24 NOVEMBER 2020

PRELIMINARY SATELLITE- DERIVED DAMAGE ASSESSMENT
SAN ANDRES AND PROVIDENCIA ISLANDS, COLOMBIA

STATUS: DAMAGED BUILDING OBSERVED

FURTHER ACTION(S): CONTINUE MONITORING
OVERVIEW / BASED ON AOIs ASSESSED

AOI 1
PROVIDENCIA ISLAND
13°20'55.9"N 81°22'28.6"W

AOI 2
SAN ANDRES ISLAND
12°32'29.86"N 81°43'13.05"W

Date of assessment validity:
24 November 2020

Impact and severity*:
- undetected
- limited impact potentially
- significant impact potentially

Potentially affected elements at risk (indicate all that are applicable):
- buildings - residential
- buildings - commercial/
- vulnerable structures (e.g. schools, hospitals, water, sanitation, power
- internally displaced persons (IDP) camps
- transportation network
- agriculture
- other:

Data sources:
(1) pre-event (reference) image:
WorldView-2/ 21 and 18 November 2020
and Bing Map
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(2) post-event images:
WorldView-2/ 7 June 2019 and 17 September 2020
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(3) baseline data
Administrative boundaries: OCHA

* disclaimer (i.e. assessment yet to be validated with field-based information)
AOI 1-1 PROVIDENCIA ISLAND, COLOMBIA : DAMAGE OBSERVED

Image Center:
81°22'35.92"W
13°22'1.725"N

Image Boundary

Before

WorldView-2/ 7 June 2019

After

WorldView-2/21 November 2020

Buildings damaged

50 m

Damaged buildings

Debris
AOI 1-2 PROVIDENCIA ISLAND, COLOMBIA: DAMAGED SCHOOL

Image Center:
13°36'88.67"N,
81°37'32.44"W

BEFORE

AFTER

WorldView-2/7 June 2019

WorldView-2/21 November 2020

Image Boundary

Damaged school
AOI 1-3 PROVIDENCIA ISLAND, COLOMBIA: DAMAGED BUILDINGS OBSERVED

Before WorldView-2/ 7 June 2019

After WorldView-2/ 21 November 2020

Damaged buildings

Affected coastal vegetation

50 m
AOI 1-4 PROVIDENCIA ISLAND, COLOMBIA : DAMAGED BUILDINGS OBSERVED

BEFORE

AFTER

Damaged buildings

Image Center :
13°38'23.71"N, 81°36'98.1"W

WorldView-2/ 7 June 2019

WorldView-2/ 21 November 2020

20 m
AOI 1-5 PROVIDENCIA ISLAND, COLOMBIA: DAMAGED BUILDINGS OBSERVED

BEFORE

AFTER

Damaged buildings

Destroyed bridge

WorldView-2/ 7 June 2019

WorldView-2/ 21 November 2020
AOI 1-6 PROVIDENCIA ISLAND, COLOMBIA: DAMAGED HOSPITAL

Before: WorldView-2/ 7 June 2019

After: WorldView-2/ 21 November 2020
AOI 1-7 PROVIDENCIA ISLAND, COLOMBIA: DAMAGED BUILDINGS OBSERVED AND POTENTIALLY AFFECTED ELECTRIC POWER STATION

Image Center:
13°38'30.35"N, 81°36'54.94"W

Before:
WorldView-2/7 June 2019

After:
WorldView-2/21 November 2020

Electric Power Station (SOPESA)
AOI 1-8 PROVIDENCIA ISLAND, COLOMBIA : DAMAGED BUILDINGS OBSERVED

Before: WorldView-2/ 7 June 2019
After: WorldView-2/ 21 November 2020

Image Center:
13°37'66.35"N, 81°35'85.87"W

Affected vegetation

Damage buildings

50 m
AOI 1-9 PROVIDENCIA ISLAND, COLOMBIA: DAMAGED AIRPORT

BEFORE

AFTER

Damaged Terminal

Damaged building

Damaged buildings

BING basemap

WorldView-2/21 November 2020

Image Center:
13°35'82.77"N,
81°35'88.58"W
AOI 2-1 SAN ANDRES ISLAND, COLOMBIA: DAMAGED BUILDINGS OBSERVED

Image Center:
81°43'49.196"W
12°28'53.731"N

Affected vegetation

Damaged building

50 m
AOI 2-2 SAN ANDRES ISLAND, COLOMBIA: DAMAGED BUILDINGS AND ROAD OBSERVED

Before

After

Damaged road

Damaged building

Affected vegetation

Image Center:
81°43'43.027"W
12°30'20.059"N

Image Boundary

WorldView-2/ 17 September 2020

WorldView-2/ 18 November 2020
AOI 2-3 SAN ANDRES ISLAND, COLOMBIA: DAMAGED BUILDINGS OBSERVED

Before

AFTER

SAN ANDRES ISLAND

AOI 2-3

Image Boundary

Image Center:

81°43'45.772"W
12°31'41.315"N

WorldView-2/ 17 September 2020

WorldView-2/ 18 November 2020
AOI 2-4 SAN ANDRES ISLAND, COLOMBIA: DAMAGED BUILDINGS OBSERVED

Image Center: 81°43'44.774"W 12°32'51.846"N

Before 17 September 2020

After 18 November 2020

Damaged building

WorldView-2/ 17 September 2020

WorldView-2/ 18 November 2020
AOI 2-5 SAN ANDRES ISLAND, COLOMBIA : DAMAGED BUILDINGS OBSERVED

Image Center:
81°43'13.965"W
12°34'29.495"N

PRELIMINARY SATELLITE-DERIVED DAMAGE ASSESSMENT REPORT OF SAN ANDRES AND PROVIDENCIA ISLANDS, COLOMBIA – 24 NOVEMBER 2020
AOI 2-6 SAN ANDRES ISLAND, COLOMBIA: NO MAJOR DAMAGE OBSERVED NEARBY THE INTERNATIONAL AIRPORT GUSTAVO ROJAS PINILLA
AOI 2-6 SAN ANDRES ISLAND, COLOMBIA : DAMAGED BUILDINGS OBSERVED

Image Center:
81°42'57.747"W
12°32'35.309"N

Debris

WorldView-2/ 17 September 2020
WorldView-2/ 18 November 2020
SUMMARY OF PRELIMINARY OBSERVATIONS AND FURTHER ACTIONS
Date of assessment validity: 24 November 2020

Preliminary observations, impact and severity *:

- Widespread damage observed in Providencia Islands;
- Widespread damage observed in San Andres Island;
- Damaged infrastructures observed across the Islands including roads, hospital, bridges, schools;
- Vegetation heavily affected in several parts of San Andres Island;
- No damage could be observed in eastern parts of San Andres island.

Further/ anticipated actions from UNOSAT:

- no impact detected/ discontinue monitoring over specific
- potential impact detected
- continue monitoring over specific
- full assessment to be conducted
- more data and/ or information needed to confirm impact