SEPTEMBER 2019

MAXAR

HURRICANE DORIAN

DAMAGE ASSESSMENT OF THE BAHAMAS

GeoHIVE
Discover. Validate. Create.

Introduction

Scope

Assess damage in Marsh Harbour, Bahamas. Grade visible structural damage as Destroyed, Damaged, Minor/No Damage or Imagery Error. Use GeoHIVE, Maxar's crowdsourcing solution, at 6x coverage (Three unique persons view each building).

Pre-Event Imagery

Maxar's +Vivid 2.0 basemap provided by Maxar's FLAME team.

Post-Event Imagery

Maxar's GeoEye-1 Satellite | September 05, 2019

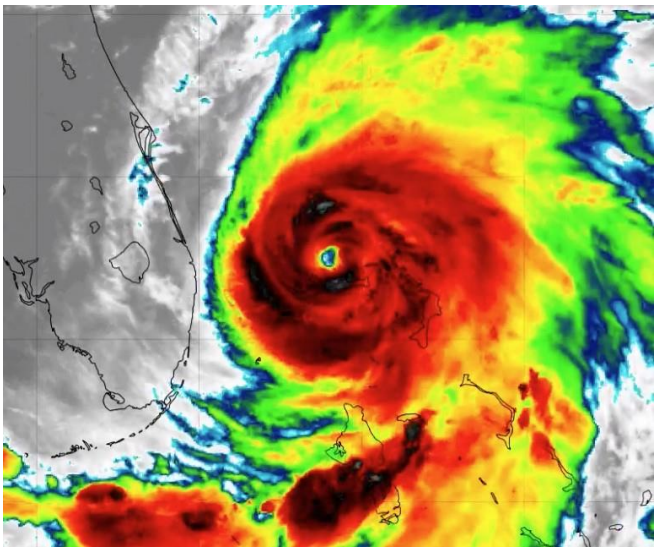


Figure 1. Radar image of Hurricane Dorian passing Grand Bahama.

Hurricane Dorian was the strongest hurricane to hit the Bahamas in recorded history, with wind speeds up to 185 mph. The category 5 storm was truly devastating due its slow travel speed, tracking only 25 miles in 24 hours. It was the shortest distance travelled by a hurricane in a 24-hour period in 54 years.

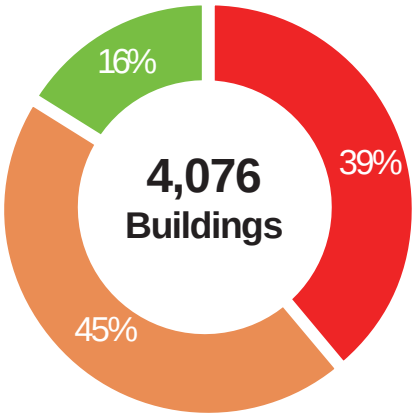
The Bahamas' Abaco Islands, and the Marsh Harbour area (estimated population 5,728 as of 2018) experienced the full effects of this storm when it reached the islands on September 1, 2019. A GeoHIVE damage assessment campaign on Marsh Harbour revealed, of the 4,076 buildings evaluated, only 16% had no visible damage while 45% were visibly damaged and 39% were visibly destroyed.

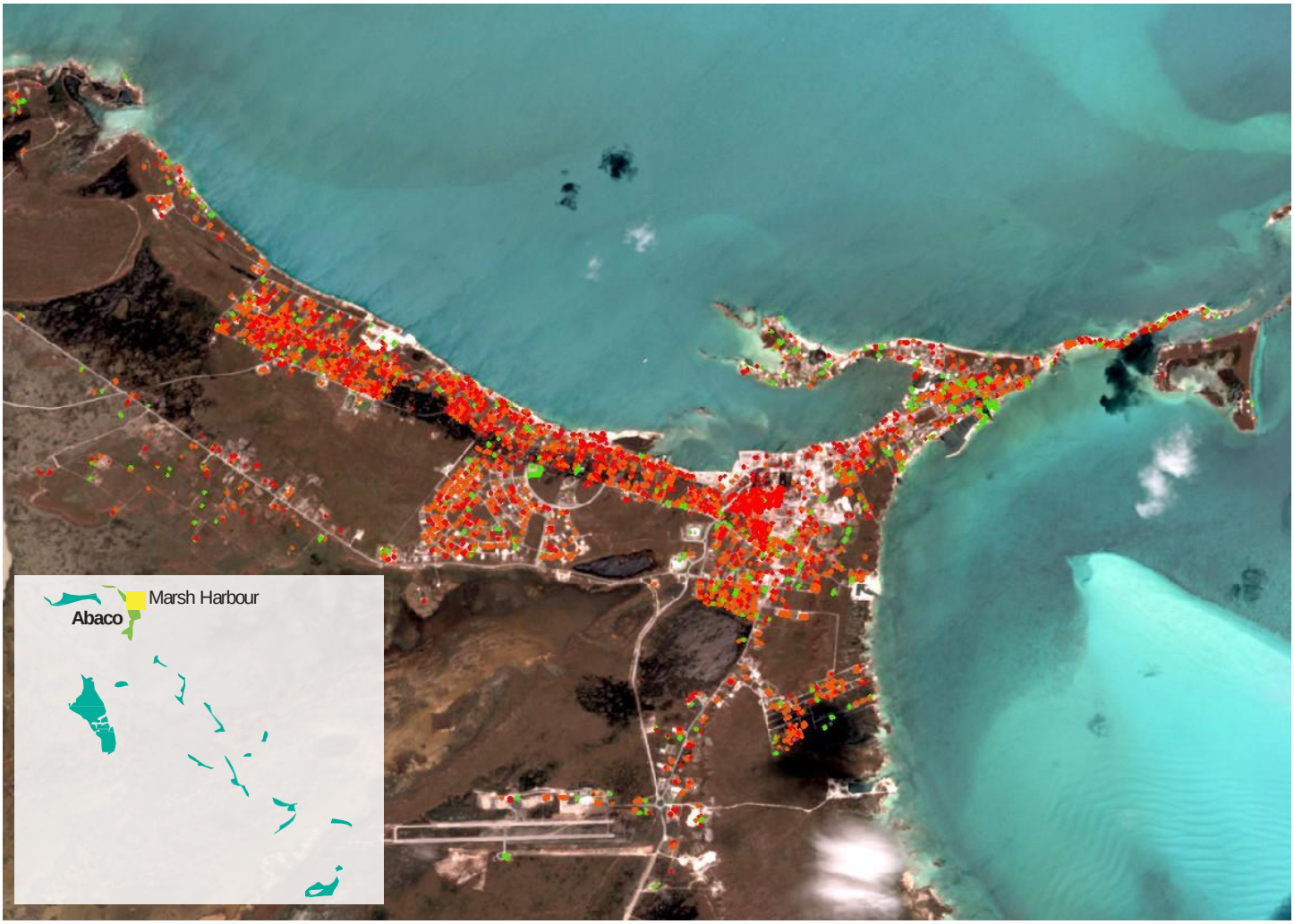
Visit demo of the Hurricane Dorian Campaign at:
https://geohive.digitalglobe.com/demos/Hurricane_Dorian_Demo/

