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Research outputs

Whiting (Merlangius merlangus) in Division 3a (whg.27.3a) - exploration of rfb-rule
van Denderen, D. & Abdullah, M., 16 Feb 2026, 16 p.. No. 25/1023196, Sept 30, 2025.

Active Transport of Carbon to Demersal Fish Communities in Shelf-Slope-Abyssal Systems of the North Atlantic Ocean
Ottmann, D., Andersen, K. H., Zhao, Y., Petrik, C. M., Stock, C. A., Trueman, C. & van Denderen, P. D., 2026, In: Global Biogeochemical Cycles. 40, 2, 15 p., e2025GB008861.

Assessment of Bottom Trawl Impacts on the Status of Seabed Communities in European Seas
Hiddink, J. G., Valanko, S., Batts, L., Beukhof, E. D., Blomqvist, M., Bolam, S., Calero, B., Casini, M., Delgado, M., Depestele, J., Desmidt, J., Di Bona, G., Di Lorenzo, B., Dinesen, G. E., D'Onghia, G., Egekvist, J., Fanelli, E., Farriols, M. T., Franceschini, G. & Gil, J. & 38 others, González-Irusta, J. M., Laffargue, P., Maina, I., Maiorano, P., Mamede, R., Mangano, M. C., Xuan, A. N., Papadopoulou, N., Penna, M., Pierucci, A., Pulcini, M., Raicevich, S., Rakaj, A., Reizopoulou, S., Riva, G., Russo, T., Sala, A., Sarà, G., Sbrana, A., Scarcella, G., Sciberras, M., Sköld, M., Smith, C. J., Sobrino, I., Spedicato, M. T., Todorova, V., Tsikopoulou, I., van der Reijden, K. J., Vaz, S., Vina-Herbon, C., Vrgoc, N., Wright, K., Zhang, W., Zupa, W., van Hoey, G., Eigaard, O. R., van Kooten, T. & van Denderen, P. D., 2026, In: Fish and Fisheries. 27, 2, p. 285-299

Assessment of the impacts of mobile bottom-contacting fishing gears on epibenthic communities of the Scotian Shelf and Gulf of Maine (Atlantic Canada)
Hiddink, J. G., Denderen, D. V., Murillo, F. J. & Kenchington, E., 2026, In: Canadian Journal of Fisheries and Aquatic Sciences. 83, p. 1-23

Evaluating the efficacy of closing the current European network of marine protected areas to mobile bottom-contacting fishing gears
van der Reijden, K. J., Valanko, S., Depestele, J., Desmidt, J., González Irusta, J. M., Hiddink, J. G., Laffargue, P., Sciberras, M. & van Denderen, P. D., 2026, In: Biological Conservation. 321, 13 p., 111984.

Passive Nature Restoration of Marine Habitats (PReMaH) - baseline, development and collaboration
Christensen, H. T., Banta, G., Bekkevold, D., Christensen, A., Eigaard, O. R., Ernstsen, V. B., Kindt-Larsen, L., Termansen, M., van Denderen, D., Wahlberg, M., Worsaae, K. & Dinesen, G. E., 2026, *Havforskermøde 2026:*

Abstractbog. Aarhus, Denmark: Aarhus Universitet, p. 63-63

A gear component approach to trawling impact and sediment mobilization assessments
van der Reijden, K. J., Eigaard, O. R., Bastardie, F., van Denderen, P. D. & O'Neill, F. G., 2025, In: ICES Journal of Marine Science. 82, 7, 12 p., fsaf106.

Benthic Indicators for Monitoring Bottom-Trawl Fishing Impacts
van Denderen, P. D., Plaza-Morlote, M., Vaz, S., González-Irusta, J. M., García-Alegre, A., Van Hoey, G. & Valanko, S., 2025, In: The Bulletin of the Ecological Society of America. 106, 1, 6 p., e2199.

Biologisk rådgivning vedr. mindstemål på pighvar på 40 cm
Schiønning, M. K., van Denderen, D., Vinther, M. & van Deurs, M. S. K., 2025, 8 p.. No. 25/1001347, Mar 03, 2025.

FEISTY Fortran library and R package to integrate fish and fisheries with biogeochemical models
Zhao, Y., van Denderen, D., Denechere, R., Falciani, J. E., Jacobsen, N. S., Konstantinopoulos, T., Ottmann, D., Petrik, C. M., Soetaert, K., Stock, C. A. & Andersen, K. H., 2025, In: Methods in Ecology and Evolution. 16, 1, p. 40-48

