

Licensee: University of Florida  
License Date: July 24, 2019  
System Name: SwampSat II  
NOAA License Number: UF-2019-L1

To: NOAA / Commercial Remote Sensing Regulatory Affairs  
Re: Public summary

- (1) The name, mailing address and telephone number of the licensee and any affiliates or subsidiaries

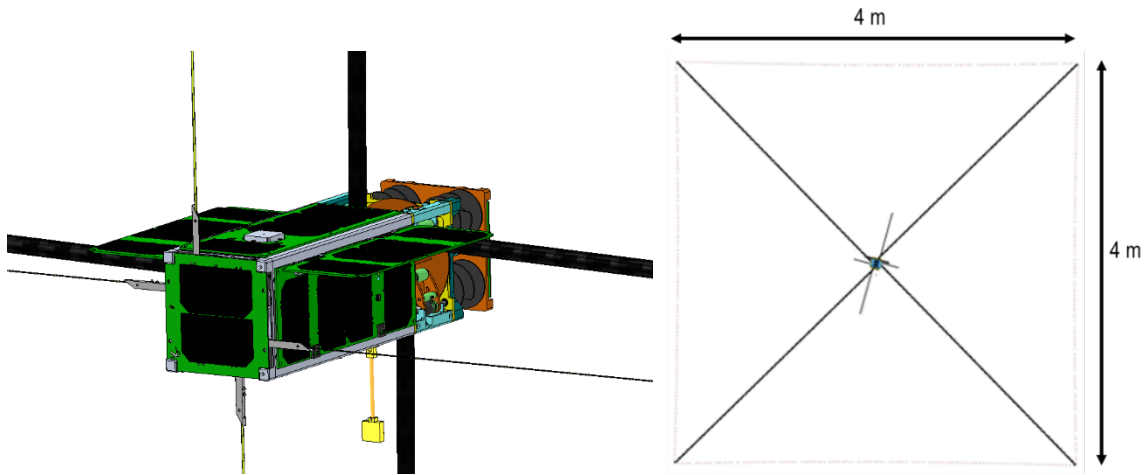
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On behalf of

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- (2) A general description of the system, its orbit(s) and the type of data to be acquired

SwampSat II is a single 3U CubeSat with an overall dimensions of 10 cm x 10 cm x 34 cm and a total mass of approximately 4 kg that is developed at the University of Florida. SwampSat II's mission is to characterize very low frequency (VLF) wave propagation in the upper ionosphere by using a 16-meter square loop antenna (see Figure 1). The satellite is manifested for launch as a secondary payload aboard the Northrop Grumman's Cygnus NG-12, scheduled for an October 19, 2019 launch from Wallops Island, VA. It will be inserted into a 51.6 degrees inclined circular orbit (perigee and apogee between 465 - 500 km) through the NanoRacks' E-NRCS satellite deployment container roughly after three months from launch (January 2020). Once in orbit and after checkouts, the satellite will deploy the payload antenna and begin collecting VLF data. A camera is used to verify the deployment of the payload antenna and the images, science data, and satellite health are downlinked. Atmospheric friction will slow the satellite and reduce the altitude of the orbit, until de-orbiting occurs approximately two years after launch.



**Figure 1 SwampSat II**

(3) The name and address upon whom service of all documents may be made.

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