

**Observed Event**  
 599.9 ha

**Potentially affected population**  
 ~100

Potentially Affected Built-up and Transportations

**Built-up**  
 45 No.

**Road**  
 13.9 km

**Crisis Information**

- Flooded Area
- Withdrawn water
- Flood trace

**Built Up Grading**

- Destroyed
- Damaged
- Possibly damaged

**Facilities Grading**

- Dam, Destroyed

**Transportation Grading**

- Dam, Possibly damaged
- Road, Destroyed
- Road, Possibly damaged
- Track, No visible damage

**General Information**

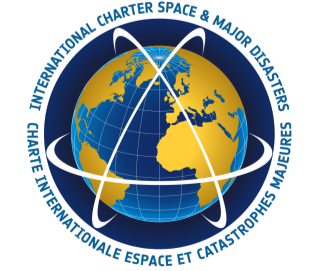
- Area of Interest
- Detail map
- Not Analysed

**Event:** On the 25 August 2024, the collapse of Arba'at Dam in Port Sudan is reported to have affected Sudan's northwest Red Sea State. The United Nations Office for the Coordination of Humanitarian Affairs (OCHA) reported that at least 60 people have been killed following the flash flooding that affected 20 villages and damaged a further 50 after the dam's collapse. It is estimated 50,000 people had been severely affected by the disaster. Copernicus EMS Rapid Mapping is requested to provide flood extent and damage assessment emergency mapping.

**Data sources and analysis:** Pre-event image: WorldView-3 © Maxar Technologies, Inc. (2024), (acquired on 08/02/2024 at 08:07 UTC, resolution 0.5 m).  
 Post-event image: Pléiades-1A/B © CNES (2024), distributed by Airbus DS (acquired on 29/08/2024 at 08:27 UTC, resolution 0.5 m).  
 This image is used as background image.

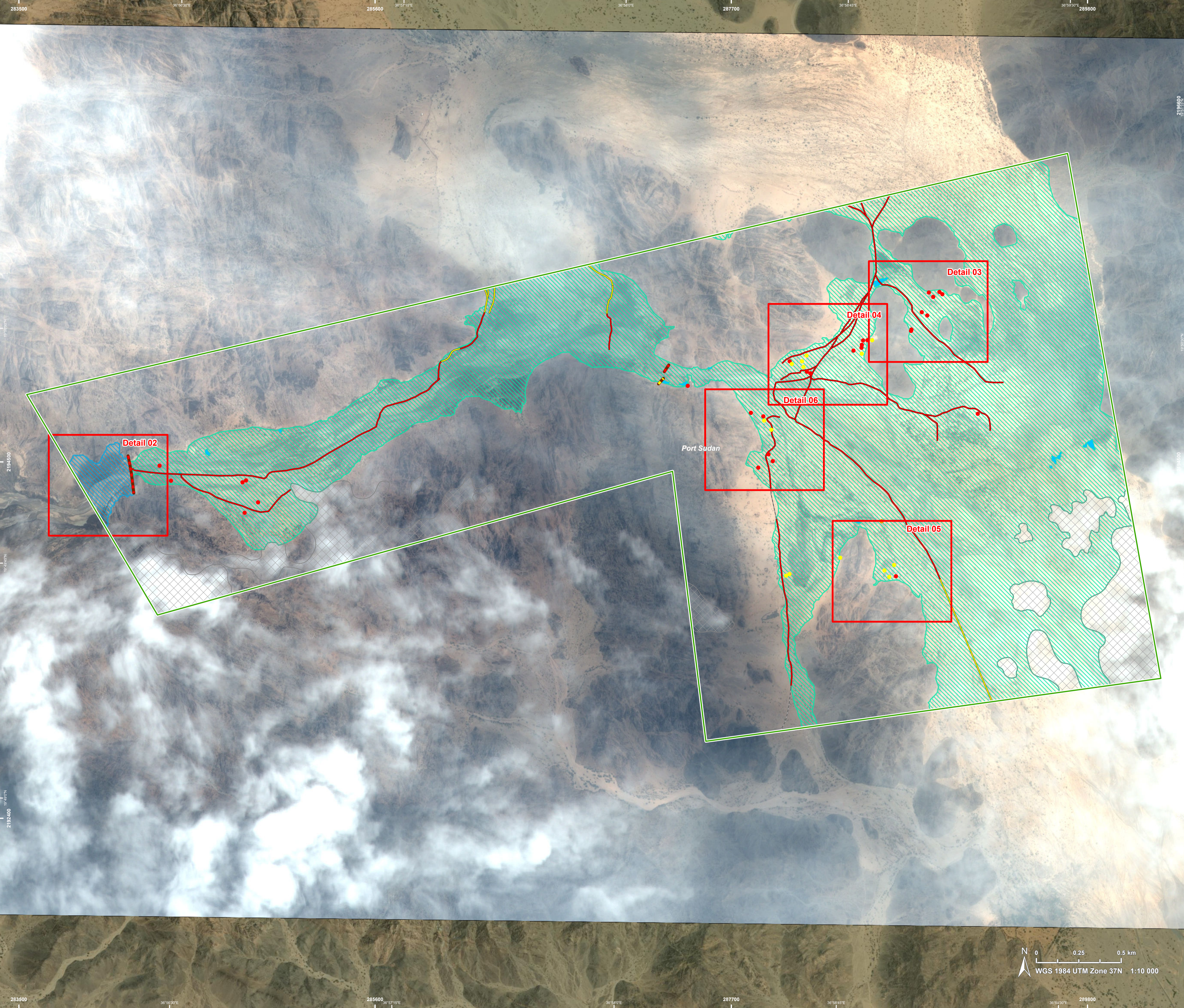
All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Due to cloud cover, the delineation of flood traces and potentially affected assets is not complete. The reference hydrography is not displayed, as it has been altered by the event.