FISHGLOB: A collaborative infrastructure to bridge the gap between scientific monitoring and marine biodiversity conservation
Maureaud, A. A., Kitchel, Z., Fredston, A., Guralnick, R., Palacios-Abrantes, J., Palomares, M. L. D., Pinsky, M. L., Shackell, N. L., Thorson, J. T., Alemany, D., Amador, K., Bandara, R. M. W. J., Belmaker, J., Beukhof, E. D., Bograd, S. J., Lamine Camara, M., Carbonara, P., van Denderen, D., Chaikin, S. & Collins, M. A. & 44 others, Eddy, T. D., Edelist, D., Fock, H. O., Frelat, R., Friedland, K. D., Grüss, A., Hidalgo, M., Jouffre, D., Kidé, S. O., Koen-Alonso, M., Knuckey, I., Kotwicki, S., Lavender, E., Lindegren, M., Llope, M., Mannocci, L., Mason, J. G., Masski, H., McLean, M., Mérillet, L., Mihneva, V., Nunoo, F. K. E., O'Driscoll, R. L., O'Leary, C. A., Pecuchet, L., Petrova, E., Ramos, J. E., Sobrino, I., Sólmundsson, J., Soni, V., Spies, I., Spedicato, M. T., Stephenson, F., Thiam, N., Tserkova, F., Tserpes, G., Tzanatos, E., van Denderen, D., Vasilakopoulos, P., Webb, T., Yepsen, D. V., Ziegler, P., Zupa, W. & Mérigot, B., 2025, In: Conservation Science and Practice. 7, 6, 12 p., e70035.

Mesopelagic Fish Traits: Functions and Trade-Offs
Andresen, H., Eduardo, L., Olivar, M. ., van Denderen, P. ., Spitz, J., Maureaud, A., Brind'Amour, A., Bowlin, N., García-Seoane, E., Langbehn, T., Sutton, T., Fock, H., Salvanes, A. & Lindegren, M., 2025, In: Fish and Fisheries. 26, 1, p. 83-103

The role of fish in marine food webs
Travers-Trolet, M., Denderen, P. D. V., Deniau, C., Gascuel, D., Lobry, J. & Trueman, C., 2025, *Ecology of Marine Fish.* Cabral, H., Lepage, M., Lobry, J. & Pape, O. L. (eds.). Elsevier, p. 257-266

Working Group on Fisheries Benthic Impact and Trade-offs (WGFBIT; outputs from 2024 meeting)
Beauchard, O., Pierucci, A., Pulcini, M., Vaz, S., van Denderen, D., Zhang, W., Todorova, V., Mamede, R., Rufino, M., Depestele, J., Boulcott, P., Xuan, A. N., Di Lorenzo, B., Bradshaw, C., Seidel, L., Penna, M., Reijden, K. J. V. D., Blanco, B. C., Garau, M. T. F. & Hiddink, J. G. & 42 others, Tiano, J., Van Hoey, G., Parry, M., Laffargue, P., Russo, T., Di Bona, G., Parker, R., McKellar, L., Egekvist, J., Plaza-Morlote, M., Irusta , J. M. G., Soetaert, K., Blomqvist, M., Wright, K., Hartley, M., Sciberras, M., Mobilia, V., Gruender, A., Vina-Herbon, C., Garcia, C., Todorova, V., Zlateva, I., Markovic, L., Clare, D., Papadopoulou, N., Smith, C., Tsikopoulou, I., Mangano, M. C., Brown, L., Beukhof, E., DeSchmidt, J., Porz, L., Aldridge, J., Valanko, S., Andresen, H., Buhl-Mortensen, L., Sbrana, A., Sala, A., Farriols, M. T., Bonthond, G., Ferravega, C. & Tassetti, A. N., 2025, Copenhagen, Denmark: International Council for the Exploration of the Sea (ICES). 90 p. (ICES Scientific Report; No. 18, Vol. 7).

Workshop on Nature Restoration and Recovery (WKREST)
Adorf , K., Andersone, I., Balestri, E., Banta, G., Blankett, P., Bos, O., Bromhall, K., Camilleri, S., Canella, C., Christensen, H. T., Dickey-Collas, M., Danovaro, R., van Denderen, D., Diz, D., Doherty, E., Evans, P., Fedorovska, A., Fortuin, S., Frascetti, S. & Glyki, E. & 29 others, Handmann, P., Hemraj, A., Hiddink, J. G., Irusta, J., Kallasvuo, M., Kenchington, E., Kenny, A., Kujala, H., Kuningas, S., Kurvinen, L., Langton, R., Norderhaug, K. M., Oliveira, N., Papadopoulou, N., Petersen, J. K., Sousa Pinto, I., Sas, H., Savini, A., Semjonova, I., Hasler-Sheetal, H., Smith, C., Stojanovic, I., Tavares, T., tenBrink, T., Uusitalo, L., Valanko, S., Virtanen, E., Visser, M. & Zupan, M., 2025, Copenhagen, Denmark: International Council for the Exploration of the Sea (ICES). 172 p. (ICES Scientific Report; No. 46, Vol. 7).

