



12 MARCH 2020

SATELLITE-DERIVED FLOOD ASSESSMENT IN LUAPULA AND NORTHERN PROVINCES, REPUBLIC OF ZAMBIA

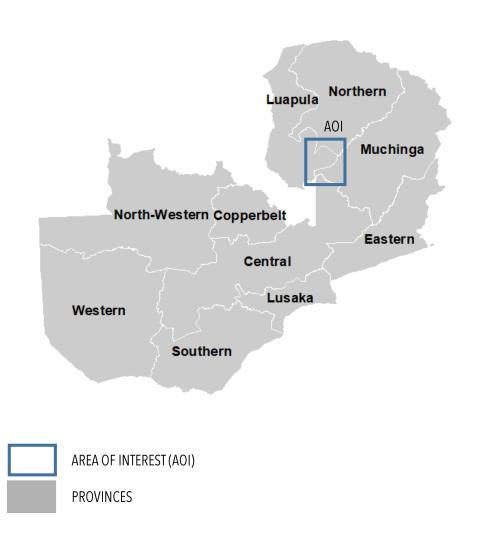
STATUS: FLOODS DETECTED IN LUNGA DISTRICT

FURTHER ACTION(S): MONITORING OVER AOI COMPLETED





#### OVERVIEW / BASED ON AOIs ASSESSED



Date of assessment validity: 07 – 12 March	2020
Impact and severity*:	D
C undetected C limited impact potentially detected	(1
significant impact potentially detected	(2
Potentially affected elements at risk (indicate all that are applicable):	•
✓ buildings - residential	•
<ul> <li>buildings - commercial/industry</li> <li>vulnerable structures (e.g. schools, hospitals, water, sanitation, power stations, internally displaced persons (IDP) camps</li> </ul>	(3
<ul><li>✓ transportation network</li><li>✓ agriculture</li></ul>	
□ other:	

#### Data sources:

- (1) pre-event (reference) image: Bing (2019)
- (2) post-event images:
- Pleiades, 07 March 2020, © CNES (2020), Distribution Airbus DS
- Pleiades, 09 March 2020, © CNES (2020), Distribution Airbus DS
- Pleiades, 10 March 2020, © CNES (2020), Distribution Airbus DS
- Resours-P, 09 March 2020, © MDA, Geospatial Services Inc. (2020)
- (3) baseline data
  - administrative boundaries: HDX

\* disclaimer (i.e. assessment has yet to be validated with field-based information)





