

Publications

99. Aguzzi, J. et al. (Editor's Choice) (2020). The potential of video imagery from worldwide cabled observatory networks to provide information supporting fish-stock and biodiversity assessment. *ICES J. Mar. Sci.* 77 (7-8), 2396-2410.
98. Aguzzi, J., Flexas, M. D. M., Flögel, S., Lo Iacono, C., Tangherlini, M., Costa, C., **Thomsen, L.** ... & Danovaro, R. (2020). Exo-ocean exploration with deep-sea sensor and platform technologies. *Astrobiology*, Vol 20, No. 7.
97. Aguzzi, J., Albiez, J., Flögel, S., Godø, O.R., Grimsbø, E., Marini, S., Pfannkuche, O., Rodriguez, E., **Thomsen, L.**, Torkelsen, T. and Valencia, J., (2020). A Flexible Autonomous Robotic Observatory Infrastructure for Benthopelagic Monitoring. *Sensors*, 20(6), p.1614.
96. Catzievangelou, D., Aguzzi, J., Scherwath, M., & **Thomsen, L.** (2020). Quality Control and Pre-Analysis Treatment of the Environmental Datasets Collected by an Internet Operated Deep-Sea Crawler during Its Entire 7-Year Long Deployment (2009–2016). *Sensors*, 20(10), 2991.
95. Chatzievangelou, D., Aguzzi, J., Ogston, A., Suárez, A., & **Thomsen, L.** (2020). Visual monitoring of key deep-sea megafauna with an Internet Operated crawler as a tool for ecological status assessment. *Progress in Oceanography*, 102321
94. Danovaro R., Fanelli E., Aguzzi J3, Carugati L., Corinaldesi C., Dell'Anno A., Gjerde K, Jamieson A.J., Kark S., McClain C., Levin L., Levin N., Ramirez-Llodra E., Ruhl H., Smith C.R., Snelgrove P.V.R. **Thomsen L.**, Van Dover C., Yasuhara M. (2020) Ecological variables for developing a global deep-ocean monitoring and conservation strategy. *Nature Ecology & Evolution* 04, 181-192
93. Scherwath, M., **Thomsen, L.**, Riedel, M., Römer, M., Chatzievangelou, D., Schwendner, J., ... & Heesemann, M. (2019). Ocean observatories as a tool to advance gas hydrate research. *Earth and Space Science* 6, 2644-2652.
92. Danovaro R., Fanelli E., Aguzzi J3, Carugati L., Corinaldesi C., Dell'Anno A., Gjerde K, Jamieson A.J., Kark S., McClain C., Levin L., Levin N., Ramirez-Llodra E., Ruhl H., Smith C.R., Snelgrove P.V.R. **Thomsen L.**, Van Dover C., Yasuhara M. (2020) Ecological variables for developing a global deep-ocean monitoring and conservation strategy. *Nature Ecology & Evolution* 04, 181-192
91. Belete, Y. Z., Leu, S., Boussiba, S., Zorin, B., Posten, C., **Thomsen, L.**, ... & Bernstein, R. (2019). Characterization and utilization of hydrothermal carbonization aqueous phase as nutrient source for microalgal growth. *Bioresource technology*, 290, 121758.
90. Wang, S., Sirbu, D., **Thomsen, L.**, Kuhnert, N., Ullrich, M. S., & Thomsen, C. (2019). Comparative lipidomic studies of *Scenedesmus* sp.(Chlorophyceae) and *Cylindrotheca closterium* (Bacillariophyceae) reveal their differences in lipid production under nitrogen starvation. *Journal of phycology*, 55(6), 1246-1257.
89. Aguzzi, J., Chatzievangelou, D., Marini, S., Fanelli, E., Danovaro, R., Flögel, S., ... & **Thomsen, L.** (2019). New high-tech flexible networks for the monitoring of deep-sea ecosystems. *Environmental science & technology*, 53(12), 6616-6631.
88. Han, J., **Thomsen, L.**, Pan, K., Wang, P., Wawilow, T., Osundeko, O., ... & Thomsen, C. (2019). Treating wastewater by indigenous microalgae strain in pilot platform located inside a municipal wastewater treatment plant. *Environmental technology*, 1-11.
