

CORPS HARMFUL ALGAL BLOOM (HAB) 2019 INVESTIGATION ACTIVITIES

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- WRDA 2018 authorized USACE Engineer R&D Center (ERDC) under the Aquatic Nuisance Research Program, to identify and develop improved, scalable strategies for early detection, prevention and management techniques to reduce occurrence and effects of HABs; year 1 appropriations received thus far.
- ERDC solicited input from FDEP, SFWMD, USGS, Jacksonville District (CESAJ) technical staff, to select HAB research projects.
- Four efforts selected match WRDA authorization.
 - 1) **LEARN**: Investigation of Lake O bloom dynamics. USGS lead with Florida university partners. Goal is to better understand of factors causing blooms/crashes. Want to find ways to reduce/prevent blooms.
 - 2) **DETECT**: Development of remote-sensing tools for early detection based on water quality indicators. ERDC lead with University partner
 - 3) **TREAT/PREVENT**: Field trials of peroxide-based algaecides for HAB management. ERDC lead with CESAJ support.
 - 4) **REMOVE**: Investigation of algal biomass harvesting/disposal methods that can be scaled up. ERDC lead with contractor and CESAJ support.



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