Map produced by SERTIT released by e-GEOS on the 29/08/2024.

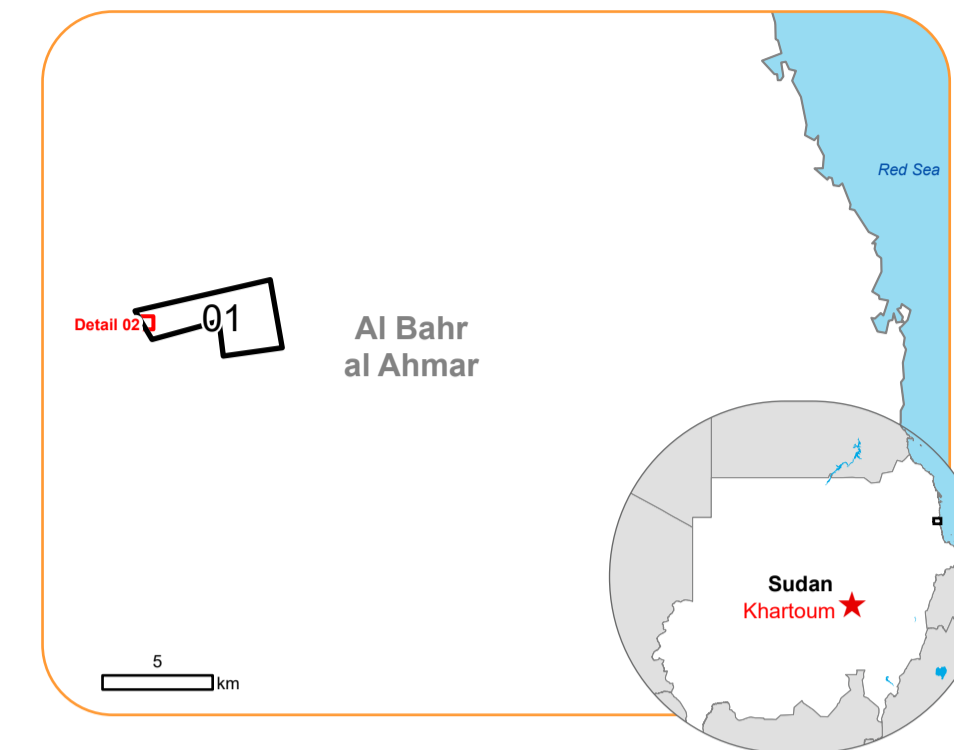
Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR750>





