



## Appendix A: Biomass, production and consumption per set for real bays.

Values marked with the superscript <sup>U</sup> or <sup>L</sup> indicate bays that mark the bounds (upper and lower) of the range for that set in Figure 1.4.

**Table A.1:** Dissolved inorganic nitrogen (DIN), chlorophyll a (chl a) and primary production for real bays.

Country	Bay	DIN (mmol DIN m <sup>-3</sup> )	Chl a (mg chl a m <sup>-3</sup> )	Production (mg C m <sup>-2</sup> d <sup>-1</sup> )	References
Australia	Albatross Bay	1.8	1.5		Burford et al. 1995
	Port Phillip Bay	0.8	1.0	364 - 574	Harris et al. 1996, Murray and Parslow 1997, Fulton and Smith in prep
Brazil	Baia de Guanabara	28.0	57.0		Kjerfve et al. 1997
	Patos Lagoon	5.6 - 9.2	2.3 - 11.3		Abreu et al. 1995
Canada	Bedford Basin	3.6 - 21.5	5.7 - 11.3		Monbet 1992
	St Lawrence Estuary			992	Tremblay et al. 1997
Chile	Strait of Magellan			218	Saggiomo et al. 1994
	Tongoy Bay			2110	Wolff 1994
France	Bay of Brest	5.7	6.1	1278	Del Amo et al. 1997
India	Cochin Backwater				Monbet 1992
Italy	Palude della Rosa			23	Carrer and Opitz 1999
	Bahia de Los Angeles	1.0 - 1.5	1.0 <sup>L</sup> - 7.0	800	Delgadillo-Hinojosa et al. 1997
Mexico	Tampamachoo Lagoon			300	Rosado-Solorzano and Guzmán del Prío 1998
	Terminos Lagoon			96	Manickchand-Heileman et al. 1998
Netherlands	Wadden Sea	3.9	7.7		Monbet 1992
New Zealand	Beatrix Bay	0.2 <sup>L</sup> - 1.4	2.0 - 4.1		Gibbs and Vant 1997
Philippines	Laguna de Bay			2681 - 6632	Delos Reyes and Martens 1994
Spain	Urdaibai Estuary			1415	Iriarte et al. 1996
South Africa	Kromme Estuary			49	Heymans and Baird 1995
South Orkney	Signy Island			72 - 188	Clarke and Leakey 1996
UK	Firth of Clyde	7.0 - 9.4	2.0 - 6.3		Monbet 1992, Bock et al. 1999
USA	Apalachicola Bay	2.2 - 5.0	5.4 - 7.1	750	Monbet 1992, Mortazavi et al. 2000
	Buzzards Bay	4.2	8.7		Borkman and Turner 1993

**Table A.1:** Continued.

Country	Bay	DIN (mmol DIN m <sup>-3</sup> )	Chl a (mg chl a m <sup>-3</sup> )	Production (mg C m <sup>-2</sup> d <sup>-1</sup> )	References
	Charlotte Harbour	6.6 - 15.3	4.8 - 15.2		Monbet 1992
	Chesapeake Bay	5.5 - 42.2	9.9 - 33.7		Monbet 1992
	Chincoteague Bay	7.5	22.0	1100	Boynton et al. 1996
	Columbia River	15.3	7.3		Monbet 1992
	Flax Pond	4.6 - 5.2	5.5 - 5.8		Monbet 1992
	Galveston Bay	16.0	6.9		Santschi 1995
	Hilsborough	47.1 - 48.1	13.4 - 19.3		Monbet 1992
	Hudson River	33.6 - 45.6	2.7 - 23.7		Monbet 1992
	Isle of Wight Bay	11.0	38.0		Boynton et al. 1996
	James River	54.3	41.4		Monbet 1992
	Long Island Sound	8.2	8.6		Borkman and Turner 1993
	Massachusetts Bay	6.5	3.1		Borkman and Turner 1993
	Monterey Bay	5.0 - 10.0	3.0 - 6.0		Pennington and Chavez 2000
	Narragansett Bay	4.7 - 10.2	9.1 - 10.3		Monbet 1992, Smayda 1983
	Neuse River	5.0	12.8		Monbet 1992
	North Inlet	27.0	7.0		Monbet 1992
	Patuxent River	8.6 - 63.9	12.3 - 48.1		Monbet 1992
	Peconic Bay	2.6	2.9		Turner et al. 1983
	Potomac River	8.8 - 119.2 <sup>u</sup>	12.7 - 78.9		Monbet 1992
	Rappahanock River	3.4 - 24.7	4.5 - 21.7		Monbet 1992
	Rhode River	10.0 - 15.3	8.1 - 150.0 <sup>u</sup>		Monbet 1992, Gallegos et al. 1997
	San Francisco Bay	4.0 - 40.9	8.9 - 25.2		Monbet 1992
	South River	9.7	16.8		Monbet 1992
	York River	4.8 - 4.9	3.3 - 4.0		Monbet 1992

