

Supplementary Table 1. List of specimens studied.

Species	n. of specimens/collection	locality	Depth (m)/ecological notes	Age for fossils
<i>Cerithium alucastrum</i>	3 shs., coll. Garilli	Valencia, Spain	12, on sand	
	1 sh., MNHN coll. Vignal	Llançà, Spain	-	
	1 sh., MNHN coll. Locard	Agde, France	-	
	1 sh., MNHN	Banyuls sur Mer, France	5-10	
	2 shs., MNHN coll. Vignal	Marseille, France	-	
	11 shs., (9 P), MNHN	Marseille (Grand Congloué), France	33	
	1 sh., MNHN coll. Dautzenberg	Roussillon, France	-	
	1 sh., MNHN coll., Locard	La Ciotat, France	-	
	France	Provence, (“Le Dramont pied de tombant”),	22–30	
	27 P, MNHN Coll.			
	1 sh., MNHN coll. Vignal	Gulf of Lyon, France	-	
	6 shs., MNHN coll. Locard	St. Henri, France	-	
	1 sh., MNHN coll. Locard	Biguglia, Corsica		
	7 shs., SMNH 34559	Baie de Calvi, Corsica, 42°34' N 8°45' E.	60–80, shell debris and silt mixed with <i>Posidonia</i> fibres	
		Bouchet & Warén, 1982-11.		
	1 sh., MNHN coll. Vignal	Baie de Nora, Sardinia	-	
	1 sh., MNHN coll. Vignal	Sardinia	-	
	2 shs., coll. Garilli	Castell’Arquato	-	Pliocene (Piacenzian)
	3 shs., MNHN coll. Vignal	Venice, Italy	-	
	2 shs., coll. Spada	Between Chioggia, Italy and Rovigno, Croatia	30	
	2 sh., MNHN coll. Locard	Chioggia, Italy	-	
	3 shs., coll. Spada	Ancona, Italy	-	
	1 sh., MNHN coll. Locard	Adriatic Sea	-	

26 P, MGUP coll. Buccheri	Isle of Ponza, Italy	72–74	
19 shs., MGUP	Fondo Patti, Palermo, Sicily	Infra-circalittoral	Early Pleistocene (Calabrian)
* 4 shs., (1 P), coll. Garilli	Altavilla Milicia, Palermo	Infra-circalittoral	Piacenzian– Gelasian
19 shs., (7 P), coll. Garilli	Case Catarinicchia, Castelvetrano, Italy	Circalittoral	Early Pleistocene (Calabrian)
44 shs., (2 P), coll. Garilli	Case Parrino, Castelvetrano, Italy	Circalittoral	Early Pleistocene (Calabrian)
49 shs., (9 P), coll. Garilli	Monte dell'Apa, Gela, Italy	Circalittoral	Early Pleistocene (Calabrian)
2 P, coll. Garilli	Scopello, Trapani, Sicily	12	
4 P, coll. Garilli	Cinisi, Palermo, Sicily	Beached shells	
4 sh., coll. Ricordi	Isola delle Femmme, Palermo, Italy	60–80	
2 shs., MNHN coll. Vignal	Palermo, Italy	-	
1 sh., MNHN coll. Fisher ex coll. Monterosato	Palermo, Italy	-	
* 35 shs., coll. Garilli	Oued el Galaa (“stop 2”), Menzel Bourguiba, Tunisia	Infralittoral sands, open sea	Late Zanclean– Piacenzian
5 shs., MNHN coll. Pallary	Sfax, Tunisia	-	
1 sh., coll Garilli	Monastir-Khenis	Infra-circalittoral	Late Pleistocene
1sh., SMNH 19335	Off Acicastello, Sicily, 37°33' N 15°10' E. Mission Sicile Orientale, 1990. Sta.0106.	60–80, silt with scattered rocks.	
9 shs., SMNH 19163	Isola Lachea, Aci Trezza, Sicily 32-38 m. 37°33' N 15°11' E. Mission Sicile Orientale, 1990. Sta. 0099	32–38, rocky slopes	
14 shs., SMNH 19164	Capo Mulini,	23–41, rocky	

