



12 AUGUST 2020

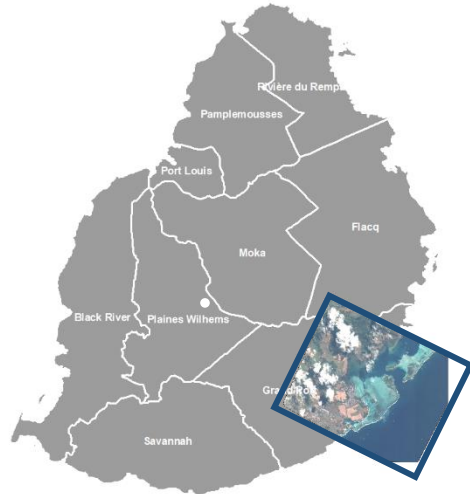
**PRELIMINARY SATELLITE BASED OIL SPILL ASSESSMENT  
GRAND PORT BAY, REPUBLIC OF MAURITIUS**

STATUS: POTENTIAL OIL SPILL DETECTED

FURTHER ACTION(S): CONTINUE MONITORING



## OVERVIEW / BASED ON AOIs ASSESSED



PLEIADES IMAGE EXTENT FROM 12 AUGUST 2020

REGION

Date of assessment validity: 12 August 2020

### Impact and severity\*:

- undetected
- limited impact potentially detected
- significant impact potentially detected

### Potentially affected elements at risk (indicate all that are applicable):

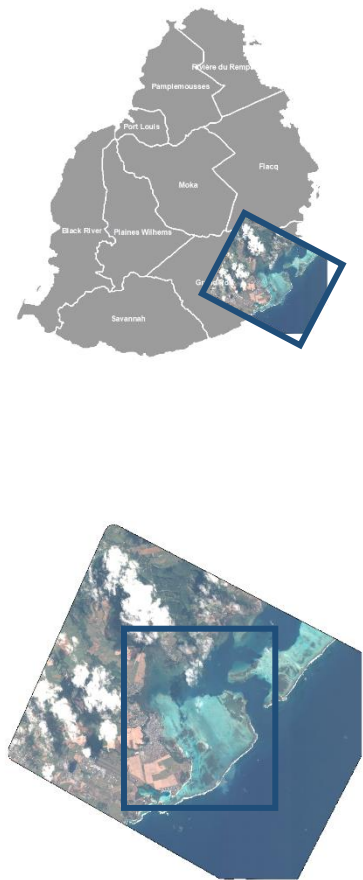
- buildings - residential
- buildings - commercial/industry
- vulnerable structures (e.g. schools, hospitals, water, sanitation, power stations, etc.)
- internally displaced persons (IDP) camps
- transportation network
- agriculture
- other: Coral reef & Marine ecosystem