**Table A.2:** Zooplankton biomass, production and consumption for real bays.

Country	Bay	Zooplankton (mg AFDW m <sup>-3</sup> )	Production (mg C m <sup>-2</sup> d <sup>-1</sup> )	Consumption (mg C m <sup>-2</sup> d <sup>-1</sup> )	References
Australia	Port Phillip Bay	68.4 - 68.5	143.4 - 169.0	232.7	Holloway and Jenkins 1993, Beattie et al. 1996, Murray and Parslow 1997, Fulton and Smith in prep
Baltic	Northern Baltic		32.9		Koski et al. 1999
Chile	Tongoy Bay	20.0	197.3	867.9	Wolff 1994
Denmark	Kattegat	106.0	400.0		Kjørboe and Nielsen 1994a, b
France	Arcachon Bay	150.0			Poulet et al. 1996
	Cantabrian Coast	82.4 - 102.0			Poulet et al. 1996
	Gironde	43.8			Plounevez and Champalbert 1999
	Ushant	50.0			Poulet et al. 1996
	West English Channel	150.0			Poulet et al. 1996
France/UK	Celtic Sea	200.0			Poulet et al. 1996
Finland	Bothnian Bay		16.4		Koski et al. 1999
	Sällvik		28.8		Koski et al. 1999
	Storfjärden		31.0		Koski et al. 1999
	Långden		76.9		Koski et al. 1999
India	Bay of Bengal	36.3			Kumari and Goswami 1993
	Goa		48.9		Goswami and Padmavati 1996
Ireland	West Irish Sea	26.9			Dickey-Collas et al. 1996
Italy	Palude della Rosa	72.7	18.1		Carrer and Opitz 1999
Jamaica	Kingston Harbour	331.0			Hopcroft et al. 1998
Mexico	Chetumal Bay	10.7 <sup>L</sup>			Gasca and Castellanos 1993
	Terminos Lagoon	322.0	26.3	111.1	Manickchand-Heileman et al. 1998
	Tampamachoo Lagoon	79.2	4.4	22.2	Rosado-Solorzano and Guzmán del Próo 1998
Netherlands	Westerschelde	60.0			Soetaert and Herman 1994
Philippines	Laguna de Bay	400.0 - 563.0 <sup>U</sup>	253.2 - 456.9	1019.8 - 1823.3	Delos Reyes and Martens 1994
Russia	Barents Sea	60.0			Sakshaug et al. 1994
South Africa	Kromme Estuary	30.0	11.2	36.5	Heymans and Baird 1995
Spain	Galicia	125.0			Poulet et al. 1996
	La Coruna	170.8			Poulet et al. 1996

Table A.2: Continued.

Country	Bay	Zooplankton (mg AFDW m <sup>-3</sup> )	Production (mg C m <sup>-2</sup> d <sup>-1</sup> )	Consumption (mg C m <sup>-2</sup> d <sup>-1</sup> )	References
Sweden	Central Baltic		16.4		Koski et al. 1999
Taiwan	Chiku Lagoon	40.8			Lin et al. 1999
UK	Plymouth	30.0			Harvey 1950
USA	Chesapeake Bay	71.4 - 148.0			Park and Marshal 2000
	Corpus Christi Bay	144.8			Buskey 1994
	Monterey Bay	28.0			Olivieri and Chavez 2000
	Narragansett Bay	201.8			Durbin and Durbin 1998

Table A.3: Fish biomass, production and consumption for real bays.