Situation as of 29/08/2024 08:27 UTC

Grading - Detail map 02



- |                           |                               |
|---------------------------|-------------------------------|
| <b>Crisis Information</b> | <b>Facilities Grading</b>     |
| Withdrawn water           | Dam, Destroyed                |
| Flood trace               | <b>Transportation Grading</b> |
| <b>Built Up Grading</b>   | Road, Destroyed               |
| Destroyed                 | <b>General Information</b>    |
|                           | Area of Interest              |
|                           | Not Analysed                  |

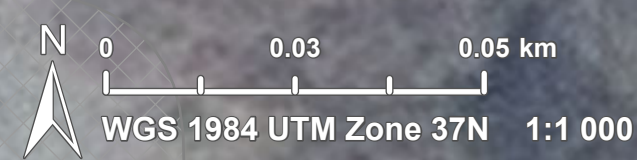


**Event** On the 25 August 2024, the collapse of Arba'at Dam in Port Sudan is reported to have affected Sudan's northwest Red Sea State. The United Nations Office for the Coordination of Humanitarian Affairs (OCHA) reported at least 60 people have been killed following the flash flooding that affected 20 villages and damaged a further 50 after the dam's collapse. It is estimated 50 000 people had been severely affected by the disaster. Copernicus EMS Rapid Mapping is requested to provide flood extent and damage assessment emergency mapping.

**Data sources and analysis:** Pre-event image: WorldView-3 © Maxar Technologies, Inc. (2024), (acquired on 08/02/2024 at 08:07 UTC, resolution 0.5 m).  
Post-event image: Pléiades-1A/B © CNES (2024), distributed by Airbus DS (acquired on 29/08/2024 at 08:27 UTC, resolution 0.5 m).  
This image is used as background image.

All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Due to cloud cover, the delineation of flood traces and potentially affected assets is not complete. The reference hydrography is not displayed, as it has been altered by the event.



Map produced by SERTIT released by e-GEOS on the 29/08/2024.

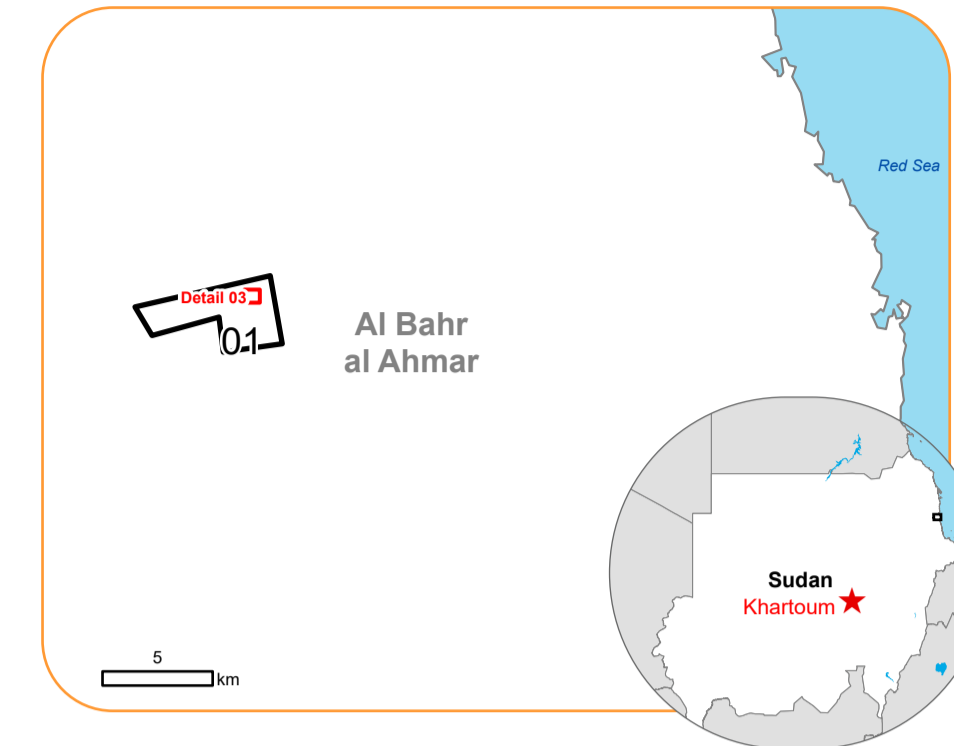
Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR750>





