15 May 2023

PRELIMINARY SATELLITE-DERIVED DAMAGE ASSESSMENT

Southern Parts of Chittagong Division, Bangladesh

Status: Damaged structures observed

Further action(s): continue monitoring
AOI 1: CAMP 21 (CHAKMARKUL), TEKNAF, COX’S BAZAR

No major visible floods or damage
AOI 1-1: CAMP 21 (CHAKMARKUL), TEKNAF, COX’S BAZAR

No major visible floods or damage

ESRI Based map / GeoEye / 19 February 2022

Pléiades / 15 May 2023
AOI 1-2 : CAMP 21 (CHAKMARKUL), TEKNAF, COX’S BAZAR

No major visible floods or damage

ESRI Based map / GeoEye / 19 February 2022

Before

Pléiades / 15 May 2023

AFTER
AOI 2: CAMP 22 (UNCHIPRANG), TEKNAF, COX'S BAZAR

Damaged structure observed at the southern part of camp 22
AOI 2-1: CAMP 22 (UNCHIPRANG), TEKNAF, COX'S BAZAR

No major visible floods/landslides or damage
AOI 2-2: CAMP 22 (UNCHIPRANG), TEKNAF, COX'S BAZAR

Damaged structure observed

BEFORE

AFTER

ESRI Based map / WorldView-3 / December 2022
Pléiades / 15 May 2023
AOI 3-1 SAINT MARTIN'S ISLAND NORTH BEACH

Damaged structures and flooded coastal areas caused by the storm surge

Police Officer’s Mess, Saint Martin
Hotel Prince Heaven, Saint Martin’s Island

BEFORE

Potentially damaged structure
Damaged structures
Washed away area

AFTER

Police Officer’s Mess, Saint Martin
Hotel Prince Heaven, Saint Martin’s Island

ESRI Based map / WorldView-2/13 March 2023
Pléiades / 15 May 2023
AOI 3-2 SAINT MARTIN'S ISLAND WEST BEACH

Damaged structures and flooded coastal areas caused by the storm surge

ESRI Based map / WorldView-2 / 13 March 2023

Pléiades / 15 May 2023
AOI 3-3 SAINT MARTIN'S ISLAND WEST BEACH

Damaged structures and flooded coastal areas caused by the storm surge

ESRI Basemap / WorldView-2 / 13 March 2023

Pléiades / 15 May 2023
SUMMARY OF FINDINGS

• Major damage observed along the coast of Saint Martin's Island (Teknaf Upazila, Bangladesh) as of 15 May 2023;

• No major visible flood and no major damage to structures observed in Camp 21 (Chakmarkul) as of 15 May 2023;

• Damaged structure observed in the southern part of Camp 22 (Unchiprang) as of 15 May 2023.
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Data sources:

(1) Satellite Image (Post-event): Pleiades
   Acquisition date: 15 May 2023
   Resolution: 50 cm
   Copyright: Includes material © CNES (2023), Distribution Airbus D&S
   Source: CNES

(2) Satellite Image (Pre-event): ESRI Based map

(3) Ancillary data
   Administrative boundaries: Bangladesh Bureau of Statistics (BBS)
   Analysis: United Nations Satellite Centre (UNOSAT)
   Production: United Nations Satellite Centre (UNOSAT)