### Data sources:

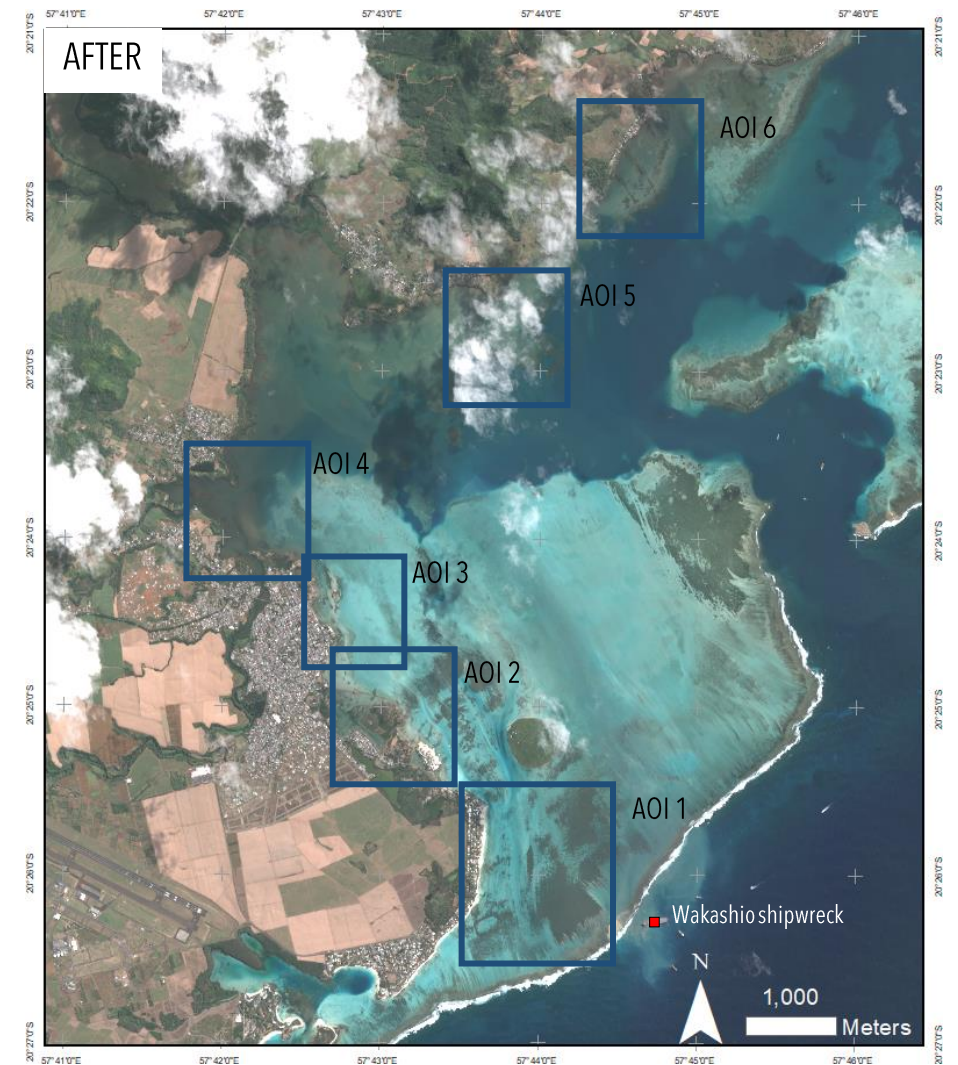
- (1) pre-event (reference) image:
  - GeoEye-1, 01 August 2020, 06:13:23 UTC, © 2020 GeoEyeNextView License, Source: USGS / DigitalGlobe, Inc.
- (2) post-event images:
  - Pleiades, 11 August 2020, 06:28:19 UTC, © CNES (2020), Distribution Airbus DS, Source: Airbus Defence and Space
  - Pleiades, 12 August 2020, 06:29:43 UTC, © CNES (2020), Distribution Airbus DS, Source: Airbus Defence and Space
- (3) baseline data
  - Administrative boundaries: OCHA
  - Populated places: OpenStreetMap

