



unitar
United Nations Institute for Training and Research

UNOSAT

*Tropical Cyclone
& Flooding*

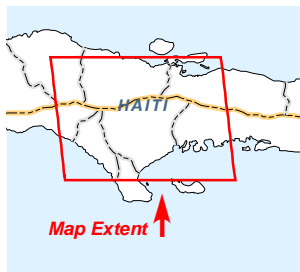


Production Date: 06/11/2012

Version 1.0

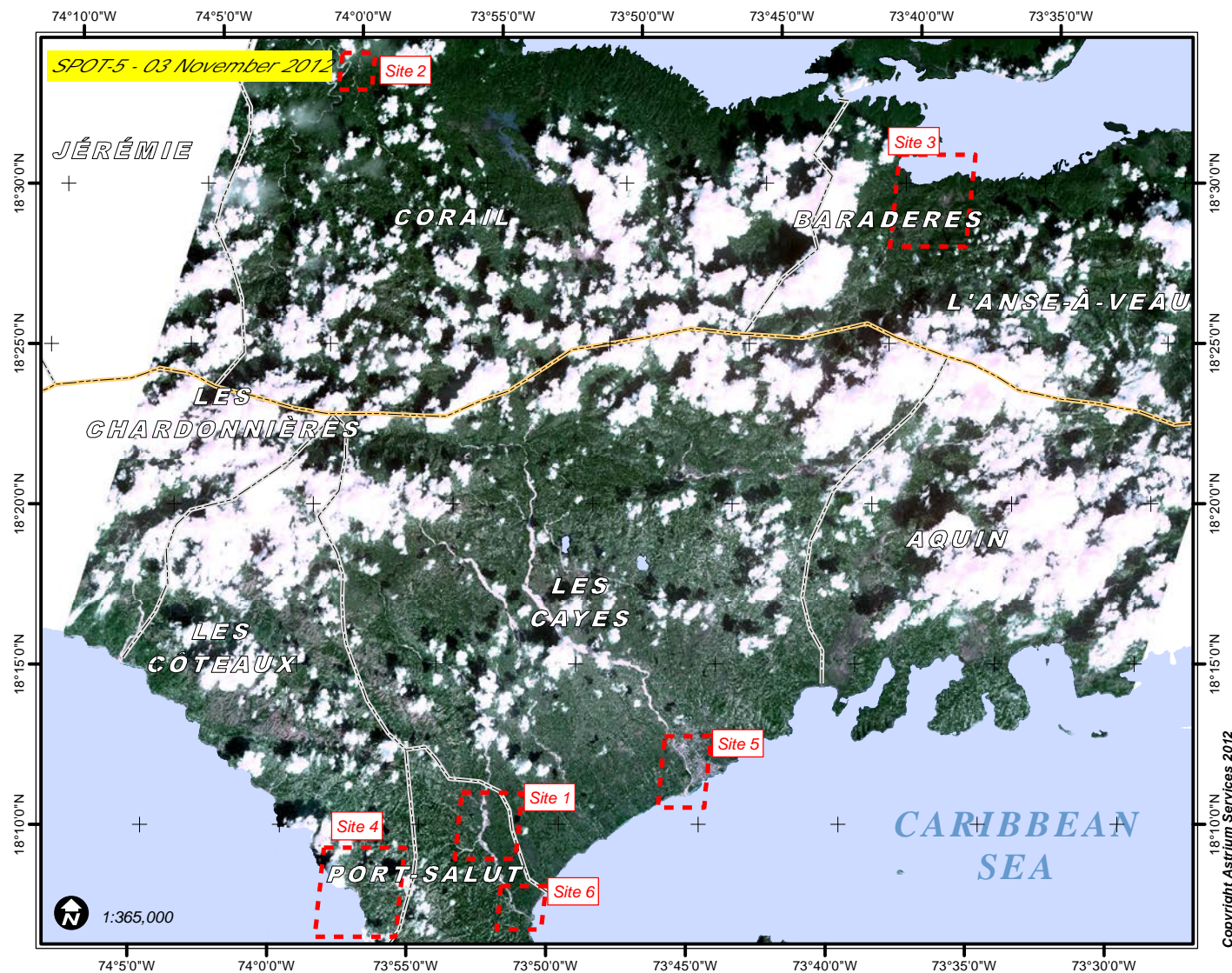
Activation Number:

TC-2012-000180-HTI



SATELLITE ASSESSMENT OVER CORAIL, BARADÈRES & LES CAYES, HAITI AFTER HURRICANE SANDY

Analysis based on SPOT-5 satellite data acquired on 03 November 2012



Baradères and Les Cayes districts on 03 November 2012 - Red boxes indicate areas featuring in this report.

