

Additional file 1. Search terms used to find relevant studies

We searched for relevant studies in Web of Science online database using a complex set of search terms:

(alga* OR macroalga* OR seaweed*) AND (alien*OR invasi*OR introduced OR allochthonous OR nonindigenous OR non-indigenous OR "non native*" OR non-native*OR exotic*) AND (marine OR brackish OR estuar*OR coastal OR shallow OR sea*OR aquatic OR maritime OR lagoon* OR pelagic OR benth* OR demersal OR shore* OR intertidal OR subtidal OR ocean* OR bay OR cove) AND (impact* OR effect* OR influence OR consequence* OR food-web* OR "food web*" OR ecosystem* OR biomass OR biodiversity OR "biological diversity" OR communit* OR richness OR diversity OR abundance OR evenness OR cover OR density OR "reproductive capacity" OR mortality OR growth OR assemblage* OR producti* OR decomposition OR "nutrient cycl*" OR oxygen OR carbon OR flux OR respiration OR "ecosystem metabolism" OR "sediment stabilisation" OR epiphyte* OR "sediment mixing" OR resilience OR stability OR resistance OR invasibility)

Additional file 3. List of the 26 papers excluded after reading of the full text and reasons for exclusion

Reference	Reason for exclusion
Antolic et al. 2008 - Nova Hedwigia 86: 155-167	no replication
Antoniadou & Chiniroglou 2007 - Journal of the Marine Biological Association of the United Kingdom 87: 629-641	The non-native species was present at all sites (lack of proper controls)
Argyrou et al. 1999 - Oceanologica Acta 22: 517-528	sampling has been done only 1 time before and 1 time after at the same sites (lack of controls); in addition, the 10 grab samples have been pooled (not averaged) so that there is no mean; sites were in proximity of sewage outfalls and fish farming
Arigoni et al. 2002 - Journal of Fish Biology 60: 1486-1497	variations in number of green or brown individuals cannot be interpreted as positive or negative effects by the invasive species
Bellan-Santini et al. 1996 - Journal of the Marine Biological Association of the United Kingdom 76: 235-237	no replication
Box et al. 2010 - Botanica Marina 53: 367-375	no replication
Burfeind et al. 2009 - Environmental Biology of Fishes 84: 317-322	preferences for different habitats cannot be interpreted as positive or negative effects by the invasive species
Cabanellas-Reboredo et al. 2010 - Scientia Marina 74: 101-110	the invaded and reference sites are on different islands (Mallorca vs Ibiza). The design is totally confounded
Casu et al. 2009 - Aquatic Ecology 43 : 1023-1029	variations in isotopes cannot be interpreted as positive or negative effects by the invasive species
Ceccherelli & Cinelli 1997 - Journal of Experimental Biology and Ecology 217: 165-177	data were not used as they are the same reported in the (included) study by Ceccherelli and Sechi 2002
Engelen 2011 - Hydrobiologia 669: 157-165	response variables cannot be interpreted as positive or negative effects of invasive species on grazers
Farrel & Fletcher 2004 - Journal of Experimental Marine Biology and Ecology 334: 236-243	the effects of removing <i>Undaria</i> or the native kelp species could not be disentangled
Katsanevakis and Thessalou-Legaki 2009 - Aquatic Biology 8: 45-54	at some sites, only 1 transect was sampled, while at others (where <i>P. nobilis</i> was more abundant)