Workshop on Scoping Input to Inform Seafloor Quality Threshold Setting (WKD6SCOPE)
Berlino, M., Blomqvist, M., Di Bona, G., Boulcott, P., Boyé, A., Brivois, O., Canella, C., Caserman, H., Cronin, K., Depestele, J., Desmidt, J., Dinesen, G. E., Diz, D., Eisenbarth, S., Fernández, U., Garofalo, G., González-Irusta , J. M., Haapasaari, P., Hartley, M. & Herbon, C. & 43 others, Hiddink, J. G., Hitchin, B., Kenny, A., Kraśniewski, W., Kreutle, A., Laffargue, P., Liquete, C., Magni, P., Mangano, M. C., Maric, M., Markovic, L., Mavrič, B., Mathies, M., Ntatsi, E., Papadopoulou, N., Parry, M., Plaza, M., Pulcini, M., Raicevich, S., Reeves, L., Rodriguez, A., Rousou, M., Sandman, A., Schmitt, P., Schroeder, A., Sköld, M., Smith, B., Smith, C., Spilva, L., Talevska, T., Valanko, S., Van Hoey, G., Varjopuro, R., Vaz, S., West, L., Wijnhoven, S., Xuan, A. N., Zupan, M., Reijden, K. J. V. D. (Editor), McKellar, L. (Editor), Kenchington, E. (Editor), Puharinen, S.-T. (Editor) & van Denderen, D. (Editor), 2025, Copenhagen, Denmark: International Council for the Exploration of the Sea (ICES). 104 p. (ICES Scientific Report; No. 101, Vol. 7).

Advancing bioenergetics-based modeling to improve climate change projections of marine ecosystems
Rose, K. A., Holsman, K., Nye, J. A., Markowitz, E. H., Banha, T. N. S., Bednaršek, N., Bueno-Pardo, J., Deslauriers, D., Fulton, E. A., Huebert, K. B., Huret, M., Ito, S.-I., Koenigstein, S., Li, L., Moustahfid, H., Muhling, B. A., Neubauer, P., Paula, J. R., Siddon, E. C. & Skogen, M. D. & 4 others, Spencer, P. D., van Denderen, P. D., Meeren, G. I. V. D. & Peck, M. A., 2024, In: Marine Ecology Progress Series. 732, p. 193-221

Biomass and trait biogeography of cephalopods on the European and North American continental shelves
Ottmann, D., Andersen, K. H. & van Denderen, P. D., 2024, In: Global Ecology and Biogeography. 33, 3, 11 p.

Complementarity and sensitivity of benthic state indicators to bottom-trawl fishing disturbance
van Denderen, P. D., Plaza-Morlote, M., Vaz, S., Wijnhoven, S., Borja, A., Fernandez-Arcaya, U., González-Irusta, J. M., Hansen, J. L. S., Katsiaras, N., Pierucci, A., Serrano, A., Reizopoulou, S., Papadopoulou, N., Sköld, M., Smith, C. J., Nygård, H., Van Hoey, G., Dinesen, G. E., Virtanen, E. A. & Boyé, A. & 12 others, García-Alegre, A., Bellas, J., Bolam, S., Muñoz, P. D., Sacau, M., Riva, G., Kenchington, E., Raicevich, S., Reid, D., Roux, M. J., Hiddink, J. G. & Valanko, S., 2024, In: Ecological Applications. 34, 8, 15 p., e3050.

Detecting, Attributing, and Projecting Global Marine Ecosystem and Fisheries Change: FishMIP 2.0
Blanchard, J. L., Novaglio, C., Maury, O., Harrison, C. S., Petrik, C. M., Fierro-Arcos, D., Ortega-Cisneros, K., Bryndum-Buchholz, A., Eddy, T. D., Heneghan, R., Roberts, K., Schewe, J., Bianchi, D., Guiet, J., Daniel van Denderen, P., Palacios-Abrantes, J., Liu, X., Stock, C. A., Rousseau, Y. & Büchner, M. & 24 others, Adekoya, E. O., Bulman, C., Cheung, W., Christensen, V., Coll, M., Capitani, L., Datta, S., Fulton, E. A., Fuster, A., Garza, V., Lengaigne, M., Lindmark, M., Murphy, K., Ouled-Cheikh, J., Prasad, S. S., Oliveros-Ramos, R., Reum, J. C., Rynne, N., Scherrer, K. J. N., Shin, Y., Steenbeek, J., Woodworth-Jefcoats, P., Wu, Y. & Tittensor, D. P., 2024, In: Earth's Future. 12, 12, 12 p., e2023EF004402.

Disentangling the effects of abiotic and biotic processes on non-indigenous species dominance
Vivó-Pons, A., van Denderen, P. D., Flensborg, L., Jaspers, C. & Lindegren, M., 2024, In: NeoBiota. 94, p. 159-177 19 p.

Estimating Fishing Exploitation Rates to Simulate Global Catches and Biomass Changes of Pelagic and Demersal Fish
van Denderen, P. D., Jacobsen, N., Andersen, K. H., Blanchard, J. L., Novaglio, C., Stock, C. A. & Petrik, C. M., 2024, In: Earth's Future. 12, 10, 14 p., e2024EF004604.

