

Description

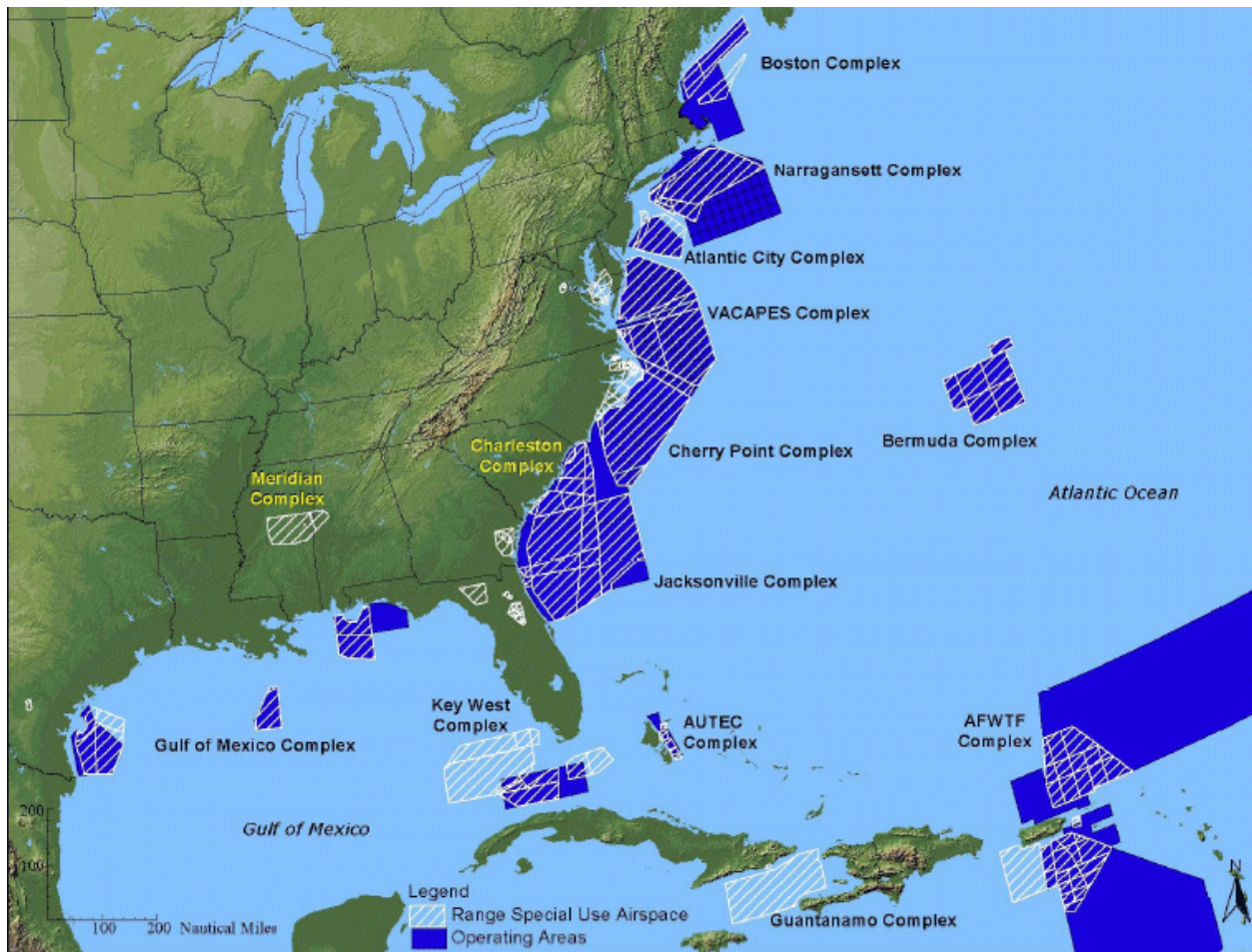
Provide a beyond line of sight communication capability to the Littoral Class Ship (LCS) for the US Navy.

Objective

Develop and demonstrate to the Department of Defense (DOD) a prototype communications POD for VTUAVs, UAV, Rotary wing, and Fixed Wing aircraft to address customer's problem.

Experiment

The test will have One LCS ship operating off the coast of Virginia in the US naval test area, one MH60 helicopter hovering / stationary position and one remote off board vehicle (not submerged) transmitting test data to test the maximum data rates. Virginia Capes Operating Area (VACAPES OPAREA) is a surface and subsurface operating area off the Virginia and North Carolina coasts that is design for various types of training exercises and equipment testing



The purpose of the STA is to have the proper permissions and acknowledgement from the proper federal and local authorities while the test is being conducted.

The sea platforms will generally be off the shore more than 5 miles and the air platform will be in operation from 5 to 90 miles off shore at an altitude of 100 to 10,000 feet. However, Land based testing may be needed to verify that the relay link is fully operational. The land based test may be conducted at the US Naval base of operations Norfolk Va. for system integrity.

Frequencies for this test are; Band 1: 2245 MHz to 2275 MHz and Band 2: 2360 MHz to 2390 MHz with a maximum output power of 20 Watts send IP base data on an OFDM waveform with a QAM64 digital modulation scheme.