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Tropical Cyclone

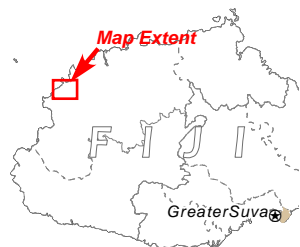


Production Date: 27/12/2012

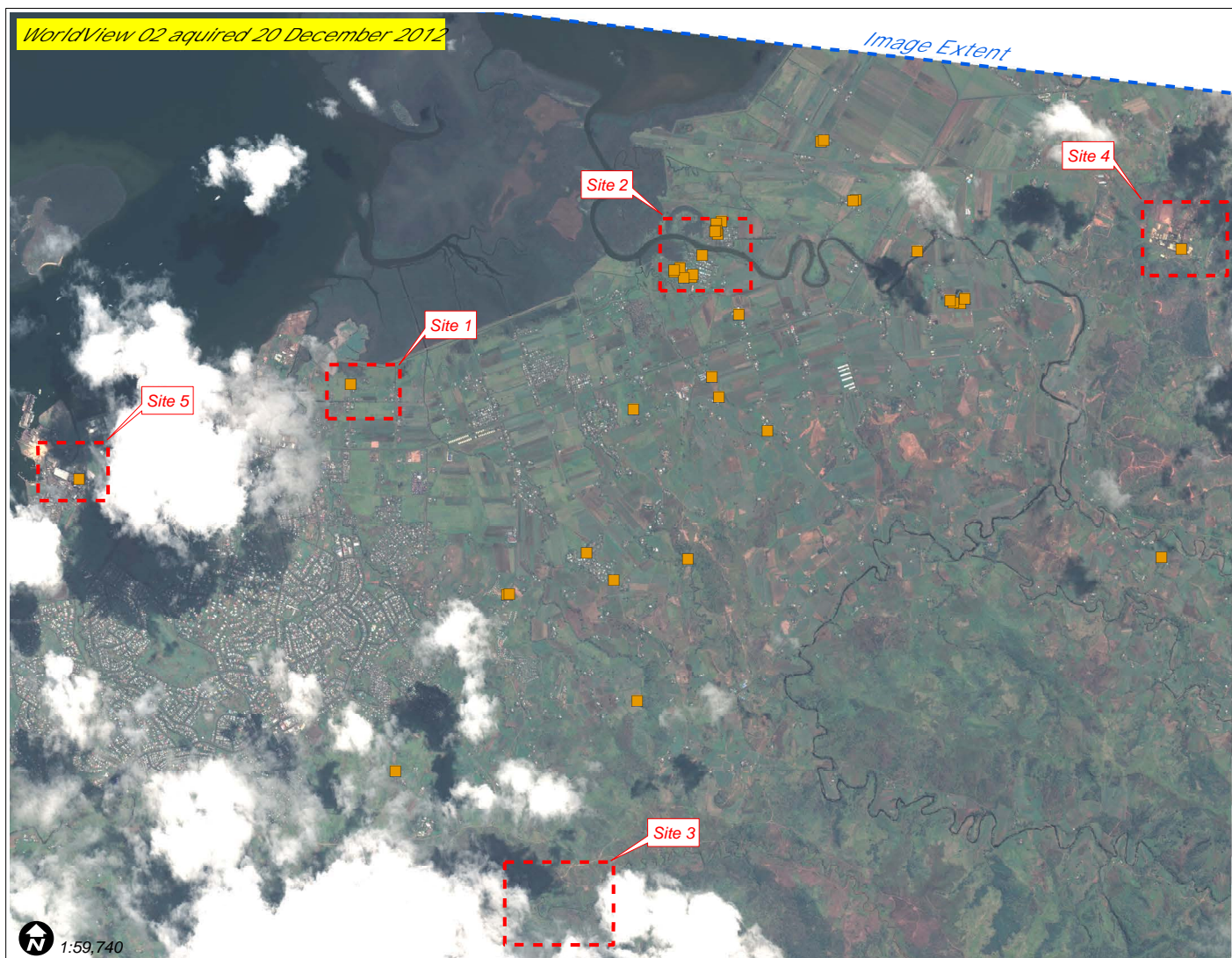
Version 1.0

Activation Number:

TC-2012-000044-FJI



REPORT: CYCLONE EVAN DAMAGE ASSESSMENT OF LAUTOKA, WESTERN DIVISION, FIJI



WorldView 02 acquired 20 December 2012

Image Extent

LEGEND

■ Structure Damages

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Satellite Data (Post-Crisis):
WorldView 02
Imagery Dates: 20 December 2012
Resolution: 50cm
Copyright: 2012 DigitalGlobe, Inc.
Source: USGS
Satellite Data (Pre-Crisis): Quick Bird
Imagery Date: 07 April 2012
Resolution: 60cm

Copyright: 2012 DigitalGlobe, Inc.
Source: USGS
Other Data: USGS, UNCS, NASA, NGA
Analysis : UNITAR / UNOSAT
Production: UNITAR / UNOSAT
Analysis conducted with ArcGIS v10.1

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



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Center Coordinates: 177°29'20.28"E 17°36'37.37"S



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27 December 2012 – Version 1

UNOSAT Activation: (TC-2012-000044-FJI)

Report: Cyclone Evan Damage Assessment of Lautoka, Western Division, Fiji

PREFACE: This report provides a detailed analysis of damages observed in Lautoka and surrounding towns, Western Province, Fiji. Worldview 2 Satellite imagery acquired on 20 December 2012 and Quick Bird acquired on 07 April 2012 was used for this report. Building damages in Lautoka appears to be limited to roof damages and debris. The most severe building damages observed in the imagery appear to be within the surrounding communities of Lautoka. In addition to building damages sections of forests are observed to have collapsed from the cyclone winds. This report is in support of international humanitarian assistance and created to respond to the needs of the International Charter on Space and Major Disaster, UN agencies and their partners. This assessment has not yet been validated in the field. Please send feedback to UNITAR/UNOSAT at the contact information below.

1. **(Site 1) A number of buildings have been either destroyed or severely damaged in some communities outside Lautoka as seen below; debris is visible around structures which appear to have been damaged by the storm or mark locations where buildings once stood.**



2. (Site 2) Structures with visible damages have been highlighted in the below image by orange markers. The marked structures include those which appeared to have severe damages or were destroyed.



3. (Site 3) Structures within an industrial compound along the edge of Lautoka city appear to have partially collapsed.



4. (Site 4) Sections of forest have fallen as a result of the cyclones high winds in areas surrounding the city of Lautoka.



Figure 1: post cyclone event



Figure 2: pre-cyclone event

5. (Site 5) Roofs of various structures damaged in an industrial complex near Lautoka Harbour



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.

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