Country	Bay	Total fish (g AFDW m <sup>-2</sup> )	Total production (mg AFDW m <sup>-2</sup> d <sup>-1</sup> )	Total consumption (mg AFDW m <sup>-2</sup> d <sup>-1</sup> )	References
Australia	Albatross Bay	5.5			Blaber et al. 1994
	Alligator Creek	2.4			Robertson and Duke 1990
	Bagot Point		65.2		Edgar and Shaw 1995
	Barker Inlet		82.2		Edgar and Shaw 1995
	Botany Bay	1.4			Bell et al. 1984
	Carama Inlet		14.6		Edgar and Shaw 1995
	Cloudy Lagoon		69.8		Edgar and Shaw 1995
	Crib Point		13.1		Robertson 1980
	Embley Estuary	15.8			Blaber et al. 1989
	French Island		3.6		Edgar and Shaw 1995
	Frenchmans Bay		5.5		Edgar and Shaw 1995
	Groote Eylandt	5.5			Blaber et al. 1994
	Great Barrier Reef	35.6			Williams and Hatcher 1983
	Gulf of Carpentaria	2.7			Blaber et al. 1994
	Lake King		58.6		Edgar and Shaw 1995
	Moreton Bay	3.1			Morton 1990
	North West Shelf	> 0.47			Sainsbury 1987

**Table A.3:** Continued.

Country	Bay	Total fish (g AFDW m <sup>-2</sup> )	Total production (mg AFDW m <sup>-2</sup> d <sup>-1</sup> )	Total consumption (mg AFDW m <sup>-2</sup> d <sup>-1</sup> )	References
	One Tree	47.6 <sup>U</sup>			Russell 1977
	Parker Point		44.2		Edgar and Shaw 1995
	Peel-Harvey Estuary	0.5 <sup>L</sup>			Loneragan et al. 1986
	Porpoise Bay		2.0		Edgar and Shaw 1995
	Port Gawler		12.8		Edgar and Shaw 1995
	Port Phillip Bay	3.3	6.2	55.7 - 72.2	Hall 1992, Parry et al. 1995, Fulton and Smith in prep
	Princess Royal Bay		90.9		Edgar and Shaw 1995
	Rockingham		36.2		Edgar and Shaw 1995
	South East Gulf	2.8			Blaber et al. 1994
	Thomsons Bay		1.6		Edgar and Shaw 1995
	Western Port Bay	1.2			Robertson 1980
	Woodmans Point		5.2		Edgar and Shaw 1995
Bermuda	Bermuda	10.8			Bardach 1959
Chile	Tongoy Bay	4.6	54.6	377.3	Wolff 1994
China	Western Yellow Sea	>0.1			Rhodes 1998
Crete	Heraklion Bay	9.5			Kallianiotis et al. 2000
Egypt	Gulf of Aqaba	21.2			Whitfield 1993
Eritrea	Dahlak Archipelago	7.7			Russell 1977
France	Port Cros	1.7			Francour 1997
Hawaii	French Frigate Shoals	29.7			Freidlander and Parrish 1997
	Hanalei Bay	16.6			Freidlander and Parrish 1997
	Hawaii	20.4			Russell 1977
	Hulopoe-Manele	44.6			Freidlander and Parrish 1997
	Kaneohe Bay	23.8			Freidlander and Parrish 1997
	Midway Atoll	28.6			Freidlander and Parrish 1997
	Oahu	20.5 - 21.0			Freidlander and Parrish 1997
	Waikiki	5.8			Freidlander and Parrish 1997
India	Marmugao Bay	1.5			Ansari et al. 1995
	Aguada Bay	1.1			Ansari et al. 1995