87. Orejas C, Taviani M, Ambroso S, Andreou V, Bilan M, Bo M, Brooke S, Buhl-Mortensen P, Cordes E, Dominguez-Carrió C, Ferrier-Pagès C.,...**Thomsen, L.** Cold-Water Coral in Aquaria: Advances and Challenges. A Focus on the Mediterranean. In *Mediterranean Cold-Water Corals: Past, Present and Future* 2019 (pp. 435-471). Springer, Cham.
86. Gillard, B., Chatzievangelou, D., **Thomsen, L.**, & Ullrich, M. S. (2019). Heavy-metal-resistant microorganisms in deep-sea sediments disturbed by mining activity: an application towards the development of an experimental in vitro systems. *Frontiers in Marine Science*, 6, 462.
85. Gillard, B., Purkiani, K., Chatzievangelou, D., Vink, A., Iversen, M.H. and **Thomsen, L.**, (2019). Physical and hydrodynamic properties of deep sea mining-generated, abyssal sediment plumes in the Clarion Clipperton Fracture Zone (eastern-central Pacific). *Elem Sci Anth*, 7(1), p.5. DOI:<http://doi.org/10.1525/elementa.343>

84. Han, Jichang, **Laurenz Thomsen**, Kehou Pan, Pu Wang, Tatjana Wawilow, Olumayowa Osundeko, Song Wang, Ulf Theilen, and Claudia Thomsen. "Treating wastewater by indigenous microalgae strain in pilot platform located inside a municipal wastewater treatment plant." *Environmental technology* (2019): 1-11.
83. Wang, S., Sirbu, D., **Thomsen, L.**, Kuhnert, N., Ullrich, M. S., & Thomsen, C. (2019). Comparative lipidomic studies of *Scenedesmus* sp.(Chlorophyceae) and *Cylindrotheca closterium* (Bacillariophyceae) reveal their differences in lipid production under nitrogen starvation. *Journal of phycology*.
82. Wang, S., Verma, S. K., Said, I. H., **Thomsen, L.**, Ullrich, M. S., & Kuhnert, N. (2018). Changes in the fucoxanthin production and protein profiles in *Cylindrotheca closterium* in response to blue light-emitting diode light. *Microbial cell factories*, 17(1), 110.
81. Möhlenkamp, P., Purser, A., & **Thomsen, L.** (2018). Plastic microbeads from cosmetic products: an experimental study of their hydrodynamic behaviour, vertical transport and resuspension in phytoplankton and sediment aggregates. *Elem Sci Anth*, 6(1).
80. Han, J., **Thomsen, L.**, Pan, K., & Thomsen, C. (2018). Two-step process: enhanced strategy for wastewater treatment using microalgae. *Bioresource technology*.
79. Wang, S., Said, I. H., Thorstenson, C., Thomsen, C., Ullrich, M. S., Kuhnert, N., & **Thomsen, L.** (2018). Pilot-scale production of antibacterial substances by the marine diatom *Phaeodactylum tricornutum* Bohlin. *Algal research*, 32, 113-120.
78. **Thomsen, L.**, Aguzzi, J., Costa, C., De Leo, F., Ogston, A., & Purser, A. (2017). The oceanic biological pump: rapid carbon transfer to depth at continental margins during winter. *Scientific reports*, 7(1), 10763.
77. Doya, C., Chatzievangelou, D., Bahamon, N., Purser, A., De Leo, F.C., Juniper, S.K., **Thomsen, L.** and Aguzzi, J., (2017). Seasonal monitoring of deep-sea megabenthos in Barkley Canyon cold seep by internet operated vehicle (IOV). *PLoS one*, 12(5), p.e0176917.
76. Danovaro R., Aguzzi, J., Fanelli E., Billett D., Gjerde K., Jamieson A., Ramirez-Llodra E., Smith C.R., Snelgrove P.V.R., **Thomsen L.**, Van Dover C. (2017) An ecosystem-based deep-ocean strategy. *Science* **355** (6324), 452-454. [doi: 10.1126/science.aah 7178]
75. Chatzievangelou, D., Doya, C., **Thomsen, L.**, Purser, A. and Aguzzi, J., (2016). High-Frequency Patterns in the Abundance of Benthic Species near a Cold-Seep—An Internet Operated Vehicle Application. *PLoS one*, 11(10), p.e0163808.
