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- Moreno CA, Asencio G, Duarte WE, Marín V (1998) Settlement of the muricid *Concholepas concholepas* and its relationship with El Niño and coastal upwellings in southern Chile. 167:171–175
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- Müller WEG, Batel R, Lacorn M, Steinhart H, Simat T, Lauenroth S, Hassanein H, Schröder HC (1998) Accumulation of cadmium and zinc in the marine sponge *Suberites domuncula* and its potential consequences on single-strand breaks and on expression of heat-shock protein: a natural field study. 167:127–135
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- Par N, Peyrot-Clausade M, Le Campion-Alsumard T, Hutchings P, Chazottes V, Golubic S, Le Campion J, Fontaine MF (1998) Bioerosion of experimental substrates on high
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- Naganuma T, Takasugi H, Kimura H (1998) Abundance of thraustochytrids in coastal plankton. 162:105–110
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- Pearce CM, Gallagher SM, Manuel JL, Manning DA, O'Dor RK, Bourget E (1998) Effect of thermoclines and turbulence on depth of larval settlement and spat recruitment of the giant scallop *Placopecten magellanicus* in 9.5 m deep laboratory mesocosms. 165:195–215
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- Uriz MJ, Maldonado M, Turon X, Martí R (1998) How do reproductive output, larval behaviour, and recruitment contribute to adult spatial patterns in Mediterranean encrusting sponges? 167:137–148
- Uthicke S, Klumpp DW (1998) Microphytobenthos community production at a near-shore coral reef: seasonal variation and response to ammonium recycled by holothurians. 169:1–11

Uye S, Sano K (1998) Seasonal variations in biomass, growth rate and production rate of the small cyclopoid copepod *Oithona davisae* in a temperate eutrophic inlet. 163:37–44

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- Vähätalo A, Søndergaard M, Schlüter L, Markager S (1998) Impact of solar radiation on the decomposition of detrital leaves of eelgrass *Zostera marina*. 170:107–117
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- Vance DJ, Haywood MDE, Heales DS, Kenyon RA, Lonergan NR (1998) Seasonal and annual variation in abundance of postlarval and juvenile banana prawns *Penaeus merguensis* and environmental variation in two estuaries in tropical northeastern Australia: a six year study. 163:21–36
- Vance DJ, see Haywood MDE et al. (1998) 162:201–214
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- van Leeuwe MA, Timmermans KR, Witte HJ, Kraay GW, Veldhuis MJW, de Baar HJW (1998) Effects of iron stress on chromatic adaptation by natural phytoplankton communities in the Southern Ocean. 166:43–52
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- van Woessik R (1998) Lesion healing on massive *Pontes* spp. corals. 164:213–220
- Vaqué D, see Gasol JM et al. (1998) 164:107–124
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- Vedel A (1998) Phytoplankton depletion in the benthic boundary layer caused by suspension-feeding *Nereis diversicolor* (Polychaeta): grazing impact and effect of temperature. 163:125–132
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- Venrick EL (1998) Spring in the California Current: the distribution of phytoplankton species, April 1993 and April 1995. 167:73–88
- Verde EA, McCloskey LR (1998) Production, respiration, and photophysiology of the mangrove jellyfish *Cassiopea xamachana* symbiotic with zooxanthellae: effect of jellyfish size and season. 168:147–162
- Vergara JJ, Sebastián M, Pérez-Lloréns JL, Hernández I (1998) Photoacclimation of *Ulva rigida* and *U. rotundata* (Chlorophyta) arranged in canopies. 165:283–292
- Verhagen R, see De Wolf H et al. (1998) 163:155–163
- Vervoort HC, Pawlik JR, Fenical W (1998) Chemical defense of the Caribbean ascidian *Didemnum conchyliatum*. 164:221–228
- Vigliola L, Harmelin-Vivien ML, Biagi F, Galzin R, Garcia-Rubies A, Harmelin JG, Jouvenel JY, Le Direach-Boursier L, Macpherson E, Tunesi L (1998) Spatial and temporal patterns of settlement among sparid fishes of the genus *Diplodus* in the northwestern Mediterranean. 168:45–56
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Visser AW, MacKenzie BR (1998) Turbulence-induced contact rates of plankton: the question of scale. 166:307–310

