PRELIMINARY SATELLITE-DERIVED DAMAGE ASSESSMENT

Gampaha, Colombo and Kalutara District, Western Province, Sri Lanka

Status: flood water detected

Further action(s): continue monitoring

04 June 2024
AOI 1: Gampaha District, Western Province, Sri Lanka

Airport track not affected

Affected road

Affected structures

Inundated agricultural areas

Bandaranaike International Airport

Andiandalam village

Pleiades image acquired on 4 June 2024, 05:24 UTC
Image Center: 79°52'22"E 7°10'36"N
AOI 2-1: Colombo District, Western Province, Sri Lanka

Potentially affected structures & inundated agricultural areas

Before: WorldView-2 / 03 March 2023

After: Pleiades / 04 June 2024

Image center: 79°58'46"E
06°54'05"N
AOI 2-2: Colombo District, Western Province, Sri Lanka

Affected structures

**WorldView-2 / 03 March 2023**

**Pleiades / 04 June 2024**

Image center:
79°53'45"E
06°56'28"N
AOI 3: Kalutara District, Western Province, Sri Lanka

Inundated agricultural areas and potentially affected structures

WorldView-2 / 05 April 2023

Pleiades / 04 June 2024
SUMMARY OF FINDINGS

• Bandaranaike International Airport track not affected as of 04 June 2024;

• Inundated agricultural areas, affected structures & affected roads observed along the Dadugan Oya river, Gampaha District, Western Province as of 04 June 2024;

• Affected structures and inundated agricultural areas observed in Colombo District, Western Province as of 04 June 2024;

• Inundated agricultural areas and potentially affected structures observed along the Kaluganga River in Kalutara District, Western Province as of 04 June 2024.

Note: The change analysis was performed using Sentinel -1 SAR (Synthetic Aperture Radar) data. Due to the nature of signal, flood extent may be underestimated in urban areas.
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Data sources:

(1) Satellite Image (Post-event): Pléiades
Acquisition date: 04 June 2024, 05:24 UTC
Resolution: 50cm
Copyright: Includes Pleiades material © CNES (2022), Distribution Airbus DS
Source: Airbus D&S

(2) Satellite Image (Pre-event):
ESRI Basemap

(3) Ancillary data

Administrative boundaries: UNOCHA
Populated place: OpenStreetMap
Waterway: OpenStreetMap

Analysis: United Nations Satellite Centre (UNOSAT)
Production: United Nations Satellite Centre (UNOSAT)

Important note: Flood analysis from radar images may underestimate the presence of standing waters in built-up areas and densely vegetated areas due to backscattering properties of the radar signal.