**Table A.3:** Continued.

Country	Bay	Total fish (g AFDW m <sup>-2</sup> )	Total production (mg AFDW m <sup>-2</sup> d <sup>-1</sup> )	Total consumption (mg AFDW m <sup>-2</sup> d <sup>-1</sup> )	References
Indian Ocean	Mayotte	30.9			Letourneur et al. 2000
	Réunion	21.45			Letourneur 1998
Italy	Palude della Rosa	2.5		10.5	Carrer and Opitz 1999
Mexico	Huizache-Caimanero Lagoon	2.3	16.0		Warburton 1979
	Tampamachoo Lagoon	1.2	5.7	63.3	Rosado-Solorzano and Guzmán del Próo 1998
	Teacapan-Agua Brava Lagoon	2.2			Flores-Verdugo et al. 1990
	Terminos Lagoon	1.4 - 2.5	4.0	61.5	Manickchand-Heileman et al. 1998
New Caledonia	Barrier reefs	> 5.07			Letourneur et al. 2000, Kulbicki et al. 2000
	Belep Island	23.1			Letourneur et al. 2000
	Chesterfield Islands	30.8			Letourneur et al. 2000
	Cooks Reef	39.0			Letourneur et al. 2000
	East Reefs	15.8			Letourneur et al. 2000, Kulbicki et al. 2000
	Francais Reef	44.7			Letourneur et al. 2000
	Fringing reefs	> 4.99			Letourneur et al. 2000, Kulbicki et al. 2000
	Intermediate reefs	> 5.87			Letourneur et al. 2000, Kulbicki et al. 2000
	Lagoon bottoms	> 8.41			Kulbicki et al. 2000
	North Lagoon	2.0			Wantiez 1998
	Ouvéa	49.2			Letourneur et al. 2000
	South Reefs	25.9			Letourneur et al. 2000
	St Vincent Bay	> 1.07 - > 1.89			Wantiez 1996, Wantiez et al. 1996
	West Reefs	25.8			Letourneur et al. 2000, Kulbicki et al. 2000
New Zealand	Goat Island	11.4			Russell 1977
Pacific Ocean	Eniwetok Atoll	10.6			Odum and Odum 1955
Philippines	Laguna de Bay	3.2 - 4.2	37.2 - 50.4	78.0 - 299.4	Delos Reyes and Martens 1994
Russia	Barents Sea	7.9			Sakshaug et al. 1994

**Table A.3:** Continued.

Country	Bay	Total fish (g AFDW m <sup>-2</sup> )	Total production (mg AFDW m <sup>-2</sup> d <sup>-1</sup> )	Total consumption (mg AFDW m <sup>-2</sup> d <sup>-1</sup> )	References
Solomon Islands	Solomon Islands	2.6			Blaber and Milton 1990
South Africa	Cape of Good Hope	10.9			Whitfield 1993
	Kromme Estuary	12.4	11.9	171.3	Heymans and Baird 1995
	Durban	15.1			Berry et al. 1982
Spain/France	Swartvlei Lake	2.7			Whitfield 1993
	North West	15.0			McClanahan and Sala 1997
	Mediterranean				
Taiwan	Chiku Lagoon	47.6			Lin et al. 1999
Thailand	Sichang Islands	18.3			Menasveta et al. 1986
	South China Sea	> 1.0			Wanteiz et al. 1996
	Ardmucknish Bay	>0.88			Gibson et al. 1993
UK	Plymouth	2.9			Harvey 1950
USA	Bathub Rock	15.1			Quast 1968
	Biscayne Bay	0.7			Brock 1977
	Bogue Sound	1.3			Adams 1976
	Chesapeake Bay	1.2 - 12.0	7.1		Lubbers et al. 1990
	Corpus Christi	4.9			Whitfield 1993
	Del Mar	8.3			Quast 1968
	Horn Island	1.6			Ross et al. 1987
	Laguna Madre	2.6			Whitfield 1993
	Monterey Bay	12.4			Russell 1977
	Mustang Island	1.6 - 1.65			Russell 1977
	Papalote Bay	7.6			Quast 1968
	Santa Barbara Channel	25.5			Love et al. 2000
	St Andrew Bay	0.6			Whitfield 1993
	Sth New England	2.0			Russell 1977
USA (Alaska)	Whitewater Bay	2.5			Thayer et al. 1987
	Prince William Sound	1.5			Dean et al. 2000
Virgin Islands	Virgin Islands	35.2			Russell 1977



**Table A.4:** Biomass of benthos and meiobenthos, maximum water depth, and total benthic production and consumption for real bays.

