

Data Repository Item # 2002093

Appendix Table DR1: Live-dead datasets used in this analysis (arranged onshore to offshore).

Study area	Author	Latitude (°N)	Environments	Number of facies-level datasets	Sieve size (mm)	Number of stations sampled (physical locations)	Number of censuses of live community (visits)	Total number of samples available	Duration of live study (years)
11 estuaries, Washington State to Baja California *#	MacDonald, 1969	28-47	marsh	9	0.5	443	1	443	0.25
			tidal creek	10	1	121	1	121	0.25
Eden estuary, eastern Scotland	Zenetos, 1980, 1990, 1991	56	intertidal flat	4	2	48	1	48	0.25
Seto Sea, Japan *#	Tanabe et al., 1986, pers. comm.	34	intertidal flat	2	5	23	1	23	0.25
Mugu Lagoon, California *#	Warme, 1971	34	intertidal flat, subtidal sand and grassbeds	3	3	54	1	54	0.25
Mugu Lagoon, California	Peterson, 1972, 1976	34	subtidal sand	1	2	74	7	74	1.75
Tijuana Slough, California	Peterson, 1972, 1976	32.5	subtidal sand	1	2	62	7	62	1.75
Mannin Bay, Ireland *#	Bosence, 1979a, 1979b	53	algal gravels, sands, mud	5	0.5	75	1	75	0.25
Malo Jezero, Mljet Island, Croatia	Peharda, 2000	43	gravelly sand to mud in saltwater lake	4	5	22	1	22	0.25
Tomales Bay, California	Johnson, 1965, unpubl. data; Juskevici, 1969	38	mud, muddy sand, sand/gravel	4	1.5	71	1	71	0.25
Chesapeake Bay, Virginia	Jackson, 1968	37.5	sand, mud, grassbed	3	1	25	1	25	0.25
Copano Bay, Texas *#	Staff et al., 1985, 1986	28	marginal sandy mud	1	0.5	2	18	36	1.5
Copano Bay, Texas	Calnan, 1980	28	sands, muds, oyster reef, shell gravels	6	1	92	1	92	0.25
Lagunas Carmen and Machona, Tabasco, Mexico	Reguero, 1994; Antoli and Garcia-Cubas, 1985	18.5	muds to sands	5	1.5	26	1	26	0.25
Laguna Mecoacan, Tabasco, Mexico	Reguero, 1994; Galviz-Solis et al., 1987	18.5	muddy sand	1	1.5	16	1	16	0.25
Laguna La Mancha, Veracruz, Mexico	Reguero, 1994; Flores-Andolais et al., 1988	19.5	oligohaline to mesohaline muds, sandy mud	4	1.5	33	1	33	0.25
Cancun, Yucatan, Mexico *#	Ekdale, 1972, 1977	21	backreef, channel, and open shelf	4	3	50	1	50	0.25
Smugglers Bay, US	Miller, 1981, 1988	18	grassbeds to non-	3	4	37	2	74	0.6

Virgin Islands			vegetated sand							
Helgoland Bight, Germany #	Reineck et al., 1971, 1967	54	shoreface sand to open shelf mud	3	0.63	29	1	29	0.25	
Gulf of Gaeta, Italy #	Hertweck, 1971, Dorjes, 1971	41	shoreface sand to open shelf mud	3	0.8	53	1	53	0.25	
Plymouth Sound and shelf, English Channel *#^A	Carthew and Bosence, 1986a, 1986b	50	shellgravels	3 subareas	2	11	4	44	0.6	
Sapelo Island, Georgia *#	Henderson and Frey, 1986	31	estuarine sand, shoreface channel and inner shelf	3	1.5	8	1	8	0.25	
Amazon shelf, Brazil	Aller, 1995; Aller and Stupakoff, 1996; Aller pers comm	0-4	fluid muds, muddy sand, relictual shelly sand	3	0.3	11	4	44	1	
21 study areas, plus the 11 Pacific North American marsh/creek study areas of MacDonald (1969)	0-54°N range in latitude			85 facies- level datasets	range 0.3-5 mm sieves	1386 total stations	Range 1-18 censuses per habitat (facies)	1523 total samples	1 season to 1.75 years of live data	
				Repeated censuses permit 25 replicate single-census tests of some facies		= avg 16 stations sampled per facies (per census)			Repeated censuses permit 12 facies-level tests of pooling live data	

Note: These marine molluscan datasets all consist of numerical abundance data for complete lists of live and dead species, including rare species; grain size data were available to determine how stations should be pooled into facies; both live and dead specimens were sieved from sediment using a single, known mesh size; each facies-level dataset is based on at least 2 samples.

\* Datasets included in analysis of Kidwell and Bosence (1991).

# Datasets included in analysis of Kidwell (2001).

^^ Using authors' field samples only; live data gathered in the study area by earlier workers, which these authors pooled with their own, were collected using other (finer) sieve sizes.

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Appendix Table DR2: Live-dead studies excluded from this analysis (arranged onshore to offshore).