DAMAGE ASSESSMENT

Buildings Assessed: 4,076

- Visibly Destroyed: **1,566**
- Visibly Damaged: **1,848**
- No Damage Visible: **662**





Maxar's GeoEye-1 Satellite | September 05, 2019

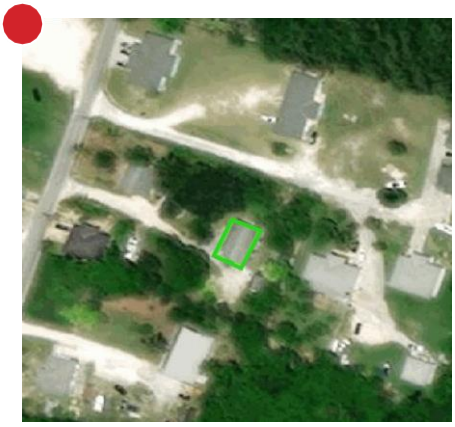
Time to Complete:
1hrs 12min*

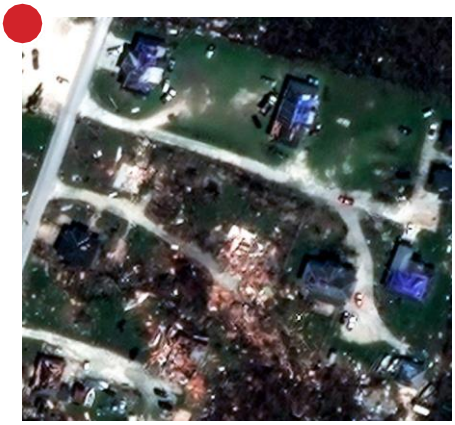
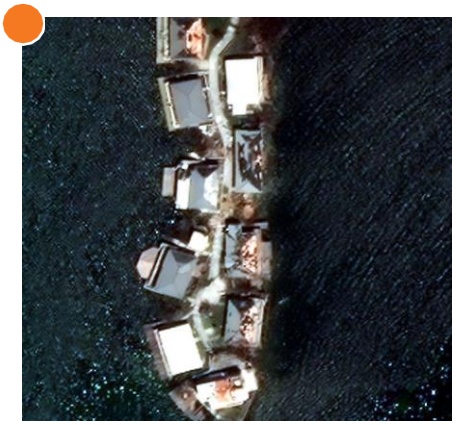
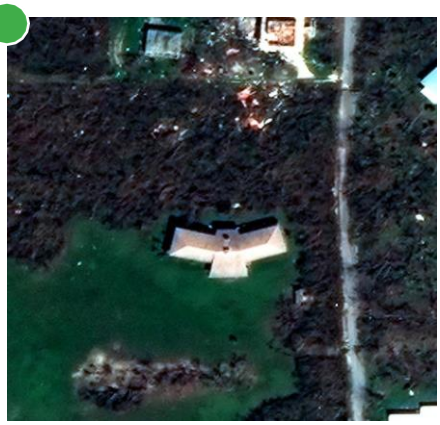
Total crowd assessors:
36 Users

Total Coverage
6x

SAMPLE IMAGES - 3 LEVELS OF DAMAGE

Visibly Destroyed | Visibly Damaged | No Damage Visible



Before Imagery: Maxar's +Vivid 2.0 basemap provided by Maxar's FLAME team.
After Imagery: Maxar's GeoEye-1 Satellite | September 05, 2019

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