74. Wang, S., Zhang, L., Yang, G., Han, J., **Thomsen, L.**, & Pan, K. (2016). Breeding 3 elite strains of *Nannochloropsis oceanica* by nitrosoguanidine mutagenesis and robust screening. *Algal Research*, 19, 104-108.
73. Brandt, A., Gutt, J., Hildebrandt, M., Pawlowski, J., Schwendner, J., Soltwedel, T., & **Thomsen, L.** (2016). Cutting the Umbilical: New Technological Perspectives in Benthic Deep-Sea Research. *Journal of Marine Science and Engineering*, 4(2), 36.
72. Barbot, Y. N., Thomsen, C., **Thomsen, L.**, & Benz, R. (2015) Anaerobic Digestion of *Laminaria japonica* Waste from Industrial Production Residues in Laboratory-and Pilot-Scale. *Marine drugs*, 13(9), 5947-5975.
71. Aguzzi, J., Doya, C., Tecchio, S., De Leo, F. C., Azzurro, E., Costa, C., ... **L.Thomsen** & Catalán, I. A. (2015) Coastal observatories for monitoring of fish behaviour and their responses to environmental changes. *Reviews in Fish Biology and Fisheries*, 1-21.
70. **Thomsen, L.**, Purser, A., Schwendner, J., Duda, A., Flögen, S., Kwasnitschka, T., ... & Rosta, R. (2015, May). Temporal and spatial benthic data collection via mobile robots: Present and future applications. In *OCEANS 2015-Genova* (pp. 1-5). IEEE.
69. Barbot, Y. N., **Thomsen, L.**, & Benz, R. (2015). Thermo-Acidic Pretreatment of Beach Macroalgae from Rügen to Optimize Biomethane Production—Double Benefit with Simultaneous Bioenergy Production and Improvement of Local Beach and Waste Management. *Marine Drugs*, 13(9), 5681-5705.
68. Sanguineti, M. M., Hourani, N., Witt, M., Sarathy, S. M., **Thomsen, L.**, & Kuhnert, N. (2015). Analysis of impact of temperature and saltwater on *Nannochloropsis salina* bio-oil production by ultra high resolution APCI FT-ICR MS. *Algal Research*, 9, 227-235.

67. Person, R., Favali, P., Ruhl, H. A., Beranzoli, L., Rolin, J. F., Waldmann, C., ... & **Thomsen, L. (2015)**. From ESONET multidisciplinary scientific community to EMSO novel European research infrastructure for ocean observation. In *SEAFLOOR OBSERVATORIES* (pp. 531-563). Springer Berlin Heidelberg.
66. Godø O R, Klungsøyr J, Meier S, Tenningen E, Purser A, **Thomsen L (2014)**. Real time observation system for monitoring environmental impact on marine ecosystems from oil drilling operations. *Marine Pollution Bulletin*
65. Purser, A., Orejas, C., Moje, A., & **Thomsen, L. (2014)**. The influence of flow velocity and suspended particulate concentration on net prey capture rates by the scleractinian coral *Balanophyllia europaea* (Scleractinia: Dendrophylliidae). *Journal of the Marine Biological Association of the United Kingdom*, 94(04), 687-696.
64. Ballent, A., S. Pando, A. Purser, M. F. Juliano, and **L. Thomsen (2013)**. "Modelled transport of benthic marine microplastic pollution in the Nazaré Canyon." *Biogeosciences* 10, no. 12
63. Pando, S., M. Juliano, R. Garcia, Jesus Mendes, and **L. Thomsen (2013)**. "Application of a Lagrangian transport model to organo-mineral aggregates within the Nazaré canyon." *Biogeosciences Discussions* 10, no. 1, 447-481.
62. Pusceddu, A., M. Mea, M. Canals, S. Heussner, X. Durrieu de Madron, A. Sanchez-Vidal, S. Bianchelli, **L. Thomsen, (2013)**. "Major consequences of an intense dense shelf water cascading event on deep-sea benthic trophic conditions and meiofaunal biodiversity." *Biogeosciences* 10, no. 4 (2013): 2659-2670.