## AOI 1 / CHABA CITY, CHILUBI DISTRICT, NORTHERN PROVINCE, REPUBLIC OF ZAMBIA / NO FLOODS DETECTED



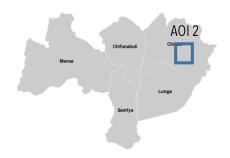


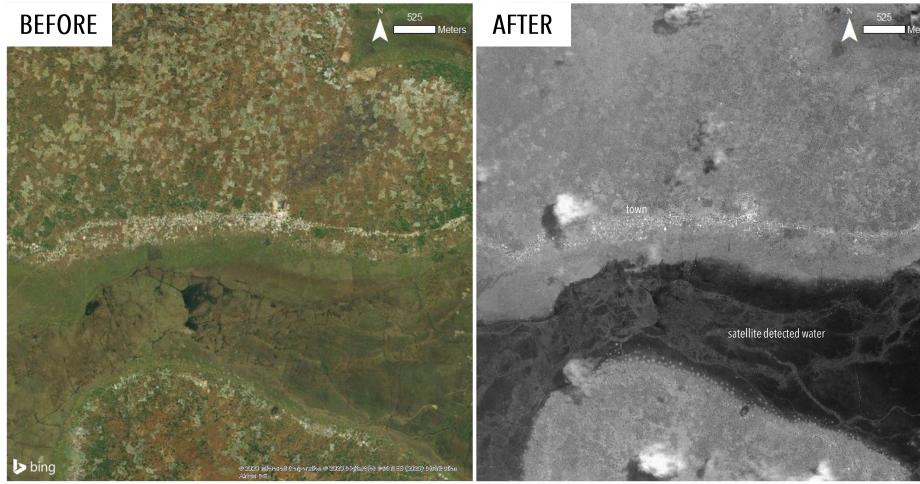
PLEIADES 09 MARCH 2020 08:05:38 UTC





## AOI 2 / MOFU CITY, CHILUBI DISTRICT, NORTHERN PROVINCE, REPUBLIC OF ZAMBIA / NO FLOODS DETECTED





BING Basemap

RESOURS-P 09 MARCH 2020 07:40:02 UTC



## AOI 3 / SAMFYA CITY, SAMFYA DISTRICT, LUAPULA PROVINCE, REPUBLIC OF ZAMBIA / NO FLOODS DETECTED





PLEIADES 07 MARCH 2020 08:20:48 UTC



## AOI 3-1 / SAMFYA CITY, SAMFYA DISTRICT, LUAPULA PROVINCE, REPUBLIC OF ZAMBIA / NO FLOODS DETECTED









BING Basemap

PLEIADES 09 MARCH 2020 08:05:48 UTC

**BEFORE** 





## AOI 3-2 / SAMFYA CITY, SAMFYA DISTRICT, LUAPULA PROVINCE, REPUBLIC OF ZAMBIA / NO FLOODS DETECTED









BING Basemap

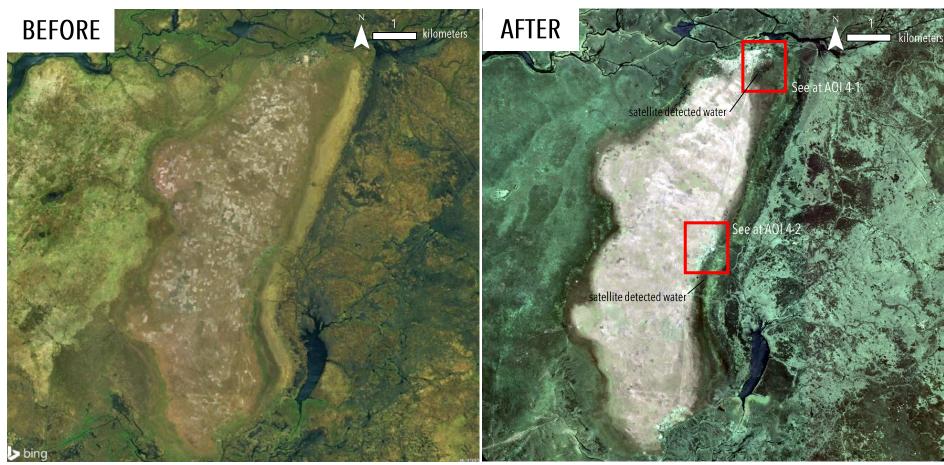
PLEIADES 10 MARCH 2020 08:47:10 UTC





## AOI 4 / NCHETA ISLAND, LUNGA DISTRICT, LUAPULA PROVINCE, REPUBLIC OF ZAMBIA / FLOODS DETECTED





BING Basemap

PLEIADES 07 MARCH 2020 08:20:57 UTC



## AOI 4-1 / NORTHERN PART OF NCHETA ISLAND, LUNGA DISTRICT, LUAPULA PROVINCE, REPUBLIC OF ZAMBIA / FLOODS DETECTED









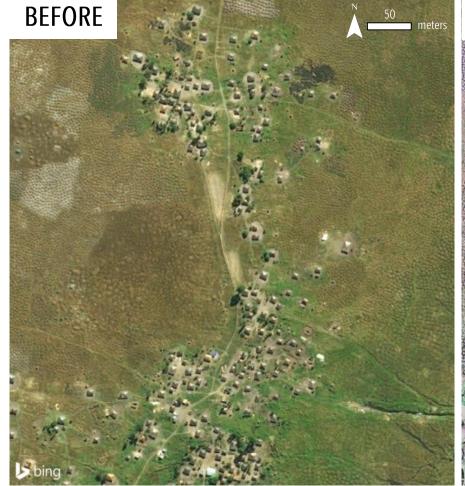
BING Basemap

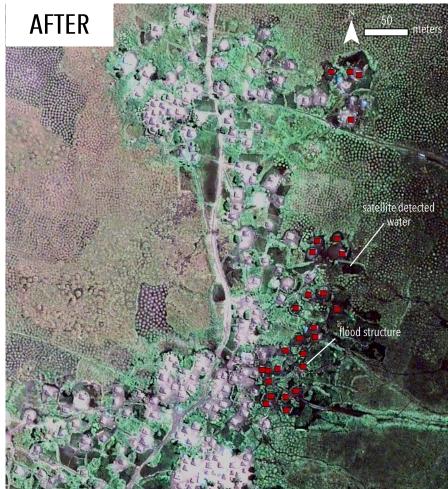
PLEIADES 07 MARCH 2020 08:20:57 UTC



## AOI 4-2 / EASTERN PART OF NCHETA ISLAND, LUNGA DISTRICT, LUAPULA PROVINCE, REPUBLIC OF ZAMBIA / FLOODS DETECTED







cheta isiana

BING Basemap

PLEIADES 07 MARCH 2020 08:20:57 UTC

# SUMMARY OF PRELIMINARY OBSERVATIONS AND FURTHER ACTIONS

Date of assessment validity: 07 – 12 March 2020

#### Preliminary observations, impact and severity \*:

- AOI 1: No satellite-detected waters in Chaba city or its vicinity as of 09 March 2020
- AOI 2: Mofu city appears to have no evidences of satellite-detected waters as of 09 March 2020
- AOI 3: No satellite-detected waters in Samfya city as of 10 March 2020
- AOI 4: Satellite-detected waters northern and eastern part of Ncheta island affecting the agricultural fields nearby as of 07 March 2020

#### Further/ anticipated actions from UNOSAT:

C no impact detected/discontinu	ue monitoring over specific AOI	
• potential impact detected	✓ continue monitoring over specific AOIs	4
	$\square$ full assessment to be conducted	
O more data and/or information	needed to confirm impact	



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<sup>\*</sup> disclaimer (i.e. assessment has yet to be validated with field-based information)