	more than 1 transect was sampled; depth differed among transects; length of the transects differ
Klein & Verlaque 2009 - Hydrobiologia 636: 369-378	the non-invaded sites is heavily colonized by <i>Womersleyella</i> : basically this is a comparison between <i>C. racemosa</i> invaded and <i>Womersleyella</i> invaded sites
Longepierre et al. 2005 - Biodiversity and Conservation 14: 365-376	unknown number of temporal samplings and number of replicates for sites with or without the invasive species
Lorenti et al. 2011 Marine Ecology-an Evolutionary Perspective 32: 320-334	only one sampling time before and 2 times (very close) after 24 years
Montefalcone et al. 2007 Estuarine Coastal and Shelf Science 75: 63-71	at each meadow (distant 10s of Km) there was only 1 transect at each of 3 depths; values of CI and SI are averages over the three depths for each meadow
Oakes et al. 2011 - Limnology and Oceanography 56: 1824-1831	variations in isotopes cannot be interpreted as positive or negative effects by the invasive species
Pedersen et al. 2005 Aquatic Botany 83: 31-47	no useful data (biomass/cover/growth of the invasive vs those of another alga)
Peirano et al. 2005 Marine Pollution Bulletin 50: 817-822	at each meadow (distant 10s of Km) there was only 1 transect (no replication)
Piazzini & Cinelli 2001 Botanica Marina 44: 509-520	no reference site
Relini et al. 1998 - Biologia Marina Mediterranea 5: 185-195	no replication
Sanchez & Fernandez 2006 - Marine Ecology Progress Series 313: 85-94	no data on the effects of <i>Sargassum</i> on other species
Verlaque & Fritayre 1994 - Oceanologica Acta 17: 659-672	unknown number of replicates
Viejo 1999 - Aquatic Botany 64: 131-149	<i>Sargassum</i> is in pools, while <i>Fucus</i> is not. The comparison between <i>Sargassum</i> and <i>Cystoseira</i> (1 invader versus 1 native) is not useful
Zuljevic 2011 - Biological Invasions 13: 2303-2308	no controls

Additional file 4. List of the papers reviewed.

1. Ambrose RF, Nelson BV (1982) Inhibition of giant kelp recruitment by an introduced brown alga. *Botanica Marina* 25: 265-267
2. Balata D, Piazzì L, Cinelli F (2004) A comparison among assemblages in areas invaded by *Caulerpa taxifolia* and *C. racemosa* on a subtidal Mediterranean rocky bottom. *Marine Ecology-Pubblicazioni Della Stazione Zoologica Di Napoli I* 25: 1-13
3. Baldacconi R, Corriero G (2009) Effects of the spread of the alga *Caulerpa racemosa* var. *cylindracea* on the sponge assemblage from coralligenous concretions of the Apulian coast (Ionian Sea, Italy). *Marine Ecology-an Evolutionary Perspective* 30: 337-345
4. Ballesteros E, Cebrian E, Alcoverro T (2007) Mortality of shoots of *Posidonia oceanica* following meadow invasion by the red alga *Lophocladia lallemandii*. *Botanica Marina* 50: 8-13
5. Bartoli P, Boudouresque CF (1997) Transmission failure of parasites (Digenea) in sites colonized by the recently introduced invasive alga *Caulerpa taxifolia*. *Marine Ecology-Progress Series* 154: 253-260
6. Boudouresque CF, Lemée R, Mari X, Meinesz A (1996) The invasive alga *Caulerpa taxifolia* is not a suitable diet for the sea urchin *Paracentrotus lividus*. *Aquatic Botany* 53: 245-250
7. Box A, Sureda A, Deudero S (2008) Antioxidant response of the bivalve *Pinna nobilis* colonised by invasive red macroalgae *Lophocladia lallemandii*. *Comparative Biochemistry and Physiology C-Toxicology & Pharmacology* 149: 456-460
8. Box A, Sureda A, Deudero S, Blanco A, Terrados J, Grau AM, Riera F (2009) Diet and physiological responses of *SpondylIOSoma cantharus* (Linnaeus, 1758) to the *Caulerpa racemosa* var. *cylindracea* invasion. *Journal of Experimental Marine Biology and Ecology* 380: 11-19
9. Britton-Simmons KH (2004) Direct and indirect effects of the introduced alga *Sargassum muticum* on benthic, subtidal communities of Washington State, USA. *Marine Ecology-Progress Series* 277: 61-78
10. Britton-Simmons KH, Pister B, Sanchez I, Okamoto D (2011) Response of a native, herbivorous snail to the introduced seaweed *Sargassum muticum*. *Hydrobiologia* 661: 187-196
11. Bulleri F, Airoidi L, Branca GM, Abbiati M (2006) Positive effects of the introduced green alga, *Codium fragile* ssp. *tomentosoides*, on recruitment and survival of mussels. *Marine Biology* 148: 1213-1220