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- Wagner M, Durbin E, Buckley L (1998) RNA:DNA ratios as indicators of nutritional condition in the copepod *Calanus finmarchicus*. 162:173–181
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- Wang CH, Tzeng WN (1998) Interpretation of geographic variation in size of American eel *Anguilla rostrata* elvers on the Atlantic coast of North America using their life history and otolith ageing. 168:35–43
- Wang WX, Fisher NS (1997) Modeling the influence of body size on trace element accumulation in the mussel *Mytilus edulis*. 161:103–115
- Warner RR, see Marconato A et al. (1997) 161:61–70
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- Waser NA, Yin K, Yu Z, Tada K, Harrison PJ, Turpin DH, Calvert SE (1998) Nitrogen isotope fractionation during nitrate, ammonium and urea uptake by marine diatoms and coccolithophores under various conditions of N availability. 169:29–41
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- Watters G (1998) Prevalences of parasitized and hyperparasitized crabs near South Georgia. 170:215–229
- Weimerskirch H, Cherel Y (1998) Feeding ecology of short-tailed shearwaters: breeding in Tasmania and foraging in the Antarctic? 167:261–274
- Weingartner T, see Hunt GL Jr et al. (1998) 167:241–259
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- Whitney FA, Wong CS, Boyd PW (1998) Interannual variability in nitrate supply to surface waters of the Northeast Pacific Ocean. 170:15–23
- Wiegman S, see Gast GJ et al. (1998) 167:37–45
- Wiens M, Koziol C, Hassanein HMA, Batel R, Schröder HC, Müller WEG (1998) Induction of gene expression of the chaperones 14–3-3 and HSP70 by PCB 118 (2,3',4,4',5-pentachlorobiphenyl) in the marine sponge *Geodia cydonium*: novel biomarkers for polychlorinated biphenyls. 165:247–257
- Wieringa E, see Gast GJ et al. (1998) 167:37–45
- Williamson JE, see Rogers CN et al. (1998) 166:301–306
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- Wilson RP, Kiessel MAM (1998) A method for retrieval of anchored stomach probes from seabirds. 163:295–297
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- Wolfstein K, Hartig P (1998) The Photosynthetic Light Dispensation System: application to microphytobenthic primary production measurements. 166:63–71
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- Wong CS, see Whitney FA et al. (1998) 170:15–23
- Wood AM, Phinney DA, Yentsch CS (1998) Water column transparency and the distribution of spectrally dis-

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Wunsch M, Richter C (1998) The CaveCam—an endoscopic underwater videosystem for the exploration of cryptic habitats. 169:277–282

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Yin K, Goldblatt RH, Harrison PJ, St. John MA, Clifford PJ, Beamish RJ (1997) Importance of wind and river discharge in influencing nutrient dynamics and phytoplankton production in summer in the central Strait of Georgia. 161: 173–183

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Yoro SC, Sempéré R, Turley C, Unanue MA, Durrieu de Madron X, Bianchi M (1997) Cross-slope variations of organic carbon and bacteria in the Gulf of Lions in relation to water dynamics (northwestern Mediterranean). 161: 255–264

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Yoshinaga I, Kim MC, Katanozaka N, Imai I, Uchida A, Ishida Y (1998) Population structure of algicidal marine bacteria targeting the red tide forming alga *Heterosigma akashiwo* (Raphidophyceae), determined by restriction fragment length polymorphism analysis of the bacterial 16S ribosomal RNA genes. 170:33–44

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Yukihira H, Klumpp DW, Lucas JS (1998) Effects of body size on suspension feeding and energy budgets of the pearl oysters *Pinctada margaritifera* and *P. maxima*. 170: 119–130

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Zohary T, Brenner S, Krom MD, Angel DL, Kress N, Li WKW, Neori A, Yacobi YZ (1998) Buildup of microbial biomass during deep winter mixing in a Mediterranean warm-core eddy. 167:47–57