger, 458
R/V "Hydrograph," xi
R/V Knorr, 3–4, 6–9, 12, 14–15, 681,
 693
R/V Koca Piri Reis, 114
R/V Le Suroît, 399, 443
R/V "Pervoe Maya," xi
R/V Pillsbury, xii
R/V Suroît, 68
 Ryn Peski, 350
- S**
- Sacarovca, 495
 Sadki village, 846–847, 849
 Sadkovskaya, 846–847, 849
 Sagaidak, 381
 Sagaidak 1, 376
 sag ponds, 577, 591
 Sahara Desert, 786, 810
 Sahel, 786
 saiga antelope, 303, 306, 348, 350,
 376–377, 499
 Sakarya Bosphorus, 66, 91–92
 Sakarya Delta, 606, 610–612, 616–617,
 620, 625
 lithology, 621
 Sakarya River, 66, 151, 179, 399, 577,
 581, 584, 590, 609–613, 626, 676
 Sakarya Valley, 161, 175
- Sakorkio village, 839
 salinity
 classification, 157
 continental type, 158, 177
 pore water, 408, 414, 423
 salinization, 814
 salmon, 303
 Salsky Swell, 130
 Samanlı Mountains, 584, 590
 Samanlıdağ, 581
 Samara River, 358
 Samara Valley, 361
 Samlar, 549
 Samotino East Structure, 458
 Samotino Sea Structure, 458, 460
 Samoyedic, 776
 Samsonovskoe, 495
 Samsun, 388, 610, 612, 698, 702
 San Andreas fault, 559
 sandstone, 821
 Sanskrit, 781
 Sapanca Lake, 179, 573, 577, 581,
 583–585, 590–591
 sapropel, 67–68, 74, 103–105, 107,
 112–113, 151–152, 172, 207–208,
 211, 216–217, 393–395, 399, 438,
 443, 448–449, 465, 562, 607–608,
 674–675, 684, 754, 827
 Sapropel M2, 608
 Sapropel S1, 441, 607, 626
 Sarata, 502
 Sarata River, 298
 Sarateni, 381
 Saratov, 347
 sardines, 705
 Sarmatian Saline Basin, 253
 Sarmatic Sea, 324
 Saroz Bay, 573, 578, 584, 590
 Sartas transgression, 124, 132
 Sasanian Persia, 815
 Sasyk, 154
 Satanai, 350
 satrap, 706
 savannah zone, 786
 Sazlidere, 549

- Sazlıkçayirdere, 549
 SBF. *see* Southern Boundary Fault
 Scaliger, 635–636
 Scandinavian ice sheet, 56, 122, 131, 139–140, 144, 176, 270
 Schela Cladovei Culture, 495, 528
 schists, 323
 Scythian Plate, 265
 Scythians, 699, 704
 Sea of Azov, 64–65, 72, 76, 80, 126, 130, 154, 157, 199, 232, 261–262, 266, 283, 286, 291, 301, 333, 337, 347, 355–356, 360, 363, 365, 380, 388, 491, 494, 497, 500, 504, 635–636, 638, 698, 712, 715, 720, 731, 749
 Black Sea immigrants, 157
 foraminifera, 156
 live foraminifera, 198
 maximum salinity, 158
 pollen sequences, 333
 samples, 155
 Sea of Azov-Black Sea Basin, 263, 265
 fault lines, 263
 neotectonic structure, 267
 Sea of Azov-Donbass, 289
 Sea of Galilee, 811
 Sea of Marmara, xx, 2, 5, 8, 10, 66, 77–78, 80, 91, 93–100, 102, 104, 106–107, 111–113, 127, 136–137, 151, 154, 157, 161, 164, 169, 176–178, 217, 227–229, 253, 269, 333, 335, 337, 399, 412, 423, 438–439, 441–442, 448, 461, 463, 492–493, 539, 547–548, 551–552, 556, 558, 560–562, 573, 576, 581, 606–607, 626, 634–636, 658–659, 663–665, 675, 698, 703, 797–798
 carbon isotopes, 105
 delta, 95–98, 101–103, 113, 151–152, 608
 foraminifera, 156, 608
 freezing, 644
 icebergs, 646
 oxygen isotopes, 105
 radiocarbon dates, 101, 105
 salinity, 105
 samples, 155
 tectonic features, 575–576
 uplift rates, 588
 water levels, 94
 sea-surface salinity (SSS), 104, 113
 Sebastopol Bay, 265, 303, 312
 Sebastopolisskiy Cape, 845, 852
 sedentism, 524
 Seekreide, 67
 Seim River, 140–141
 Selymbria, 635
 SEM, 156
 Semenovka, 495–496, 504
 Semenovka 1, 496, 504
 semi-desert, 298
 semi-fresh, 92–93, 112, 157, 164, 169, 172, 174, 177, 179, 214, 395
 semi-marine, 93, 103, 157, 172, 174
 Semitic, 776, 779–780, 782, 787, 791
 Serbia, 516, 518–519
 Sergeevka, 381
 serpentinite, 227
 Sesklo, 490, 495
 Sevastopol, 320–321, 324, 712, 854, 856
 Severnaya Dvina River, 140
 Seversky Donets Basin, 280
 Seversky Donets River, 287–288, 290, 304
 Seyhan River, 584
 Seymen, 582
 Shabla-Ezeretz Lake, 458, 465
 Shagan lagoon, 395
 Shagany, 712
 Shagany Liman, 839
 Shahe, 739
 Shakhe River, 735, 737
 Shanidar, 142
 Shan-Koba, 303, 355
 Shan-Koba Culture, 303
 Shankobian, 304
 Shcherbanka, 381
 sheep/goat, 309–310, 366

