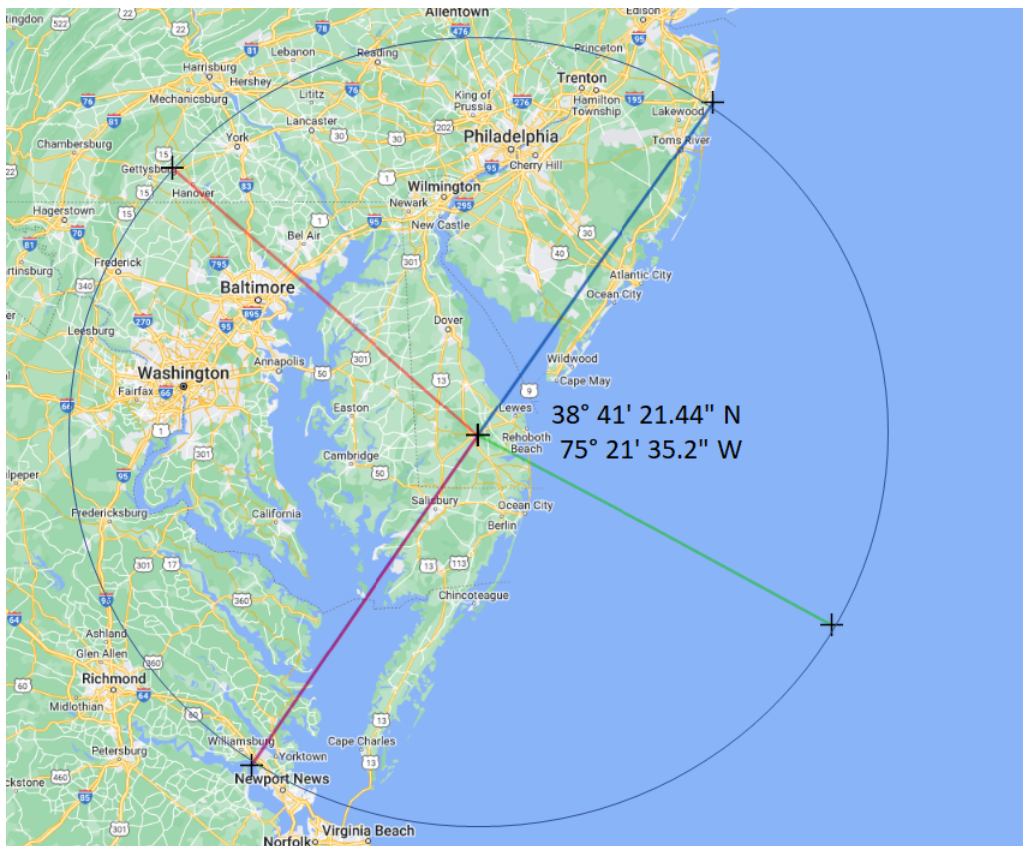


System Description and Antenna Information

The purpose of this operation is to test and verify microwave band communication functionality employing data links. This is a bi-directional, air to ground, microwave Tx/Rx communications system designed to operate over a wide bandwidth. Testing will be done using the requested fixed frequencies. The airborne system will point to a fixed station on the ground; the ground station will employ direction finding (DF) to find the airborne source and adjust pointing to track the airborne platform. Airborne operations will be over the area depicted below, centered on the Georgetown DE airport, 38-41-21 N & 75-21-35 W, with a radius of operation of 200 kilometers. Maximum altitude will be 37,000 feet MSL.



Antenna Information: The antenna for Tx/Rx is manufactured by Northrop Grumman, Model ENG320K520, with 34.58 dBi gain and main a beamwidth of 5.5 degrees. This antenna will use dual polarization, H and V. The pointing of the fixed location ground station antenna is software controlled, with the ground station responding to and tracking the airborne platform signal.

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