unitar
United Nations Institute for Training and Research

IRAN

Sarpol-e-Zahab North, Kermanshah

Imagery analysis: 16 November 2017 | Published 24 November 2017 | Version 1.0

Earthquake

EQ20171112IRQ

UNOSAT

Buildings Damage Assessment & Related Density North of Sarpol-e-Zahab County, Iran

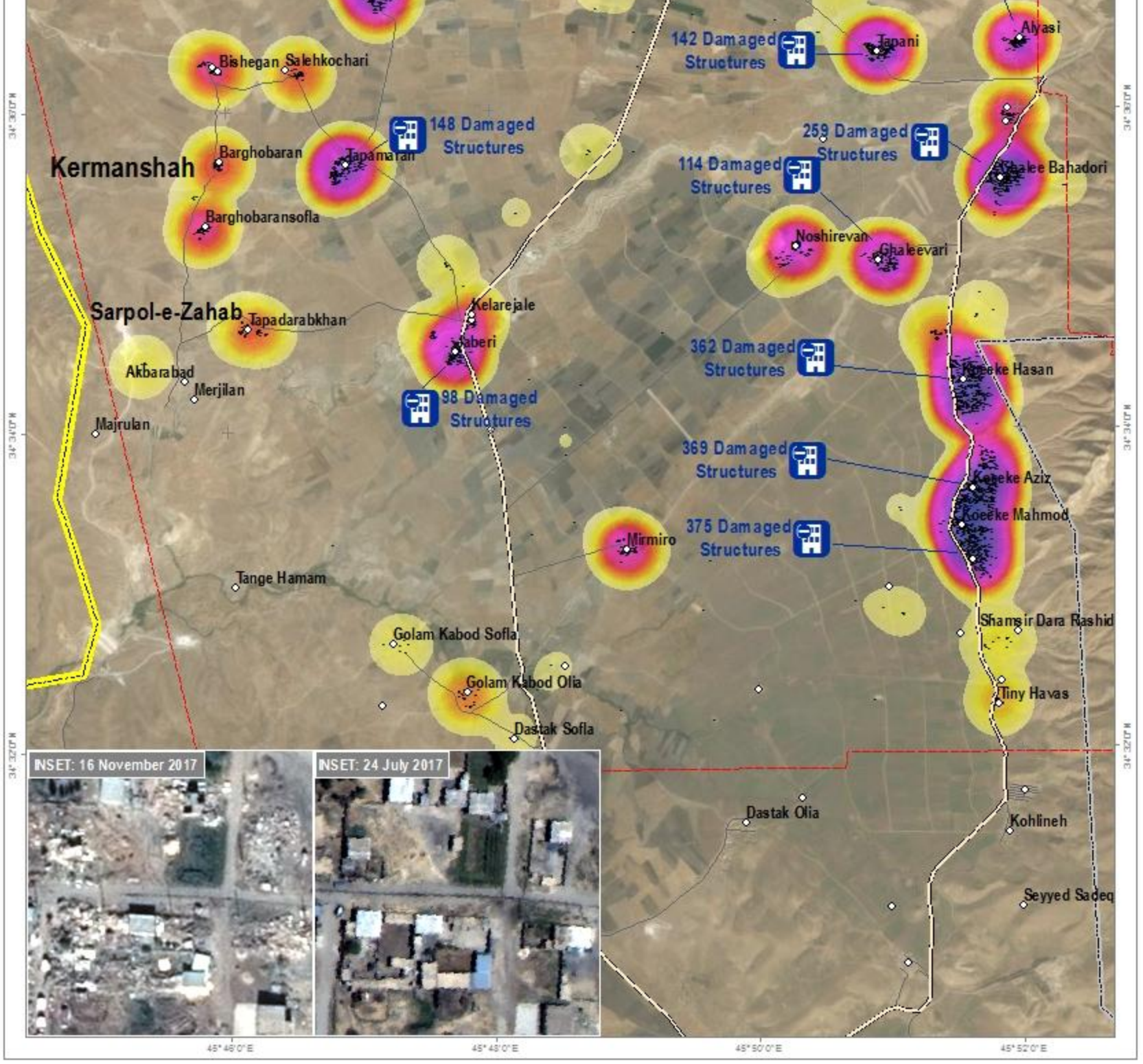
This map illustrates satellite-detected damaged and potentially damaged buildings and the related density of damage in the areas north of Sarpol-e-Zahab county in Kermanshah province, Iran following the M 7.3 earthquake that struck the area on the 12 November 2017. The analysis was carried out comparing a post-event Pleiades image acquired on the 16 November 2017 with a pre-event WorldView3 image of 24 July 2017. The results indicate damage across several localities and villages in this zone and about 3300 structures were identified as potentially damaged (e.g. 362 in Koeeke Hasan; 148 in Tapamaran and 98 in Jaberi). This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to UNITAR - UNOSAT.

Legend

- Damaged Structure
- Locality
- City
- Primary road
- Secondary road
- Local road
- Analyzed area
- County boundary
- International Boundary

Damage Density

- High damage density
- Low damage density



Map Scale for A3: 1:60,000

0 0.5 1 2 3 Km

Analysis conducted with ArcGIS v10.4.1

Coordinate System: WGS 1984 UTM Zone 38N
Projection: Transverse Mercator
Datum: WGS 1984
Units: Meter

Satellite Data (1): Pleiades
Imagery Dates: 16 November 2017
Resolution: 50 cm
Copyright: CNES 2017, distribution Airbus DS
Source: Airbus Defense and Space

Satellite Data (2): WorldView 3
Imagery Dates: 24 July 2017
Resolution: 31 cm
Copyright: DigitalGlobe, Inc
Source: USGS/HDDS

Other Data : Bing, Open Street Map, GADM
Analysis : UNITAR - UNOSAT
Production: UNITAR - UNOSAT