Activities and outputs - BIOSECURITY AND BIOFOULING

Current and recent projects

Development of a marine biosecurity monitoring and management framework for the Waikato Coastal Marine Area. Client: Waikato Regional Council

Biosecurity risks and mitigation associated with the Gippsland Basin Decommissioning Campaign. Client: Esso Australia Resources Pty. Ltd.

Assessment of the effectiveness of IMO Biofouling Guidelines in preventing the spread of invasive marine species. Client: Norwegian Ministry of Climate and Environment

Dispersal and fate of biofouling material arising during offshore-based in-water hull grooming and cleaning. Client: Shipshave AS, Norway

Development of a biosecurity management plan for Australian and global offshore industry operations. Client: Woodside Energy Ltd, Australia

Characterising biosecurity risks to the Red Sea and Persian Gulf regions via the global maritime shipping network. Client: King Abdullah University of Science and Technology

Recent technical reports

Floerl O. and Zaiko A. (2024). Network-based characterisation of marine biosecurity risks to the Red Sea and Arabian Gulf. Research report for Red Sea Research Center (RSRC), King Abdullah University of Science and Technology, Saudi Arabia.

Floerl O., Coutts A. (2024). Potential for Gippsland Basin Decommissioning Campaign to spread Invasive Marine Species. Report prepared by Biofouling Solutions and LWP for Esso Australia Resources Pty Ltd.

Piarulli S., Hakvåg S., Martins S., Oftedal M., Andrews A., Bloecher N., Floerl O. (2024). Assessment of the effectiveness of IMO Biofouling Guidelines in preventing the spread of invasive marine species (draft). Report prepared for the Norwegian Ministry of Climate and Environment.

Floerl O. (2024). Considerations around dispersal of biofouling material released during in-transit hull cleaning in offshore environments. Report prepared for Shipshave AS, Norway.

Coutts A., Floerl O. (2024) Invasive Species Management Plan for Australian and global offshore industry operations. Prepared by Biofouling Solutions and LWP for Woodside Energy Ltd, Australia.

Zaiko A., Li M., Floerl O., Lenzen M. (2024). The development and application of an MRIO model to inform the inventory of potential NIS in the Red Sea and Gulf of Aden. Research report for Red Sea Research Center (RSRC), King Abdullah University of Science and Technology, Saudi Arabia.

Recent science publications

Hilliam K, Treml E, Floerl O. (2024). Recreational vessel networks reveal potential hotspots for marine pest introduction and spread. *Journal of Applied Ecology*, p.171162.

Bloecher N, Broch OJ, Davies EJ, Pedersen MO and Floerl O (2024). Catch my drift? Between-farm dispersal of biofouling waste from salmon pen net cleaning: Potential risks for fish health. *Science of the Total Environment*, 928, p.172464.

Hilliam K, Floerl O, Treml E. (2024). Priorities for improving predictions of vessel-mediated marine invasions. *Science of the Total Environment*, p.171162.

Tzeng M.W., Floerl L., Schattschneider J., Floerl O., Jeffs A., Zaiko A. (2024). Quantifying the probability of a successful marine bioinvasion due to source-destination risk factors. *Ecology and Evolution* 14: e10984.

Bloecher N, Østevik L, Floerl O, Sivertsgård R, Aas M, Kvaestad B, Ribičić D and Netzer R (2024). Evaluation of novel PCR-based method to assess gill injuries in fish caused by the cnidarian Ectopleura larynx. *Aquaculture International*, pp.1-15.