		Acitrezza, Sicily, 23-41 m. 37°34'N 15°11' E. Mission Sicile Orientale, 1990. Sta. 0100	slopes
2 shs., SMNH 19112		Baie de Brucoli, Sicily, 37°16' N 15° 11' E. Mission Sicile Orientale, 1990. Sta. 0114	3-9, <i>Posidonia</i> and sand
3 shs., SMNH 19107		Cozzo dei Turchi, Brucoli, Sicily, 37°17' N 15°09' E. Mission Sicile Orientale, 1990. Sta. 0118	20, algae, stones and <i>Lithothamnium</i> gravel.
1 P, MNHN		Marathon, Greece	Infralittoral
2 P, MNHN		Isle of Spetses, Greece	Beached shells
2 shs., MNHN coll. D'Orbigny - B41320		Isle of Rhodos	-
			Early Pleistocene
<i>Cerithium protractum</i>	1 sh., MNHN, coll. Gofas	Torrox, Malaga, Spain	20-40
	7 shs., MNHN, coll. Gofas	Malaga, Spain	20-40
	13 shs., MNHN, coll. Gofas	Rincon de la Victoria, Malaga, Spain	20-40
	3 shs., MNHN coll. Locard	Agde, France	-
	7 shs., MNHN coll. Locard	Biguglia, Corsica	-
	3 shs., MNHN coll. P. Noel	Banyuls sur Mer, France, Herbier du Racou	5-10, bottom with vegetation
		42°32,5'N- 3°04'E	
	1 sh., MNHN coll. Locard	Cannes, France	-
	2 shs., MNHN coll. Locard	Cete, France	-
	3 shs., MNHN coll. Gofas	Le Brusc-Cap Siciè	10-30, <i>Posidonia</i>
	5 shs., MNHN coll. Locard	Marseille, France	-
	1 sh., MNHN Coll. Denis	Toulon, France	-
	1 sh., Coll.Locard	Toulon, France	-
	1 sh., MNHN coll. Locard	La Seyne/Algajola, France/Corsica	-
	2 shs., MNHN coll. Locard	St. Florence, Corsica	-
	1 sh., MNHN coll. Locard	St. Raphael, France	-

	1sh., MNHN	Bay of Brucoli, SE Sicily, Mission Sicile Orientale, 1990	3–9, <i>Posidonia</i> and sand
	1sh., MNHN coll. Vignal	Preveza, Ionian Greece	-
<i>Cerithium repandum</i>	2 shs., MNHN coll. Locard	Hyères, France	-
	68 P, MNHN	Embiez est, France	
	3 shs., MNHN coll Locard	Agde, France	-
	3 shs., MNHN coll. Locard	Bandol, France	-
	6 shs., MNHN coll. Locard	Cannes, France	-
	9 shs., MNHN coll. Locard	Sète, France	-
	1 sh., MNHN coll. Vignal	Cap d'Agde, France	-
	5 shs., MNHN coll Locard	Cap Sicié, France	
	68 shs., MNHN	Embiez, France	-
	97 shs., MNHN coll. Clanzig (pars)	Languedoc- Roussillon (L'étang de Salses-Leucate), France	Lagoon
	52 (42 P) shs., MNHN coll. Gofas	Languedoc- Roussillon (L'étang de Salses-Leucate), France	0–1 lagoon
	5 shs., MNHN coll. Locard	La Seyne, France	
	289 shs., (109), MNHN	Le Brusc ("Lagune, herbiers du Brusc"), France	0–1 lagoon
	2 shs., MNHN coll. Locard	Marseille, France	-
	3 shs., MNHN coll. Locard	Martigues, France	-
	2 shs., MNHN coll. Locard	Menton, France	-
	9 shs., MNHN coll. Locard	Nice, France	-
	172 shs., (59 P), MNHN also from coll. Locard and Vignal	Porquerolles, France	0–1 (pars)
	12 shs., MNHN coll. Locard	"Rade de Toulon", France	
	2 shs., MNHN coll Locard	Roussillon, France	-
	93 P, MNHN	St. Clair, France	0–1
	8 shs., MNHN coll. Locard	St. Raphael, France	-
	5 shs., MNHN coll. Locard	St. Tropez, France	-
	2 shs., MNHN coll. Vignal	La Spezia, Italy	-
	4 shs., MNHN coll. Locard	St. Florent,	-