Situation as of 29/08/2024 08:27 UTC

Grading - Detail map 03



Crisis Information

- Flooded Area
- Flood trace

Built Up Grading

- Destroyed

Possibly damaged

Transportation Grading

- Road, Destroyed

General Information

- Area of Interest

**Event:** On the 25 August 2024, the collapse of Arba'at Dam in Port Sudan is reported to have affected Sudan's northwest Red Sea State. The United Nations Office for the Coordination of Humanitarian Affairs (OCHA) reported at least 60 people have been killed following the flash flooding that affected 20 villages and damaged a further 50 after the dam's collapse. It is estimated 50 000 people had been severely affected by the disaster. Copernicus EMS Rapid Mapping is requested to provide flood extent and damage assessment emergency mapping.

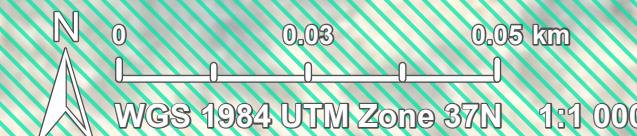
**Data sources and analysis:** Pre-event image: WorldView-3 © Maxar Technologies, Inc. (2024), (acquired on 08/02/2024 at 08:07 UTC, resolution 0.5 m). Post-event image: Pléiades-1A/B © CNES (2024), distributed by Airbus DS (acquired on 29/08/2024 at 08:27 UTC, resolution 0.5 m). This image is used as background image.

All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Due to cloud cover, the delineation of flood traces and potentially affected assets is not complete. The reference hydrography is not displayed, as it has been altered by the event.

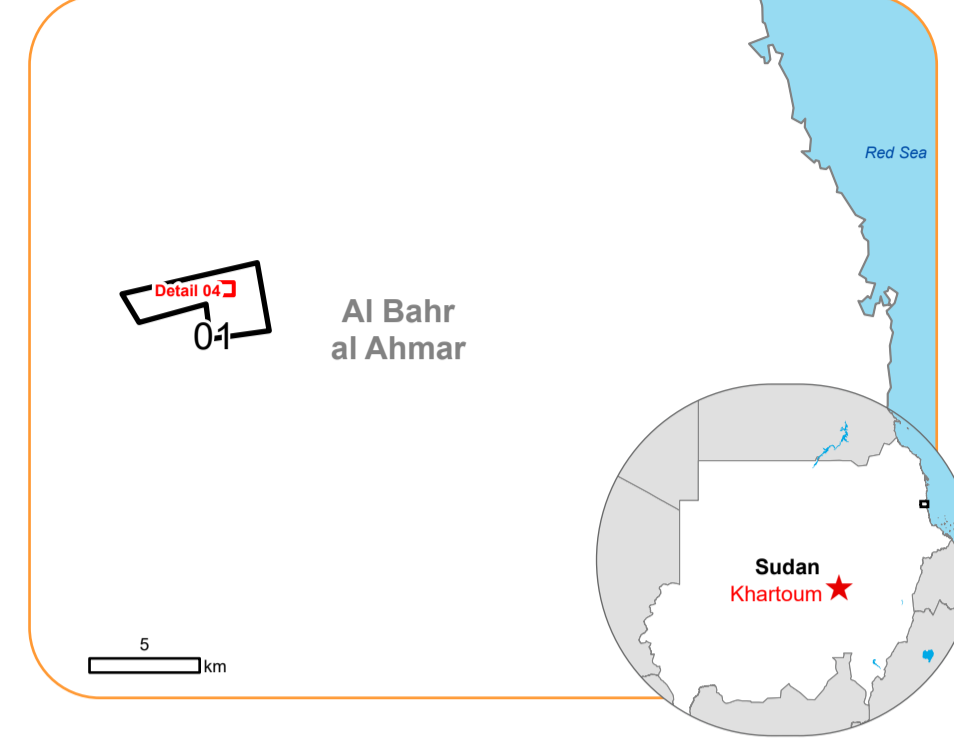
Map produced by SERTIT released by e-GEOS on the 29/08/2024.

Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR750>



**EMSR750 - AOI01**  
**Flood in Sudan**  
**ARBAAT DAM**

**Situation as of 29/08/2024 08:27 UTC**  
Grading - Detail map 04



- Crisis Information**
- Flood trace
- Built Up Grading**
- Destroyed
- Possibly damaged
- Transportation Grading**
- Road, Destroyed
- General Information**
- Area of Interest



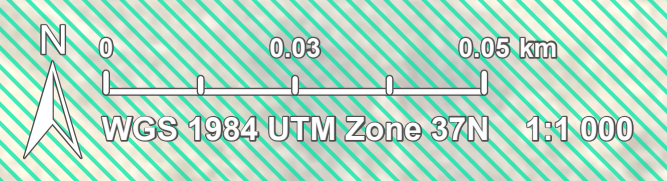
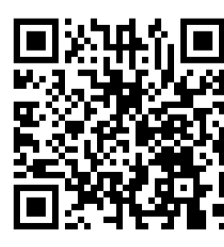
**Event:** On the 25 August 2024, the collapse of Arba'at Dam in Port Sudan is reported to have affected Sudan's northwest Red Sea State. The United Nations Office for the Coordination of Humanitarian Affairs (OCHA) reported at least 60 people have been killed following the flash flooding that affected 20 villages and damaged a further 50 after the dam's collapse. It is estimated 50 000 people had been severely affected by the disaster. Copernicus EMS Rapid Mapping is requested to provide flood extent and damage assessment emergency mapping.

**Data sources and analysis:** Pre-event image: WorldView-3 © Maxar Technologies, Inc. (2024), (acquired on 08/02/2024 at 08:07 UTC, resolution 0.5 m).  
Post-event image: Pléiades-1A/B © CNES (2024), distributed by Airbus DS (acquired on 29/08/2024 at 08:27 UTC, resolution 0.5 m).  
This image is used as background image.

All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.  
The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Due to cloud cover, the delineation of flood traces and potentially affected assets is not complete. The reference hydrography is not displayed, as it has been altered by the event.

Map produced by SERTIT released by e-GEOS on the 29/08/2024.

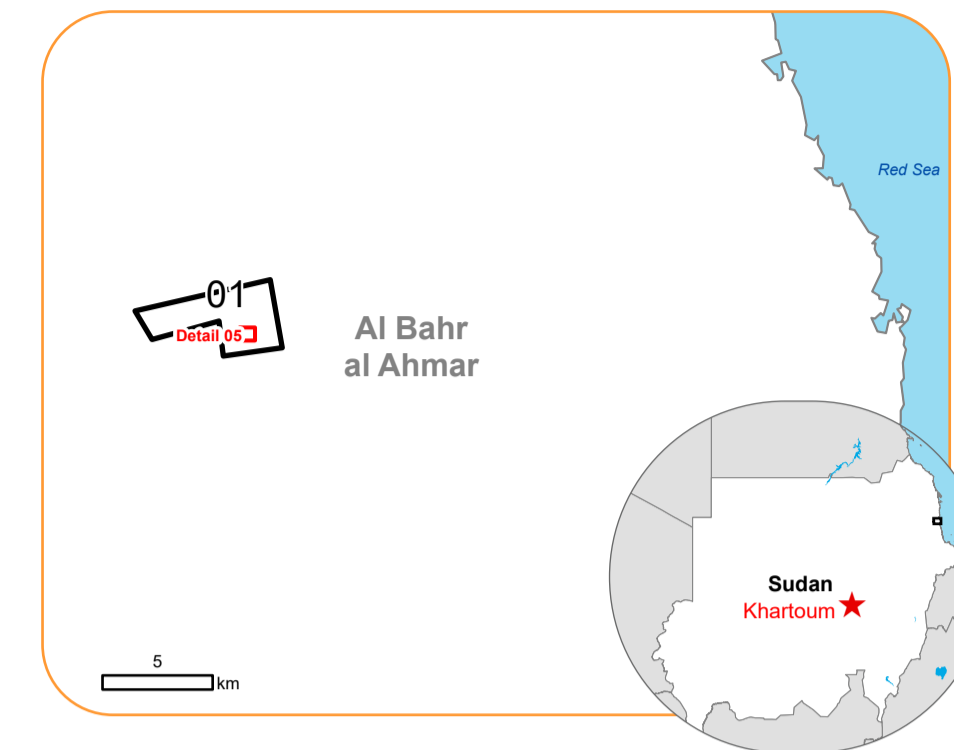
Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR750>