Country	Bay	Total benthos > 1mm (g AFDW m <sup>-2</sup> )	Meiobenthos (g AFDW m <sup>-2</sup> )	Maximum depth (m)	Total production (mg AFDW m <sup>-2</sup> d <sup>-1</sup> )	Total consumption (mg AFDW m <sup>-2</sup> d <sup>-1</sup> )	References
Australia	Bagot Point	11.4			142.0		Edgar and Shaw 1995
	Barker Inlet	58.0			524.0		Edgar and Shaw 1995
	Cararna Inlet	6.3			65.7		Edgar and Shaw 1995
	Cloudy Lagoon	7.9			94.5		Edgar and Shaw 1995
	Crib Point	7.3			92.5		Edgar and Shaw 1995
	French Island	8.0			115.0		Edgar and Shaw 1995
	Frenchmans Bay	6.0			61.0		Edgar and Shaw 1995
	Lake King	40.0			566.5		Edgar and Shaw 1995
	Parker Point	1.0 <sup>L</sup>			18.0		Edgar and Shaw 1995
	Porpoise Bay	10.3			132.0		Edgar and Shaw 1995
	Port Gawler	76.0			516.5		Edgar and Shaw 1995
	Port Phillip Bay	26.4 - 33.5	0.2	24	178.0 - 424.0	580.9 - 1466.0	Poore 1992, Wilson et al. 1993, Wilson et al. 1998, Harris et al. 1996, Fulton and Smith in prep
	Princess Royal Bay	17.3			215.7		Edgar and Shaw 1995
	Rockingham	14.5			204.5		Edgar and Shaw 1995
	Seven Mile Beach				31.35		Edgar 1990
	Thomsons Bay	5.4			64.3		Edgar and Shaw 1995
Bermuda Canada	Western Port Bay	17.3			126.2		Robertson 1984, Edgar et al. 1994
	Woodmans Point	2.4			38.9		Edgar and Shaw 1995
	Castle Harbour		1.0	13			Rudnik et al. 1985
	Flemish Cap	2.5					Steimle 1985
	Georges Bank	27.4					Steimle 1985
	Grand Banks	4.6					Steimle 1985
	Labrador	2.2					Steimle 1985
	Nain Bay	45.8					Mills 1975
	Newfoundland	6.5					Steimle 1985
	North Nova Scotia	17.5					Steimle 1985
	Scotian Shelf	2.3			416.5		Steimle 1985

**Table A.4:** Continued.

Country	Bay	Total benthos > 1mm (g AFDW m <sup>-2</sup> )	Meiobenthos (g AFDW m <sup>-2</sup> )	Maximum depth (m)	Total production (mg AFDW m <sup>-2</sup> d <sup>-1</sup> )	Total consumption (mg AFDW m <sup>-2</sup> d <sup>-1</sup> )	References
Chile	Tongoy Bay	16.3	1.8	90	158.2	685.1	Wolff 1994
Denmark	Kysing Fjord		0.2	1			Rudnik et al. 1985
	Oresund		2.5	54			Rudnik et al. 1985
France	Arcachon Bay	5.4					Bachelet et al. 1996
	Bay of Banyuls-sur-mer	3.3 - 4.3	87.0	1.3			Rudnik et al. 1985, Grémare et al. 1998
	Bay of Brest	19.2					Jean and Thouzeau 1995
	Bay of Lyon		0.4	30			Rudnik et al. 1985
	Etang de Thau Lagoon	43.0					Palomares et al. 1993
	Gironde Estuary		0.4	5			Santos et al. 1996
France/Spain	North West Mediterranean	70.7					McClanahan and Sala 1997
Finland	Tvarminne		1.5	55			Rudnik et al. 1985
Germany	Helgoland Bight		0.4	49			Rudnik et al. 1985
	Kiel Bight		0.2	26			Rudnik et al. 1985
India	Bay of Bengal		<0.1 <sup>L</sup>	230			Rudnik et al. 1985
	Goa		0.2	30			Rudnik et al. 1985
Ireland	Irish Sea		0.5	121			Rudnik et al. 1985
Iran/Iraq	Tigris and Euphrates Estuary		0.2	18			Rudnik et al. 1985
Italy	Adriatic Sea		0.2	17			Rudnik et al. 1985
	Palude della Rosa	96.7	10.2 <sup>U</sup>	0.5		230.2	Carrer and Opitz 1999
Mexico	Celestun Lagoon	2.6	3.3				Chavez et al. 1993
	Gulf of Mexico	115.0					Talley et al. 2000
	Tampamachoo Lagoon	2.0	1.2		54.2	236.8	Rosado-Solorzano and Guzmán del Prío 1998
	Terminos Lagoon	14.6	5.2	3.5	316.4	1446.8	Manickchand-Heileman et al. 1998
Netherlands	Dutch Wadden Sea	16.5					Möller et al. 1985
	Grevelingen Estuary				147.9		Steimle 1985
	North Wadden Sea				137.0		Steimle 1985
	Wadden Sea				71.2		Steimle 1985