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

# AOI GRAND PORT BAY, REPUBLIC OF MAURITIUS: AREAS OF INTEREST



GEOEYE-1 / 01 AUGUST 2020 / 06:13:23 UTC



PLEIADES / 12 AUGUST 2020 / 06:29:43 UTC



# AO11 POINTE D'ESNY VILLAGE, REPUBLIC OF MAURITIUS: NO OIL SPILL DETECTED



GEOEYE-1 / 01 AUGUST 2020 / 06:13:23 UTC



PLEIADES / 12 AUGUST 2020 / 06:29:43 UTC



# AOI2 SOUTHEAST OF MAHEBOURG TOWN, REPUBLIC OF MAURITIUS: NO OIL SPILL DETECTED



GEOEYE-1 / 01 AUGUST 2020 / 06:13:23 UTC



PLEIADES / 12 AUGUST 2020 / 06:29:43 UTC

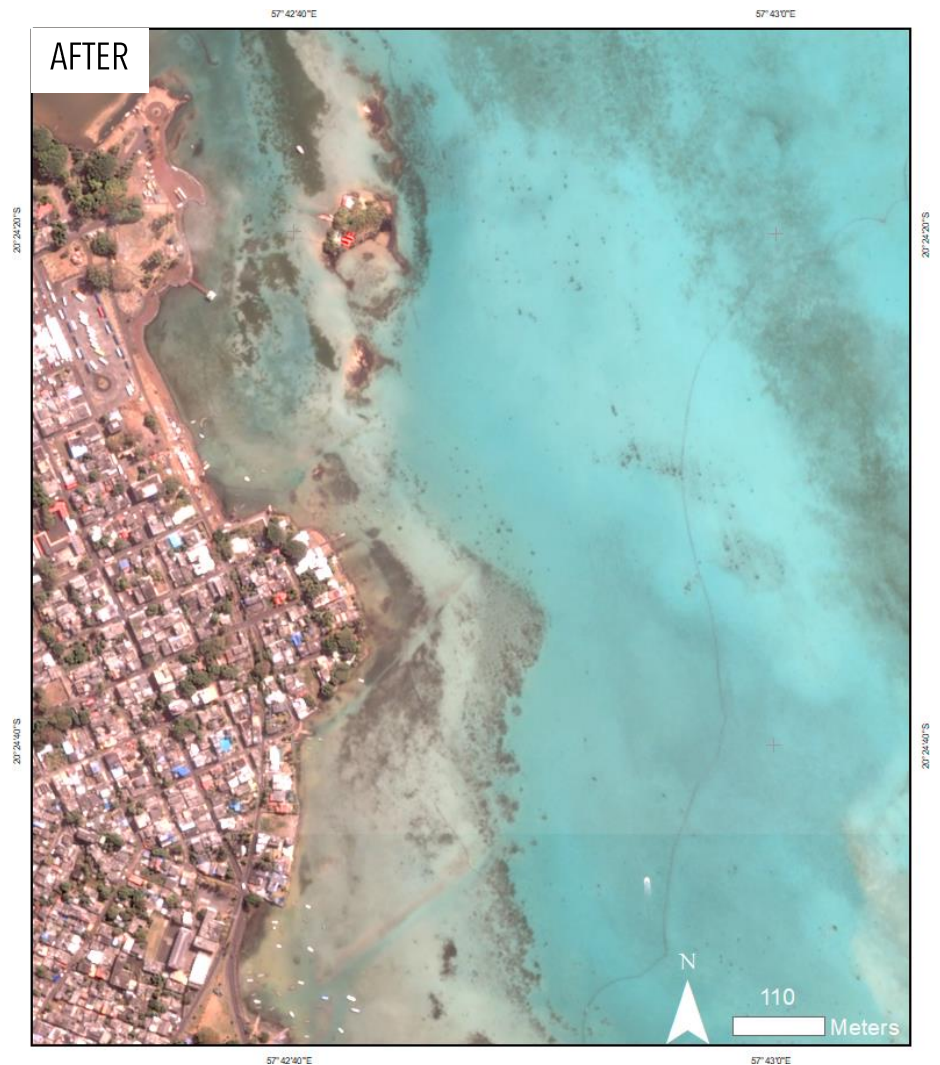




# AO13 MAHEBOURG TOWN, REPUBLIC OF MAURITIUS: NO OIL SPILL DETECTED



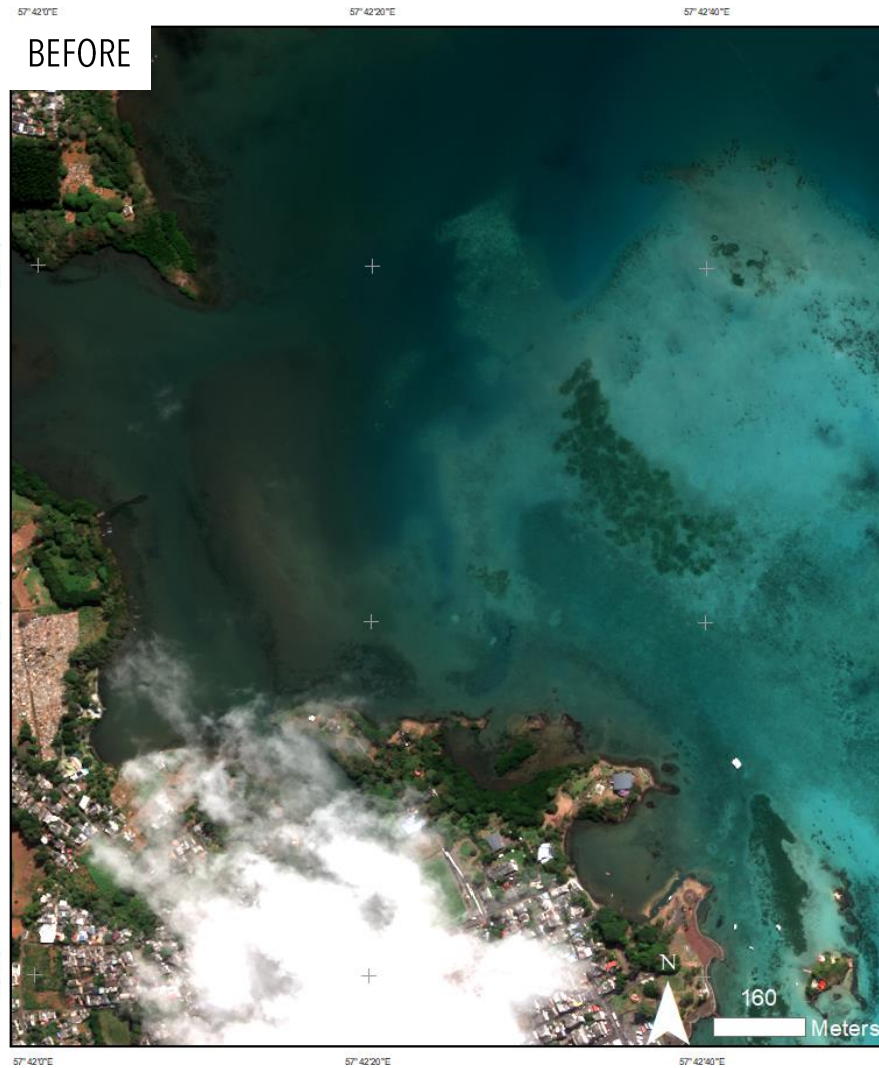
GEOEYE-1 / 01 AUGUST 2020 / 06:13:23 UTC



