

HOUSE CONCURRENT RESOLUTION

URGING STATE AGENCIES TO EVALUATE, COLLABORATE, AND IMPLEMENT BEST MANAGEMENT PRACTICES, TECHNOLOGIES, AND REGULATIONS TO ADDRESS VESSEL BIOFOULING IN HAWAII HARBORS.

WHEREAS, biofouling, or biological fouling, is the 1 accumulation of microorganisms, plants, algae, or animals on a 2 wetted surface, such as the hull of a shipping vessel; and 3 4 WHEREAS, biofouling begins to accumulate on submerged 5 portions of vessels within a few weeks, and this layer of 6 microfouling facilitates the growth of larger fouling organisms 7 8 that can decrease the efficiency and safe operation of a vessel; 9 and 10 WHEREAS, studies have shown that biofouling on shipping 11 vessels is an important vector of aquatic invasive species 12 transfer, which, if established in new ecosystems, may pose 13 threats to the environment, human health, property, and 14 resources; and 15 16 WHEREAS, the Hawaii Interagency Biosecurity Plan 2017-2027 17 recognizes that up to seventy-eight percent of Hawaii's non-18 native marine algae and invertebrate species can be attributed 19 to vessel biofouling; and 20 21 WHEREAS, the Hawaii Interagency Biosecurity Plan 2017-2027 22 calls on the Department of Land and Natural Resources, 23 Department of Agriculture, Department of Health, and Department 24 of Transportation to develop hull husbandry practices and 25 proactive hull cleaning standards for nonmilitary vessels to 26 minimize movement of non-native aquatic organisms into Hawaii's 27 ports, harbors, and marinas; and 28 29



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WHEREAS, section 187A-32, Hawaii Revised Statutes, 1 designates the Department of Land and Natural Resources as the 2 lead state agency for preventing the introduction of non-native 3 4 aquatic organisms through the regulation of hull fouling 5 organisms; and 6 7 WHEREAS, Chapter 342D, Hawaii Revised Statutes, tasks the Department of Health with administering water pollution control 8 9 regulations and enforcing water guality standards; and 10 WHEREAS, section 266-1, Hawaii Revised Statutes, provides 11 that all vessels and shipping within the State's commercial 12 harbors and roadsteads are under the care and control of the 13 Department of Transportation; and 14 15 WHEREAS, the maritime industry is an important component of 16 the State's economy; and 17 18 19 WHEREAS, a high level of coordination between various state 20 agencies will be required to develop and implement safe and effective measures for management of biofouling in Hawaii's 21 22 harbors; and 23 WHEREAS, commercial shipping companies have made great 24 efforts to adopt voluntary best management practices to reduce 25 vessel biofouling, including the use of less toxic protective 26 hull coatings and by cleaning and reapplying coatings within 27 28 recommended timeframes; and 29 30 WHEREAS, the Alliance for Coastal Technologies and the Maritime Environmental Resource Center have developed a program 31 32 for testing full-capture biofouling removal technologies and 33 have formally invited participation from Hawaii's agencies in 34 its testing programs; and 35 36 WHEREAS, the State has been requested to represent isolated 37 tropical island climates for this program; and 38 WHEREAS, Chapter 194, Hawaii Revised Statutes, authorizes 39 the Hawaii Invasive Species Council to advise and coordinate 40 41 invasive species-related efforts with and between state,

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federal, international, and private programs, and to coordinate 1 the State's position with regard to invasive species; and 2 3 WHEREAS, the Hawaii Invasive Species Council Resolution 4 18-1 supports the State's involvement in the Alliance for 5 Coastal Technologies and Maritime Environmental Resource 6 Center's program for the assessment and evaluation of biofouling 7 8 management technologies; and 9 WHEREAS, the Hawaii Invasive Species Council Resolution 10 18-1 further urges state agencies to cooperate in the 11 development and implementation of an in-water cleaning program 12 in Hawaii's harbors; now, therefore, 13 14 BE IT RESOLVED by the House of Representatives of the 15 Twenty-ninth Legislature of the State of Hawaii, Regular Session 16 of 2018, the Senate concurring, that state agencies are urged to 17 work together in planning for Hawaii's involvement in the 18 Alliance for Coastal Technologies and Maritime Environmental 19 Resource Center's program for the assessment and evaluation of 20 21 biofouling management technologies; and 22 BE IT FURTHER RESOLVED that state agencies are urged to 23 review the risks of the non-abrasive cleaning of ship hull 24 microfouling and create processes and conditions, such as best 25 management practices, to allow certain vessels with low-risk 26 hull coatings or paint to apply for an in-water cleaning permit; 27 28 and 29 BE IT FURTHER RESOLVED that state agencies are urged to 30 develop and implement a measurable and enforceable program to 31 address biofouling, to launch with a voluntary compliance phase-32 in period by December 31, 2019, in accordance with the Hawaii 33 Interagency Biosecurity Plan 2017-2027; and 34 35



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BE IT FURTHER RESOLVED that certified copies of this
Concurrent Resolution be transmitted to the Governor and the
administrative head of each member of the Hawaii Invasive
Species Council.

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