**Table A.4:** Continued.

Country	Bay	Total benthos > 1mm (g AFDW m <sup>-2</sup> )	Meiobenthos (g AFDW m <sup>-2</sup> )	Maximum depth (m)	Total production (mg AFDW m <sup>-2</sup> d <sup>-1</sup> )	Total consumption (mg AFDW m <sup>-2</sup> d <sup>-1</sup> )	References
North Sea Pacific Philippines Poland South Africa South Orkney Spain	Westerschelde		0.3	20			Soetaert et al. 1994
	Fladen		0.5	101			Rudnik et al. 1985
	Eniwetok Atoll	92.0					Odum and Odum 1955
	Laguna de Bay	5.6			136.0 - 155.0	544.2 - 628.5	Delos Reyes and Martens 1994
	Gulf of Gdansk	33.3					Drgas et al. 1998
	Kromme Estuary	30.5	0.4	3	183.4	5292.2	Heymans and Baird 1995
	Signy Island		4.5	10			Vanhove et al. 1998
	Bay of Cadiz	18.4			61.2		Arias and Drake 1994
	Ria de Arosa		0.2	19			Rudnik et al. 1985
	Ria de Muros		<0.1	22			Rudnik et al. 1985
Sweden	Baltic Sea	21.0			2.1		Möller et al. 1985
	Bassholm	5.6			67.8		Möller and Rosenberg 1982
	Bothnian Bay		0.3	220			Rudnik et al. 1985
	Bothnian Sea	12.8	0.7	100	1.2		Möller et al. 1985, Rudnik et al. 1985
			1.2	46			Rudnik et al. 1985
			0.2	52			Rudnik et al. 1985
		2.4	0.1	16	14.9		Möller and Rosenberg 1982
					29.6		Rudnik et al. 1985
					19.7		Steimle 1985
		1.6			13.0		Möller and Rosenberg 1982
Taiwan UK	Skagerrak	38.0			416.5		Möller et al. 1985
	Swedish Sound	5.2			36.8		Möller et al. 1985
	Sweden	25.4					Pihl-Baden and Pihl 1984
	West Central Baltic		0.1	211			Rudnik et al. 1985
	Chiku Lagoon	59.0					Lin et al. 1999
	Clyde Sea		0.2	166			Rudnik et al. 1985
	Cornwall				36.4		Steimle 1985
	English Channel		0.2	45			Rudnik et al. 1985
	Hamble Spit				602.7		Hibbert 1976
	Liverpool Bay		0.5	10			Rudnik et al. 1985
					401		