- sheep, 311, 365, 497, 503, 521, 656, 666
 Sherstikhinian, 299
shiblyak, 323, 326–327, 330
 Shirokoe, 381
 Shirshov Institute of Oceanology, 4
 Shlyakh, 287–288
 Shlyakh, 8C, 284
 Shnitnikov cycles, 144, 225, 239, 424, 508
 Shulaveri, 365
 Siberia, 288, 298, 350, 782, 786
 Siberian High Pressure System, 644, 646
 Sicilian transgression, 390
 siderite, 253
 Şile, 559
 Silivri, 616
 Silk Road, 787
 silvo-steppe, 492
 Simav River, 581, 584
 Simferopol, 320–321
 Sinai, 810, 812
 Sinai Peninsula, 581
 Sinjukhin Brod, 381
 Sinoe Liman, 154, 198
 Sinop, 66, 151, 175, 214, 320, 610, 678, 681–683, 698, 700–702, 704–706
 Sinop Kale, 702–706
 Sinop Peninsula, 334, 337, 679
 Sinop Promontory, 606, 609–610, 612, 625, 698, 701, 703, 706
 Sinop Regional Archaeological Project (SRAP), 697, 700
 Sino-Tibetan, 785
 Siret River, 505
 Site 82, 684–686, 692
 site catchment areas (SCA), 499
 site exploitation territory (SET), 499
 Siuren I, 285, 290
 Sivash, 266–267
 Skafidah, 471
 Skalistiy rock shelter, 332
 Skeff, 471
 Skosarevka, 381
 Slavic, 777
 Slobodka, 381
 Slobodka village, 838
 Slobodkinsky Ridge, 838
 smectite, 125
 Smyachka, 355
 snails, 303, 821, 828
 Sochi, 388, 391, 760
 Sochi-Adler, 265
 Sofia plain, 666
 Sofievka I, 381
 Sok Valley, 361
 solifluction, 125–127, 131, 135
 solubility of carbonates, 125
 Songhay, 786
 Sophianai, 637
 sores, 306, 379, 499
 Soreq Cave, 810–812
 Sorkum, 703
 Soroki, 363–364, 495
 Soroki I, 493, 496
 Soroki II, 493, 495–496
 Sorskoi 5, 379
 South Asian monsoon, 58
 South Dobruja, 455, 465
 Southeastern Europe, 300
 Southern Boundary Fault (SBF), 548, 560–561
 Southern Bug-Danube interfluvium, 373
 Southern Bug River, 90, 101–102, 108, 223, 236, 266, 298, 305, 308, 312, 356, 373–374, 380, 494, 504
 discharge, 388
 Southern Bug Valley, 363
 Southern Donets River, 380
 Southern Moesian fault, 458
 Southern shelf, 200
 Southwestern shelf, 77–78, 97, 99, 616–617, 623–625
 Sozopol, 458, 470, 485, 487, 662
 Sozopol fault, 458
 Spain, 640–641
 Spanca, 664
 Speleothems, 810–811, 814
 spits, 268

- Spitsynskaya, 279, 281, 285, 289, 291
 spruce, 262, 286, 288, 299
 Srebarna Lake, 465
 St. George I Delta, 400
 St. George II Delta, 400
 St. Lawrence River, xxi
 St. Mamas, 637
 St. Petersburg, 641
 stalagmites, 810–812
 Stara Planina Mountains, 465
 Starčevo, 495
 Starčevo-Criș Culture, 495
 Starčevo Culture, 501–503
 Starosele, 283, 288
 Starosele 4, 284, 287
 Stavropol Highlands, 123, 127, 129
 stenohaline, 394, 461, 463–464, 467
 stenohaline dinoflagellates, 68
 Stepanovka, 381
 steppe-forest, 110
 steppe/forest-steppe, 326
 Steppe Neolithic, 504, 509
 steppes, 110, 164, 262, 286, 289, 298,
 301, 309–311, 321, 324, 329–330,
 332–333, 335, 338, 346–348,
 350–351, 356, 359–360, 363, 366,
 374, 376–377, 379, 381, 461–462,
 465, 472, 491–492, 498, 500–501,
 503–506, 509–510, 655, 660, 677,
 698, 778
 hydrophytic, 298
 mesophytic, 298, 302, 308
 xerophytic, 298
 Stillfried soil, 161
 stillstands, 747
 Storozhevaya Mogila, 311
 Strabo, 635, 705
 Strandja Mountain, 456, 465, 539, 549,
 611
 Strato Physicus, 557
 Streletskaya, 279–280, 285, 289–291
 strictoeruyhaline, 156–157, 159–160,
 163, 165, 168, 170
 strontium, 306
 Strontium isotope, 73, 77, 93, 111, 178,
 516
 Structure (Russian definition), 409
 Struma, 494
 Stuttgart, 641
 Subatlantic Period, 259, 332, 392–393,
 462, 466, 470, 472
 Subboreal Period, 259, 392–393, 398,
 462, 466
 subduction zone, 572
 submarine fans, 131
 Sub-Mediterranean, 339
 Sub-Mediterranean climate, 322, 324
 Sub-Mediterranean vegetation, 327
 submeridional compression faults,
 267
 Subtropical Jet (STJ), 645
 Suceava, 495
 Sudak, 357
 Sudan, 811
 Sudanic, 786
 Suet-Te, 350–351, 353–354
 Suez Canal, 41
 Sukhaya Mechetka, 284, 287
 Sukhumi, 388, 712, 715, 719–722, 760,
 838, 842–846, 848–857, 859
 Sukhumi Bay, 723, 840, 857
 Sukhumi Cape, 846, 853–855
 Sukhumi Peninsula, 720–721
 Sulak River, 780
 sulfate, 810
 Sulina Delta, 400
 sulphur isotope, 225
 Sumerians, 652, 776, 778, 782, 787
 Sun
 barycentric movement of, 424
 superfloods, xx, 131, 139–143
 Supsa River, 720, 837, 840, 844, 848,
 855
 Surian Culture, 495–496, 502–503, 508
 Surozhian, 159, 253, 255, 392–393,
 395–397, 401, 752, 758
 shoreline, 396
 subphases, 395