12. Bulleri F, Balata D, Bertocci I, Tamburello L, Benedetti-Cecchi L (2010) The seaweed *Caulerpa racemosa* on Mediterranean rocky reefs: from passenger to driver of ecological change. *Ecology* 91: 2205-2212
13. Buschbaum C, Chapman AS, Saier B (2006) How an introduced seaweed can affect epibiota diversity in different coastal systems. *Marine Biology* 148: 743-754
14. Byers JE, Wright JT, Gribben PE (2010) Variable direct and indirect effects of a habitat-modifying invasive species on mortality of native fauna. *Ecology* 91: 1787-1798
15. Cacabelos E, Olabarria C, Incera M, Troncoso JS (2010) Effects of habitat structure and tidal height on epifaunal assemblages associated with macroalgae. *Estuarine Coastal and Shelf Science* 89: 43-52
16. Carroll JM, Peterson BJ, Bonal D, Weinstock A, Smith CF, Tettelbach ST (2010) Comparative survival of bay scallops in eelgrass and the introduced alga, *Codium fragile*, in a New York estuary. *Marine Biology* 157: 249-259
17. Casas G, Scrosati R, Piriz ML (2004) The invasive kelp *Undaria pinnatifida* (Phaeophyceae, Laminariales) reduces native seaweed diversity in Nuevo Gulf (Patagonia, Argentina). *Biological Invasions* 6: 411-416
18. Ceccherelli G, Campo D (2002) Different effects of *Caulerpa racemosa* on two co-occurring seagrasses in the Mediterranean. *Botanica Marina* 45: 71-76
19. Ceccherelli G, Sechi N (2002) Nutrient availability in the sediment and the reciprocal effects between the native seagrass *Cymodocea nodosa* and the introduced rhizophytic alga *Caulerpa taxifolia*. *Hydrobiologia* 474: 57-66
20. Chavanich S, Harris LG (2004) Impact of the non-native macroalga *Codium fragile* (Sur.) Hariot ssp *tomentosoides* (van Goor) Silva on the native snail *Lacuna vincta* (Montagu, 1803) in the Gulf of Maine. *Veliger* 47: 85-90
21. Chrisholm JRM, Moulin P (2003) Stimulation of nitrogen fixation in refractory organic sediments by *Caulerpa taxifolia* (Chlorophyta). *Limnology and Oceanography* 48: 787-794
22. Curiel D, Guidetti P, Bellemo G, Scattolin M, Marzocchi M (2002) The introduced alga *Undaria pinnatifida* (Laminariales, Alariaceae) in the lagoon of Venice. *Hydrobiologia* 477: 209-219
23. Deudero S, Blanco A, Box A, Mateu-Vicens G, Cabanellas-Reboredo M, Sureda A (2010) Interaction between the invasive macroalga *Lophocladia lallemandii* and the bryozoan *Reteporella grimaldii* at seagrass meadows: density and physiological responses. *Biological Invasions* 12: 41-52

24. Deudero S, Box A, Alos J, Arroyo NL, Marba N (2011) Functional changes due to invasive species: Food web shifts at shallow *Posidonia oceanica* seagrass beds colonized by the alien macroalga *Caulerpa racemosa*. *Estuarine Coastal and Shelf Science* 93: 106-116
25. Devillele X, Verlaque M (1995) Changes and degradation in a *Posidonia oceanica* bed invaded by the introduced tropical alga *Caulerpa taxifolia* in the North-Western Mediterranean. *Botanica Marina* 38: 79-87
26. Drouin A, McKindsey CW, Johnson LE (2011) Higher abundance and diversity in faunal assemblages with the invasion of *Codium fragile* ssp *fragile* in eelgrass meadows. *Marine Ecology-Progress Series* 424: 105-117
27. Drouin A, McKindsey CW, Johnson LE (2012) Detecting the impacts of notorious invaders: experiments versus observations in the invasion of eelgrass meadows by the green seaweed *Codium fragile*. *Oecologia* 168: 491-502
28. Dumay O, Fernandez C, Pergent G (2002) Primary production and vegetative cycle in *Posidonia oceanica* when in competition with the green algae *Caulerpa taxifolia* and *Caulerpa racemosa*. *Journal of the Marine Biological Association of the United Kingdom* 82: 379-387
29. Dumay O, Costa J, Desjobert JM, Pergent G (2004) Variations in the concentration of phenolic compounds in the seagrass *Posidonia oceanica* under conditions of competition. *Phytochemistry* 65: 3211-3220
30. Eyre BD, Maher D, Oakes JM, Erler DV, Glasby TM (2011) Differences in benthic metabolism, nutrient fluxes, and denitrification in *Caulerpa taxifolia* communities compared to uninvaded bare sediment and seagrass (*Zostera capricorni*) habitats. *Limnology and Oceanography* 56: 1737-1750
31. Ferrer E, Garreta AG, Ribera MA (1997) Effect of *Caulerpa taxifolia* on the productivity of two Mediterranean macrophytes. *Marine Ecology-Progress Series* 149: 279-287
32. Francour P, Harmelin-Vivien M, Harmelin JG, Duclerc J (1995) Impact of *Caulerpa taxifolia* colonization on the ichthyofauna of North-Western Mediterranean Sea – Preliminary results. *Hydrobiologia* 300: 345-353
33. Francour P, Pellissier V, Mangialajo L, Buisson E, Stadelmann B, Veillard N, Meinesz A, Thibaut T, De Vaugelas J (2009) Changes in invertebrate assemblages of *Posidonia oceanica* beds following *Caulerpa taxifolia* invasion. *Vie et Milieu – Life and Environment* 59: 31-38
34. Gallucci F, Hutchings P, Gribben P, Fonseca G (2012) Habitat alteration and community-level effects of an invasive ecosystem engineer: a case study along the coast of NSW, Australia. *Marine Ecology-Progress Series* 449: 95-108