	Corsica		
7 shs., MNHN coll. Vignal	Stagno di Diana, Corsica	Lagoon	
6 shs., MNHN coll. Locard	Bastia, Corsica	-	
12 shs., MNHN coll. Vignal	Bastia, Corsica	-	
3 shs., MNHN coll. Locard	Bonifacio, Corsica	-	
1 sh., MNHN coll. Locard	Calvi, Corsica	-	
13 shs., MNHN coll C. and F. Monniot	Folaca, Corsica	Mediolittoral	
30 shs., SMNH 34554	4 km E of Porto Vecchio, Corsica, 41°35' N 9°17' E.	2, Algal washing	
2 shs., MNHN coll. Locard	Rousse Island, Corsica	-	
12 shs., (11 P), MNHN	Porto Veccio, Corsica	-	
9 shs., MNHN coll. Locard	Ajaccio, Corsica	-	
2 shs., MNHN coll. Vignal	“Gulf of Bonaria”, Sardinia	-	
52 shs., coll. Garilli	Pietrafitta, “La Vigna”, Siena, Italy	Infralittoral sands	Pliocene (Piacenzian)
7 shs., coll Garilli	Pietrafitta, “Podere”, Siena, Italy	Infralittoral sands	Pliocene (Piacenzian)
10 shs., coll. Toscano	Lago Miseno, Italy	Brackish lake	
6 shs., MNHN coll. Vignal	Naples, Italy	-	
9 shs., MNHN coll. Vignal	Cuma, Italy	-	
5 shs., MNHN coll. Vignal	Isle of Capri, Italy	-	
1 sh., coll Spada	Porto Cesareo, Italy	3–6	
536 shs., (201 P), coll Garilli, also at MNHN	Stagnone di Marsala, Sicily	0–0.2 lagoon	
106 shs., (21 P), MGUP coll. Buccheri	Isola Grande, Sicily	Lagoon	
1 sh., MNHN coll. H. Fischer ex coll. Monterosato	Trapani, Sicily	-	
19 shs., (12 P), coll Garilli	Favignana island, off Sicily	Beach deposit	
128 shs., (27 P), coll Garilli, also at MNHN	San Vito lo Capo, Sicily	0.5–3	
105 shs., (42 P), coll Garilli	Dattilo, Trapani, Sicily	<i>Posidonia</i> in sheltered environment	Early Pleistocene (Calabrian)
9 P, MNHN coll. Garilli	Cinisi, Sicily	Beach deposit	

11 P, coll Garilli	Capo Gallo, Palermo, Sicily	16–20 <i>Posidonia</i> and sand	
23 P, coll. Garilli, also at MNHN	Mondello, Sicily	0.1–1 algae and sand	
6 shs., MNHN coll. Vignal	Palermo, Sicily	-	
13 shs., MNHN coll. Locard	Palermo, Sicily	-	
3 P, coll. Garilli	Palermo, Sicily	Sand from palaeo <i>Posidonia</i> bed	Holocene
112 shs., (1 P), coll. Garilli	Palermo (Fondo Patti), Sicily	Infra–circalittoral	Early Pleistocene (Calabrian)
3 shs., MNHN coll. Vignal	Milazzo, Sicily	-	
1274 shs., (536 P), coll Garilli, also at MNHN	Tindari, Sicily	Brackish lakes	
10 shs., MNHN coll Vignal	Messina, Sicily	-	
10 shs., MNHN coll Vignal	Messina, Sicily, and Sfax, Tunisia	-	
1 sh., coll. Garilli	Messina, Sicily	0.5 lagoon	
2 shs., MNHN coll. Locard	Messina, Sicily	-	
8 shs., (7 P), MNHN coll Garilli	Torre Vendicari, Sicily	0.2–0.6 algae	
34 shs., (8 P), coll. Garilli	Cartiera Mulino, Vittoria, Ragusa, Sicily	<i>Posidonia</i> in sheltered environment	Early Pleistocene (Calabrian)
49 P, coll Garilli	Case Buffa, Vittoria, Ragusa, Sicily	Sheltered, possibly lagoon environment	Early Pleistocene (Calabrian)
1 sh., SMNH 18805	Brucoli, Sicily, 1- 2 m. 37°16' N 15 °11' E. Mission Sicile Orientale, 1990. Sta. 0113	1–2, stones, algae and sea grass.	
12 shs., SMNH 18865	Baie de Brucoli, Punta Tonnara, 37°17' N 15°11' E. Mission Sicile Orientale, 1990. Sta. 0111	0–2, rocks and algae	
3 shs., SMNH 19112	Baie de Brucoli, Sicily, 37°16' N 15° 11' E. Mission Sicile Orientale, 1990. Sta. 0114	3–9, <i>Posidonia</i> and sand	
172 shs., SMNH 19110	Baie de Brucoli, Sicily, 37° 16' N 15°11' E. Mission Sicile Orientale, 1990. Sta. 0110	Seagrass beds	
3 shs., SMNH 19107	Cozzo dei Turchi, Brucoli, Sicily, 37°17' N 15°09'	20, algae, stones and <i>Lithothamnium</i>	