**Table A.4:** Continued.

Country	Bay	Total benthos > 1mm (g AFDW m <sup>-2</sup> )	Meiobenthos (g AFDW m <sup>-2</sup> )	Maximum depth (m)	Total production (mg AFDW m <sup>-2</sup> d <sup>-1</sup> )	Total consumption (mg AFDW m <sup>-2</sup> d <sup>-1</sup> )	References
USA	Loch Nevis		0.7	146			Rudnik et al. 1985
	Lynher Estuary	13.3			36.5		Warwick and Price 1975
	Northumberland Coast		0.3	80			Rudnik et al. 1985
	Plymouth	17.0					Harvey 1950
	Scotland	11.2					Hibbert 1976
	Southampton	166.0 <sup>u</sup>					Hibbert 1976
	Tamar Estuary				36.2		Steimle 1985
	Ythan Estuary				294.2		Steimle 1985
	Biscayne Bay	6.4					Brock 1977
	Block Island Sound	15.8					Steimle 1982
	Buzzards Bay		0.3	18			Rudnik et al. 1985
	Cape Cod Bay		1.0	41			Rudnik et al. 1985
	Chesapeake Bay	5.0 - 50.0			29.3 - 330.1		Fredette et al. 1990, Dauer and Alden 1995
	Chesapeake Bight	10.1					Steimle 1985
	Christiansen Basin	19.1 - 23.6					Steimle 1985
	Delaware Bay				145.2		Steimle 1985
	Long Island Sound		0.6	30	64.7		Rudnik et al. 1985, Vanhove et al. 1998
	Martha's Vineyard Sound		0.2	99			Rudnik et al. 1985
	Massachusetts	24.6					Steimle 1985
	Narragansett Bay		2.9	7			Rudnik et al. 1985
	Nauset Marsh	47.7			73.6		Heck et al. 1995
	New Jersey Shelf	28.0					Steimle 1985
	New York Bight	7.3 - 25.1	0.4	24	130.4		Steimle 1985, Rudnik et al. 1985
	Niantic River		4.5	1			Rudnik et al. 1985
	San Francisco Bay	13.3					Heck et al. 1995
	South Carolina		1.3	1			Rudnik et al. 1985
	St Joseph Bay	67.5			702.1		Valentine and Heck 1993

**Table A.5:** Macrophyte biomass and primary production for real bays.

Country	Bay	Total macrophytes (g AFDW m <sup>-2</sup> )	Total production (mg AFDW m <sup>-2</sup> d <sup>-1</sup> )	References
Australia	Port Phillip Bay	1.4 – 15.1	53.9 - 174.9	Chidgey and Edmunds 1997, Murray and Parslow 1997, Fulton and Smith in prep
Chile	Western Port Bay	167.0		Robertson 1980
	Tongoy Bay	5.5	2.8	Wolff 1994
France	Etang de Thau Lagoon	94.2		Gerbal and Verlaque 1995
France/Spain	North West Mediterranean	199.5		McClanahan and Sala 1997
Italy	Palude della Rosa	168.0	785.8	Carrer and Opitz 1999
Mexico	Celestun Lagoon	35.0		Chavez et al. 1993
	Tampamachoo Lagoon	10.5	168.9	Rosado-Solorzano and Guzmán del Próo 1998
New Zealand	Terminos Lagoon	239.0	3449.0	Manickchand-Heileman et al. 1998
	Otago Harbour	141.2		Grove and Probert 1999
Pacific Ocean	Eniwetok Atoll	618.2 <sup>U</sup>		Odum and Odum 1955
Philippines	Laguna de Bay	1.1 <sup>L</sup>	33.5	Delos Reyes and Martens 1994
South Africa	Kromme Estuary	147.9	5255	Heymans and Baird 1995
Sweden	Gota River Bays	591.3		Pihl et al. 1994
USA	Chesapeake Bay	33.1 - 46.6	831.5	Murray and Wetzel 1987, Madden and Kemp 1996, Buzzelli et al. 1998
	Childs River	193.6		Valiela et al. 1992
	Bass Harbour Marsh	64.6 - 183.5		Kinney and Roman 1998
	Branford River	81.4		Welsh 1980
	Green Hill Pond	164.4		Kinney and Roman 1998
	Mumford Cove	204.2		Kinney and Roman 1998
	Ninigret Pond	141.2		Kinney and Roman 1998
	Quashnet River	74.8		Valiela et al. 1992
	Sage Lot Pond	31.7		Valiela et al. 1992
	Waquoit Bay	71.6		Valiela et al. 1997

