The Florida Senate
Local Funding Initiative Request
Fiscal Year 2020-2021

LFIR # 2171

1. **Project Title** Florida Coastal Mapping Program - Tampa Bay Area

2. **Senate Sponsor** Ed Hooper

3. **Date of Request** 12/17/2019

4. **Project/Program Description**

Develop a prioritization and strategy for providing new, high-resolution data for all of Florida's coastal waters from the shore to the shelf edge. The new, high-resolution data coverage of the seafloor will support numerous applications including updating coastal state maps, storm surge and coastal flood inundation modeling, evacuation route planning, identifying coastal hazards, while documenting infrastructure and beach conditions.

The recipient of the funds is the Division of Emergency Management to competitively procure services to the most technically qualified firm.

5. **State Agency to receive requested funds** Executive Office of the Governor

State Agency contacted? (•) Yes ( ) No

6. **Amount of the Nonrecurring Request for Fiscal Year 2020-2021**

Type of Funding	Amount
Operations	9,836,000
Fixed Capital Outlay	000
Total State Funds Requested	9,836,000

7. **Total Project Cost for Fiscal Year 2020-2021 (including matching funds available for this project)**

Type of Funding	Amount	Percentage
Total State Funds Requested (from question #6)	9836000	100.0 %
Matching Funds		
Federal	00	0 %
State (excluding the amount of this request)	00	0 %
Local	00	0 %
Other	00	0 %
Total Project Costs for Fiscal Year 2020-2021	9,836,000	100 %

8. **Has this project previously received state funding?** ( ) Yes (•) No

If yes, provide the most recent instance:

Fiscal Year (yyyy-yy)	Amount		Specific Appropriation #	Vetoed
	Recurring	Nonrecurring		

9. **Is future-year funding likely to be requested?** ( ) Yes (•) No

If yes, indicate nonrecurring amount per year.

10. **Details on how the requested state funds will be expended**

Spending Category	Description	Amount
Administrative Costs:		
Executive Director/Project Head Salary and Benefits		
Other Salary and Benefits		
Expense/Equipment/ Travel/Supplies/Other		
Consultants/Contracted Services/Study	The initial project area for the Florida Coastal Mapping Program identified is along a portion of the southwest coast, centered on the Tampa Bay area. The project will be acquired and completed within one year. The approach taken for the proposal is to maximize survey coverage with the topo-bathy lidar followed by covering the remaining high priority area with a vessel and acoustic mulitbeam survey. Topo-bathy lidar may survey depths to approximately 30 meters given the average water clarity.	9,836,000
Operational Costs: Other		
Salary and Benefits		
Expense/Equipment/ Travel/Supplies/Other		
Consultants/Contracted Services/Study		
Fixed Capital Construction/Major Renovation:		
Construction/Renovation/ Land/Planning Engineering		
Total State Funds Requested (must equal total from question #6)		9,836,000

11. **Program Performance**

a. What specific purpose or goal will be achieved by the funds requested?

The new, high-resolution data coverage of the seafloor will support numerous applications including infrastructure, navigation, benthic habitat mapping, restoration projects, resource management, emergency response, and coastal resiliency and hazards. Rather than multiple data collections performed by various agencies, a comprehensive and coordinated approach for Florida will increase efficiency, reduce costs, and benefit multiple stakeholders.

b. What activities and services will be provided to meet the intended purpose of these funds?

The survey consists of three sections: 1) topo-bathy lidar from Anclote Key to Sanibel Island, extending 1,500 feet over the beach to 3,000 feet offshore; 2) bathymetry collected with airborne lidar in the vicinity of Tampa Bay, extending offshore to a depth of 30 meters; and 3) bathymetry collected with a survey boat and multibeam fathometer in the vicinity of Tampa Bay. The coastline in this area has not been surveyed with topo-bathy lidar since early 2016, which is pre-Hurricanes Irma and Michael. While these storms did not directly strike the area, they passed by and with other non-tropical weather events over the years, the shallow region of the coast has changed. Topo-bathy lidar data will be collected from Anclote Key to Sanibel Island using survey specifications used by the Joint Airborne Lidar Bathymetry Technical Center of Expertise.

c. What direct services will be provided to citizens by the appropriation project?

Our abilities and reliance upon regional scale computer models to accurately predict future conditions based on natural and man-made changes has advanced significantly. Examples of model uses and predictions include storm-based coastal erosion and structure damage, impacts to submerged vegetation and established wetlands, run off and flooding, longer term geomorphic change, loss/gain of critical fish habitat, navigation channel shoaling, and many others. Results of these predictions are used daily across many state agencies to inform critical decisions ranging from developing future budget needs to taking specific actions to protect the public. Without these models, risks and costs would significantly increase. Based on results of the 2017 Florida Lidar Assessment this proposal supports four major state business uses with many mission critical activities through the primary survey products and secondary derived products. The assessment also identified an ROI of 6.10:1.

d. Who is the target population served by this project? How many individuals are expected to be served?

The target population will be those living on the coastline and the near shore environment. The National Oceanic and Atmospheric Administration estimates that 40% of the US population lives in coastal shoreline counties, with over 14 million coastal residents in Florida. This data can be used as the basis to improve disaster preparation, by predicting the severity of coastal flooding during storm events.

e. What is the expected benefit or outcome of this project? What is the methodology by which this outcome will be measured?

The project will provide multiple benefits to the state: Coastal Zone Management – beach and dune erosion modeling, hurricane storm surge modeling leading to evacuation zone planning, coastal hazard modeling and mapping, coastal hazard mitigation, tsunami modeling, oil spill modeling, and coastal resiliency. Natural Resource Conservation - engineering and modeling of biological and ecological systems and quantification of critical habitat and ecosystem change. Wildlife and Habitat Management - conservation planning for marine sanctuaries, conservation of critical habitats, and management of diverse coral reef and coral communities, marine mammals, protected fish species, and trust resources. Marine Navigation and Safety - bathymetric measurements of near-shore submerged coastal topography, identification of hazards to navigation in ports, navigable waterways including submerged derelict vessels, sediment management at coastal navigation projects, and precision marine navigation.

f. What are the suggested penalties that the contracting agency may consider in addition to its standard penalties for failing to meet deliverables or performance measures provided for in the contract?

Full restitution of funds.

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12. **The owners of the facility to receive, directly or indirectly, any fixed capital outlay funding. Include the relationship between the owners of the facility and the entity.**

N/A

13. **Requestor Contact Information**

a. First Name: Tom Last Name: Murphy

b. Organization: Woolpert, Inc.

c. E-mail Address: tom.murphy@woolpert.com

d. Phone Number: (305)753-3834 Ext.

14. **Recipient Contact Information**

a. Organization: Division of Emergency Management

b. Municipality and County: Statewide

c. Organization Type

- ○ For-profit Entity
- ○ Non-Profit 501(c) (3)
- ○ Non-Profit 501(c) (4)
- ○ Local Entity
- ○ University or College
- ◉ Other (please specify): State agency

d. First Name: Tom Last Name: Murphy

e. E-mail Address: Tom.Murphy@woolpert.com

f. Phone Number: (305)7533834

15. **Lobbyist Contact Information**

a. Name: Ronald L. Book

b. Firm Name: Ronald L. Book, P.A.

c. E-mail Address: ron@rlbookpa.com

d. Phone Number: (850)2243427 Ext.