	E. Mission Sicile Orientale, 1990. Sta. 0118	gravel.
15 shs., coll. Garilli	Harbour of Linosa island, Strait of Sicily	0.5–1, on sands and rocks with algae
6 shs., MNHN coll. Vignal	El Kantara, Algeria	-
654 shs., (113 P), coll. Garilli	Oued El Galaa ("stop 2"), Menzel Bourguiba, Tunisia	Lagoon mud and sand
107 shs., (37 P), coll. Garilli	Oued El Galaa ("stop 1"), Menzel Bourguiba, Tunisia	Infralittoral sands, open sea
5 shs., MNHN coll. Vignal	"Chenal de Tunis", Tunisie, Tunisia	Lagoon
5 shs., MNHN coll. Vignal	"Lac de Tunis", Tunisi, Tunisia	Lagoon/lake
153 shs., (58 P), coll. Garilli	La Goulette, Tunisia	0–0.5 lagoon/lake, sand and mud
221 shs., (46 P), MNHN coll Garilli	Between Monastir and Khenis, Tunisia	0–0.5, on sands, open sea
299 shs., (75), MNHN coll Garilli	Between Monastir and Khenis, Tunisia	0–0.5 mud and sand, lagoon
43 shs., coll. Garilli	Between Monastir and Khenis, Tunisia	Infra–circalittoral
10 shs., coll Pallary and Vignal	Sfax, Tunisia	Late Pleistocene
19 shs., MNHN coll. Dautzenberg and Vignal	Gulf of Gabès, Tunisia	-
4 shs., MNHN coll. Pallary	Adjim, Djerba Tunisia	-
23 shs., MNHN coll. Pallary and Vignal	Djerba, Tunisia	
36 shs., (24 P), MNHN coll. Boisselier	Borj Jlij, Djerba, Tunisia	Infralittoral
134 shs., (68 P), MNHN coll. Boisselier	Boughrara Sea, Djerba, Tunisia	Mud and sand, lagoon
644 shs., (364 P), MNHN coll. Boisselier	El Quantara, Djerba, Tunisia	Lagoon
59 shs., MNHN coll. Boisselier	La Fidel, Djerba, Tunisia	Lagoon
3 shs., MNHN coll. Boisselier	La Fidel, Djerba, Tunisia	Infralittoral, open sea

