








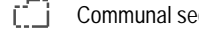




Satellite Detected Water Extent in Cavayillon Commune, Sud Department, Haiti

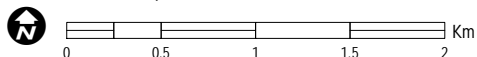
This map illustrates the satellite-detected water extent in Cavayillon commune in Sud Department (Haiti) located in the southwestern part of Haiti. The UNITAR-UNOSAT analysis used a Sentinel-1 satellite image acquired on the 26 April 2017 and a Radarsat-2 image acquired on the 17 May 2016 and could observe areas with standing waters mainly affecting agricultural fields. The UNITAR-UNOSAT analysis identified 566 ha of flooded areas, which cover 7% of this map's extent of ~8500 ha of land. The increase of waters within the analyzed zone is about 550%. ~100 ha of surface waters were observed the 17 May 2016 and reached ~666 ha the 26 April 2017. About 6km of roads, mainly local roads are potentially affected. It is likely that flood waters have been systematically underestimated along highly vegetated areas along main river banks and within built-up urban areas because of the special characteristics of the satellite data used. This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to UNITAR UNOSAT.

Commune / Communal Section	Analyzed communal section area (ha)	Flood water area (ha)	%
Cavayillon			
Boileau	3,347	143	4%
Martineau	4,130	416	10%
Les Cayes			
Doulmier	556	7	1%
St. Louis du Sud			
Solon	443	0	0%
Maniche			
Maniche	21	0	0%
Total	8,498	566	7%

Legend

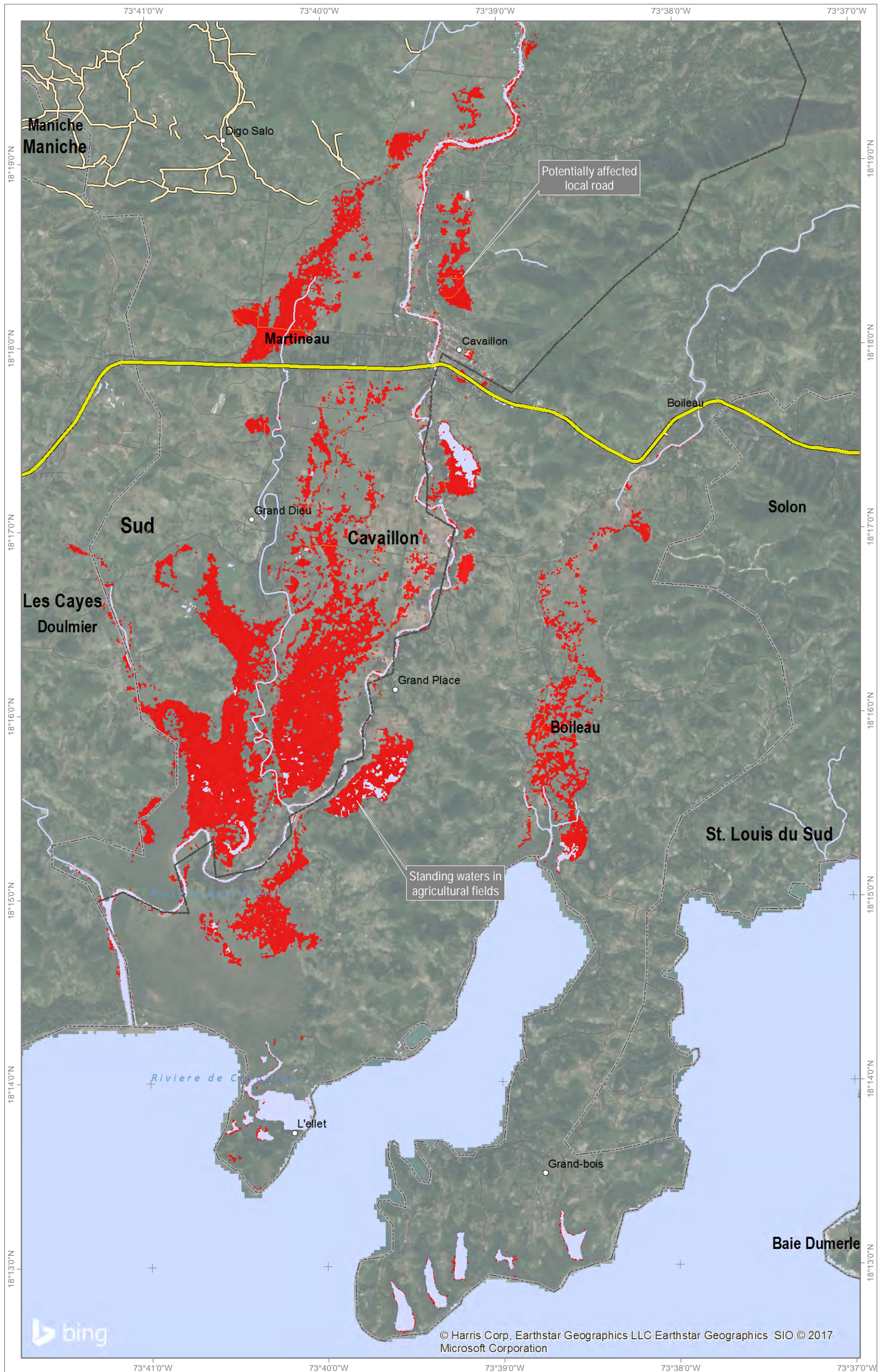
-  Town/ Village
-  Primary road
-  Secondary road
-  Local road
-  Potentially affected local road
-  River
-  Commune boundary
-  Communal section boundary
-  Satellite detected water extent: 17 May 2016
-  Satellite detected water extent: 26 April 2017

Map Scale for A3: 1:40,000



Analysis conducted with ArcGIS v10.4

Coordinate System: WGS 1984 UTM Zone 18N
Projection: Transverse Mercator
Datum: WGS 1984
Units: Meter



Satellite Data: Sentinel-1
Imagery Date: 26 April 2017
Resolution: 10 m
Copyright: Copernicus (2017)
Source: ESA
Satellite Data: Radarsat-2
Imagery Date: 17 May 2016

Resolution: 6 m
Copyright: MacDonald, Dewitter and Associates, Ltd. (2017)
Source: MDA
Baseline Data : CNIGS - Open Street Map
Analysis : UNITAR - UNOSAT
Production: UNITAR - UNOSAT



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