PLEIADES / 12 AUGUST 2020 / 06:29:43 UTC



# AOI4 MAHEBOURG TOWN, REPUBLIC OF MAURITIUS: POTENTIAL FLOATING OIL DETECTED / DIFFICULT TO DELINEATE



GEOYE-1 / 01 AUGUST 2020 / 06:13:23 UTC



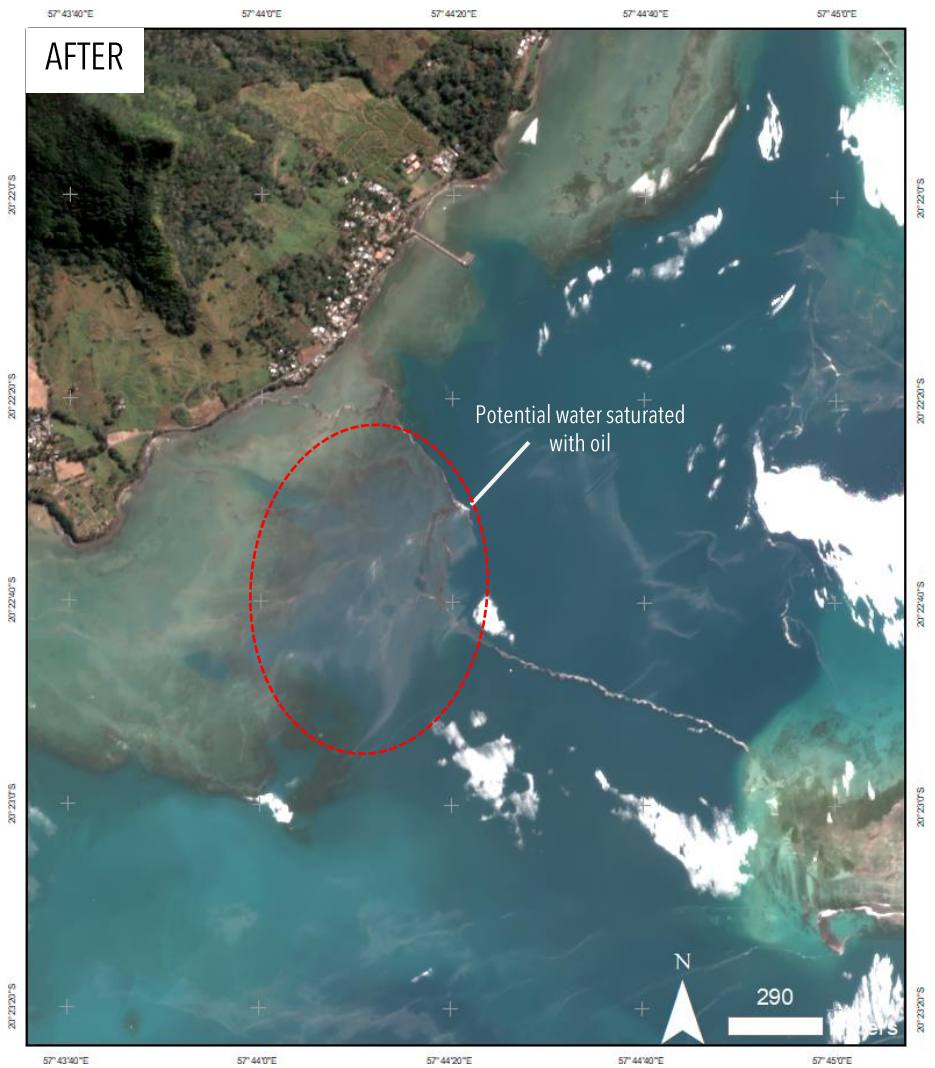
PLEIADES / 12 AUGUST 2020 / 06:29:43 UTC