Study material			Reason study excluded from present analysis			
Study area	Author	Environments	Sieve size (mm)	Numerical abundance data not provided	Rare species omitted	Other factors
Essex cheneir plain, English North Sea	Antia, 1977	intertidal flat, cheniers	1		Data for dominant live and dead spp only	
Solway Firth, western Scotland	Wilson, 1965, 1967	intertidal flat	2		Data for dominant live and dead spp only	
Liverpool Bay, England *#	Lingwood, 1976a, 1976b	intertidal flat	5	Binary data for complete spp lists	Data for dominant live and dead spp only	
Cholla Bay, Sonora, northern Gulf of California *#+	Fursich and Flessa, 1991	Marsh, intertidal flat, subtidal sand	3		Data for dominant dead spp only	
Inchon, Yellow Sea, Korea *#	Frey et al., 1988	intertidal flat	No info			
Matsukawa, Japan	Kotaka et al., 1955	intertidal lagoon and baymouth	No info	Semi-quantitative abundance data		
Hamana Lake, Japan	Tsuchi, 1957	brackish mud to sand	No info			
Hakata Bay, Japan	Shimoyama and Hamano, 1988	eutrophic muds to sand	2		Data for dominant live and dead spp only	
Ria de Arosa, Atlantic Spain *#	Cadée, 1968	estuarine sands, muds; shelf relictual shell gravel	2	Sample-occurrence data		unclear where live are accompanied by dead
Rhone delta, French Mediterranean	van Straaten, 1960	lagoon, beach, shelf	2.5 mm			live and dead never discriminated
Florida Bay, eastern Gulf of Mexico *#	Turney and Perkins, 1972	brackish to marine salinity muds, shelly banks	1	Binary live data, semi-quantitative dead data		
Louisiana shelf, Gulf of Mexico	Boyer, 1970	Shelf muds, relict sediments	No info	Semi-quantitative data		
Louisiana-Texas shelf and bays, Gulf of Mexico	Parker, 1956, 1959, 1960	Brackish, hypersaline and normal marine muds, sands, shell gravels	No info	Qualitative information	Data for dominant live and dead spp only	Live and dead not discriminated
Texas shelf and bays, northern Gulf of Mexico	Ladd et al., 1957	Brackish, hypersaline and normal marine muds, sands, shell gravels	No info	Semi-quantitative live data, binary dead data		unclear where live are accompanied by dead
Texas shelf and bays, northern Gulf of Mexico +	White et al., 1983, 1985	Brackish and normal marine muds, sands, shell gravels	1			Data summarized for entire bays and shelf area, not by facies
Mesquite Bay, Texas	Haas, 1980	Brackish and normal marine muds, sands, shell gravels	Uncertain			Live and dead data combined, also pooled with data from White et al., 1983
Laguna Madre, Texas	Smith, 1985	Sand, shell gravel, muds	Uncertain, < 3 mm			Ambiguous registration of data in columns of data appendix

Laguna Madre, Texas	Staff et al., 1985, 1986	Sand	0.5			Spindle plots of abundance must be digitized
Caribbean lagoons, Tabasco and Veracruz, Mexico +	Reguero, 1994	5 additional polyhaline-oligohaline study areas	1.5			Uncertainty on sample occurrence by facies
Nayarit shelf, Pacific Mexico +	Reguero and Garcia-Cubas, 1989	Sand, silty sand, mud	1.5?			Data pooled for entire study area (3 facies)
Mevagissey Bay, Cornwall, English Channel *	Knight, 1988	Marine bight formerly receiving clay waste	2			Sample-level data not available; recent anthropogenic change in sediment regime
Liverpool Bay, England #	Lingwood, 1976a, 1976b; Eagle, 1973	subtidal sand and mud	5 mm dead, 1 mm live			
Canso Strait, Nova Scotia *	Wagner, 1975	Rock-rimmed bight; no grain size data	Uncertain, <5 mm	Sample-occurrence data		
Dutch coast, North Sea	Eisma, 1966, 1968	Shoreface sands, gravelly sands, muddy sands	1	Sample-occurrence data	Data for dominant dead spp only	Data summarized for entire area, not by facies
Oyster Ground, Dutch North Sea *#	Cadée, 1984	shoreface sand, muddy sand	1		Data for dominant live and dead spp only	
Plymouth shelf, English Channel	Allen, 1899	Sand, shell gravel	No info	Semi-quantitative live data, binary dead data	Dead spp list appears to be incomplete	
Dogger Bank, southern North Sea	Davis, 1923, 1925	Sand, shell gravel	1.5	Semi-quantitative live data, binary dead data		Station-level live data, but dead summed over entire Bank
Cyclades Plateau, Aegean Sea	Zenetas et al., 1991, unpubl. data	Mud to coralligenous shelf facies	1	Binary dead data		
Rhodes Island, Aegean Sea	Zenetas and van Aartsen, 1994; Pancucci-Papadopoulou et al., 1999	silty sand and coaralligenous shelf facies	1			data pooled across all facies
Texas shelf, northern Gulf of Mexico #+	Staff and Powell , 1999	muddy sand	1		Data for dominant live and dead spp only	Data from all censuses pooled
Gulf of California, Mexico *	Parker, 1963	intertidal to abyss	1	Binary data		unclear where live are accompanied by dead

Note: Reasons for exclusion of study from this analysis include one or more of the following: sieve size uncertain, live and dead taken from different sieve sizes, numerical abundance data not available, rare species omitted from species list, ambiguity whether live species are accompanied by dead shells, data not resolvable to facies-level, or other ambiguity in samples. Most of these can be incorporated in a larger and coarser analysis (in progress).

\* Dataset included in analysis of Kidwell and Bosence (1991).

# Dataset included in analysis of Kidwell (2001).

+ Dataset to be upgraded using unpublished data being made available by original authors.

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