35. Gennaro P, Piazzì L (2011) Synergism between two anthropic impacts: *Caulerpa racemosa* var. *cylindracea* invasion and seawater nutrient enrichment. *Marine Ecology-Progress Series* 427: 59-70
36. Gestoso I, Olabarria C, Troncoso JS (2010) Variability of epifaunal assemblages associated with native and invasive macroalgae. *Marine and Freshwater Research* 61: 724-731
37. Gollan JR, Wright JT (2006) Limited grazing pressure by native herbivores on the invasive seaweed *Caulerpa taxifolia* in a temperate Australian estuary. *Marine and Freshwater Research* 57: 685-694
38. Gribben PE, Wright JT (2006) Invasive seaweed enhances recruitment of a native bivalve: roles of refuge from predation and the habitat choice of recruits. *Marine Ecology-Progress Series* 318: 177-185
39. Gribben PE, Wright JT (2006) Sublethal effects on reproduction in native fauna: are females more vulnerable to biological invasion? *Oecologia* 149: 352-361
40. Gribben PE, Wright JT, O'Connor WA, Doblin MA, Eyre B, Steinberg PD (2009) Reduced performance of native infauna following recruitment to a habitat-forming invasive marine alga. *Oecologia* 158: 733-745
41. Gribben PE, Wright JT, O'Connor WA, Steinberg P (2009) Larval settlement preference of a native bivalve: the influence of an invasive alga versus native substrata. *Aquatic Biology* 7: 217-227
42. Harmelin-Vivien M, Harmelin JG, Francour P (1996) A 3-year study of the littoral fish fauna of sites colonized by *Caulerpa taxifolia* in the N.W. Mediterranean (Menton, France) In: Ribera MA, Ballesteros E, Boudouresque CF, Gomez A, Gravez V (eds) *Second International workshop on Caulerpa taxifolia*. Publicacions Universitat Barcelona, p 391-397
43. Harries DB, Harrow S, Wilson JR, Mair JM, Donnan DW (2007) The establishment of the invasive alga *Sargassum muticum* on the west coast of Scotland: a preliminary assessment of community effects. *Journal of the Marine Biological Association of the United Kingdom* 87: 1057-1067
44. Hendriks IE, Bouma TJ, MORris EP, Duarte CM (2010) Effects of seagrasses and algae of the *Caulerpa* family on hydrodynamics and particle-trapping rates. *Marine Biology* 157:473-481
45. Hoffle H, Thomsen MS, Holmer M (2011) High mORTality of *Zostera marina* under high temperature regimes but minor effects of the invasive macroalgae *Gracilaria vermiculophylla*. *Estuarine Coastal and Shelf Science* 92: 35-46

