




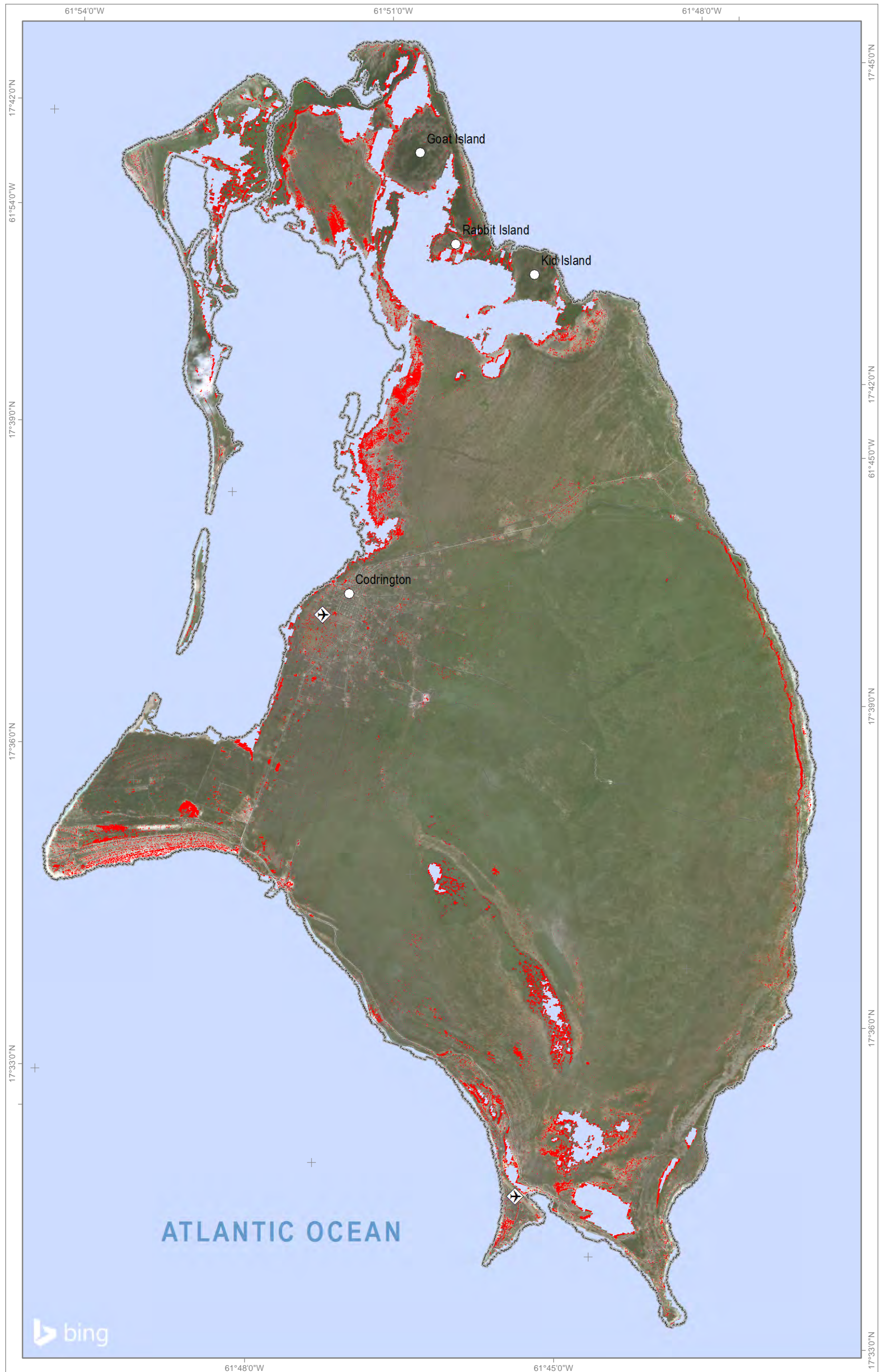


Satellite Detected Waters in Barbuda Island

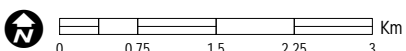
This map illustrates the satellite-detected surface waters in Barbuda Island (Antigua and Barbuda) as observed from the Radarsat-2 image acquired on 11 September 2017, following the landfall of tropical cyclone IRMA-17 on 06 September 2017. Within the analyzed area, the increase of surface waters is about 34%. It is likely that flood waters have been systematically underestimated along highly vegetated areas and within built-up urban areas because of the special characteristics of the used satellite data. This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to UNITAR - UNOSAT.

Legend

-  Village / Town
-  Minor airport / Airfield
-  Road
-  Reference surface waters
-  Satellite detected waters (11 September 2017)



Map Scale for A3: 1:72,500



Analysis conducted with ArcGIS v10.4.1

Coordinate System: WGS 1984 UTM Zone 20N
 Projection: Transverse Mercator
 Datum: WGS 1984
 Units: Meter

Satellite Data (Post): Radarsat-2
 Imagery Dates: 11 September 2017
 Resolution: 1.5 m
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 Source: CSA

Reference water: Global Surface Water / Pekel et al., Nature 540, 418-422 (2016)
 Baseline Data: Open Street Map, GADM
 Analysis: UNITAR - UNOSAT
 Production: UNITAR - UNOSAT

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