- terraces, 395
 wave-cut terrace, 397
 Surskii, 354, 356–357, 364, 495
 Surskii Island, 363
 Surskoi Ostrov, 381
 Sütlüce, 640
 Sweden, 641
 Swiderian, 303
 Symeon Logotheta, 638
 Syuren' 2, 303
 Szarvas, 495
- T**
- Taarucha Sands, 821
 Taganrogsky Bay, 200
 taiga, 139, 288–289, 291
 Talginka transgression, 124, 132
 Taman, 391
 Taman Bay, 754
 Taman Peninsula, 394
 Taman shelf, 753
 Tamazight, 779
 Tarascan, 785
 Tardenoisian, 528
 Tardigravettian, 528
 Tarkhankut-Cape Zmeinyi, 861
 Tarkhankutian, 159, 166, 175, 179, 224,
 300, 392–393
 coastal bars, 159
 Mediterranean species, 161
 salinity, 159
 sea level, 161
 Tarkhankut layers, 395
 Tarkhankut-Novoselovo uplift, 267
 Tarkhankut Peninsula, 310
 Tarkhankut Ridge, 267
 tarpan, 306
 Tash-Air, 303
 Tatarbunary, 502
 Tatarbunary 1, 500, 502
 Tatl Gölü, 333
 Tatrabunaty, 381
 Tauric-Chersonesos, 331
 Taz River, 140
 Techirghiol lagoon, 198, 396
 tectonic movements, 233, 236,
 243–245, 255, 265, 269, 555,
 559, 581, 588, 713, 715, 737,
 742, 762
 Tekirdağ Basins, 575–576, 585
 Tel Aviv Kurkar, 821–822
 Tel Aviv University, 155
 Tendra sand-spit, 413
 Tendrovskii, 267
 Tepecik, 549
 Teplaya, 381
 Tequistlatec, 785
 Terek River, 130, 138
 Terkos Lake, 549
 terminal moraine, 391
 Terpeniye, 496
 terra rossa, 324
 Tertiary, 325, 339, 576, 588, 609
 Tethyan Ocean, 540
 Tethys Ocean, 541, 543
 Tethys Sea, 541
 Texture (Russian definition), 409
 thanatocoenosis, 464
 Theodosia, 312
 Theophanes the Confessor, 636, 644
 Thera, 784
 thermokarst lakes, 131, 138, 141, 143
 thermoluminescence (TL), 820
 thermophilous, 469
 Thessaly, 502, 522
 Thrace, 490, 507, 539, 562, 576, 590,
 641, 657, 659, 661
 Thrace-Kocaeli Peneplain, 547–548,
 551, 560
 Thrace Peninsula, 610–611, 617,
 623–626
 Thrace shelf, 71
 Tibeto-Burman, 785
 Tigris River, 484
 Tigris Valley, 813, 814
 Tiligulsky, 154, 712
 Tiligulsky Liman, 158, 198, 426, 839,
 848, 853
 Timber Grave Cultures, 310–311
 Tiraian, 428

- Tirins, 801
 Tisza Plain, 507
 Tmutarakan, 754
 Tocharian, 790
 Tomillares, 323
 Tomuxlovka, 350
 total organic carbon (TOC), 104
 Totonacan, 785
 tourmaline, 123
 Trabzon, 538, 610–612, 662, 668, 698, 712
 Trabzon-Samsun, 624
 Transcaucasia, 660
 transgression-regression, 735, 760
 Transgressions, 92–93, 107, 121, 124–125, 131, 133, 138, 140, 143, 159, 167, 172, 176, 178, 206, 217, 221–222, 224–226, 229–231, 233, 237, 239–240, 242–245, 253–256, 258, 260, 263, 265, 267, 283, 300–302, 309–310, 312–313, 373, 395, 398, 406, 414, 426–428, 438, 448, 461, 466, 468–469, 471–472, 508–510, 515, 517, 525–526, 562, 604–607, 625–626, 684, 713–715, 717, 719–724, 742, 744, 747, 751, 753–754, 757, 763, 799
 post-glacial, 467
 transhumance, 304, 306–307, 500
 Transitional Period, 456–457, 469
 Transylvania, 490
 Trapezus, 698
 Trapovka, 305, 374, 381, 502
 Trebizond, 698
 tree ring data, 815
 Trestiana, 495
 Tripolye Culture, 309, 313
Tristia (Songs of Madness), 635
 Troia, 590
 Trostyanec, 381
 trout, 303
 Troy, 665, 698, 704
 Troy II, 702
 Trust for Mutual Understanding, xv
 Tsanigvarta River, 835–836, 839, 845, 850–851
 Tsarichanka, 381, 502
 Tsarinka, 379, 381
 Tsebrikovka, 381
 Tsemess Bay, 733, 743, 748, 750–752, 762
 Tsevekvara River, 849
 Tskherva River, 844, 848, 857
 tsunami, 784
 Tsybulevka, 381
 Tuapse, 213, 319–320, 322, 324–325, 338, 762, 837, 848
 tundra, 139, 301
 Tungusic, 784, 786
 Tungusic family, 785
 Turali transgression, 132
 turbidity currents, 135
 Turkey, 322, 333–334, 337, 461, 543, 609, 676
 morphotectonics, 543
 seismicity, 578
 tectonic features, 572
 topographic map, 538
 Turkic, 778–779, 786–787
 Turkish Airlines, xv
 Turkish shelf, 65, 71, 151, 167, 175, 214, 539, 543, 604, 604, 611
 paleoshoreline, 681
 Physiographic features, 610
 Turkmen Bay, 201
 Turkmen transgression, 124, 132
 Tütünciftlik, 582
 Tyras, 312
 Tyraspol complex, 391
 Tyritake, 312
 Tymovo, 381
 Tyrrhenian, 390
- U**
 Ukraine, 305, 308–309, 335, 349, 359, 365, 484, 517, 673, 677, 704
 southeastern, 332
 Ukrainian Crystalline massif, 267
 Ukrainian language, 779