46. Holmer M, Marba N, Lamote M, Duarte CM (2009) Deterioration of Sediment Quality in Seagrass Meadows (*Posidonia oceanica*) Invaded by Macroalgae (*Caulerpa* sp.). *Estuaries and Coasts* 32: 456-466
47. Husa V, Sjøtun K, Bratton N, Lein TE (2008) Changes of macroalgal biodiversity in sublittoral sites in southwest Norway: impact of an introduced species or higher temperature? *Marine Biology Research* 4: 414-428
48. Ingólfsson A (2008) The invasion of the intertidal canopy-forming alga *Fucus serratus* L. to southwestern Iceland: Possible community effects. *Estuarine Coastal and Shelf Science* 77: 484-490
49. Irigoyen AJ, Eyrales C, Parma AM (2011) Alien algae *Undaria pinnatifida* causes habitat loss for rocky reef fishes in north Patagonia. *Biological Invasions* 13: 17-24
50. Irigoyen AJ, Trobbiani G, Sgarlatta MP, Raffo MP (2011) Effects of the alien algae *Undaria pinnatifida* (Phaeophyceae, Laminariales) on the diversity and abundance of benthic macrofauna in Golfo Nuevo (Patagonia, Argentina): potential implications for local food webs. *Biological Invasions* 13: 1521-1532
51. Janiak DS, Whitlatch RB (2012) Epifaunal and algal assemblages associated with the native *Chondrus crispus* (Stackhouse) and the non-native *Grateloupia turuturu* (Yamada) in eastern Long Island Sound. *Journal of Experimental Marine Biology and Ecology* 413: 38-44
52. Jones E, Thornber CS (2010) Effects of habitat-modifying invasive macroalgae on epiphytic algal communities. *Marine Ecology-Progress Series* 400: 87-100
53. Kelly JR, Scheibling RE, Balch T (2011) Invasion-mediated shifts in the macrobenthic assemblage of a rocky subtidal ecosystem. *Marine Ecology-Progress Series* 437: 69-78
54. Klein JC, Verlaque M (2011) Experimental removal of the invasive *Caulerpa racemosa* triggers partial assemblage recovery. *Journal of the Marine Biological Association of the United Kingdom* 91: 117-125
55. Lang AC, Buschbaum C (2010) Facilitative effects of introduced Pacific oysters on native macroalgae are limited by a secondary invader, the seaweed *Sargassum muticum*. *Journal of Sea Research* 63: 119-128
56. Lawson SE, McGlathery KJ, Wiberg PL (2012) Enhancement of sediment suspension and nutrient flux by benthic macrophytes at low biomass. *Marine Ecology-Progress Series* 448: 259-270
57. Levi F, Francour P (2004) Behavioural response of *Mullus surmuletus* to habitat modification by the invasive macroalga *Caulerpa taxifolia*. *Journal of Fish Biology* 64: 55-64

58. Levin PS, Coyer JA, Petrik R, Good TP (2002) Community-wide effects of nonindigenous species on temperate rocky reefs. *Ecology* 83: 3182-3193
59. Lutz ML, Davis AR, Minchinton TE (2010) Non-indigenous macroalga hosts different epiphytic assemblages to conspecific natives in southeast Australia. *Marine Biology* 157: 1095-1103
60. Lyons DA, Scheibling RE (2007) Differences in somatic and gonadic growth of sea urchins (*Strongylocentrotus droebachiensis*) fed kelp (*Laminaria longicruris*) or the invasive alga *Codium fragile* ssp *tomentosoides* are related to energy acquisition. *Marine Biology* 152: 285-295
61. Lyons DA, Scheibling RE (2007) Effect of dietary history and algal traits on feeding rate and food preference in the green sea urchin *Strongylocentrotus droebachiensis*. *Journal of Experimental Marine Biology and Ecology* 349: 194-204
62. Martinez-Luscher J, Holmer M (2010) Potential effects of the invasive species *Gracilaria vermiculophylla* on *Zostera marina* metabolism and survival. *Marine Environmental Research* 69: 345-349
63. McKinnon JG, Gribben PE, Davis AR, Jolley DF, Wright JT (2009) Differences in soft-sediment macrobenthic assemblages invaded by *Caulerpa taxifolia* compared to uninvaded habitats. *Marine Ecology-Progress Series* 380: 59-71
64. Molenaar H, Meinesz A, Thibaut T (2009) Alterations of the structure of *Posidonia oceanica* beds due to the introduced alga *Caulerpa taxifolia*. *Scientia Marina* 73: 329-335
65. Nohren E, Odelgard E (2010) Response of epibenthic faunal assemblages to varying vegetation structures and habitat patch size. *Aquatic Biology* 9: 139-148
66. Olabarria C, Incera M, Garrido J, Rossi F (2010) The effect of wrack composition and diversity on macrofaunal assemblages in intertidal marine sediments. *Journal of Experimental Marine Biology and Ecology* 396: 18-26
67. Olabarria C, Rodil IF, Incera M, Troncoso JS (2009) Limited impact of *Sargassum muticum* on native algal assemblages from rocky intertidal shores. *Marine Environmental Research* 67: 153-158
68. Pacciardi L, De Biasi AM, Piazzini L (2011) Effects of *Caulerpa racemosa* invasion on soft-bottom assemblages in the Western Mediterranean Sea. *Biological Invasions* 13: 2677-2690
69. Pederson HG, Johnson CR (2008) Growth and age structure of sea urchins (*Heliocidaris erythrogramma*) in complex barrens and native macroalgal beds in eastern Tasmania. *ICES Journal of Marine Science* 65: 1-11