61. Purser, A., J. Ontrup, T. Schoening, **L. Thomsen**, R. Tong, V. Unnithan, and T. W. Nattkemper **(2013)**. "Microhabitat and shrimp abundance within a Norwegian cold-water coral ecosystem." *Biogeosciences Discussions* 10, 3365-3396.
60. Purser, A., **Thomsen, L.**, Barnes, C., Best, M., Chapman, R., Hofbauer, M., & Wagner, H. **(2013)**. Temporal and spatial benthic data collection via an internet operated Deep Sea Crawler. *Methods in Oceanography*, 5, 1-18.
59. Larsson, A., Oevelen, D., Purser, A., **Thomsen, L. (2012)** Tolerance to long-term exposure of suspended benthic sediments and drill cuttings in the cold-water coral *Lophelia pertusa*, *Marine Pollution Bulletin*, in press, 10.1016/j.marpolbul.2013.02.033.
58. Thomsen, C., S. Rill and **Thomsen, L. (2012)**: Case study with temperature controlled outdoor PBR system in Bremen. *Microalgal Biotechnology: Integration and Economy*. Chapter 4, 74-77, Eds. by Posten, Clemens / Walter, (ISBN 978-3-11-029827-7)
57. de Jesus Mendes PA, **Thomsen L (2012)** Effects of ocean acidification on the ballast of surface aggregates sinking through the twilight zone. *PLOS one*, doi:10.1371/journal.pone.0050865
56. Purser A, **Thomsen L (2012)** Monitoring strategies for drill cutting discharge in the vicinity of cold-water coral ecosystems, *Marine Pollution Bulletin* 64, 2309–2316. doi:10.1016/j.marpolbul.2012.08.003
55. **Thomsen L**, Barnes C, Best M, Chapman R, Pirenne B, Thomsen R, Vogt J. **(2012)** Ocean circulation promotes methane release from gas hydrate outcrops at the NEPTUNE Canada Barkley Canyon node, *Geophys. Res. Lett.*, 39, L16605, doi:10.1029/2012GL052462.
54. Rwehumbiza VM, Harrison R, **Thomsen L (2012)** Alum-induced flocculation of pre-concentrated *Nannochloropsis salina*: Residual aluminium in the biomass, FAMES and its effects on microalgae growth upon media recycling, *Chemical Engineering Journal* 200-202 , 168–175, doi:10.1016/j.cej.2012.06.008
53. de Jesus Mendes PA, **Thomsen L**, García R, Gust G **(2011)** Transport of persistent organic pollutants by organo-mineral aggregates (OMAs) in the Lisboa–Setúbal Canyon system. *Deep Sea Research II* 58, 2345-2353. doi:10.1016/j.dsr2.2011.08.010
52. Pabortsava K, Purser A, Wagner H, **Thomsen L (2011)** The influence of drill cuttings on the physical characteristics of phytodetritus. *Marine Pollution Bulletin*. 62, 2170-2180. doi:10.1016/j.marpolbul.2011.07.002
51. Ruhl H, Andre M, Beranzoli L, Cagatay N, Colaco A, Cannat M, Danobeitia J, Favali P, Geli L, Gillooly M, Greinert J, Hall P, Huber R, Karstensen J, Lampitt R, Larkin K, Lykousis V, Mienert J, Miranda J, Person R, Priede Puillat I, **Thomsen L**, Waldmann C **(2011)** Societal need for improved understanding of climate

- change, anthropogenic impacts, and geo-hazard warning drive development of ocean observatories in European Seas. *Progress In Oceanography* 91 (1), 1-33.doi:10.1016/j.pocean.2011.05.001
50. Purser A, Larsson AI, **Thomsen L**, van Oevelen D (2010) The influence of flow velocity and food concentration on *Lophelia pertusa* (Scleractinia) zooplankton capture rates. *Journal of Experimental marine Biology and Ecology* 395, 55-62.doi:10.1016/j.jembe.2010.08.013
 49. Wagner H, Purser A, **Thomsen L**, Jesus CC, Lundälv T (2010) Particulate organic matter fluxes and hydrodynamics at the Tisler cold-water coral reef. *Journal of Marine Systems* 85 (1-2), 19-29.doi:10.1016/j.jmarsys.2010.11.003
 48. Pusceddu M, Mea M, Gambi C, Bianchelli S, Canals M, Sanchez-Vidal A, Calafat A, Heussner S, Durrieu De Madron X, Avril J, **Thomsen L**, García R, Danovaro R (2010) Ecosystem effects of dense water formation on deep Mediterranean ecosystems: an overview. *Advances in Oceanography and Limnology* 1, 51-62 [SEP](HERMES).doi:10.1080/19475721003735765
 47. García R, **Thomsen L**, de Stigter HC, Epping E, Soetaert K, Koning E, de Jesus Mendes PA (2010) Sediment bioavailable organic matter, deposition rates and mixing intensity in the Setúbal-Lisbon canyon and adjacent slope (Western Iberian Margin). *Deep Sea Research I* 57, 1012-1026.doi:10.1016/j.dsr.2010.03.013
 46. **Thomsen L** (2010) How 'green' are algae farms for biofuel production?. *Biofuels* 1, 515–517.