# AO15 EAST OF OLD GRAND PORT VILLAGE, REPUBLIC OF MAURITIUS: POTENTIAL FLOATING OIL DETECTED



GEOEYE-1 / 01 AUGUST 2020 / 06:13:23 UTC



PLEIADES / 11 AUGUST 2020 / 06:28:19 UTC

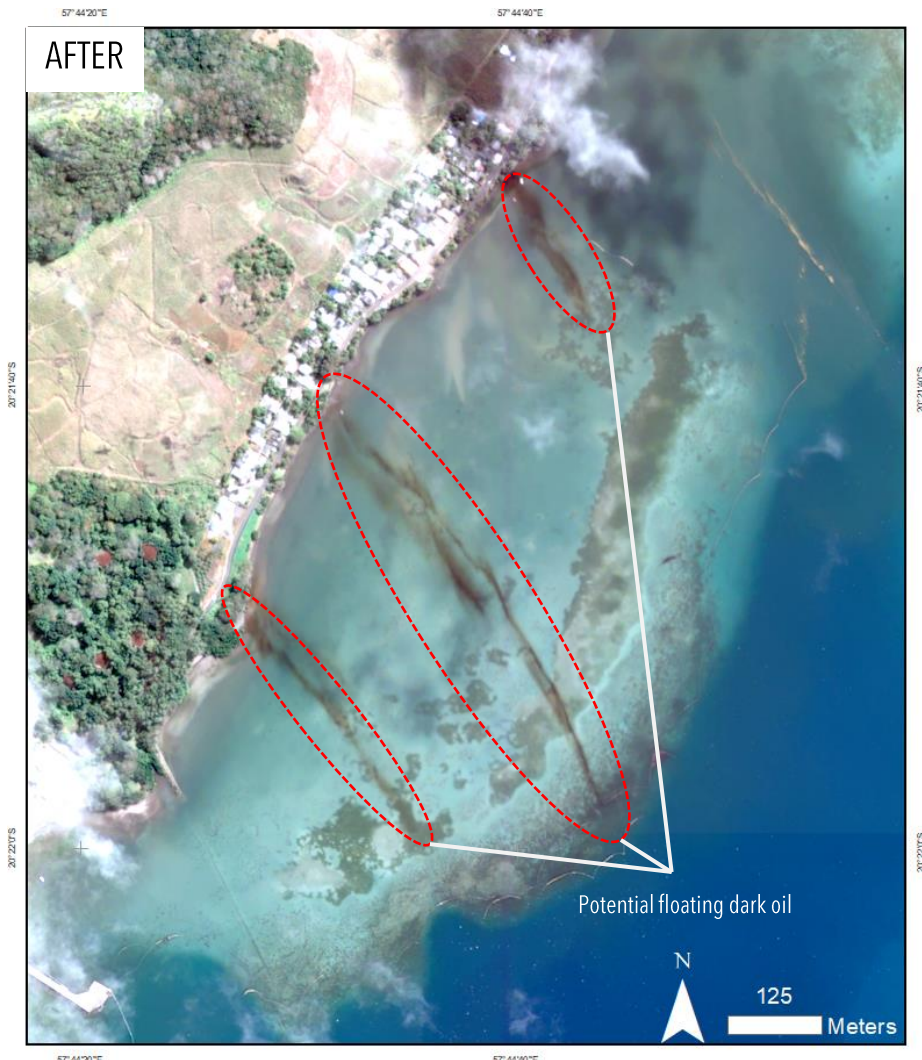




# AOI6 BOIS DES AMOURETTES VILLAGE, REPUBLIC OF MAURITIUS: POTENTIAL FLOATING DARK OIL DETECTED



GEOEYE-1 / 01 AUGUST 2020 / 06:13:23 UTC



PLEIADES / 12 AUGUST 2020 / 06:29:43 UTC





## SUMMARY OF PRELIMINARY OBSERVATIONS AND FURTHER ACTIONS

**Date of assessment validity: 12 August 2020**

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

- Difficult to delineate floating oil in Grand Port Bay area using Pleiades images in AOI1, 2 and 3 as of 12 August 2020 – 06:29:43 UTC;
- Potential floating oil detected in the northern part of Grand Port Bay in AOI4, 5 and 6 as of 11 and 12 August 2020;
- Difficult to detect oil spill from optical images in certain AOIs.

### **Further/ anticipated actions from UNOSAT:**

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

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