70. Piazzì L, Balata D (2008) The spread of *Caulerpa racemosa* var. *cylindracea* in the Mediterranean Sea: An example of how biological invasions can influence beta diversity. *Marine Environmental Research* 65: 50-61
71. Piazzì L, Balata D (2009) Invasion of alien macroalgae in different Mediterranean habitats. *Biological Invasions* 11: 193-204
72. Piazzì L, Balata D, Cecchi E, Cinelli F (2003) Co-occurrence of *Caulerpa taxifolia* and *C. racemosa* in the Mediterranean Sea: interspecific interactions and influence on native macroalgal assemblages. *Cryptogamie Algologie* 24: 233-243
73. Piazzì L, Balata D, Ceccherelli G, Cinelli F (2005) Interactive effect of sedimentation and *Caulerpa racemosa* var. *cylindracea* invasion on macroalgal assemblages in the Mediterranean Sea. *Estuarine Coastal and Shelf Science* 64: 467-474
74. Piazzì L, Balata D, Cinelli F (2007) Invasions of alien macroalgae in Mediterranean coralligenous assemblages. *Cryptogamie Algologie* 28: 289-301
75. Piazzì L, Balata D, Foresi L, Cristaudo C, Cinelli F (2007) Sediment as a constituent of Mediterranean benthic communities dominated by *Caulerpa racemosa* var. *cylindracea*. *Scientia Marina* 71: 129-135
76. Piazzì L, Ceccherelli G (2006) Persistence of biological invasion effects: Recovery of macroalgal assemblages after removal of *Caulerpa racemosa* var. *cylindracea*. *Estuarine Coastal and Shelf Science* 68: 455-461
77. Piazzì L, Ceccherelli G, Cinelli F (2001) Threat to macroalgal diversity: effects of the introduced green alga *Caulerpa racemosa* in the Mediterranean. *Marine Ecology-Progress Series* 210: 149-159
78. Piazzì L, Cinelli F (2003) Evaluation of benthic macroalgal invasion in a harbour area of the western Mediterranean Sea. *European Journal of Phycology* 38: 223-231
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81. Raffo MP, Eyra MC, Iribarne OO (2009) The invasion of *Undaria pinnatifida* to a *Macrocystis pyrifera* kelp in Patagonia (Argentina, south-west Atlantic). *Journal of the Marine Biological Association of the United Kingdom* 89: 1571-1580