 45. Gunn V and **Thomsen L** (2009) The next generation: providing inspiration and training for the marine scientists of the future. *Oceanography* 22, 166-176.doi:10.5670/oceanog.2009.16
 44. García R, van Oevelen D, Soetaert K, **Thomsen L**, de Stigter HC, Epping E (2008) Deposition rates, mixing intensity and organic content in two contrasting submarine canyons. *Progress in Oceanography* 76, 192-215.doi:10.1016/j.pocean.2008.01.001
 43. García R, **Thomsen L** (2008) Bioavailable organic matter in surface sediments of the Nazaré canyon and adjacent slope (Western Iberian Margin). *Journal of Marine Systems* 74, 44-59.doi:10.1016/j.jmarsys.2007.11.004
 42. García R, Koho KA, de Stigter HC, Epping E, Koning E, **Thomsen L** (2007). Distribution of meiobenthos in the Nazaré canyon and adjacent slope (western Iberian Margin) in relation to sedimentary composition. *Marine Ecology Progress Series* 340, 207-220. doi:
 41. Karpen V, Viergutz T, **Thomsen L** (2007) Baltic Observatory for Oceanographic Monitoring. *Sea Technology*, July 2007, 18-20.doi:
 40. de Jesus Mendes PA, **L. Thomsen**, B. Holscher, H. C. de Stigter, G. Gust (2007) Pressure effects on the biological degradation of organo-mineral aggregates in Submarine Canyons. *Marine Geology* 246, 165-175.doi:10.1016/j.margeo.2007.05.012
 39. de Jesus Mendes PA, Maier I, **Thomsen L** (2007) Effect of physical variables on particle critical erosion shear stress: hydrostatic pressure, slope and changes in water density. *Estuarine Coastal and Shelf Science* 75, 317-326.doi:10.1016/j.ecss.2007.04.035
 38. de Stigter HC, Boer W, de Jesus Mendes PA, Jesus CC, **Thomsen L**, van den Bergh GD, van Weering TCE (2007) Recent sediment transport and deposition in the Nazaré Canyon, Portuguese continental margin. *Marine Geology* 246, 144-164.doi:10.1016/j.margeo.2007.04.011
 37. Karpen V, **Thomsen L**, Suess E (2006) Groundwater discharges in the Baltic Sea: survey and quantification using a schlieren technique application. *Geofluids* 6, 1-10.doi: 10.1111/j.1468-8123.2006.00145.x
 36. **Thomsen L** (2005). Kontinentalränder. In Hempel et al., Springer Verlag: *Biologie der Ozeane*.
 35. **Thomsen L** (2004) Organic rich aggregates: formation, transport behavior, and biochemical composition. In: *Flocculation in Natural and Engineered Environmental Systems*, Droppo I. et al. (Eds.) pp.143-154. doi:
 34. Priede M, **Thomsen L**. et al. (2004) ESONET- European Sea Floor Observatory Network. *Proceedings Oceans, IEEE* 48, 3191-3221.
