



INTENSITY OF BUILDING DAMAGES IN DOWNTOWN PORT-AU-PRINCE, HAITI

Earthquake 7.0M

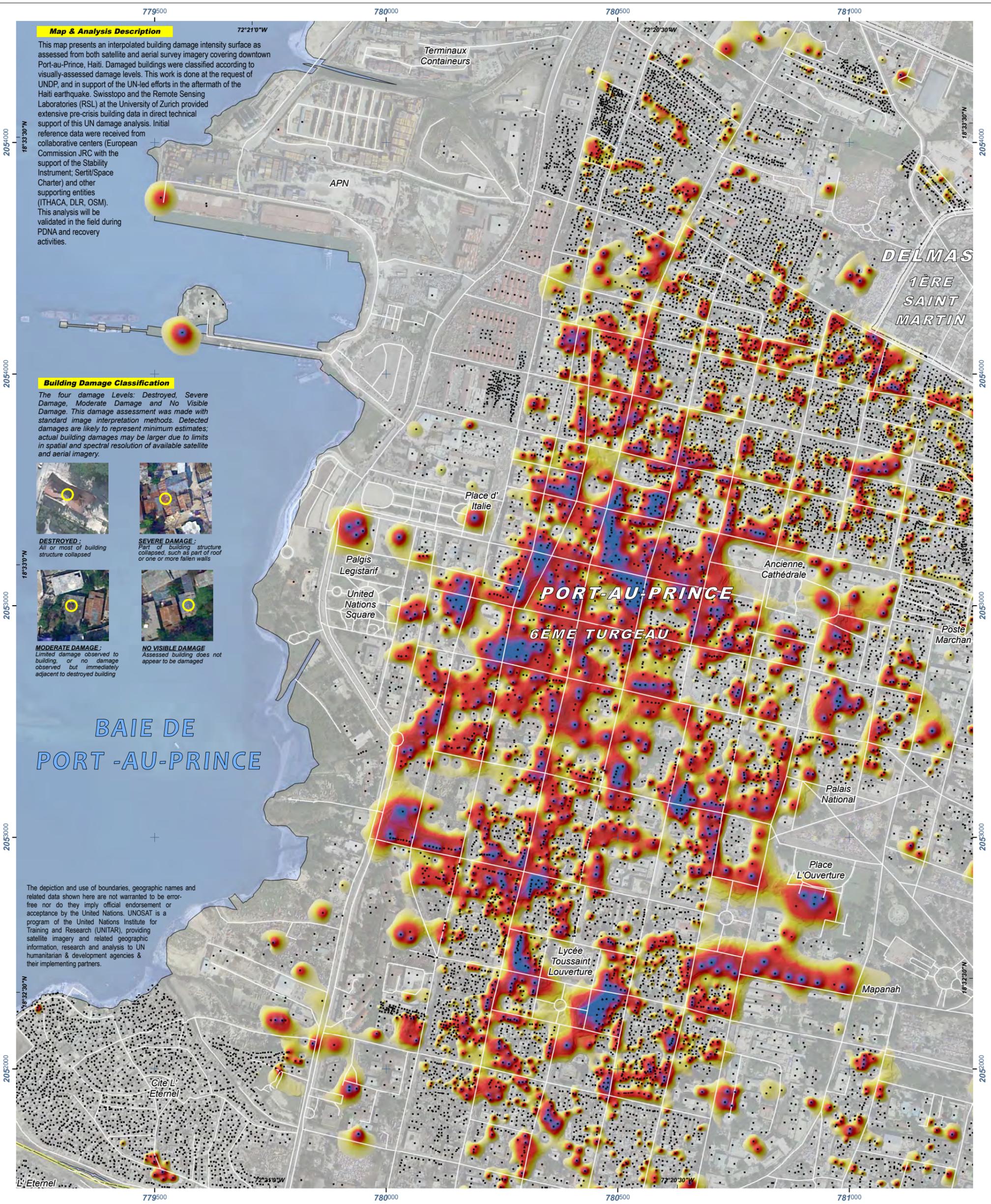
15 February 2010 (19:30:00 UTC)



Version 2.0

Glide No: EQ-2010-000009-HTI

Damage analysis of individual buildings based on post-earthquake aerial photos and pre-earthquake satellite imagery



Map & Analysis Description

This map presents an interpolated building damage intensity surface as assessed from both satellite and aerial survey imagery covering downtown Port-au-Prince, Haiti. Damaged buildings were classified according to visually-assessed damage levels. This work is done at the request of UNDP, and in support of the UN-led efforts in the aftermath of the Haiti earthquake. Swisstopo and the Remote Sensing Laboratories (RSL) at the University of Zurich provided extensive pre-crisis building data in direct technical support of this UN damage analysis. Initial reference data were received from collaborative centers (European Commission JRC with the support of the Stability Instrument; Sertit/Space Charter) and other supporting entities (ITHACA, DLR, OSM). This analysis will be validated in the field during PDNA and recovery activities.

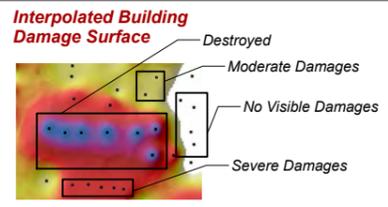
Building Damage Classification

The four damage Levels: Destroyed, Severe Damage, Moderate Damage and No Visible Damage. This damage assessment was made with standard image interpretation methods. Detected damages are likely to represent minimum estimates; actual building damages may be larger due to limits in spatial and spectral resolution of available satellite and aerial imagery.



BAIE DE PORT-AU-PRINCE

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Commune Boundary	Primary / Secondary Rd
Section Boundary	Analysis Extent
Boundary	

Map Scale for A3: 1:7,500 (A4 Print Scale 1:10,500)
UTM grid coordinates given in 500m intervals



Satellite Data	WorldView-2	Copyright	NOAA / Google	Other Data	MINUSTAH, USGS, NGA
Imagery Dates	19 Dec. 2009 / 7-15 Jan. 2010	Source	USGS / ERDAS APOLLO WMS	Elevation Data	ASTER GDEM
Resolution	50cm	Building Data	Swisstopo/RSL-Zurich/UNOSAT	Source	METI & NASA 2009
Copyright	DigitalGlobe	Landcover Data	CNIGS, Infoterra, OSM, OCHA	Damage Analysis	UNITAR / UNOSAT
Aerial Photos	NOAA / Google	Road & Urban Data	Open Street Map	Map Production	UNITAR / UNOSAT
Imagery Date	18 Jan / 21 Jan 2010	Place Names	OCHA, Google Map Maker	Projection	UTM Zone 18 North - NAD-83

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