- Ukrainian shelf, 68, 71–72, 77–78, 80, 261, 619
 Ulluchay transgression, 132
 Uluabat (Apoloyont) Lake, 575, 581
 unconformity, 64, 67, 69, 71, 77–81, 97, 99–100, 107, 112, 151, 160–161, 165, 168–170, 172, 179, 207, 329, 441, 463–464, 472, 555, 612–615, 619, 621, 623, 625, 688–689, 735, 742, 744, 751–752, 757–759
 underwater landslides, 265
 UNESCO, xiv
 UNESCO-IUGS, 180
 University College London, 156
 Upper Euxinian, 390, 394
 Upper Humic Bed, 292
 Upper Paleolithic, 279, 281, 283, 285, 289, 291, 300–302, 346, 349–350, 655–658, 662–663, 810, 824
 Uralic, 776, 781–782, 787
 Ural Mountains, 92, 281, 288, 311, 347, 350, 655
 Ural River, 123, 130, 138, 347
 Ureki village, 837
 Usatovo, 310–311
 use-wear analysis, 499
 Üsküdar, 636, 639
 USSR Academy of Sciences, xii
 USSR Ministry of Education, xii
 Uto-Aztecán, 776, 785
 Uzboi Spillway, 136–137, 142
 Uzunlarian, 253, 255, 390–391, 394, 460, 758
- V**
- Vadu, 396
 Valdai, 123, 125, 288, 299, 392–395, 711
 Valdai glaciation (Würm II), 254
 Valdai Megainterstadial, 313
 Valter-Golovkinsky, 406, 714
 Vardar, 494
 Varna, 388, 470–471, 506, 662, 668, 687, 689
 Varna-Beloslav estuary, 469
 Varna Culture, 456
 Varna Lake, 456, 458, 677
 Varvarovka, 381
 Vasil'evka, 381
 Vasil'evka I, 381
 Vasil'evka (Kitai-ozero), 381
 Vasil'evka-na-Chichiklee, 381
 Vasilievka, 304–306, 355–356, 500, 502
 Vasilievka I, 307
 Vasilievka 3, 307–308
 Vasilievka I, 357
 Vasilievka II, 357, 359, 363–364
 Vasilievka III, 357, 359
 Vădrasta, 502
 Vedic Sanskrit, 781
 Veleka River, 457–458, 463–465, 467, 470, 472
 Venetians, 699
 Verbitsky model, 256
 Versilia Plain, 801–802
 vertical tectonic movements (VTM), 232
 vertisol, 820–821, 823, 829
 vetch, 306
 vibrocores, 408
 Vienna, 640–641
 Vilkovo, 266–267
 Villefranche, 801
 Vinča Culture, 502, 505, 662, 666
 Vinčaization, 667
 Vinča-Turdaş Culture, 502, 505
 Vishnevka, 381
 Viteaz Canyon, 396, 398, 681, 686–687
 Vityazevian, 166, 172, 174, 178–179, 262, 392, 493, 509, 717, 720–721, 724, 752, 854
 Vladimirovka, 376
 Vladychem, 305
 volcanoes, 541
 Volga Delta, 350
 Volga River, xx, xxi, 91, 101–102, 120, 123, 125, 128–130, 138–140, 142,

201, 283, 286–288, 290, 298, 308,
347–348, 350–351, 361, 363, 507
Volos'ke, 306–307, 359
Vorukashah Sea, 137, 142
Vovnich, 381
VTM, 233–236
Vulcanesti III, 506
Vychehda River, 139

W
Wadi Feiran, 810
Waldheim, 640
walnut, 331
washout, 74
Weichselian, 299
Wels, 357
West Caspian steppes, 354
West Caucasian, 776, 779, 783, 788,
791
West Crimean Shelf, 754–755
Western Crimean Mousterian, 280,
286
West Kuban trough, 715
whale, 677
wheat, 309, 503, 522, 666, 814
wheeled transport, 311, 781, 790
white goosefoot, 306, 499
wiggle-matching, 484–485
wild ass, 377
wild boars, 303, 360, 377
wild goats, 303
wild sheep, 303
Winter North Atlantic Oscillation
Index, 645
wolf, 497
woolly rhinoceros, 376
Woods Hole Oceanographic Institution,
xii
wool, 781, 790
world ocean
sea level, 254, 257–259, 398
worm tubes, 227
wormwood, 171
Würm Glaciation, xi–xii, 66, 299, 389,
392–395, 555, 558, 607, 676

Würm I, 270
Würm II, 270
Würm Paudorf, 161, 179
Würm regression, 390

X

xerophyte steppe, 164
xerophytic, 465
xerophytic vegetation, 262
Xincan, 785
Xiongnu, 814

Y

Yaila, 321
Yakacık, 27–28
Yakutia, 141
Yalıköy, 616
Yalta, 207–208, 214, 321–322
Yamburg, 304
Yamnaya Culture, 311
Yaplug Liman, 309
Yargylach Cay, 310
Yarımadası, 662
Yarmukian Culture, 813
Yarylgach Bay, 267
Yarylgach Ridge, 267
Yashkulian transgression, 124, 132–133
Yashkul Valley, 130
Yekaterinburg, 641
Yelshanian Culture, 308
Yeşilirmak River, 584, 609–611,
660–661, 663, 698
Yeniköy, 616
Yenişehir Basin, 575, 581, 586
Yenisei River, 131
Yerbichen' (Spinoasa), 381
Yezupil, 283
Yezupil II, 284
Yezupil III, 287
Younger Dryas, 67, 74–75, 77, 80–81,
106, 110, 152, 169, 173, 179, 262,
270, 332, 392–393, 398, 411, 448,
461–462, 525, 562, 606, 625, 676,
756, 812, 827
Yugoslavia, 323, 484

Yukagir, 787
Yumurtalik, 27, 42
Yuriiy Gogin Structure, 458
Yuzhmoregeologiia Enterprises (YMG),
731

Z

Zagros Mountains, 572
Zaim, 381
Zalivnoye, 504
Zaliznichnoe, 305, 360, 381, 502
Zancian-Cimmerian transgression, 253
Zanoras, 636, 644
Zapadny Manych Rivers, 129
Zaskalnaya, 284–285, 287–288, 290
Zaskalnaya V, 283
Zaval'e, 381
Zesterovataya Ridge, 845
zeugosyncline, 253