 33. Karpen V, **Thomsen L**, Suess E (2004) A new 'schlieren' technique application for fluid flow visualization at cold seep sites. *Marine Geology* 204, 145-159.doi:10.1016/S0025-3227(03)00370-0

32. Davies AM, Xing J, Hall P, Huthnance JM, **Thomsen L. (2002)** Models of near-bed dynamics and sediment movement at the Iberian margin. *Progress Oceanography* 54, 373-397.doi:10.1016/S0079-6611(02)00016-2
31. Huthnance JD, Humphery PJ, Knight L, **Thomsen L**, White M (**2002**) Near-bed turbulence measurements, stress estimates and sediment mobility at the continental shelf edge. *Progress in Oceanography* 54, 171-194.doi:10.1016/S0079-6611(02)00005-8
30. **Thomsen L**, van Weering T, Gust G (**2002**) Processes in the benthic boundary layer at the Iberian continental margin and their implication for carbon mineralization. *Progress in Oceanography* 52, 315-329.doi:10.1016/S0079-6611(02)00013-7
29. **Thomsen L (2002)** The benthic boundary layer. In Berger, Wefer, (eds) *Ocean Margin Systems*, Springer, pp 143 – 155.doi:
28. **Thomsen L**, van Weering T, Blondel P, Lampitt R, Lamy F, McCave N, Hebbeln D, McPhail S, Mienert J, Neves R, d'Ozouville L, Ristow D, Waldmann CH, Wollast R (**2002**) Margin building- regulating processes. In Berger, Wefer, (eds) *Ocean Margin Systems*, Springer, pp 195-203.doi:
27. McCave IN, Hall IR, Antia A, Chou L, Dehairs F, Hall IR, Lampitt RS, **Thomsen L**, van Weering TCE, Wollast R (**2001**) Distribution, composition and flux of particulate material over the European Margin at 47° - 50°N. *Deep Sea Research II* 48, 3107-3139.doi.org/10.1016/S0967-0645(01)00034-0
26. **Thomsen L**, van Weering TCE (**2001**) Particle transport, distribution patterns of sedimentological properties and biological communities. In: *Sedimentation in the Norwegian Sea* (Schäfer, Thiede, Schlüter and Ritzrau, eds.) Springer, Heidelberg. doi:
25. van Weering TCE, de Stigter H, Balzer W, Epping E, Graf G, Hall I, Helder W, Khripounoff A, Lohse L, McCave IN, **Thomsen L**, Vangriesheim A (**2001**) Benthic dynamics and carbon fluxes on the N.W. European continental margin. *Deep Sea Research II* 48, 3191-3221.doi:10.1016/S0967-0645(01)00037-6
24. Heip C, de Wilde P, Duineveld G, Flach E, Graf G, Lavalaye M, Pfannkuche O, Soetaert K, Soldwedel T, **Thomsen L**, Vanaverbeke U (**2001**) The role of the benthic biota in sedimentary metabolism and sediment-water exchange processes in the Goban Spur area (NE Atlantic). *Deep Sea Research II* 48, 3223-3243.doi:10.1016/S0967-0645(01)00038-8
23. **Thomsen L**, McCave IN (**2000**) Aggregation processes in the benthic boundary layer at the Celtic Sea continental margin. *Deep-Sea Research I*, 47, 1389-1404.doi:10.1016/S0967-0637(99)00110-7
22. **Thomsen L** and Gust G (**2000**) Sediment erosion thresholds and characteristics of resuspended aggregates on the western European continental margin. *Deep-Sea Research I*, 47, 1881-1897.doi:10.1016/S0967-0637(00)00003-0
21. Weering TCE, **Thomsen L**, Heerwarden J, Koster B, Viergutz T (**2000**) A seabed lander and new techniques for long term in situ study of deep-sea near bed dynamics. *Sea Technology*. 2000/2, 17-27.
