

DAMAGE ASSESSMENT FOR MAJOR BUILDINGS / INFRASTRUCTURE IN PORT-AU-PRINCE, HAITI

Operational Analysis with GeoEYE-1 Data Acquired 13 January 2010 and QuickBird data acquired 4 March 2008

Damage sites Identified by name & type, including hospitals, government & UN offices, schools, churches & industrial facilities

A preselected list of major buildings and urban facilities were assessed for damages using GeoEye-1 satellite imagery recorded on 13 January 2010. Building sites have been identified by local name and classified by type when possible, with a focus on hospitals, government and UN offices, schools, churches and industrial complexes. Damage classes have been assigned based on visual interpretation of available satellite imagery and thus contain an associated

level of uncertainty for buildings with less severe forms of damages. Sites marked as "No Visible Damage" may have major structural damages not identifiable in the imagery, thus damages in the analysis have likely been underestimated. Note also that the major sites evaluated are not exhaustive of all important buildings within the city. This is a preliminary analysis & has not yet been validated in the field. Please send ground feedback to UNITAR / UNOSAT.

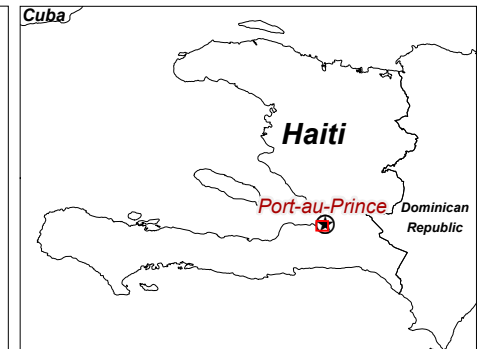
Earthquake 7.0M



16 January 2010 (19:00:00 UTC)

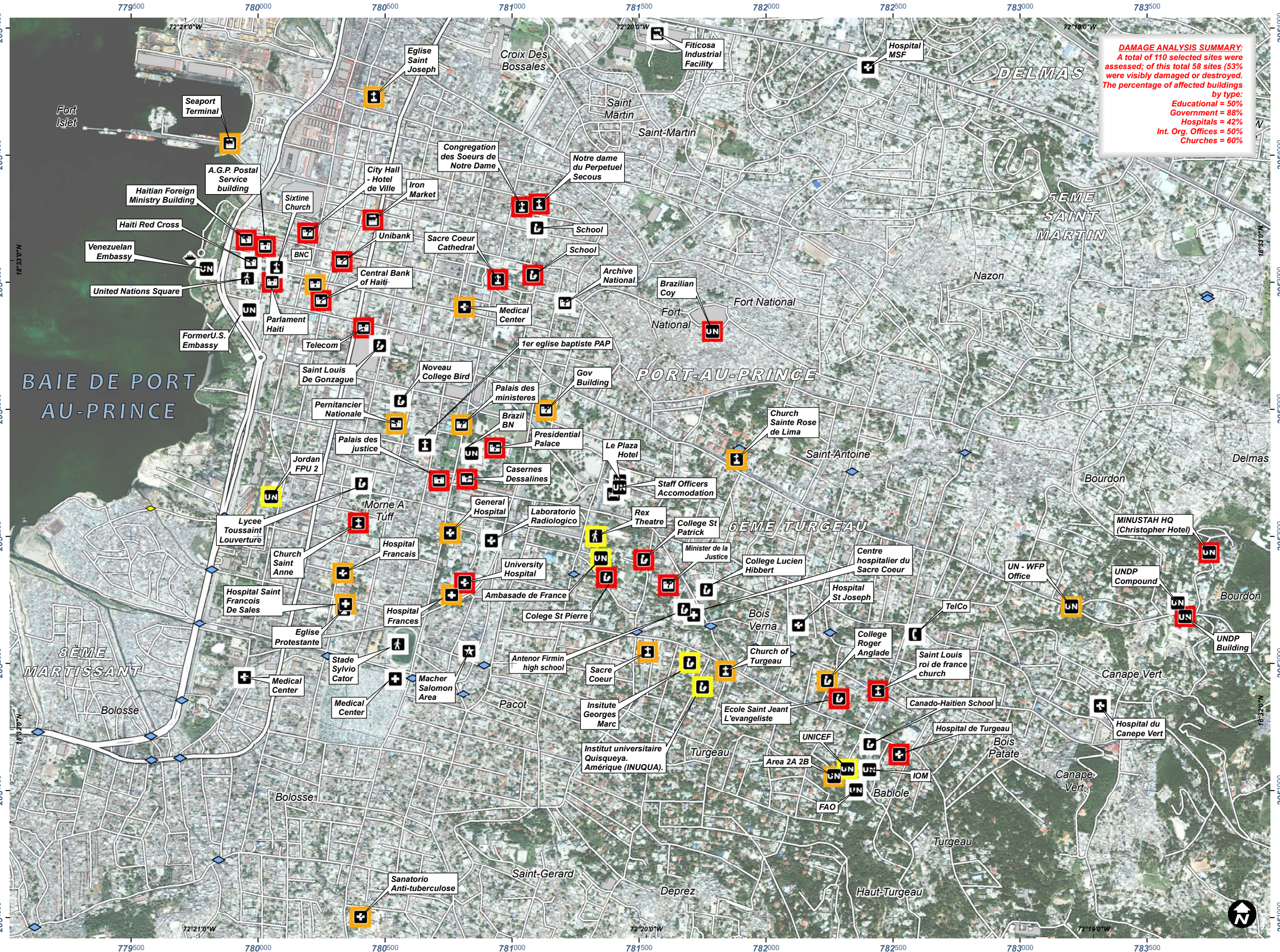
Version 1.0

Glide No: EQ-2010-000009-HTI



DAMAGE ANALYSIS SUMMARY:
A total of 110 selected sites were assessed; of this total 58 sites (53%) were visibly damaged or destroyed. The percentage of affected buildings by type:

- Educational = 50%
- Government = 88%
- Hospitals = 42%
- Int. Org. Offices = 50%
- Churches = 60%



Legend

Main Building Type:

- Hospital (Health Center)
- INT. Orgs (UN)
- Government
- Education
- Religious
- Industrial / Commercial
- Telecommunication
- Market Place
- Hotel
- Recreation

Probable Main Building Damage Level:

- Destroyed
- Severe Damage
- Moderate Damage
- No Visible Damage

Infrastructure:

- Airfield
- Port
- Bridge
- Culvert
- Foot Bridge
- Primary Road
- Secondary / Urban Road
- Unpaved / Minor rd
- Railroad

Map Scale for A3: 1:15,000

UTM grid coordinates given in 1km intervals
Elevation contour lines in 20 meter intervals
Background satellite imagery Ikonos (GeoEye)

0 50 100 200 300 400 500 600 700 Meters

Satellite Data (1)..... GeoEye-1
Imagery Dates 13 January 2010
Resolution 50cm
Copyright GeoEye 2009
Satellite Data (2) QuickBird-2
Imagery Date 4 March 2008
Copyright DigitalGlobe
Source Google Earth
Road Data Open Street Map
Place Names Google Map Maker
Other Data MINUSTAH, USGS, NGA
Elevation Data ASTER GDEM
Source METI & NASA 2009
Analysis UNITAR / UNOSAT
Map Production UNITAR / UNOSAT
Projection UTM Zone 18 North
Datum WGS-84 (EGM-96)

Map Data © 2009 Google - Improve with Google Map Maker

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.

UNITAR
United Nations Institute for Training and Research

UNOSAT

Contact Information: unosat@unitar.org
24/7 Hotline: +41 76 487 4998
www.unosat.org