	211 shs., (117 P), MNHN coll. Boisselier	Northern coast of Djerba, Tunisia	Sheltered infralittoral
	267 shs., (226 P), MNHN coll. Boisselier	Northeastern coast of Djerba, Tunisia	Lagoon
	97 P, MNHN coll. Boisselier	Northeastern coast of Djerba, Tunisia	Infralittoral, open sea
	6 shs., MNHN also coll. Vignal	“Coste di Barberia”, North Africa	-
	2 shs., MNHN coll. Vignal	“Tripolitaine”, Libya	-
	3 shs., MNHN coll. Vignal	Tripoli, Libya	-
	2 shs., coll. Spada	Isle of Agios Sostis, Zakynthos, Greece	0–2
	16 shs., coll. Spada	Coral Bay, Pafos, Isle of Cyprus	1–4
	114 shs., coll. Spada	Aya Napa, Isle of Cyprus	0.6–3
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<i>Cerithium vulgatum</i>	3 shs., MNHN coll. Adanson	Senegal	-
	118 P, MNHN	Temara, Atlantic Morocco	0-2
	30 shs., MNHN and 6 shs., SMNH 18860	Algarve (Chenal d'Olhão Channel, Algarve, Portugal 37°00' N 7°51' W. Mission Algarve, 1988.	3–7, soft bottoms and <i>Zoostera</i> .
	571 shs., SMNH 18828, 18857	Sagres Harbour, Algarve, Portugal. 37°00' N 8°55' W. Mission Algarve, 1988	3–5, rocks and algae
	1 sh., SMNH 18859	Sagres Harbour, Algarve, Portugal. 37°00' N 8°55' W. Mission Algarve, 1988	9–15, rocks and algae
	1 sh., SMNH 34562	Anse Almadraba, Ceuta, Strait of Gibraltar, 35°55' N 5°19' W. CEUTA 1986	26–45
	3 shs., SMNH 34563	El Pineo, Ceuta, Strait of Gibraltar. 9-10 m. 35°52' N 5°19' W. P. Bouchet, May 1986	9–10
	14 shs., SMNH 34564	Punta del Saudino, Ceuta, Strait of Gibraltar, 35°54' N 5°18' W.	20–40

4 shs., SMNH 34565	CEUTA 1986 Punta del Desmarigado, Ceuta, Strait of Gibraltar, 35°53' N 5°16' W.	16–25
3 shs., SMNH 34566	CEUTA 1986 San Amaro, Ceuta, Strait of Gibraltar, 35°53' N 5°18' W.	6
4 shs., SMNH 18858	CEUTA 1986 Portugal algarve, Olhao E of harbour. Algarve, Portugal, 37°01' N 7°49'W. Mission Algarve, 1988	Intertidal, muddy sand, <i>Zoostera</i> bed
12 shs., MNHN	Ceuta (harbour), Spanish Morocco	2–6
4 shs. (3 P), MNHN	La Herradura, Spain	3–10
3 shs., MNHN coll. Vignal	Spain	-
1 sh., MNHN coll. Vignal	Palma de Mallorca, Balearic Islands	-
1 sh., MNHN coll. Vignal	“Baie de Soller”, Mallorca, Balearic Islands	-
5 shs., MNHN coll. Locard	Cannes, France	-
1 sh., MNHN coll. Vignal	Sète, France	-
1 sh., MNHN coll. Locard	La Seyne, France	-
1 sh., MNHN coll. Locard	Marseille, France	-
1 sh., MNHN coll. Vignal	Martigues, France	-
3 shs., MNHN coll. Dautzenberg	Roussillon, France	-
18 P, MNHN	St. Clair, France	-
4 shs., MNHN coll. Locard	St. Raphael, France	-
1 sh., MNHN coll. Locard	St. Tropez, France	-
1 sh., MNHN coll. Vignal	Antibes, France	-
1 sh., MNHN coll. Vignal	La Spezia, Italy	-
1 sh., SMNH 36314	Porto Venere, La Spezia, Leg. Schuller, 26/1/1932 Ex Coll. Schlesch.	-
4 shs., MNHN coll. Vignal	Bastia, Corsica	-
2 shs., MNHN coll. Locard	St. Florent,	-