Zhesterov Ridge, 722
Zhiguli Ridge, 130
Zhilanda regression, 132
Zhvava-Kvara River, 837–838,
842–843, 848
Zigchia, 637
Zimovniki, 354, 381
zircon, 123
Ziusudra, 349
Zmeiny Island, 266, 722, 842–843
zoisite, 123
Zolotovka, 376
Zonguldak, 610
Zoroastrian Holy Scriptures, 137
Zunda-Tolga profile, 128
Zunda-Tolga village, 127, 129
Zuni, 776
Zvanovka, 284, 287

TAXONOMIC INDEX

A

Abra alba, 33, 35, 38, 468, 682
Abra ovata, 209, 224, 392, 411, 719–720, 855–856, 865
Abra prismatica, 35, 38
Abra tenuis, 35, 38
Acanthocardia sp., 622
Acanthocardia echinata, 35, 38
Acanthocardia paucicostata, 35, 621
Acer, 161, 465
Acer campestre, 455
Acervulina, 159
Acervulina adhaerens, 163
Acmaea virginea, 35, 38
Actinocyclus ehrenbergii, 392
Adacna, 72, 126–127
Adacna vitrea, 72, 126
Adonis, 164
Adonis vernalis, 455
Agropyron brandzae, 455
Allogromiida, 176
Alnus, 329, 462, 466
Alnus glutinosa, 456
Alvania lineata, 35, 38
Alvania subareolata, 35, 38
Ammobaculites ponticus, 163, 166, 199, 202
Ammonia, 158, 175, 621–622
Ammonia agoiensis, 202
Ammonia ammoniformis, 158, 163, 200, 202
Ammonia beccarii, 158
Ammonia caspica, 158, 160–161, 201–202
Ammonia caucasica, 199–200, 202
Ammonia compacta, 158, 163, 166, 168, 170, 199–200, 202
Ammonia novoeuxinica, 158, 163, 166–168, 171, 198–200, 202, 410

Ammonia parasovica, 166, 198–199, 202
Ammonia parkinsoniana, 158, 621
Ammonia tepida, 158–160, 163, 165–166, 170–171, 198–200, 202, 621
Ammophilla arenaria, 456
Ammoscalaria, 163
Ammoscalaria verae, 201–202
Anachys savignyi, 35, 38
Anadara diluvii, 35
Anodontia fragilis, 35, 38
Anomia ephippium, 35
Anomia spp., 101
Apiaceae, 378
Aporrhais pespelecani, 35, 391
Arbutus, 325
Arbutus unedo, 323
Arca noae, 33, 35, 38
Arca tetragona, 35
Archidiscodon sp., 391
Artemisia, 110, 161, 164, 261–262, 326, 329–331, 350, 378, 461–462, 492
Artemisia lerchiana, 455
Articulina tubulosa, 163
Asphodeline, 327, 330
Asphodeline lutea, 323
Asphodeline taurica, 323
Asteraceae, 378, 461
Asteromphalus robustus, 392–393
Athraphaxis replicata, 323
Aubignyna perlucida, 163, 166, 198–200, 202

B

Bacillus simplex, 105
Balanus, 391
Barbatia scabra, 35, 38
Baraginaceae, 378

- Betula*, 169, 171, 329, 461–462, 465
Birsteiniolla macrostoma, 201–202
Bison priscus, 346
Bittium, 720
Bittium reticulatum, 411, 682, 840, 848–849, 864
Bittium reticulatum reticulatum, 35, 38
Bolivina, 200
Bolivina doniezi, 163
Bolivina ex.gr. dilatata, 163
Bolivina pseudoplicata, 163
Bolivina variabilis, 163
Bos taurus, 495
Braarudo-sphera bigelovi, 393
 Brassicaceae, 378
Brigantedinium simplex, 104
Brizalina, 200
Brizalina danvillensis, 163
Brizalina spathulata, 163
Brizalina striatula, 163
Bulimina aculeata, 163
Bulimina elongata, 163
 Buliminida, 159
Bulla striata, 35, 39
- C
- Callista chione*, 35, 39
Canalifera earlandi, 163
Canalifera ex. gr. vericulata, 163
Canalifera nigarensis, 159, 163, 199, 202
Canalifera parkerae, 163, 166, 199–200, 202
Candonia, 167, 410
Candoniella, 167, 410
Canis familiaris, 495
Capparis herbaceae, 323
Cardium, 166, 227, 623
Cardium edule, 68, 72, 160, 162, 165, 168, 170–172, 174, 224, 391–393, 411–412, 461–462, 464, 467–468, 472, 719–720, 835–838, 840, 844–848, 850, 854–856, 864, 868, 871
Cardium exiguum, 162, 462, 464, 849, 867–868, 871
Cardium papillosum, 392, 462, 464
Cardium sp., 72, 209, 622, 867
Cardium tuberculatum, 391
Carex, 492, 498
Carpinus, 161, 169, 326–327, 331, 462
Carpinus betulus, 455–456, 462, 465–466
Carpinus orientalis, 455, 466
Carya, 324
 Caryophyllaceae, 378
Caspia, 126–127
Castanea, 324
Cellepora punicosa, 31–33
Celtis australis, 455
Centaurea arenaria, 456
Centaurea cyanus, 466
Cerastoderma edule, 68, 447, 585
Cerastoderma glaucum, 207
 Cerealina, 262, 326, 331–332, 334, 469
Cerithidium submamillatum, 35, 39
Cerithiopsis tubercularis, 35, 39
Cerithiopsis tubercularis horrida, 35, 39
Cerithium scabridum, 35, 39, 41
Cerithium vulgatum, 35, 39, 391
Cervus elaphus, 286
Chama gryphoides, 35
Chamelea gallina, 621
 Chenopodiaceae, 164, 261–262, 378, 461–462
Chenopodium album, 306, 379, 499
Chione, 720
Chione gallina, 72, 391–392, 411, 464, 468, 471, 719, 835–837, 840, 845, 848–849, 866
Chlamys, 391
Chlamys glabra, 35, 39, 838
Chlamys multistriata, 35, 39
Chlamys opercularis, 585
Chlamys pesfelis, 35
Chlamys varia, 35
Chlorobium, 16
Chrysallida excavata, 36, 39
Chrysallida maiae, 36, 39