FISHGLOB_data: an integrated dataset of fish biodiversity sampled with scientific bottom-trawl surveys
Maureaud, A., Palacios-Abrantes, J., Kitchel, Z., Mannocci, L., Pinsky, M. L., Fredston, A., Beukhof, E. D., Forrest, D. L., Frelat, R., Palomares, M. L. D., Pécuchet, L., Thorson, J. T., van Denderen, P. D. & Mérigot, B., 2024, In: Scientific data. 11, 14 p., 24.

Impact of increased fishing on long-term sequestration of carbon by cephalopods
Ottmann, D., van Denderen, P. D., Visser, A. & Andersen, K. H., 2024, In: Current Biology. 34, 11, p. R526-R527

Information on the beam trawl fisheries and its environmental impact
Vinther, M., O'Neill, B., Beukhof, E., Bastardie, F., Dinesen, G. E., Eigaard, O. R. & van Denderen, D., 2024, 18 p.. No. 24/1016897, Nov 18, 2024.

The role of squid for food web structure and community-level metabolism
Denéchère, R., van Denderen, P. D. & Andersen, K. H., 2024, In: Ecological Modelling. 493, 10 p., 110729.

Understanding and accurately predicting past and future changes
Blanchard, J. L., Novaglio, C., Maury, O., Roberts, K., Rynne, N., Harrison, C. S., Petrik, C. M., Bianchi, D., Bahri, T., Coll, M., Eddy, T. D., Guiet, J., Ortega-Cisneros, K., Heneghan, R. F., Liu, X., Rousseau, Y., Steenbeek, J., Stock, C., Watson, R. & van Denderen, D. & 1 others, Tittensor, D. P., 2024, *Climate change risks to marine ecosystems and fisheries: Projections to 2100 from the Fisheries and Marine Ecosystem Model Intercomparison Project.* Blanchard, J. L. & Novaglio, C. (eds.). Rome, Italy: Food and Agriculture Organization of the United Nations, p. 57-62 (F A O Fisheries and Aquaculture Technical Paper, Vol. 707).

Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak (WGNSSK)
Abdullah, M., Barreto, E., Bielli, A., Chen, C., Cole, H., Domingues, M. D. M., De Oliveira, J., Denechaud, C., Girardin, R., Griffin, K., Halouani, G., Haslob, H., Holt, R., Kempf, A., Lövgren, J., Mesquita, C., Miethe, T., Mosqueira, I., Needle, C. & Nielsen, J. R. & 17 others, Orio, A., Reecht, Y., Skjæraasen, J. E., Søvik, G., Sundelöf, A., Sys, K., Taylor, M., Tiano, J., Van de Pol, L., van Denderen, D., Vansteenbrugge, L., Malta, T. V., Villanueva, D. V., Vinther, M., Vitale, F., Walker, N. & Zimmermann, F., 2024, Copenhagen, Denmark: International Council for the Exploration of the Sea (ICES). 1249 p. (ICES Scientific Report; No. 38, Vol. 6).

Working Group on the Ecosystem Effects of Fishing Activities (WGECO)
Belgrano, A., Calderwood, J., Griffiths, C., McKellar, L., Smith, B., Soudijn, F. H., van Denderen, P. D. & van Kooten, T., 2024, Copenhagen, Denmark: International Council for the Exploration of the Sea (ICES). 50 p. (ICES Scientific Report; No. 52, Vol. 6).

Workshop on Trade-offs between the Impact of Fisheries on Seafloor Habitats and their Landings and Economic Performance (WKTRADE4)
Alibert-Deprez, C., Amoedo, D. L., Araújo, G., Basalo, A. R., Bastardie, F., Bitetto, I., Carvalho, N., Cojocaru, A.-L., van Denderen, D., Egekvist, J., El-Haweet, A., Fakioglu, Y. E., Ecin, J. P., Henriques, N. S., Jakovleva, I., Lund, H. S., Malvarosa, L., Mathies, M., Motova, A. & Murphy, P. & 11 others, Nastasi, A., Patterson, K., Pfeiffer, L., Pirrone, C., Russo, T., Tukker, R., Vallerani, M., Voces, D., Vujevic, A., Vukov, I. & Zanzi, A., 2024, Copenhagen, Denmark: International Council for the Exploration of the Sea (ICES). 77 p. (ICES Scientific Report; No. 70, Vol. 6).

Workshop to update and assess trade-offs between the impact of fisheries on seafloor habitats and their landings and economic performance (WKD6ASSESS)
Araúj, G., Basalo, A. R., Bastardie, F., Batts, L., Bitetto, I., Buhl-Mortensen, L., Carvalho, N., Cordón, C. F., D'Andrea, L., van Denderen, D., Egekvist, J., Fernández-Arcaya, U., Van Hoey, G., Irusta, J. M. G., Kraan, C., Maina, I., Mathies, M., McKellar, L., Patterson, K. & Pirrone, C. & 6 others, Raicevich, S., Reijden, K. J. V. D., Sciberras, M., Tsikopoulou, I., Vaz, S. & Zupa, W., 2024, Copenhagen, Denmark: International Council for the Exploration of the Sea (ICES). 67 p. (ICES Scientific Report; No. 34, Vol. 6).