Center Coordinates: 73°49'10.36"W 18°20'24.74"N

UNITAR / UNOSAT

unosat@unitar.org

Palais des Nations,

Geneva, Switzerland

T: +41 22 767 4020

24/7 hotline: +41 76 487 4998

www.unitar.org/unosat

Satellite Data (1):
SPOT-5
Imagery Date:
03/11/2012
Resolution: 10m
Copyright: Atrium
Services
Source: SPOTIMAGE

Road Data : Google
Map Maker / OSM /
ESRI
Other Data: USGS,
UNCS, NASA, NGA
Analysis : UNITAR /
UNOSAT
Production: UNITAR /
UNOSAT

Disaster coverage by the International Charter 'Space and Major Disasters'. For more information on the Charter, which is about assisting the disaster relief organizations with multi-satellite data and information, visit www.disasterscharter.org



The depiction and use of boundaries, geographic names and related data shown here are not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR), providing satellite imagery and related geographic information, research and analysis to UN humanitarian & development agencies & their implementing partners.

This work by UNITAR/UNOSAT is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 3.0 Unported License.



unitar

United Nations Institute for Training and Research

UNOSAT

06/11/2012 – Version 1

UNOSAT Activation: TC20123010HTI

Situation Update 2: Tropical Storm Sandy over Haiti. Corail, Baradères, and Les Cayes

PREFACE: This report provides a detailed analysis of flooding and related damages resulting from Hurricane Sandy in the area of Grand'Anse and Sud Les Cayes, east Haiti. SPOT-5 satellite imagery acquired on 03 November 2012 was used for this report. Geographic datasets produced for this assessment and additional UNOSAT products are available at <http://www.unitar.org/unosat>. This report is part of an on-going satellite monitoring program of UNITAR / UNOSAT for the International Charter on Space and Major Disasters' activation for Hurricane Sandy over Haiti in support of international humanitarian assistance and created to respond to the needs of UN agencies and their partners. This situational analysis is based on a rapid visual ground assessment of current satellite data available over this area. This assessment has not yet been validated in the field. Please send feedback to UNITAR/UNOSAT at the contact information below.

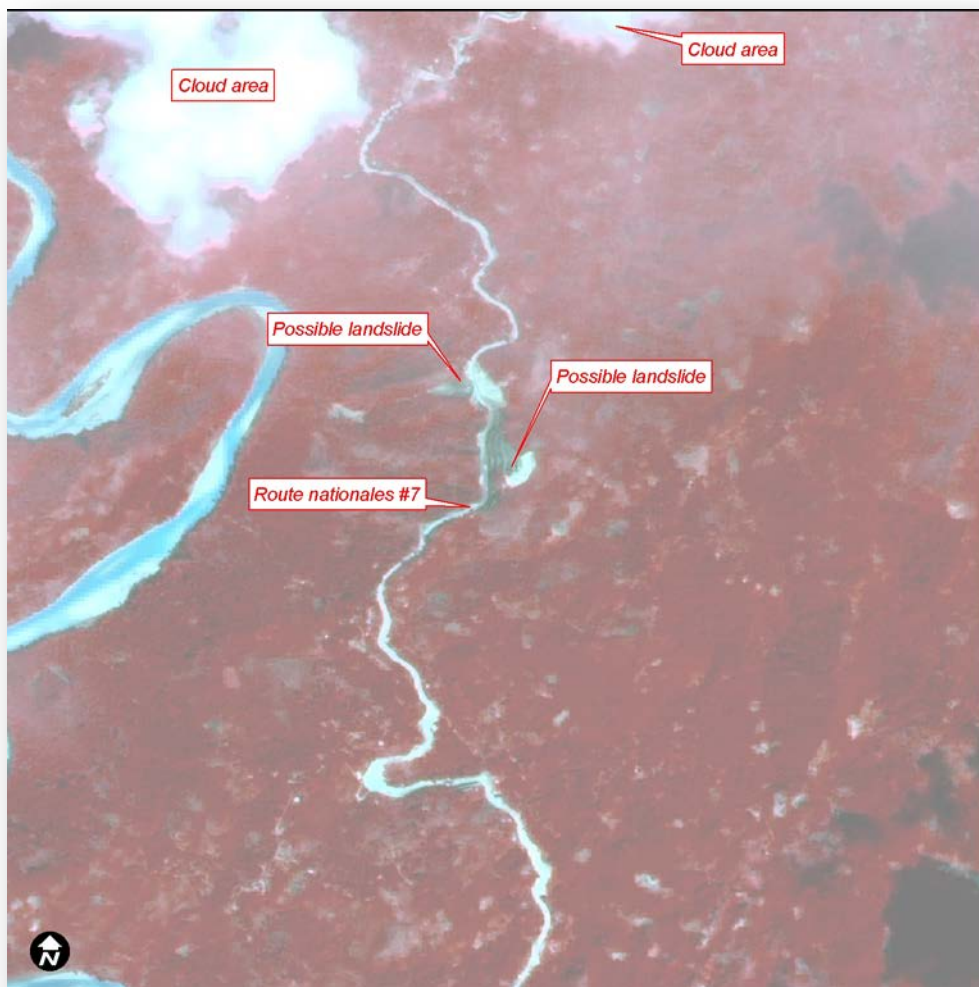
ANALYSIS SUMMARY:

