JUL 28 2016

Daniela Di Iorio
James B. Kelly
Department of Marine Sciences
University of Georgia
Athens, GA 30602-3636

Re: Letter of Acknowledgement (LOA) for Current Research within Coastal Marshlands Protection Act (CMPA) Jurisdiction, Marsh Landing Dock, Duplin River, Sapelo Island, McIntosh County, Georgia

Dear Ms. Di Iorio,

This Letter of Acknowledgment (LOA) is in response to your request received June 8, 2016 for authorization to perform cross-shore current research within jurisdiction of the Coastal Marshlands Protection Act (CMPA) on Sapelo Island. According to your request, a Horizontal Acoustic Doppler Current Profiler (HADCP) will be mounted with bolts to an existing mooring dolphin. Power will be supplied by a cable originating from the existing boat house. Two people will access the equipment by boat once a month. The HADCP will be installed in August 2016.

The Department acknowledges the current research as described in the submitted request and has no objection to the action provided Best Management Practices (BMP's) are used. Any deviations from the submitted project scope and description may require further review. Upon completion of the proposed project all research material must be removed from jurisdiction and disposed of at an appropriate upland disposal area.

This LOA does not relieve you from obtaining any other required federal, state, or local permits. Tidal water bottoms and marshlands of coastal Georgia are public trust lands controlled by the State, except for such lands where a validated Crown Grant or State Grant exists. If you have any questions you may contact Skye Stockel at (912) 262-3127.

Sincerely,

[Signature]

Karl Burgess
Program Manager
Marsh and Shore Management Program

Enclosures: Description and Location Map
File: LOP20160154
Hello Skye,

I have attached the Research Request that I spoke to you about awhile back. It is to deploy an HADCP at Marsh Landing to measure water flow in the Duplin River. Please let me know if you need anymore info. Thanks!

Jacob Shalack
Sapelo Field Research Coordinator
Georgia Coastal Ecosystems LTER Manager
University of Georgia Marine Institute
Sapelo Island, GA 31327
GCE Office (912) 485-2204
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shalack@uga.edu
Sapelo Research Application Form

Research Application ID: GCE-77-2016 (submitted: 05/26/2016, status: approved)

Provide a brief title for web display

Cross-shore current measurements of the lower Duplin River

Investigator Information

On Island Sponsor: [GCE] SINERR UGAMI GADNR

Principal Investigator: Daniela Di Iorio

Home Institution: University of Georgia

Award Information: (not specified)

Mailing Address: Dept. of Marine Sciences
University of Georgia
Athens, Georgia 30602-3636

Co-investigators: James B. Kelly (University of Georgia)

Briefly describe the project goals and methodology

We intend to operate a Horizontal Acoustic Doppler Current Profiler (HADCP). This instrument will collect real-time time series data of the cross-shore currents near the mouth of the Duplin River in an effort to measure the exchange between the Duplin and Doboy Sound.

Where will the project be located?

The instrument will be mounted on a profiling mount on the north dolphin pier near the Marsh Landing Dock in the Duplin River. The GPS coordinates of the pier are approximately: 31°25'5.70"N; 81°17'45.15"W

How will you provide GPS coordinates for study sites?

GPS coordinates are listed in the project location field

What are the expected start and end dates of the project?

Start Date: 08/01/2016 End Date: (ongoing)
How many people will access the site and at what frequency?

Two people will access the site once per month.

Please list keywords (as many as are appropriate) that describe your project:

**Habitat type:** water column/neritic  
**Measurements:** water flow, temperature  
**Study theme:** physical oceanography  
**Likely long-term impacts of the study:** no long-term impacts

What equipment will be deployed in the field?

The instrument is a Horizontal Acoustic Doppler Current Profiler (HADCP). It will be powered by a cable running from the Marsh Landing boat house to the north dolphin pier; part of the cable will run in air and the other part in water. The cable will run along (underneath) the length of the dock then run along the river bottom to the pier. The instrument has the power requirements of: 48V @ ~1.1A.

Will plants or animals be collected as part of this study?

N/A

What are the likely impacts of the project on the site?

There will be no impacts to the site, all equipment is removable (from the pier) with bolt-on components.

Will the project design include boardwalks? If not, explain why not.

There are no boardwalks required, the pier is in the river ~34m from the shore, it is accessible by small boat.

How long will impacts persist after the research is concluded?

NA

What GCE-LTER research objective will this study address?

1A.5 Measure exchange between the Duplin River and Doboy Sound
Fig 1. Google Earth image of site.

Fig 2. Dolphin pilings on which the rail and instrument will be mounted. The rail will be on the front left piling.
Fig 3. An example of what the rail system and mount will look like.