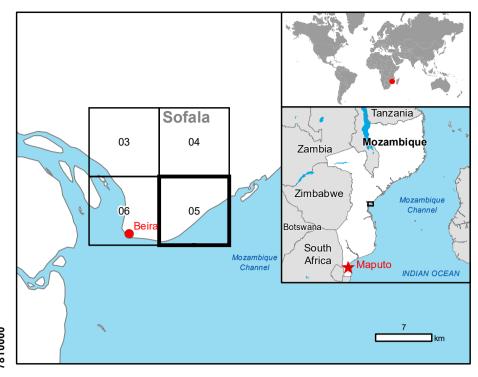


Product N.: 05BEIRASE, v1, English

## Beira SE - MOZAMBIQUE Storm - Situation as of 24/01/2019

**Delineation Map** 

Activation ID: EMSR339



## Cartographic Information

Full color ISO A1, medium resolution (200 dpi)

Grid: WGS 1984 UTM Zone 36S map coordinate system Tick marks: WGS 84 geographical coordinate system

**Hydrography** ----Coastline ----River

**Physiography Elevation Contour Transportation** Airfield runway

——Primary Road

Airfield runway

——Local Road

Lake \_\_\_Land Subject to Inundation

Open Water

Unit of measurement Affected Total in AOI

796.6 Traffic and communication 65.0 ha 1.0 km 0.0 2.8 Primary Road km 31.6 281.7

On 21 January 2019 Tropical cyclone Desmond made landfall on the Mozambique coast about 40km to the south of Chinde, 200km to the north of Beira, but the worst of the rain was to the west of the storm's centre. Beira, the fourth largest city in Mozambique, was badly hit. It has been reported by the World Food Programme in Mozambique that Beira, Chinde and Quelimane were heavily affected by floods, especially urban flooding, and the situation on the ground has been reported to be critical.

thematic layer has been derived from post-event satellite images using a semi-automatic approach. Most 24/01/2019 flooded areas were derived from the Pléiades data (08:11 UTC) and completed in cloudy areas with RADARSAT-2 data (03:11 UTC). The estimated geometric accuracy is 5 m CE90 or better, from native positional accuracy of the background

Relevant date records			
Event	21/01/2019	Situation as of	24/01/2019
Activation	23/01/2019	Map production	24/01/2019

Pre-event image: WorldView-3 © Digitalglobe Digital Globe, Inc. (2018), (acquired on 21/08/2018 at 08:16 UTC, GSD 0.5 m, approx. 0% cloud coverage in AoI, 11.6° off-nadir angle), provided under COPERNICUS by the European Union, ESA and European Space

Post-event image: Pléiades-1B © CNES (2019), distributed by Airbus DS (acquired on 24/01/2019 at 08:11 UTC, GSD 0.5 m, approx. 0% cloud coverage in AoI, 24.8° off-nadir angle), provided under COPERNICUS by the European Union and ESA, all rights reserved.

RADARSAT 2 Data and products © MacDonald, Dettwiler and Associates Ltd. (2019) (acquired on 24/01/2019 at 03:11 UTC, GSD 3 m) – RADARSAT is an official mark of the Canadian Space Agency – provided under COPERNICUS by the European Union and ESA,

Base vector layers: OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames 2015, refined by the producer. Inset maps: JRC 2013, Natural Earth 2012, GeoNames 2013.

Population data: GHS Population Grid © European Commission, 2015 http://data.europa.eu/89h/jrc-ghsl-ghs\_pop\_gpw4\_globe\_r2015a. Digital Elevation Model: SRTM (30m) (NASA/USGS)

geographic information has limitations due to scale, resolution, date and interpretation of the original sources. No liability concerning the contents or the use thereof is assumed by the producer and by the European Union. Please be aware that the thematic accuracy might be lower in urban and forested areas due

to inherent limitations of the SAR analysis technique.

Map produced by SERTIT released by SERTIT (ODO).

http://emergency.copernicus.eu/EMSR339

jrc-ems-rapidmapping@ec.europa.eu