This report presents an overview of current flooding and related damage over the area of Grand'Anse and Sud Les Cayes associated with Hurricane Sandy. The assessment is based on SPOT-5 imagery from the 03 November 2012 and comparisons with Google Maps imagery. The imagery clearly shows severely swollen rivers throughout the region with possible flash flood damage to fields in some areas (site 1). Flooding can be seen in the north of the region, north-east of the city of Grand'Anse (see UNOSAT report <http://www.unitar.org/unosat/node/44/1693>). In the north of the region there appears to be a landslide along a section of the Route Nationales #7, just south of the town of Roseaux (site 2). The region around Baraderes appears to have been affected by flooding and is surrounded by what seems to be flood affected or saturated land (site 3). Agricultural lands in the same area seem to be inundated or saturated (site 3). In the south there seems to have been a landslide on the coast north of Port Salut (site 4). The force of water flowing out of the rivers seems to have destroyed the sandpits at the mouths of the Acul River at the southern end of the Baie des Cayes (site 5), and the Riviere la Ravine du Sud (site 6), which runs through Les Cayes and appears very swollen. The assessment was limited by heavy clouds over large parts of the imagery.

Site 1: A very swollen river and possible damage to agricultural land caused by flash flooding. The light coloured sections of the river are water containing high levels of sediment.



Site 2: A possible landslide along the Route Nationales #7. Red indicates vegetation, the light blue area is a river and the off-white stripe running down the middle of the image is Route Nationales #7.



Site 3: Flood affected land around Baraderes. Red indicates vegetation, blue indicates water, light blue indicates sediment filled water, and off-white indicates bare soil. The settlement appears to have saturated soil around it.



Site 4: Possible landslide along the coast.

Google Earth - 16 August 2011



Spot-5 – 03 November 2012



Site 5: Sandspits destroyed at the mouth of the Riviere la Ravine du Sud

Google Earth – 27 June 2009



Spot-5 - 03 November 2012

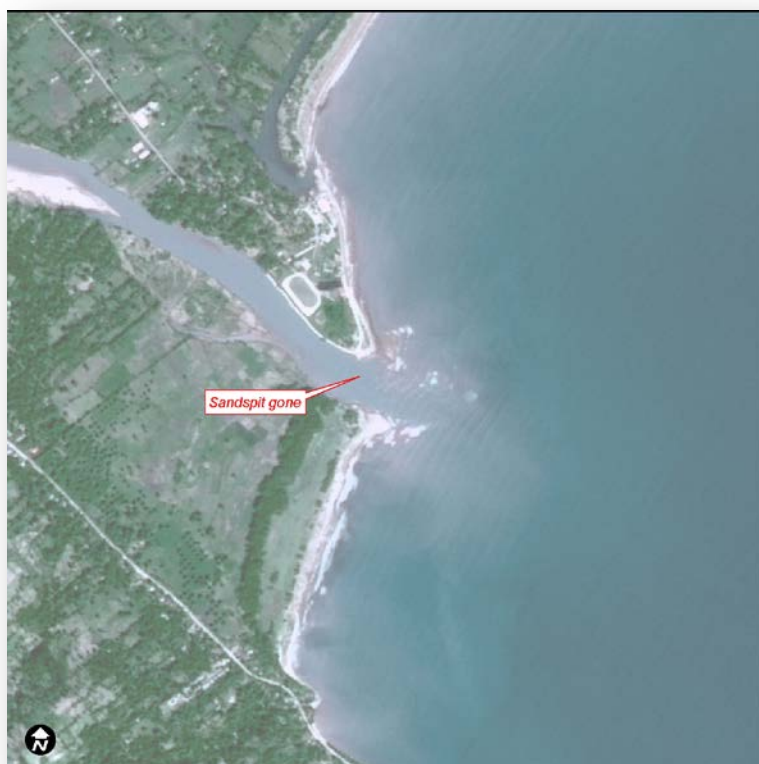


Site 6: Sandspits destroyed at the mouth of the Acul River

Google Earth – 12 September 2011



Spot-5 - 03 November 2012



This is a preliminary assessment and has not yet been validated in the field. Please send feedback to UNITAR/UNOSAT at the contact information below.

UNOSAT Contact:

E-mail: unosat@unitar.org

T: +41 22 767 4020 (UNOSAT Operations)

T: +41 22 767 4137 (UNOSAT Management)

F: +41 22 766 9145

24/7 hotline: +41 76 487 4998



Post address

UNOSAT / UNITAR

Palais des Nations

CH-1211 Geneva 10

Switzerland

Visiting address

UNOSAT / UNITAR

International Environment House

Chemin des Anémones 11-13

CH-1219 Châtelaine, Geneva - Switzerland

Send us GEO-PICTURES from disasters worldwide. Scan QR code or download free UN-ASIGN APP here:



<http://download.ansur.no/assign-un.apk>



Download UN-ASIGN app from AppStore