- Cibicides disparis*, 163
 Cichoriaceae, 378
Cionura erecta, 456
Circulus striatus, 36, 39
 Cistaceae, 323, 327, 330, 333
Cistus tauricus, 323
Cladocora caespitosa, 32–33
Clanculus corallinus, 36
Clematis vitalba, 456
Clessiniola variabilis, 461–462, 720, 855–859
Columbella rustica, 32, 36, 39
 Compositae (=Asteraceae), 161
Conus ventricosus, 36, 39
Corbula, 720
Corbula gibba, 32, 36, 39, 622
Corbula maeotica, 468
Corbula mediterranea, 392, 845, 854–855
Cornus, 324, 327, 330
Cornuspira minuscula, 166, 201–202
Cornuspira planorbis, 163
Corylus, 171–172, 326, 329, 461–462
Coscinodiscus radiatus, 392–393
Cotinus, 327, 330
Crenalla sp., 622
Criboelphidium percursum, 163
Criboelphidium poeyanum, 163, 166, 199–200, 202
Criboelphidium translucens, 163
 Cruciferae (=Brassicaceae), 326, 331
Ctena decussata, 36, 39
 Cupressaceae, 326, 329
Cyclotella aceolata, 392
Cyclotella kutzingiana, 392
Cymatiosphaera globulosa, 462–464, 467–468, 470, 472
 Cyperaceae, 378
Cyprideis littoralis, 167
 D
Daphne pontica, 456
Dentalium inaequicostatum, 36
Dentalium vulgare, 36, 39
Didacna, 126–127, 135, 347
Didacna baericrassa, 391
Didacna delenda, 126
Didacna ebersini, 126
Didacna moribunda, 67
Didacna nalivkini, 391
Didacna pallasii, 126, 391
Didacna parallela, 126
Didacna pontocaspia, xi, 391
Didacna praetrigonoides, 126
Didacna protracta, 126
Didacna pseudocrassa, 391
Didacna subcatillus, 126
Didacna subpyramidata, 391
Diplodonta rotundata, 36
Diploxyton, 161
Discammia imprespica, 163, 166
Discorbis bertheloti, 163
Divaricella divaricata, 36, 39, 392, 840, 845
Donax trunculus, 468, 471
Donax venustus, 36, 39
Dosinia lupinus, 36, 39
Dreissena, xi, 69, 71, 78, 126, 150–151, 162, 166, 174, 177, 209, 211, 227, 347, 350, 449, 625
Dreissena polymorpha, 67, 72, 126–127, 137, 160, 164–165, 167–168, 170–172, 174, 177, 207, 391–392, 410–411, 467–469, 622, 717, 720, 853, 855–859, 870, 873–874
Dreissena polymorpha regularis, 460–462
Dreissena rostriformis, 64, 67, 72, 137, 164, 167, 174, 177, 207, 393, 410, 852, 854, 856, 858–859, 869–876
Dreissena rostriformis distincta, 159–161, 165, 168, 170–171, 174, 392, 439, 445, 460, 462, 464
Dreissena rostriformis pontocaspia, 622
Dreissena rostriformis var. *distincta*, 682, 872, 875
Dreissena sp., 447, 623–624, 869–872
Dreissenia, 299

E

- Eggerella scabra*, 163, 166, 199–200, 202
Elphidium capsicum, 167–168, 177
Elphidium caspicum azovicum, 198–200, 202
Elphidium caspicum caspicum, 158–159, 201–202
Elphidium ponticum, 159–160, 163, 166, 168, 170, 199, 202
Elphidium shohinae, 201–202
Elphidium sp., 621
Emarginula elongata, 36, 39
Emiliana huxleyi, 68, 393
Endictia oceanica, 393
Entolingulina deplanata, 163, 199, 202
Ephedra distachya, 378
Epitonium clathratulum, 36
Equus caballus, 286, 350
Equus hemionus, 350–351, 497
Equus hydruntinus, 286, 360, 376, 497
Equus latipes, 288
Ericaceae, 325
Esosyrinx jatzkoi, 163, 166, 199, 202
Esosyrinx praelongus, 163
Esosyrinx undulosus, 163
Eulimella scillae, 36
Evalea subulata, 36

F

- Fabaceae, 323, 327, 378
Fagus, 330, 462, 465–466
Fagus orientalis, 456
Fenella virgata, 36, 39, 41
Fissurina fabaria, 163
Fissurina fragilis, 163, 166
Fissurina lucida, 163, 166, 199–200, 202
Fissurina porrecta, 163
Fissurina solida, 163, 200, 202
Foraminifera, 156
Fraxinus, 465
Fraxinus ornus, 455
Fraxinus oxycarpa, 456
Fusiturris undatiruga, 36
Fusus sp., 622

G

- Gafrarium minimum* (= *Gouldia minima*), 392
Galilea mucronata, 456
Gastrana fragilis, 849
Gavelinopsis, 159, 163
Gibbula albida, 36
Gibbula ardens, 36, 39
Glandulina, 163
Glans trapezia, 32, 36, 39
Glycymeris, 41
Glycymeris glycymeris, 36, 39
Gouldia minima, 36, 39, 621
Globigerinoides ruber, 105
Gramineae (=Poaceae), 492, 498
Guttulina lactea, 163

H

- Haminoea navicula*, 36, 39
Haynesina anglica, 159, 166, 198–200, 202
Hedera helix, 456
Helianthemum, 323
Helix aspera, 303
Heronallenia chasteri, 163
Hiatella rugosa, 36
Hinia reticulata (= *Nasarius reticulata*), 36, 39
Hordeum, 466
Hordeum vulgare ssp. *distichon*, 503
Hydrobia sp., 621–622
Hydrobia ventrosa, 411, 462, 464, 467–468, 472, 720, 845, 848–849, 854–856
Hypanis, 126–127
Hypanis plicata, 126