20. Reimers C, Jahnke R, and **Thomsen L (2000)**. In situ sampling in the benthic boundary layer. In *The Benthic Boundary Layer: Transport Processes and Biogeochemistry* (Boudreau BP, Jørgensen BB, eds.), pp. 245-268. Oxford University Press, New York, 404p. doi:
19. **Thomsen L (1998)** Processes in the benthic boundary layer at continental margins and their implication for the benthic carbon cycle. *Journal of Sea Research* 41, 73-86.doi:10.1016/S1385-1101(98)00039-2
18. **Thomsen L**, Jähmlich S (**1998**). An in situ experiment to investigate the modification of particulate matter and urea above a benthic sandy silt community in the Baltic Sea. *Hydrobiologia* 375/376, 353-359.doi:10.1023/A:1017019932033
17. **Thomsen L**, van Weering T (**1998**) Spatial and temporal variability of particulate matter in the benthic boundary layer at the N:W. European Continental Margin (Goban Spur). *Progress in Oceanography*, 42, 61-76.doi.org/10.1016/S0079-6611(98)00028-7
16. van Weering TCE, McCave IN, de Stigter H, Hall L, **Thomsen L (1998)** Recent sediments, sediment accumulation and carbon burial at Goban Spur, N.W. European Continental Margin (47-50°N). *Progress in Oceanography*, 42, 76-92.doi:10.1016/S0079-6611(98)00026-3

15. Flach E, Lavalaye M, de Stigter H, **Thomsen L (1998)** Feeding types of the benthic community and particle transport across the slope of the N.W. European Continental Margin (Goban Spur). *Progress in Oceanography*, 42, 209-231. doi:10.1016/S0079-6611(98)00035-4
14. Flach E, **Thomsen L (1998)** Do physical and chemical factors structure the macrobenthic community at the continental slope in the NE Atlantic ? *Hydrobiologia*, 375/376, 265-285. doi: 10.1023/A:1017009409743
13. Jähmlich S, **Thomsen L**, Graf G (**1998**) Factors controlling aggregate formation in the BBL of the Mecklenburg Bight (western Baltic Sea). *Journal of Sea Research* 41, 245-254. doi.org/10.1016/S1385-1101(99)00010-6
12. Ritzrau W, **Thomsen L (1997)** Spatial distribution of particle composition and microbial activity in benthic boundary layer (BBL) of the Northeast Water Polynya. *Journal of Marine Systems* 10, 415 - 428. doi:10.1016/S0924-7963(96)00073-5
11. Ritzrau W, **Thomsen L**, Lara R, Graf G (**1997**). Enhanced microbial utilization of dissolved amino acids indicates rapid modification of organic matter in the benthic boundary layer. *Marine Ecology Progress Series* 156, 43-50. doi:
10. **Thomsen L**, Flach E (**1997**) Mesocosm observations of fluxes of particulate matter within the benthic boundary layer. *Journal of Sea Research* 37, 67-79. doi:10.1016/S1385-1101(97)00004-X
9. **Thomsen L**, Ritzrau W (**1996**). Aggregates studies in the benthic boundary layer at a continental margin. *Journal of Sea Research* 36, 143-146. doi:10.1016/S1385-1101(96)90784-4
8. **Thomsen L**, S. Jähmlich G, Graf M, Friedrichs B, Springer S, Wanner S (**1996**) An instrument for aggregate studies in the benthic boundary layer. *Marine Geology* 135, 153-157. doi:10.1016/S0025-3227(96)00059-X
7. **Thomsen L. (1995)** Monitoring physical, biogeochemical parameters at sea. *Sea Technology* 36/7, 55-58.
6. **Thomsen L** Graf G (**1995**) Characteristics of suspended particulate matter in the benthic boundary layer of the continental margin of the western Barents Sea. *Oceanologica Acta* 17, 597-607.
5. **Thomsen L**, Graf G, van Juterzenka K and Witte U (**1995**) An in situ experiment to investigate the depletion of seston above an interface feeder field on the continental slope of the western Barents Sea. *Marine Ecology Progress Series* 123, 295-300. doi:
4. Graf G, Gerlach SA, Linke P, Queisser W, Scheltz A, **Thomsen L** and Witte U (**1995**) Benthic-pelagic coupling in the Greenland-Norwegian Sea and its effect on the geological record. *Geology Rundschau* 84, 49-58. doi: 10.1007/BF00192241
3. **Thomsen L**, Graf G, Martens M , Steen E (**1994**) An instrument for sampling water from the benthic boundary layer. *Continental Shelf Research* 14, 871-882. doi:10.1016/0278-4343(94)90077-9
2. **Thomsen L**, Altenbach AV (**1993**) Vertical and areal distribution of foraminiferal abundance and biomass in microhabitats around an inhabited tube of a marine Echiurid. *Marine Micropalaeontology* 20, 303-309. doi: 10.1016/0377-8398(93)90039-Z
1. **Thomsen L (1991)** Treatment and splitting of samples for bacteria and meiofauna biomass determinations by means of a semi-automatic image analysis system. *Marine Ecology Progress Series* 71, 301-306. doi: