


13 March 2024

PRELIMINARY SATELLITE-DERIVED IMPACT ASSESSMENT



Bab al-Mandab Strait, Southern Red Sea

 Status: Possible floating oil film observed

 Further action(s): continue monitoring



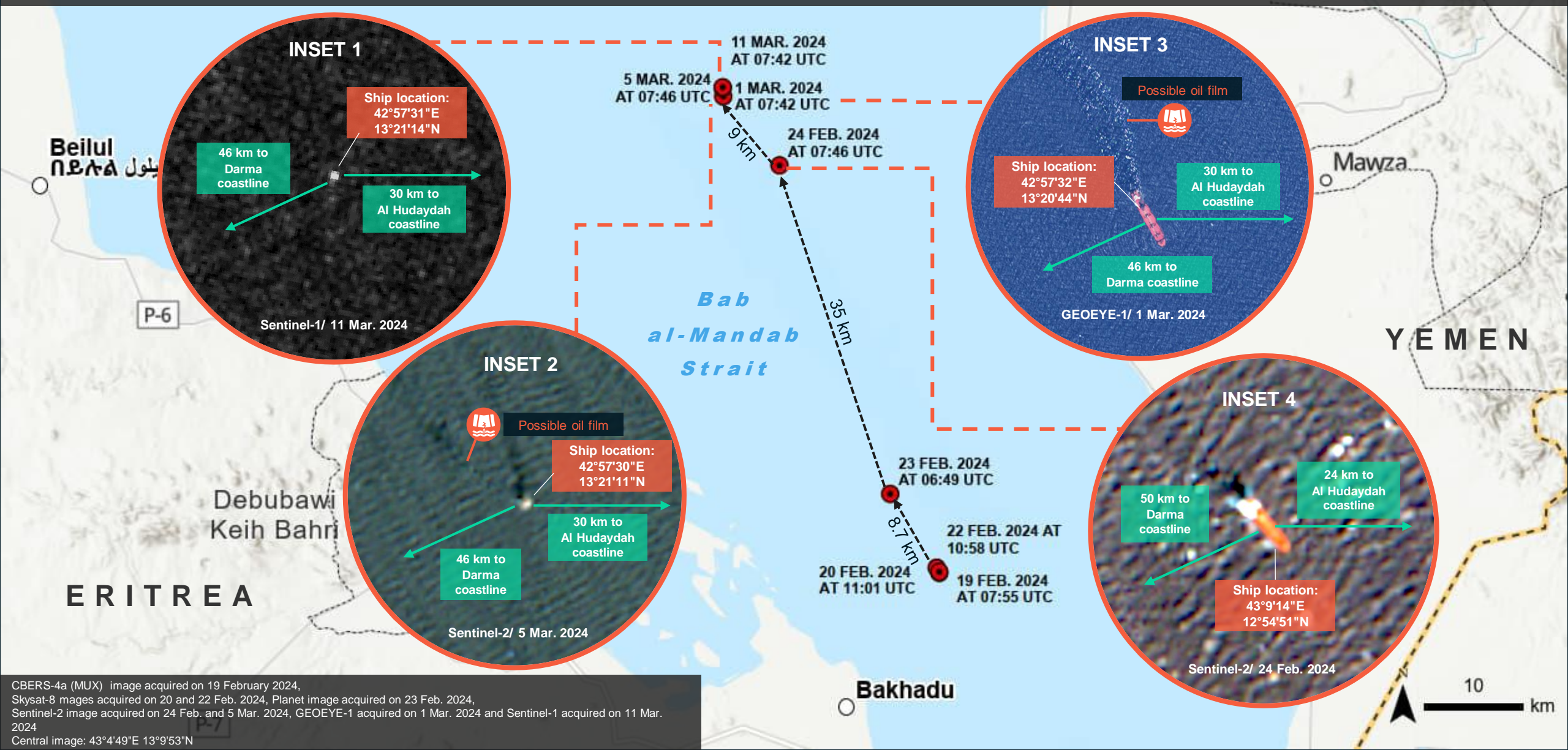
Southern Red Sea

13 March 2024



 Area of interest

THE MV RUBYMAR SHIP LOCATIONS IN BAB AL-MANDAB STRAIT, SOUTHERN RED SEA



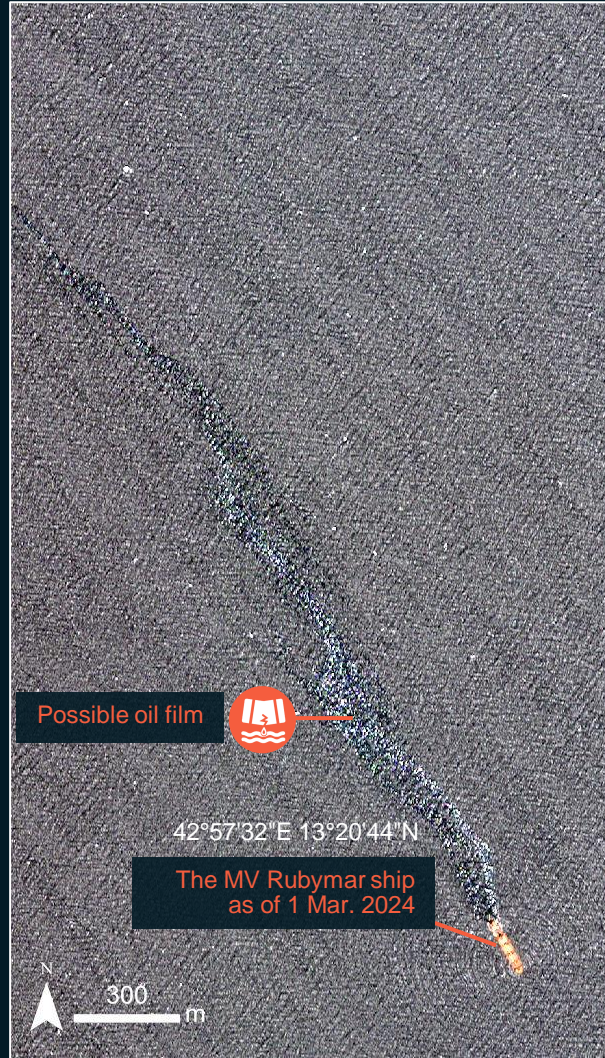
CBERS-4a (MUX) image acquired on 19 February 2024, Skysat-8 images acquired on 20 and 22 Feb. 2024, Planet image acquired on 23 Feb. 2024, Sentinel-2 image acquired on 24 Feb. and 5 Mar. 2024, GEOEYE-1 acquired on 1 Mar. 2024 and Sentinel-1 acquired on 11 Mar. 2024
Central image: 43°4'49"E 13°9'53"N

