



GLIDE number: N/A      Activation ID: EMSR-024  
Product N.: 00AlMafraq, v1

## Za'atri camp, Al Mafraq - JORDAN

### Flood - 07/01/2013

#### Delineation Map - Detail

Production date: 09/01/2013



#### Cartographic Information

1:4 000      Full color ISO A1, medium resolution (200 dpi)



Map Coordinate System: WGS 1984 UTM Zone 37N  
Graticule: WGS 84 geographical coordinates

#### Legend

- |                            |                  |
|----------------------------|------------------|
| <b>General Information</b> | <b>Hydrology</b> |
| Area of Interest           | Stream           |
| Flooded Area               | Reservoir        |
| <b>Transportation</b>      |                  |
| Primary Road               |                  |
| Local Road                 |                  |
| Other                      |                  |
| Aerodrome                  |                  |
| Runway                     |                  |

#### Map Information

Extended periods of heavy rain across large parts of Jordan have caused flooding in a number of areas. The refugee camp at Za'atri has been affected by this and is in urgent need of drainage to alleviate the problem.  
The German Federal Relief Agency (THW) is implementing drainage works in the camp and this reference map is foreseen to assist in the planning of these works.  
The core users of the map are Humanitarian Aid Operators. The scope of the map production is planning and support to logistics.

**Data Sources**  
WorldView-02 © DigitalGlobe (acquired on 03/01/2013, GSD 0.6 m, 0% cloud coverage, 33.4° off-nadir angle) provided under ESA GSC-DA DWH License.  
RADARSAT-2 © MDA (2013) (acquired on 09/01/2013, GSD 0.5m, 0% occlusion)  
Base vector layers based on Openstreetmap, Wikimapia and Geonames (extracted on 27/07/2012, approx 1:5000) refined by SIRS.  
Elevation data: SRTM v4 (90m posting).  
All Data sources are complete and with no gaps.

**Dissemination/Publication**  
No restrictions on the publication of the mapping apply.  
Delivery formats are GeoTIFF, GeoPDF, GeoJPEG and vectors (shapefile and KML formats).

#### Framework

The products elaborated in the framework of current mapping in rush mode activation are realized to the best of our ability, within a very short time frame during a crisis, optimising the available data and information. All geographic information has limitations due to scale, resolution, date and interpretation of the original data sources. The products are compliant with GIO-EMS RUSH Product Portfolio specifications.

#### Map production

The present map shows potentially flooded areas detected from RADARSAT-2 image (09/01/2013) in the area of Za'atri (Jordan). Flooded areas have been derived by SIRS using semi-automatic processing techniques.  
Basic topographic features are derived from public open source and institutional datasets, refined by means of visual interpretation of pre-event WorldView-02 satellite imagery (03/01/2013, GSD 0.6 m, 0% cloud coverage).  
Satellite images have been radiometrically enhanced and orthorectified using RPC and SRTM elevation data.  
The estimated geometric accuracy of this product is 12 m CE90 or better, from native positional accuracy of the reference satellite image.  
The estimated thematic accuracy of this product is 85% or better, as it is based on previous experience in using high-resolution SAR data for flood extent delineation. Please be aware that the thematic accuracy might be lower within the camp area due to known limitations of the analysis technique.  
Map produced on 09/01/2013 by SIRS under contract 257219 with the European Commission. All products are © of the European Commission.  
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