Demersal fish biomass declines with temperature across productive shelf seas
van Denderen, P. D., Maureaud, A., Andersen, K. H., Gaichas, S., Lindegren, M., Petrik, C. M., Stock, C. A. & Collie, J., 2023, In: Global Ecology and Biogeography. 32, 10, p. 1846-1857

Effects of coastal fisheries on benthic fauna
McLaverty, C., Dinesen, G. E., Eigaard, O. R., Olsen, J., Brooks, M. E., Beukhof, E., Bromhall, K., Egekvist, J., van Denderen, P. D., Kokkalis, A., Reijden, K. J. V. D., Stounberg, J. & Petersen, J. K., 2023, Kgs. Lyngby, Denmark: DTU Aqua. 73 p. (DTU Aqua-rapport; No. 440-2023).

Relating benthic sensitivity and status to spatial distribution and intensity of trawling in the Eastern Mediterranean
Smith, C. J., Papadopoulou, N. K., Maina, I., Kavadas, S., van Denderen, P. D., Katsiaras, N., Reizopoulou, S., Karakassis, I., Tselepides, A. & Tsikopoulou, I., 2023, In: Ecological Indicators. 150, 13 p., 110286.

Setting thresholds for good ecosystem state in marine seabed systems and beyond
Hiddink, J. G., Valanko, S., Delargy, A. J. & van Denderen, P. D., 2023, In: ICES Journal of Marine Science. 80, 4, p. 698-709 12 p., fsad035.

Deriving population scaling rules from individual-level metabolism and life history traits
Denechere, R., van Denderen, P. D. & Andersen, K. H., 2022, In: American Naturalist. 199, 4

Effects of bottom trawling and hypoxia on benthic invertebrate communities
van Denderen, P. D., Törnroos, A., Sciberras, M., Hinz, H., Friedland, R., Lasota, R., Mangano, M. C., Robertson, C., Valanko, S. & Hiddink, J. G., 2022, In: Marine Ecology Progress Series. 694, p. 13-27 15 p.

Working Group on Fisheries Benthic Impact and Trade-offs (WGFBIT; outputs from 2021 meeting)
Pierucci, A., Xuan, A. N., Kraan, C., Bradshaw, C., Garcia, C., Mangano, M. C., Smith, C., van Denderen, D., Connor, D., Punzo, E., de Borger, E., Beukhof, E. D., Di Bona, G., Van Hoey, G., Rava, G., Onay, H., Tsikopoulou, I., Maina, I., Hiddink, J. G. & Gruduls, J. & 26 others, Depestele, J., Egekvist, J., González Irusta , J. M., Burgos, J., Tiano, J., van der Reyden, K., Soetaert, K., Sköld, M., Penna, M., Pulcini, M., Delgado, M., Sciberras, M., Blomqvist, M., Artigas, M. C., Papadopoulou, N., Laffargue, P., Coleman, P., Martinez, R., Vaz, S., Raicevich, S., Valanko, S., Vandevelde, S., van Kooten, T., Braeckman, U., Mobilia, V. & Zupa, W., 2022, Copenhagen, Denmark: International Council for the Exploration of the Sea (ICES). 133 p. (ICES Scientific Report; No. 9, Vol. 4).

Workshop to scope assessment methods to set thresholds (WKBENTH2)
Artigas, M. C., Baldrighi, E., Belin, A., Bell, J., Bendraoui, A., Beukhof, E. D., Blomqvist, M., Boyé, A., Di Lorenzo, B., Di Bona, G., Dinesen, G. E., Downie, A., Drgas, A., Duncombe-Smith, S., Fernández, U., Gavazzi, G. M., Gutierrez, L., Hansen, F., Haubner, N. & Herbon, C. & 40 others, Hiddink, J. G., González Irusta , J. M., Kreutle, A., Kyriakoudi, D., Kenchington, E. L., Laffargue, P., Luff, A., Mackie, T., Maltese, S., Matear, L., Milardi, M., Nguyen, A., Nystrom Sandman, A., Onay, H., Papadopoulou, N., Penna, M., Pierucci, A., Plaza, M., Pulcini, M., Punzo, E., Raicevich, S., Reid, D., Reizopoulou, S., Riva, G., Roux, M.-J., Rowe, O., Mega Rufino, M., Santelli, A., Schartmann, H., Schmitt, P., Schröder, A., Sciberras, M., Smith, C., Thompson, M., Valanko, S., van Denderen, P. D., Reijden, K. J. V. D., Van Hoey, G., Vaz, S. & Wijnhoven, S., 2022, Copenhagen, Denmark: International Council for the Exploration of the Sea (ICES). 99 p. (ICES Scientific Report; No. 70, Vol. 4).