Situation as of 29/08/2024 08:27 UTC

Grading - Detail map 05



- Crisis Information**
  - Flooded Area
  - Flood trace
- Built Up Grading**
  - Destroyed
  - Damaged
- Transportation Grading**
  - Road, Destroyed
  - Road, Possibly damaged
- General Information**
  - Possibly damaged
  - Area of Interest

**Event** On the 25 August 2024, the collapse of Arba'at Dam in Port Sudan is reported to have affected Sudan's northwest Red Sea State. The United Nations Office for the Coordination of Humanitarian Affairs (OCHA) reported at least 60 people have been killed following the flash flooding that affected 20 villages and damaged a further 50 after the dam's collapse. It is estimated 50 000 people had been severely affected by the disaster. Copernicus EMS Rapid Mapping is requested to provide flood extent and damage assessment emergency mapping.

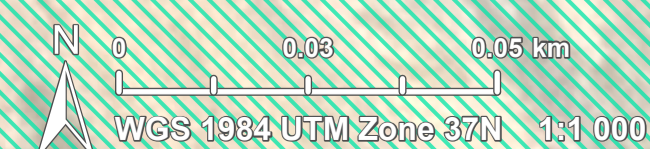
**Data sources and analysis:** Pre-event image: WorldView-3 © Maxar Technologies, Inc. (2024), (acquired on 08/02/2024 at 08:07 UTC, resolution 0.5 m). Post-event image: Pléiades-1A/B © CNES (2024), distributed by Airbus DS (acquired on 29/08/2024 at 08:27 UTC, resolution 0.5 m). This image is used as background image.

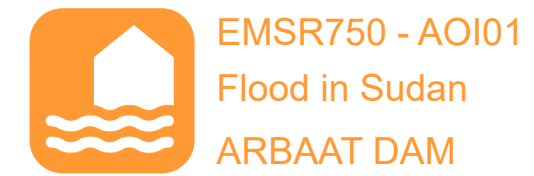
All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Due to cloud cover, the delineation of flood traces and potentially affected assets is not complete. The reference hydrography is not displayed, as it has been altered by the event.

Map produced by SERTIT released by e-GEOS on the 29/08/2024.

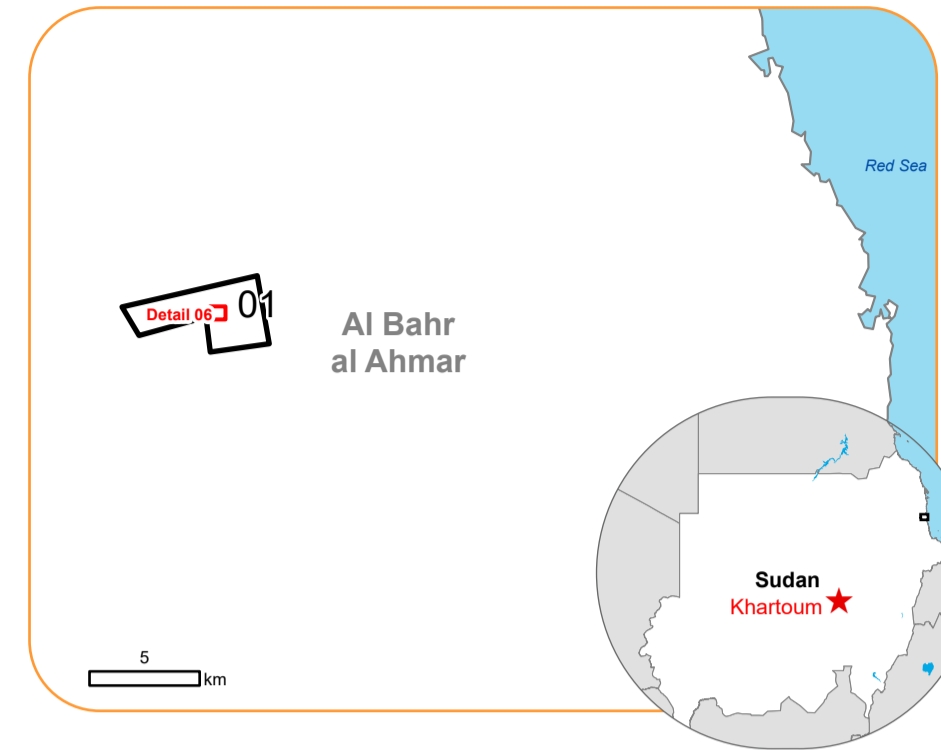
Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR750>