I

- Ilex aquifolium*, 456
Ilyocypris bradyi, 167

J

- Jadammina polystoma dacica*, 198, 202
Jasminum, 325, 327, 330

Juglans, 324, 326–327, 331–332, 334
Jujubinus corallinus, 36, 39
Juniperus, 171

K

Knautia, 326, 329–330
Koeleria brevis, 455

L

Labiatae, 323, 326–327, 329–331, 333
Lagena quadrilatera, 163
Lagena striata, 163
Lagena vulgaris, 163, 165, 199, 202
Lagenida, 159, 200
Lamiaceae, 378
Laryngosigma williamsoni, 163, 166, 199, 202
Lens culinaris, 503
Leptocythere bacuana, 177
Lepton nitidum, 36, 39
Lepton squamosum, 36
Lepus tanaiticus, 288
Leymus racemosus, 456
Ligustrum, 325
Liliaceae, 378
Lima lima, 39
Limaria sp., 622
Limatula sulcata, 36
Limnea, 209, 391
Limnocardiidae, 126
Linaceae, 378
Lingulodinium machaerophorum, 462–464, 467–468, 470
Lingulodinium sp., 393
Lissopecten hialinus, 36
Lithoglyphus naticoides, 168, 853, 855, 857–858
Lithothamnion minervae, 31
Lobatula lobatula, 163
Loripes lacteus, 36
Loxoconcha lepida, 177
Lucioperca, 357

M

Mactra sp., 621

Mactra stultorum, 391
Mamilloretusa mamillata, 37, 39
Mammuthus primigenius, 286
Mangelia attenuata, 37
Mangelia wareni, 37, 39
Margaretta cereoides, 31, 33
Massilina secans, 199, 202
Mayerella brotzkajae, 158, 166–167, 170–171, 177, 198, 200–202
Mayerella kolchidica, 198, 203
Melanella polita, 37, 39
Mentha, 330
Merelina tessellata, 37, 40
Micromelania, 126–127
Micromelania caspia, 393, 717, 857–859
Micromelania caspia lincta, 410
Micromelania elegantula, 720, 856
Micromelania lincta, 859
Miliammia fusca, 166, 198, 201, 203
Miliolinella selene, 163
Miliolinella subrotunda, 163, 166
Mitra cornicula, 37, 40
Modiolula phaseolina, 682
Modiolus, 864
Modiolus adriaticus, 621, 849
Modiolus phaseolinus (= *Modiolula phaseolina*), 160, 165, 168, 170, 174, 207, 209, 214, 392, 462, 861–863
Modiolus sp., 622
Monodacna, xi, 126, 162, 211, 623
Monodacna caspia, 67, 72, 126–127, 167–168, 174, 177, 207, 209, 391–393, 411, 460, 622, 717, 720, 856–859, 868–870, 874
Monodacna caspia caspia, 462, 467
Monodacna caspia pontica, 464, 855
Monodacna colorata, 127
Monodacna laeviscula, 126
Monodacna pontica, 164
Monodacna sp., 69, 445
Musculus subpictus, 37
Myriapora truncata, 31, 33
Mysella bidentata, 37

- Mytilaster*, 447
Mytilaster edulis, 68
Mytilaster lineatus, 207, 209, 392, 464, 467–469, 472, 720, 848, 855–856
Mytilus, 78, 164, 166, 178, 227, 391, 623–624
Mytilus edulis, 447, 589
Mytilus galloprovincialis, 68, 150–151, 160, 162, 165, 168, 170, 172, 174, 178, 207, 209, 392, 411, 462, 464, 468, 472, 585, 682–683, 844–845, 847, 851, 864–865, 867
Mytilus spp., 72, 101, 622, 863, 866–867, 865, 869
- N**
Nassa reticulata, 464
Nassarius, 720
Nassarius mutabilis, 37
Nassarius reticulatus, 411, 849
Natica sp., 622
Naticarius punctatus, 37, 40
Navicula palpebralis var. *sempilena*, 392
Neurospora crassa, 105
Neverita josephinia, 37
Nonion matagordanus, 159–160, 163, 166, 198–200, 203
Nonion pauciloculum, 166
Nuclea nucleus, 101
Nucula sulcata, 32–33, 37, 40
Nuculacea spp., 101
Nuculana pella, 32, 37, 40
- O**
Odostomia plicata, 37, 40
Olea europaea, 322
Oolina squamosa, 163
Orthomorphina calomorpha, 163
Orthomorphina drammenensis, 163
Orthomorphina filiformis, 163
Ostrea, 178, 227, 391
Ostrea edulis, 37, 469–470, 585, 835–838, 840, 844, 849
Ostrea lamellosa, 585
- Ovis orientalis*, 365
- P**
Pachia discrepans, 849
Paeonia tenuifolia, 455
Paliurus, 326–327, 330–331
 Papaveraceae, 378
Paphia discrepans, 844
Paphia rugata, 461, 468
Paphia senescens, 391
Papillicardium papillosum, 682, 864
Parafissurina aventricosa, 163
Parafissurina dzemetinica, 163, 166, 199–200, 203
Parafissurina ex. gr. *lateralis*, 166
Parafissurina lateralis, 163, 165, 203
Parvicardium exiguum, 37, 40, 101, 682, 864
Pateoris, 159
Pateoris dilatatus, 163
Peridinium ponticum, 104
Peridinium sp., 393, 462
Peridinium trochoideum (= *Scrippsiellia trochoidea*), 393
Periploca graeca, 456
Peyssonnelia sp., 31
Phaseolus, 864
Phragmites australis, 456, 468
Phyllirea latifolia, 455
Picea, 171
Pinus, 161, 169, 171, 262, 331, 461, 465
Pinus brutia, 325
Pinus diploxylon-type, 461–462
Pinus nigra, 461
Pinus pityusae var. *stankeviczii*, 325
Pistacia, 171, 325–327, 330–333
Pistacia mutica, 321–323
Pisum sativum, 503
Pitar rudis, 168, 392, 464, 840
Pitar rudis rudis, 37, 40
Plagiocardium papillosum, 37, 40, 621–622
Planorbis, 391
Planorbis sp., 873
Planorbulina, 159