Emergent global biogeography of marine fish food webs
van Denderen, P. D., Petrik, C. M., Stock, C. A. & Andersen, K. H., 2021, In: Global Ecology and Biogeography. 30, 9, p. 1822-1834 13 p.

Harvesting forage fish can prevent fishing-induced population collapses of large piscivorous fish
Soudijn, F. H., Daniël van Denderen, P., Heino, M., Dieckmann, U. & de Roos, A. M., 2021, In: Proceedings of the National Academy of Sciences of the United States of America. 118, 6, 8 p., e1917079118.

Trawl fishing impacts on the status of seabed fauna in diverse regions of the globe
Mazor, T., Pitcher, C. R., Rochester, W., Kaiser, M. J., Hiddink, J. G., Jennings, S., Amoroso, R. O., McConnaughey, R. A., Rijnsdorp, A. D., Parma, A. M., Suuronen, P., Collie, J., Sciberras, M., Atkinson, L. J., Durholtz, D., Ellis, J. R., Bolam, S. G., Schratzberger, M., Couce, E. & Eggleton, J. & 9 others, Garcia, C., Kainge, P., Paulus, S., Kathena, J. N., Gogina, M., van Denderen, P. D., Keller, A. A., Horness, B. H. & Hilborn, R., 2021, In: Fish and Fisheries. 22, 1, p. 72-86 15 p.

Different bottom trawl fisheries have a differential impact on the status of the North Sea seafloor habitats
Rijnsdorp, A. D., Hiddink, J. G., van Denderen, P. D., Hintzen, N. T., Eigaard, O. R., Valanko, S., Bastardie, F., Bolam, S. G., Boulcott, P., Egekvist, J., Garcia, C., van Hoey, G., Jonsson, P., Laffargue, P., Nielsen, J. R., Piet, G. J., Sköld, M. & van Kooten, T., 2020, In: ICES Journal of Marine Science. 77, 5, p. 1772-1786 15 p., fsaa050.

Evaluating impacts of bottom trawling and hypoxia on benthic communities at the local, habitat, and regional scale using a modelling approach
van Denderen, P. D., Bolam, S., Friedland, R., Hiddink, J. G., Noren, K., Rijnsdorp, A. D., Sköld, M., Törnroos, A., Virtanen, E. A. & Valanko, S., 2020, In: ICES Journal of Marine Science. 77, 1, p. 278-289

Global analysis of fish growth rates shows weaker responses to temperature than metabolic predictions
van Denderen, D., Gislason, H., van der Heuvel, J. & Andersen, K. H., 2020, In: Global Ecology and Biogeography. 29, 12 , p. 2203-2213 11 p.

Large pelagic fish are most sensitive to climate change despite pelagification of ocean food webs
Petrik, C. M., Stock, C. A., Andersen, K. H., van Denderen, P. D. & Watson, J. R., 2020, In: Frontiers in Marine Science. 7 , 19 p., 588482.

Reducing fisheries impacts on the seafloor: a bio-economic evaluation of policy strategies for improving sustainability in the Baltic Sea
Bastardie, F., Danto, J., Rufener, M.-C., van Denderen, P. D., Eigaard, O. R., Dinesen, G. E. & Nielsen, J. R., 2020, In: Fisheries Research. 230, 16 p., 105681.

Seasonal strategies in the world's oceans
Visser, A. W., Brun, P., Chakraborty, S., Dencker, T. S., Daniël van Denderen, P., van Gemert, R., van Someren Gréve, H., Heilmann, I., Holm, M. W., Huld Jónasdóttir, S., Kenitz, K. M., Kiørboe, T., Lindegren, M., Mariani, P., Nielsen, L. T., Pancic, M., Payne, M., Pécuchet, L., Schnedler-Meyer, N. A. & Thygesen, U. H. & 2 others, Törnroos, A. & Andersen, K. H., 2020, In: Progress in Oceanography. 189, 16 p., 102466.

Working Group on Fisheries Benthic Impact and Trade-offs: (WGFBIT; outputs from 2019 meeting)
Eigaard, O. R., Hoey, G. V., Kooten, T. V., Valanko, S., van Denderen, P. D., Bastardie, F., Bolam, S., Boulcott, P., Buhl-Mortensen, L., Burgos, J., Coleman, P., Colombelli, A., D'Andrea, L., Depestele, J., Dinesen, G. E., Egekvist, J., Fanelli, E., Fiorentino, D., Hiddink, J. G. & Kazanidis, G. & 11 others, Laffargue, P., Jørgensen, L. L., Mangano, M. C., Martinez, R., Parry, M., Punzo, E., Sala, A., Scarcella, G., Sköld, M., Tassetti, A. N. & Vina-Herbon, C., 2020, International Council for the Exploration of the Sea (ICES). 107 p. (ICES Scientific Report; No. 6, Vol. 2).