Situation as of 29/08/2024 08:27 UTC

Grading - Detail map 06



**Crisis Information**

Flood trace

Built Up Grading

- Destroyed
- Possibly damaged

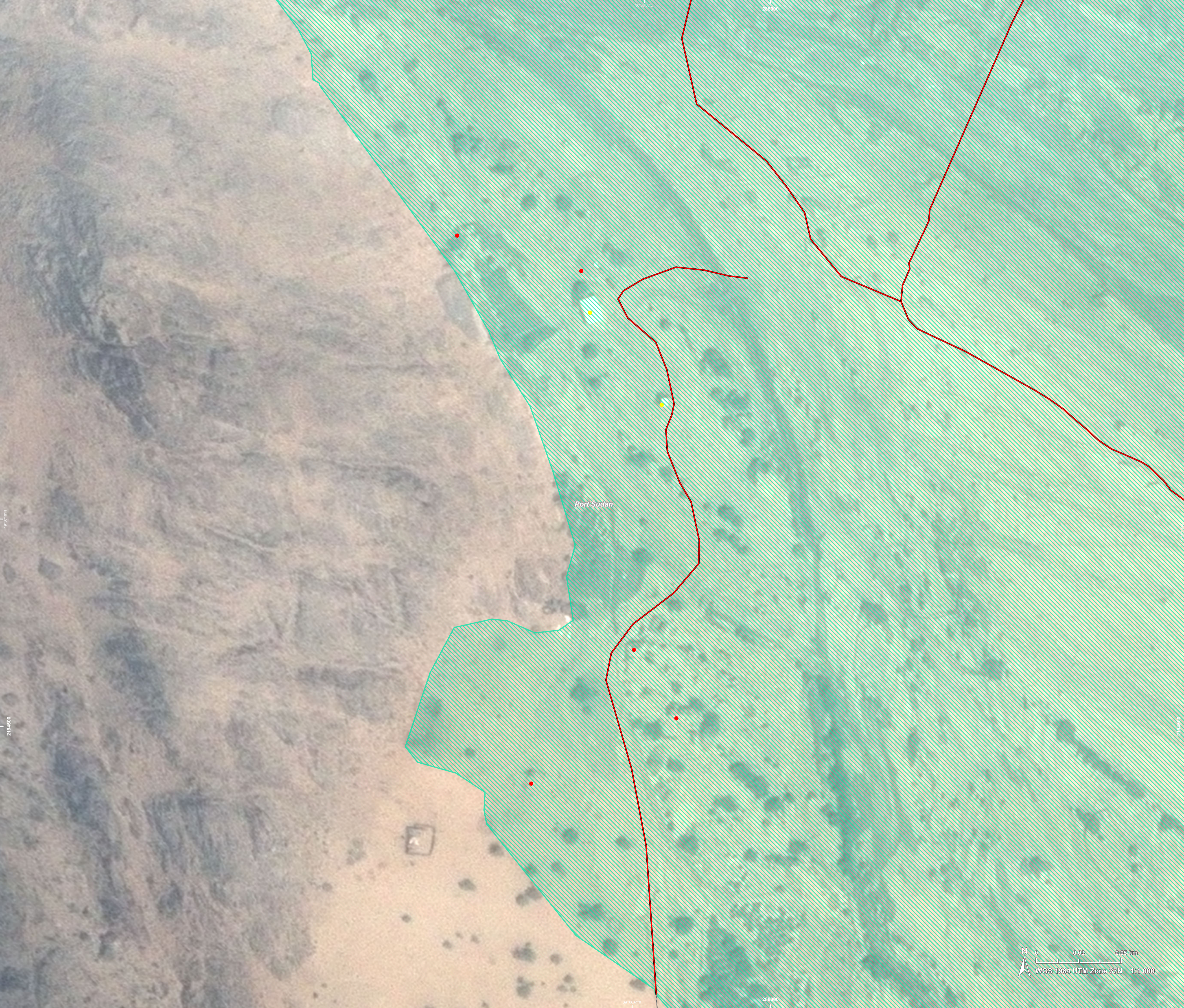
**Transportation Grading**

Road, Destroyed

Track, No visible damage

**General Information**

Area of Interest

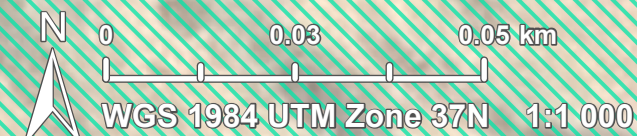


**Event:** On the 25 August 2024, the collapse of Arba'at Dam in Port Sudan is reported to have affected Sudan's northwest Red Sea State. The United Nations Office for the Coordination of Humanitarian Affairs (OCHA) reported at least 60 people have been killed following the flash flooding that affected 20 villages and damaged a further 50 after the dam's collapse. It is estimated 50 000 people had been severely affected by the disaster. Copernicus EMS Rapid Mapping is requested to provide flood extent and damage assessment emergency mapping.

**Data sources and analysis:** Pre-event image: WorldView-3 © Maxar Technologies, Inc. (2024), (acquired on 08/02/2024 at 08:07 UTC, resolution 0.5 m).  
Post-event image: Pléiades-1A/B © CNES (2024), distributed by Airbus DS (acquired on 29/08/2024 at 08:27 UTC, resolution 0.5 m).  
This image is used as background image.

All images are provided under COPERNICUS by the European Union and ESA, all rights reserved.

The thematic layer has been derived from post-event satellite image using a semi-automatic approach. Due to cloud cover, the delineation of flood traces and potentially affected assets is not complete. The reference hydrography is not displayed, as it has been altered by the event.



Map produced by SERTIT released by e-GEOS on the 29/08/2024.

Details on this activation and service conditions available through the QR code or at the link: <https://rapidmapping.emergency.copernicus.eu/EMSR750>



Consequences within the AOI						
	Unit of measurement	Destroyed	Damaged	Possibly damaged*	Total affected**	Total in AOI
Flood trace	ha					589.6