BAB AL-MANDAB STRAIT, SOUTHERN RED SEA

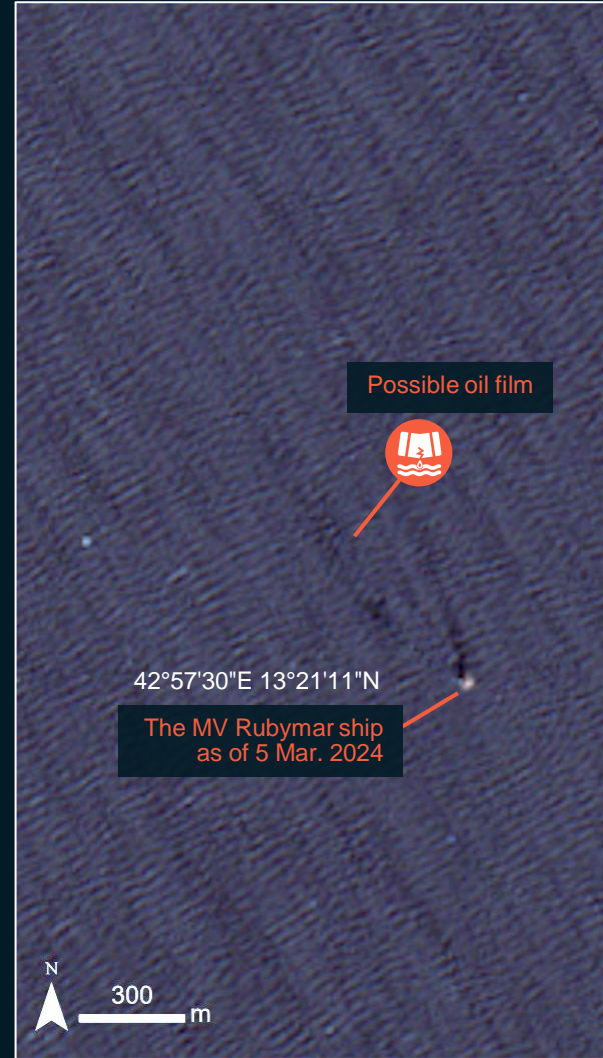
Possible floating oil film



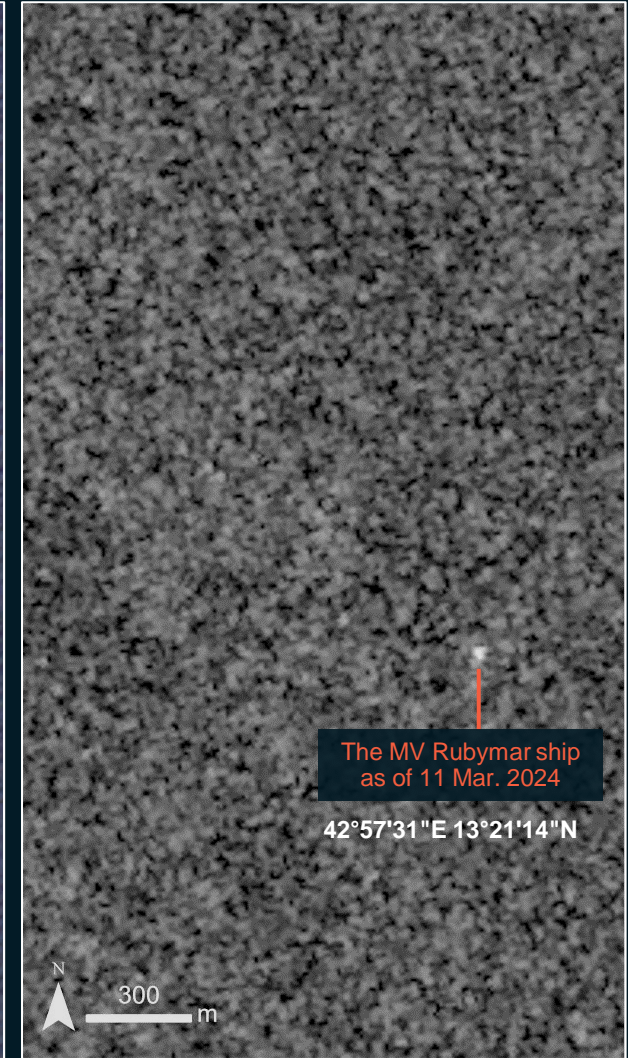
Sentinel-2 /29 Feb. 2024, 07:46 UTC



GEOEYE-1 /1 Mar. 2024, 07:41 UTC



Sentinel-2 /5 Mar. 2024, 07:46 UTC



Sentinel-1 /11 Mar. 2024, 07:42 UTC

BAB AL-MANDAB STRAIT, SOUTHERN RED SEA

Possible floating oil film



SUMMARY OF FINDINGS

- The MV Rubymar ship was observed in the Bab al-Mandab Strait, approximately 30 km west of the Yemeni city of Al Hudaydah, and about 46 km northeast of the coastal line of Darma in Eritrea as of March 11th, 2024.
- Possible floating oil film caused by the damaged MV Rubymar ship was observed in the Bab al-Mandab Strait on February 29th, March 1st, and March 5th, 2024.

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Data sources:

(1) Satellite Image (Post-event): CBERS-4a Satellite
Acquisition date : 19 February 2024
Resolution: 16 m
Copyright: (2024) INPE
Source: INPE

(2) Satellite Image (Post-event): SkySat 8
Acquisition date : 20 and 22 February 2024
Resolution: 50 cm
Copyright: © Planet Labs Inc. (2024)
Source: USGS / HDDS

(3) Satellite Image (Post-event): Sentinel-2
Acquisition date : 24 and 29 February and 5 March 2024
Resolution: 10 m
Copyright: Contains modified Copernicus Sentinel data [2024]
Source: ESA

(4) Satellite Image (Post-event): Planet
Acquisition date : 23 February 2024
Resolution: 3 m
Copyright: © Planet Labs Inc. (2024)
Source: USGS / HDDS

(5) Satellite Image (Post-event): GeoEye-1
Acquisition date : 1 March 2024
Resolution: 50 cm
Copyright: © 2024 Maxar
Source: USGS / HDDS

(6) Satellite Image (Post-event): Sentinel-1
Acquisition date : 11 March 2024
Resolution: 10 m
Copyright: Contains modified Copernicus Sentinel data [2024]
Source: ESA

(7) Ancillary data
Administrative boundaries: OCHA ROSEA, FEWS, OCHA FISSNatural
EarthNatural Earth and Central Statistical Organization (CSO)
Populated place: OSM

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

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