Biodiversity-ecosystem functioning relationships in fish communities: biomass is related to evenness and the environment, not to species richness
Maureaud, A., Hodapp, D., van Denderen, P. D., Hillebrand, H., Gislason, H., Dencker, T. S., Beukhof, E. D. & Lindegren, M., 2019, In: Proceedings of the Royal Society B: Biological Sciences. 286, 1906, 20191189.

Bottom-up drivers of global patterns of demersal, forage, and pelagic fishes
Petrik, C. M., Stock, C. A., Andersen, K. H., van Denderen, P. D. & Watson, J., 2019, In: Progress in Oceanography. 176, 102124.

Challenges in quantifying, interpreting and predicting distributional shifts of marine species
Marshall, C. T., Audzijonyte, A., Baudron, A., Champion, C., Fallon, N., Haynie, A. C., Haltuch, M., Townhill, B., van Denderen, P. D., Pecl, G., Pinnegar, J. K., Pinsky, M. L., Spencer, P., Stawitz, C. & Thorsen, J., 2019. 1 p.

Limited impact of big fish mothers for population replenishment
Andersen, K. H., Jacobsen, N. S. & van Denderen, P. D., 2019, In: Canadian Journal of Fisheries and Aquatic Sciences. 76, 3, p. 347-349 3 p.

Vertical feeding strategies and pelagic-benthic energy flows determine fish food-web structure across marine ecosystems
van Denderen, P. D. & Andersen, K. H., 2019. 1 p.

Workshop on scoping of physical pressure layers causing loss of benthic habitats D6C1– methods to operational data products (WKBEDLOSS)
Degraer, S., Valanko, S., van Denderen, P. D., Boulcott, P., Abaza, V., Bouchard, G., Bianchelli, S., Brivois, O., Coleman, P., Connor, D., Grasso, F., Kaikkonen, L., Papadopoulou, N., Eigaard, O. R., Rowe, O., Schmitt, P., Spinu, A. & Van Lancker, V., 2019, International Council for the Exploration of the Sea (ICES). 56 p. (ICES Scientific Report; No. 15, Vol. 1).

Workshop on Tradeoffs Scenarios between the Impact on Seafloor Habitats and Provisions of catch-value (WKTRADE2)
Bastardie, F., Berkenhagen, J., Bitetto, I., Callery, O., Coleman, P., D'Andrea, L., Depestele, J., Frost, H., Goldsborough, D., Hamon, K., Hoff, A., Holah, H., Jørgensen, L. L., Kraak, S., Malvarosa, L., Martinez, R., Norton, D., Orey, S., Rodmell, D. & Russo, T. & 4 others, Schultze, T., Sulanke, E., Valanko, S. & van Denderen, P. D., 2019, International Council for the Exploration of the Sea (ICES). 73 p. (ICES Scientific Report; No. 63, Vol. 1).

Workshop to evaluate and test operational assessment of human activities causing physical disturbance and loss to seabed habitats (MSFD D6 C1, C2 and C4) (WKBEDPRES2)
Boulcott, P., Valanko, S., van Denderen, P. D., Abaza, V., Addington, L., Bennecke, S., Brivois, O., Carter, A., Connor, D., De Backer, A., Egekvist, J., Franceschini, G., Hiddink, J. G., Kenny, A., Krawack, M. L., Laamanen, L., Middelboe, A. L., Muller, H., Papadopoulou, N. & Papathanasiou, V. & 5 others, Smith, C. J., Spinu, A., Stolk, A., Trabucco, B. & Van

Lancker, V., 2019, International Council for the Exploration of the Sea (ICES). 94 p. (ICES Scientific Report; No. 69, Vol. 1).

Estimating sensitivity of seabed habitats to disturbance by bottom trawling based on the longevity of benthic fauna
Rijnsdorp, A. D., Bolam, S. G., Garcia, C., Hiddink, J. G., Hintzen, N. T., van Denderen, P. D. & van Kooten, T., 2018, In: Ecological Applications. 28, 5, p. 1302-1312

Estimating sensitivity of seabed habitats to disturbance by bottom trawling based on the longevity of benthic fauna
Rijnsdorp, A. D., Bolam, S. G., Garcia, C., Hiddink, J. G., Hintzen, N. T., van Denderen, P. D. & Kooten, T. V., 2018.

Fish community structure from productive shelf systems to open ocean environments
van Denderen, P. D., Petrik, C. M., Stock, C. & Andersen, K. H., 2018.

Global patterns in marine predatory fish
van Denderen, P. D., Lindegren, M., MacKenzie, B., Watson, R. & Andersen, K. H., 2018, In: Nature Ecology & Evolution. 2, 1, p. 65-70

Growth of teleost fish across marine regions and ecological lifestyles
van Denderen, P. D., Gislason, H. & Andersen, K. H., 2018.