Flooded area	ha					0.7
Withdrawn water	ha					9.6
Estimated population	Number of inhabitants				~ 100	~ 100
Built-up	Residential Buildings	No. 23	0	9	32	46
	Building point	No. 7	1	5	13	16
Transportation	Local Road	km 6.0	0	1.7	7.7	7.7
	Cart Track	km 6.2	0	0	6.2	6.6
Facilities	Dams	km 0.3	0	0.04	0.3	0.3
Land use	Open spaces with little or no vegetation	ha			332.1	950.4
	Shrub and/or herbaceous vegetation association	ha			247.3	295.9
	Heterogeneous agricultural areas	ha			12.2	12.5
	Other	ha			7.2	7.5
	Forests	ha			1.1	1.1

\* Presence of damage proxies and proximity with destroyed/damaged asset  
 \*\* Sum of all damage classes

**Disclaimer:**

Full disclaimer and other helpful information available in the online manual:  
<https://emergency.copernicus.eu/mapping/ems/online-manual-rapid-mapping-products>  
 © European Union / Copernicus Emergency Management Service

**Data Access:**

All data displayed on the map(s), as well as the Physiography and Land Use - Land Cover layers, are available in the Crisis Information Package and the Base Layer Package (for reference data). The table above is available in editable format in the Crisis Information Package. All products and data are also available for download on the portal.

**Estimated Population:**

Estimated population is based on Copernicus Global Human Settlement Layer (GHSL) dataset. Additional population datasets and analysis are available in the summary table.

**Data Sources:**

Base Vector Layers: OpenStreetMap © OpenStreetMap contributors (2024), Wikimapia.org, GeoNames 2015, Global Administrative Areas (2012), refined by the producer, Globe Land 30 (2010), Copernicus Global Land Service: Land Cover (2019). Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2015. Digital Elevation Model: FABDEM (ForestAndBuildingsremovedCopernicusDEM) removes building and tree height biases from the Copernicus GLO 30 Digital Elevation Model (DEM) (Airbus,2020).

Access to the portal