Planorbulina mediterraneensis, 163
Plantago, 326, 329, 331
Plantago lanceolata, 378, 466, 469
 Plumbaginaceae, 378
 Poaceae, 326–327, 329–332, 378,
 461–462
 Polygonaceae, 378
Polygonum aviculare, 466, 469
Polygonum convolvulus, 306, 379, 499
Pontodreissena, 126
Pontodreissena rostriformis
 (= *Dreissena rostriformis*), 126–
 127
Porosonion martkobi mediterranicus,
 166
Porosonion martkobi ponticus, 163,
 166, 198–200, 203
Porosonion martkobi tschaudicus,
 158, 160–161, 163, 165, 203
Porosonion sp., 621
Posidonietum, 32
 Protozoa, 156
Pterocarya, 324
Pyracantha coccinea, 323
Pyrgo, 159, 200
Pyrgo elongata, 163, 200, 203
Pyrgo fisheri, 163

Q

Quercus, 161, 169, 171–172, 326, 329,
 331–332, 461–462, 465
Quercus cerris, 455–456
Quercus frainetto, 455–456
Quercus pedunculiflora, 456
Quercus petraea, 322
Quercus-Pistacia, 106
Quercus polycarpa, 456
Quercus pubescens, 322, 327, 330, 455
Quercus robur, 322
Quinqueloculina bicornis, 199, 203
Quinqueloculina consobrina, 163, 166
Quinqueloculina curvula, 163
Quinqueloculina inflata, 163
Quinqueloculina laevigata, 163, 199,
 203

Quinqueloculina milletti, 163
Quinqueloculina oblonga, 163
Quinqueloculina seminulum, 163,
 198–199, 203
Quinqueloculina sp., 621–622
Quinqueloculina vulgaris, 163

R

Rangifer tarandus, 286
Raphitoma echinata, 37, 40
Raphitoma leufroyi, 37
Retusa mariateresae, 37, 40
Retusa truncatula, 849
Retusa umbilicata, 848–849
Rhamnus, 324
Rhizosolenia calcar-avis, 393
Rhododendron ponticum, 456
Rhus, 324
Ringicula auriculata, 37
Rissoa splendida, 849
Rissoina bruguieri, 37, 40–41
Rissoina sp., 621
 Rosaceae, 323, 326–327, 329–331, 378
 Rubiaceae, 378
Rumex, 378
Rumex acetosa, 306, 379, 499
Ruscus ponticus, 323

S

Saiga tatarica, 286, 350
Salix, 169, 462, 466
Sambucus, 329
 Sarcodina, 156
Sarcopoterium, 327
Scala communis, 464
Schoenoplectus lacustris, 456
Scrobicularia, 391
Sertella beaniana, 31–33
Sigmella distorta, 163
Sigmella tenuis, 163
Silurus glanis, 357
Siphonaperta, 163
Smaragdia viridis, 37, 40
Smilax excelsa, 456
Solen vagina, 168

Spiniferites cruciformis, 104–105, 461–463, 467
Spiniferites mirabilis, 111
Spiniferites ramosus, 462
Spiroplectinata perexilis, 201, 203
Spisula, 720
Spisula subtruncata, 168, 209, 392, 621, 719, 840, 845, 848–849
Spisula subtruncata triangulata, 462, 464
Spondylus, 33, 41
Spondylus gaederopus, 37, 40
Stephanodiscus astraea, 392–393, 396
Stipa lessingiana, 455
Striarca lactea, 37, 40
Strombus persicus, 37, 40
Sus scrofa domestica, 495
Synedra buculus, 392

T

Tectatodinium psilatatum, 461–463
Tectatodinium spiriferites, 393
Tellimya ferruginosa, 37
Tellina crassa, 40
Tellina nitida, 37
Tellina pulchella, 33, 37, 40
Tellina serrata, 37
Textularia, 163
Thalassiosira excentrica, 392–393
Thalictrum, 164
Theodoxus pallasi, 469, 719–720, 853, 856–859
Thymelea hirsuta, 327
Tilia, 461–462, 465
Tilia tomentosa, 455
Timoclea ovata, 37, 40
Tornus subcarinatus, 37
Trichochoyalus aguajoi, 198, 201, 203
Tricolia pullus, 37, 40
Trifarina angulosa, 163
Triphora perversa, 38, 40
Triticum, 466
Triticum aestivum, 503
Triticum dicocum, 503

Triticum monococum, 503
Trochammina ochracea, 166
Trophonopsis breviata, 682, 863
Trophonopsis muricata, 38, 40
Turboella incospicua, 38
Turboella lineolata, 38
Turboella marginata, 38, 40
Turboella radiata, 38, 40
Turbona cimex, 38, 40
Turbonilla delicata, 848
Turbonilla lactea, 38, 40
Turbonilla rufa, 38, 40
Turborotalita quinqueloba, 105
Turricaspia, 174
Turricaspia caspia, 872
Turricaspia caspia lincta, 682–684, 868–869, 871, 873
Turritella comunis, 38
Turritella sp., 622
Turritella spp., 101
Turritella turbona, 38, 40
Typha angustifolia, 456
Typha latifolia, 456, 468
Typhinellus sowerbyi, 38, 40

U

Ulmus, 169, 171–172, 326, 329–332, 461–462, 465–466
Ulmus minor, 456
Unio sp., 392, 859
Urtica, 378, 466

V

Valvata piscinalis, 168
Valvata sp., 468
Varicorbula gibba, 101
Venericardia antiquata, 38, 40, 42
Venerupis calverti, 585
Venerupsis geographica, 38
Venus casina, 38, 40
Verbascum, 327
Vicia ervilia, 503
Vicia hirsuta, 306, 379, 499
Vitis, 326–327, 331–332, 334
Vitis vinifera, 456

Viviparus, 162, 166, 209, 391, 497
Viviparus contectus, 873
Viviparus fasciatus, 168, 392,
871–874
Viviparus sp., 410

Viviparus viviparus, 65, 853, 855,
857–859, 871

Z

Zelkova, 324