	Corsica		
4 shs., MNHN coll. Vignal	Naples, Italy	-	
7 shs., coll. Spada	Punta Pennata, Naples, Italy	15	
165 shs. (5 P), coll Garilli, also at MNHN	San Vito Lo Capo, Trapani, Sicily	0.5–3	
21 shs., coll. Garilli	Castellammare, Trapani, Sicily	2–4, on rocks with algae	
65 shs., (3 P), coll. Garilli	Cinisi, Palermo, Sicily	Beached shells	
14 shs., (3 P), coll Garilli, also at MNHN	Capo Gallo, Palermo, Sicily	16–20 on fine gravel and coarse sand between <i>Posidonia</i>	
6 shs., coll Garilli	Capo Gallo, Palermo, Sicily	1.5–2 on photophilous algae	
24 shs., (5P), coll. Garilli	Mondello, Palermo, Sicily	0.1–1 on photophilous algae	
41 P, MGUP	Fondo Patti, Palermo, Sicily	Infra–circalittoral	Early Pleistocene (Calabrian)
14 shs. MNHN coll. Vignal	Palermo, Sicily		
55 shs. (33 P), coll. Garilli	Palermo, Sicily	Sand from palaeo <i>Posidonia</i> bed	Holocene
15 shs. (10 P), coll. Garilli	Tommaso Natale, Palermo, Sicily	Infralittoral	Late Pleistocene
1 sh., MNHN coll. Vignal	Algeri, Algeria	-	
2 shs., MNHN coll. Vignal	Arzew, Algeria	-	
1 sh., MNHN coll. Locard	Oran, Algeria	-	
2 shs., MNHN coll. Vignal	Adjim, Tunisia	-	
2 shs., MNHN coll. Pallary	Tunisi, Tunisia	-	
4 P, MNHN coll Garilli	Between Monastir and Khenis, Tunisia	0–0.5 on sands, open sea	
62 shs., coll. Garilli	Between Monastir and Khenis, Tunisia	Infra–circalittoral	Late Pleistocene
6 shs., MNHN coll. Pallary	Sfax, Tunisia	-	
6 shs., MNHN coll. Vignal	Djerba, Tunisia	-	
9 shs. (8 P), MNHN coll. Boisselier	Northeast Djerba Island, lagoon, Tunisia	-	
7 shs., MNHN coll. Boisselier	Northeast Djerba Island, open sea,	-	

	Tunisia		
1 sh., MNHN coll. Vignal	"Tripolitaine", Libya	-	
1 sh., MNHN coll. Vignal	Benghazi, Libya	-	
6 shs., coll. Spada	Duino, Trieste, Italy	4-5	
5 shs., coll. Spada	Venice, Italy		
8 shs., coll. Garilli	Grado, Gorizia, Italy	photophilous algae	
2 shs., MNHN coll. Vignal	Isle of Corfu, Greece	-	
6 shs., coll. Spada	Porto Cesareo, Lecce, Italy	3-6	
18 shs. (18 P), coll. Spada	Isle of Agios Sostis, Zakynthos, Greece	0-2	
23 shs. (15 P), coll. Garilli	Kyllini, Greece	Infralittoral	Late Pleistocene
1 sh., SMNH 18862	Acitrezza, Sicily, 0-5 m. 37°33'N 15°10'E Mission Sicile Orientale, 1990. Sta. 0103	0-5, algae and coralline gravel	
5 shs., SMNH 19112	Baie de Brucoli, Sicily, 37°16' N 15° 11' E. Mission Sicile Orientale, 1990. Sta. 0114	3-9, <i>Posidonia</i> and sand	
3 shs., SMNH 19107	Cozzo dei Turchi, Brucoli, Sicily, 37°17' N 15°09' E. Mission Sicile Orientale, 1990. Sta. 0118	20, algae, stones and <i>Lithothamnium</i> gravel.	
4 shs., SMNH 19110	Baie de Brucoli, Sicily, 37° 16' N 15°11' E. Mission Sicile Orientale, 1990. Sta. 0110	Seagrass beds	
18 (8 P) shs, coll. Garilli	Torre Vendicari, Sicily	0.2-0.6 on photophilous algae	
6 P, coll. Garilli	Case Buffa, Vittoria, Ragusa, Sicily	Sheltered, possibly lagoon environment	Early Pleistocene (Calabrian)
66 (8 P) shs, coll. Garilli	Bovetto, Reggio Calabria, Italy	Infra-circalittoral	Late Pleistocene
15 shs, coll. Garilli	Alexandroupoli, Greece	Beached shell	
1 sh., MNHN coll. Vignal	Isle of Crete, Greece	-	

23 P, MNHN	Isle of Spetses, Greece	Beached shells
56 shs (50 P), MNHN	Marathon, Greece	Infralittoral
6 shs (4 P), MNHN	Cape Sounion, Greece	23
3 shs, SMNH 36315, Passler. Ex coll. Schlesch	Isle of Poros, Greece	-
22 shs, MNHN coll. Garilli	Harbour of Pythagorion, Isle of Samos, Greece	1–4 on photophilous algae
3 shs, MNHN coll. Vignal	Gulf of Smirne, Turkey	-
4 shs., MNHN coll. D'Orbigny - B41319	Rhodes Island	-
1 sh., coll. Spada	Coral Bay, Pafos, Isle of Cyprus	1–4