**Table A.6:** Total detritus for real bays.

Country	Bay	Total detritus (g AFDW m <sup>-2</sup> )	References
Australia	Bagot Point	3.2 <sup>L</sup>	Edgar and Shaw 1995
	Carama Inlet	10.6	Edgar and Shaw 1995
	Lake King	101.0	Edgar and Shaw 1995
	Porpoise Bay	4519.0	Edgar and Shaw 1995
	Port Gawler	331.0	Edgar and Shaw 1995
	Port Phillip Bay	1731.0 - 2953.4	Nicholson et al. 1996, Fulton and Smith in prep
	Rockingham	1659.0	Edgar and Shaw 1995
	Woodmans Point	1940.0	Edgar and Shaw 1995
French Polynesia	Tiahura	677.5	Ariasgonzalez et al. 1998
Italy	Palude della Rosa	750.4	Carrer and Opitz 1999
Mexico	Terminos Lagoon	12.7	Manickchand-Heileman et al. 1998
South Africa	Kromme Estuary	3000.0	Heymans and Baird 1995
Taiwan	Chiku Lagoon	48.6	Lin et al. 1999
USA	Chesapeake Bay	10417.0 <sup>U</sup>	Roden and Tuttle 1996

**Table A.7:** Biomass and primary production of microphytobenthos for real bays.

Country	Bay	Microphytobenthos (mg chl a m <sup>-2</sup> )	Production (mg C m <sup>-2</sup> d <sup>-1</sup> )	References
Australia	Peel-Harvey Estuary	295.0 <sup>U</sup>		MacIntyre et al. 1996
	Port Phillip Bay	25.0 - 51.7	101.1 - 240.5	Murray and Parslow 1997, Fulton and Smith in prep
Canada	Bay of Fundy	255.0		Hargrave et al. 1983
Denmark	Danish Fjords		318.0	Grøntved 1960
	Smlandshavet		555.0	MacIntyre et al. 1996
France	Golfé de Fos	38.0		MacIntyre et al. 1996
	Mediterranean Coast	44.0		Schreiber and Pennock 1995

Table A.7: Continued.

Country	Bay	Microphytobenthos (mg chl a m <sup>-2</sup> )	Production (mg C m <sup>-2</sup> d <sup>-1</sup> )	References
Madagascar	Madagascar	58.0	181.0	Schreiber and Pennock 1995
Netherlands	Dutch Wadden Sea	220.0 - 225.0	485.0 - 567.5	Cadée and Hegeman 1977, MacIntyre et al. 1996
	Ems-Dollard Estuary	65.0 - 282.5	463.0 - 985.0	Colijn and de Jonge 1984, MacIntyre et al. 1996
	Lake Grevelingen	215.0	295.0	MacIntyre et al. 1996
Russia	Vostok Bay	135.0		MacIntyre et al. 1996
Slovenia	Bay of Prian		240.0	MacIntyre et al. 1996
South Africa	Kromme Estuary	1.6 <sup>L</sup>	232.0	Heymans and Baird 1995
Spain	Ria de Arosa	66.5		MacIntyre et al. 1996
Sweden	Laholm Bay	24.5	147.0	MacIntyre et al. 1996
	Oresund	75.5	565.0	Schreiber and Pennock 1995
UK	Loch Ewe		17.8	Steele and Baird 1968
	Ythan estuary		84.9 - 117.5	Leach 1970
USA	Bolsa Bay	285.0	494.5	Schreiber and Pennock 1995
	Boston Harbour	190.0		MacIntyre et al. 1996
	Buzzards Bay	52.5		MacIntyre et al. 1996
	Chesapeake Bay	35.0		MacIntyre et al. 1996
	Chukohi Sea	73.5 - 180.0	13.7	Matheke and Homer 1974, MacIntyre et al. 1996
	Delaware Estuary	122.5		MacIntyre et al. 1996
	Duplin River Marsh		289.0	MacIntyre et al. 1996
	Graveline Bay	215.0		MacIntyre et al. 1996
	La Jolla		182.5	MacIntyre et al. 1996
	Long Island Sound	113.5		MacIntyre et al. 1996
	Netarts Bay	162.5		MacIntyre et al. 1996
	North Inlet	65.0 - 70.0		MacIntyre et al. 1996
	Potter Pond Lagoon	235.0		MacIntyre et al. 1996
	San Antonio Bay	8.0 - 29.5	43.5	MacIntyre et al. 1996
	Tijuana Estuary		1472.0	MacIntyre et al. 1996
	Weeks Bay	15.6	246.6	Schreiber and Pennock 1995