Spatial distribution of life-history traits and their response to environmental gradients across multiple marine taxa
Pécuchet, L., Reygondeau, G., Cheung, W. W. L., Licandro, P., van Denderen, P. D., Payne, M. R. & Lindegren, M., 2018 , In: Ecosphere (Washington, D.C.). 9, 10, p. e02460

Assessing impact of bottom trawling and hypoxia on seafloor status of the Baltic Sea
van Denderen, P. D., Friedland, R., Hiddink, J. G., Noren, K., Rijnsdorp, A. D., Törnroos, A. & Valanko, S., 2017.

Development of and use of the fisheries impact tool in BalticBOOST
Bastardie, F., van Denderen, P. D., Dorrien, C. V., Milardi, M., Nielsen, J. R., Noren, K., Sköld, M., Valanko, S. & Zweifel, U., 2017, 175 p.

Fisheries Impact Evaluation Tool (FIT) with application to assess the bottom fishing footprint in Western Baltic sea (ICES Subdivisions 22-24)
Bastardie, F., Eigaard, O. R., Nielsen, J. R., Egekvist, J., Hintzen, N., van Denderen, P. D. & Rijnsdorp, A., 2017, 11 p.

Fisheries Impact Evaluation Tool (FIT) with Application to Assess the Bottom Fishing Footprint in Western Baltic Sea (ICES Subdivisions 22-24)
Bastardie, F., Eigaard, O. R., Nielsen, J. R., Egekvist, J., Hintzen, N. T., van Denderen, P. D. & Rijnsdorp, A., 2017, International Council for the Exploration of the Sea (ICES). 25 p.

Fish growth in pelagic and benthic food webs across marine ecosystems
van Denderen, P. D. & Andersen, K. H., 2017.

Global patterns in the productivity of marine fish along parallel pathways of energy
van Denderen, P. D., Lindegren, M., MacKenzie, B., Watson, R. & Andersen, K. H., 2017.

Guidelines for setting environmental targets for benthic habitats
Korpinen, S., Zweifel, U., Bastardie, F., van Denderen, P. D., Hoppe, K., Kauppila, P., Milardi, M., Nielsen, J. R., Noren, K., Nygaard, H., Sköld, M., Valanko, S. & Zettler, M., 2017, HELCOM. 12 p.

Physical loss and damage to seabed habitats
Korpinen, S., Bastardie, F., van Denderen, P. D., Hoppe, K., Jonsson, P., Kauppila, P., Milardi, M., Nielsen, J. R., Nilsson, H., Noren, K., Nygaard, H., Sköld, M., Valanko, S. & Zettler, M., 2017, HELCOM. 44 p.

Global patterns in the feeding ecology of large marine fish
van Denderen, P. D., Lindegren, M., MacKenzie, B., Watson, R. A. & Andersen, K. H., 2016.

Spatial structuration of life history traits: congruence between multiple taxa and environmental drivers in the North Sea
Pécuchet, L., Reygondeau, G., Beukhof, E., Brun, P. G., Cheung, W., Dencker, T. S., van Denderen, P. D., Licandro, P., Törnroos, A., Payne, M. & Lindegren, M., 2016.

Towards a framework for the quantitative assessment of trawling impact on the seabed and benthic ecosystem
Rijnsdorp, A. D., Bastardie, F., Bolam, S. G., Buhl-Mortensen, L., Eigaard, O. R., Hamon, K., Hiddink, J. G., Hintzen, N. T., Ivanovic, A., Kenny, A., Laffargue , A., Nielsen, J. R., O'Neill, F. G., Polet, H., Sala, A., Smith, C., van Denderen, P. D., Kooten, T. V. & Zenging, M., 2016, In: ICES Journal of Marine Science. 73, Suppl. 1, p. 127-138

Using marine reserves to manage impact of bottom trawl fisheries requires consideration of benthic food-web interactions
van Denderen, P. D., Rijnsdorp, A. D. & van Kooten, T., 2016, In: Ecological Applications. 26, 7, p. 2302-2310

Similar effects of bottom trawling and natural disturbance on composition and function of benthic communities across habitats
van Denderen, P. D., Bolam, S. G., Hiddink, J. G., Jennings, S., Kenny, A., Rijnsdorp, A. D. & van Kooten, T., 2015, In: Marine Ecology - Progress Series. 541, p. 31-43

Activities

Vertical feeding strategies and pelagic-benthic energy flows determine fish food-web structure across marine ecosystems
van Denderen, P. D. (Speaker) & Andersen, K. H. (Other)
19 Aug 2019

Challenges in quantifying, interpreting and predicting distributional shifts of marine species
Marshall, C. T. (Guest lecturer), Thorson, J. T. (Guest lecturer), Baudron, A. (Guest lecturer), Pinsky, M. L. (Guest lecturer), Champion, C. (Guest lecturer), Pecl, G. (Guest lecturer), van Denderen, P. D. (Guest lecturer), Townsend, B. (Guest lecturer), Spencer, P. (Guest lecturer), Haltuch, M. (Guest lecturer) & Morrongiello, J. (Guest lecturer)
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