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83. Rodil IF, Olabarria C, Lastra M, Lopez J (2008) Differential effects of native and invasive algal wrack on macrofaunal assemblages inhabiting exposed sandy beaches. Journal of Experimental Marine Biology and Ecology 358: 1-13
84. Rohr NE, Thornber CS, Jones E (2011) Epiphyte and herbivore interactions impact recruitment in a marine subtidal system. Aquatic Ecology 45: 213-219
85. Rossi F, Incera M, Callier M, Olabarria C (2011) Effects of detrital non-native and native macroalgae on the nitrogen and carbon cycling in intertidal sediments. Marine Biology 158: 2705-2715
86. Sanchez I, Fernandez C (2005) Impact of the invasive seaweed *Sargassum muticum* (Phaeophyta) on an intertidal macroalgal assemblage. Journal of Phycology 41: 923-930
87. Sanchez I, Fernandez C, Arrontes J (2005) Long-term changes in the structure of intertidal assemblages after invasion by *Sargassum muticum* (Phaeophyta). Journal of Phycology 41: 942-949
88. Scheibling RE, Anthony SX (2001) Feeding, growth and reproduction of sea urchins (*Strongylocentrotus droebachiensis*) on single and mixed diets of kelp (*Laminaria* spp.) and the invasive alga *Codium fragile* ssp *tomentosoides*. Marine Biology 139: 139-146
89. Scheibling RE, Gagnon P (2006) Competitive interactions between the invasive green alga *Codium fragile* ssp *tomentosoides* and native canopy-forming seaweeds in Nova Scotia (Canada). Marine Ecology-Progress Series 325: 1-14
90. Schmidt AL, Scheibling RE (2006) A comparison of epifauna and epiphytes on native kelps (*Laminaria* species) and an invasive alga (*Codium fragile* ssp *tomentosoides*) in Nova Scotia, Canada. Botanica Marina 49: 315-330
91. Schmidt AL, Scheibling RE (2007) Effects of native and invasive macroalgal canopies on composition and abundance of mobile benthic macrofauna and turf-forming algae. Journal of Experimental Marine Biology and Ecology 341: 110-130
92. Siddon CE, Witman JD (2004) BehaviORal indirect interactions: Multiple predator effects and prey switching in the rocky subtidal. Ecology 85: 2938-2945
93. Staehr PA, Pedersen MF, Thomsen MS, Wernberg T, Krause-Jensen D (2000) Invasion of *Sargassum muticum* in Limfjorden (Denmark) and its possible impact on the indigenous macroalgal community. Marine Ecology-Progress Series 207: 79-88

94. Strong JA, Dring MJ (2011) Macroalgal competition and invasive success: testing competition in mixed canopies of *Sargassum muticum* and *Saccharina latissima*. *Botanica Marina* 54: 223-229
95. Strong JA, Dring MJ, Maggs CA (2006) Colonisation and modification of soft substratum habitats by the invasive macroalga *Sargassum muticum*. *Marine Ecology-Progress Series* 321: 87-97
96. Strong JA, Maggs CA, Johnson MP (2009) The extent of grazing release from epiphytism for *Sargassum muticum* (Phaeophyceae) within the invaded range. *Journal of the Marine Biological Association of the United Kingdom* 89: 303-314
97. Sureda A, Box A, Deudero S, Pons A (2009) Reciprocal effects of caulerpenyne and intense herbivorism on the antioxidant response of *Bittium reticulatum* and *Caulerpa taxifolia*. *Ecotoxicology and Environmental Safety* 72: 795-801
98. Sureda A, Box A, Terrados J, Deudero S, Pons A (2008) Antioxidant response of the seagrass *Posidonia oceanica* when epiphytized by the invasive macroalgae *Lophodadia lallemandii*. *Marine Environmental Research* 66: 359-363
99. Tanner JE (2011) Utilisation of the Invasive Alga *Caulerpa taxifolia* as Habitat by Faunal Assemblages in the Port River-Barker Inlet Estuary, South Australia. *Estuaries and Coasts* 34: 831-838
100. Taylor SL, Bishop MJ, Kelaher BP, Glasby TM (2010) Impacts of detritus from the invasive alga *Caulerpa taxifolia* on a soft sediment community. *Marine Ecology-Progress Series* 420: 73-81
101. Thomsen MS (2010) Experimental evidence for positive effects of invasive seaweed on native invertebrates via habitat-formation in a seagrass bed. *Aquatic Invasions* 5: 341-346
102. Tomas F, Box A, Terrados J (2011) Effects of invasive seaweeds on feeding preference and performance of a keystone Mediterranean herbivore. *Biological Invasions* 13: 1559-1570
103. Trowbridge CD (2001) Coexistence of introduced and native congeneric algae: *Codium fragile* and *C. tomentosum* on Irish rocky intertidal shores. *Journal of the Marine Biological Association of the United Kingdom* 81:931-937
104. Trowbridge CD, Todd CD (2001) Host-plant change in marine specialist herbivores: Ascoglossan sea slugs on introduced macroalgae. *Ecological Monographs* 71: 219-243
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