

DAMAGE DENSITY IN THE CITIES OF HOMMS, ALEPPO, HAMA, DEIR EZ ZOR, AR RAQQA, AND DARAA, SYRIA

Analysis with WorldView-1, WorldView-2, Pleiades, GeoEye-1, and QuickBird-2 Data Acquired in 2015, 2014, 2013, 2011 and 2010

This map illustrates satellite-detected areas of damage and destruction in the Syrian cities of Homs, Aleppo, Hama, Deir Ez Zor, Ar Raqqa, and Daraa. Using satellite imagery from 2015, 2014, 2013, 2011, and 2010, UNITAR - UNOSAT created a damage site density index for affected areas in each city. City-wide analyses revealed a total of 13,778 affected structures in Homs, 14,034 in Aleppo, 5,233 in Hama, 3,416 in Deir Ez Zor, 1,601 in Ar Raqqa, and 966 in Daraa. The cities of Homs and Hama were not updated with 2015 imagery. This analysis was done of the REACH initiative for the U.S. Office of Foreign Disaster Assistance. This is a preliminary analysis & has not yet been validated in the field. Please send ground feedback to UNITAR - UNOSAT.

Complex Emergency

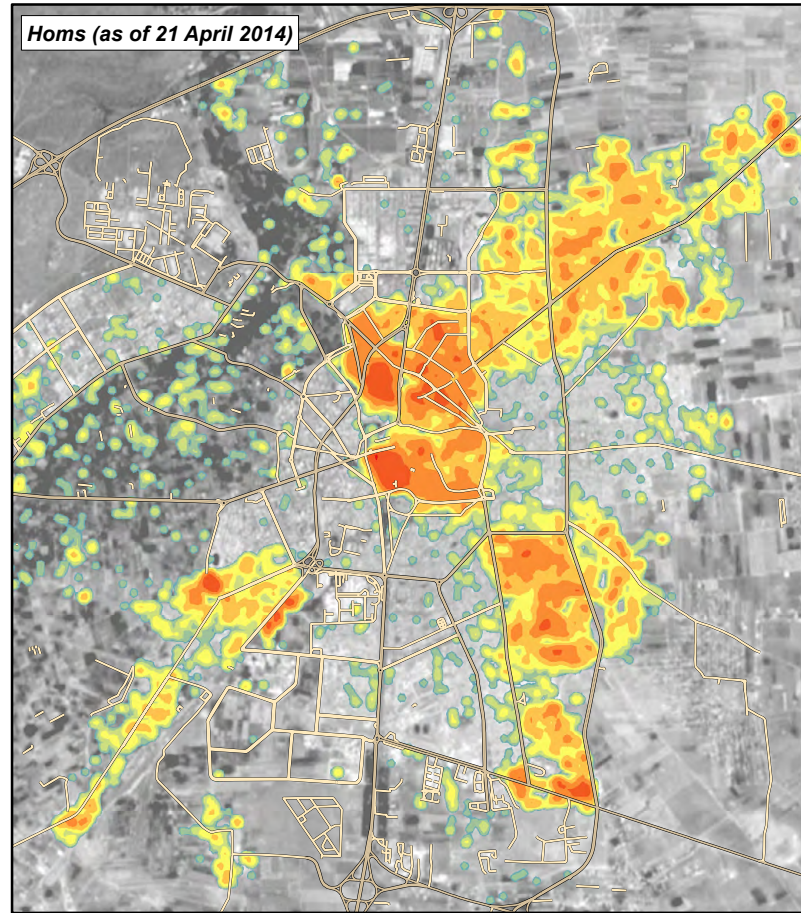


Production Date:
7/10/2015

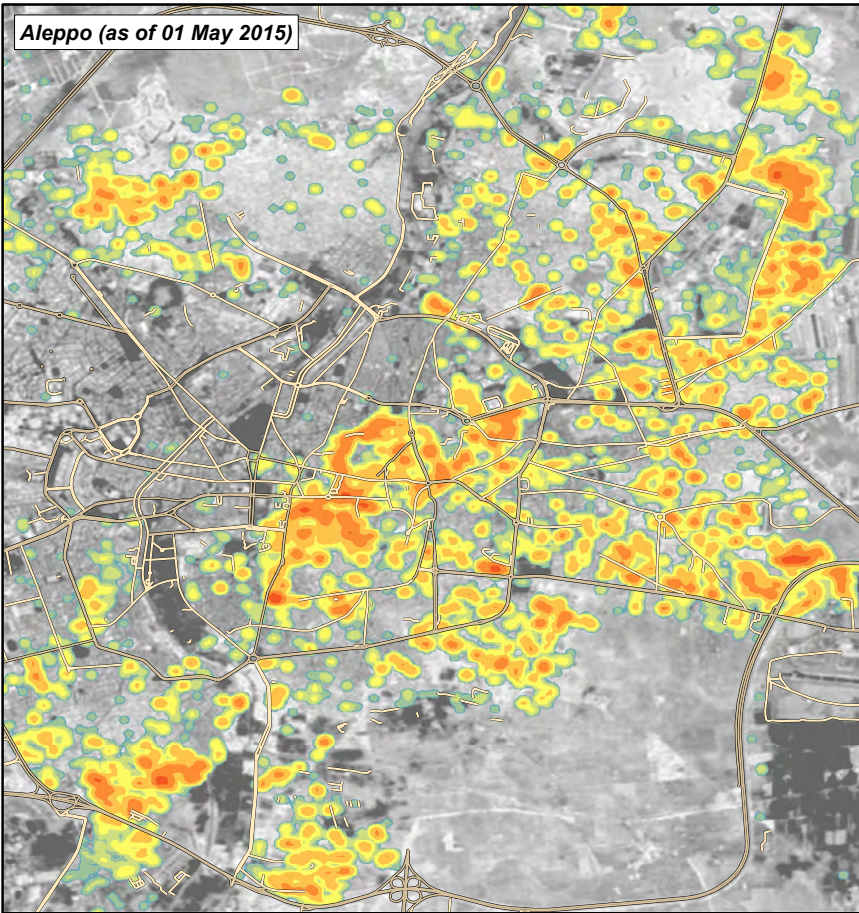
Version 1.0

Activation Number:
CE20130604SYR

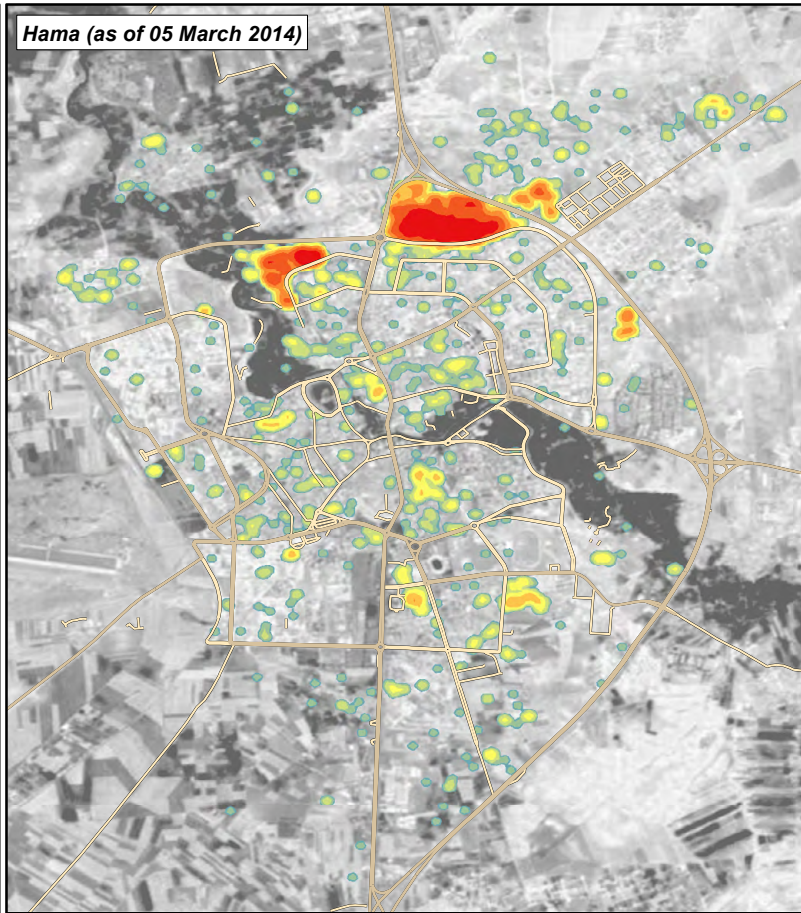
Homs (as of 21 April 2014)



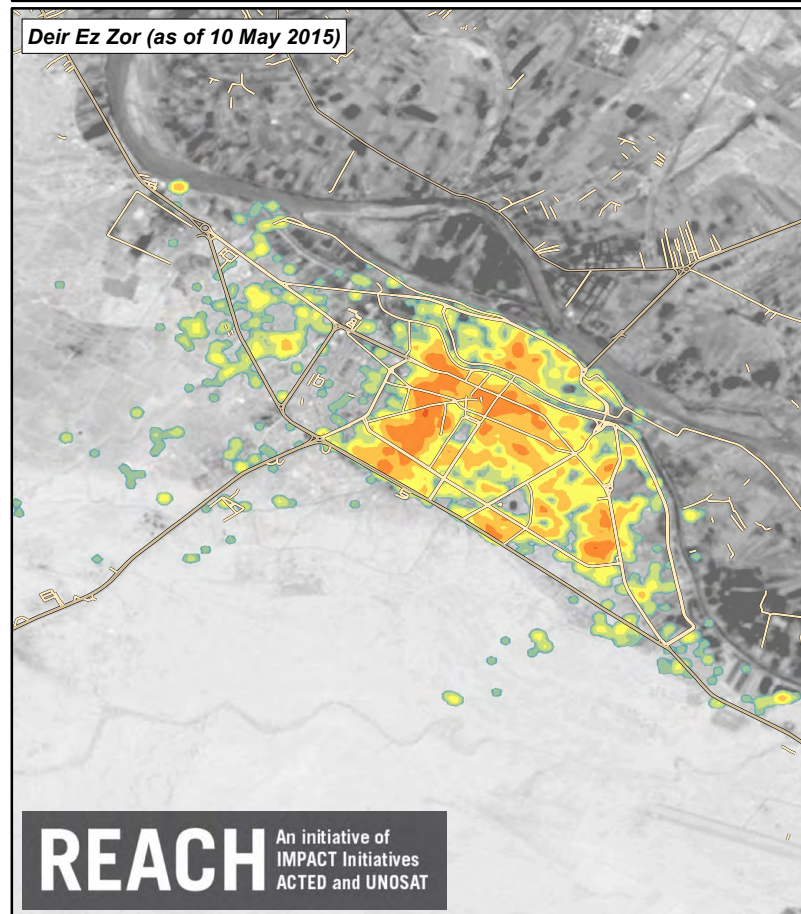
Aleppo (as of 01 May 2015)



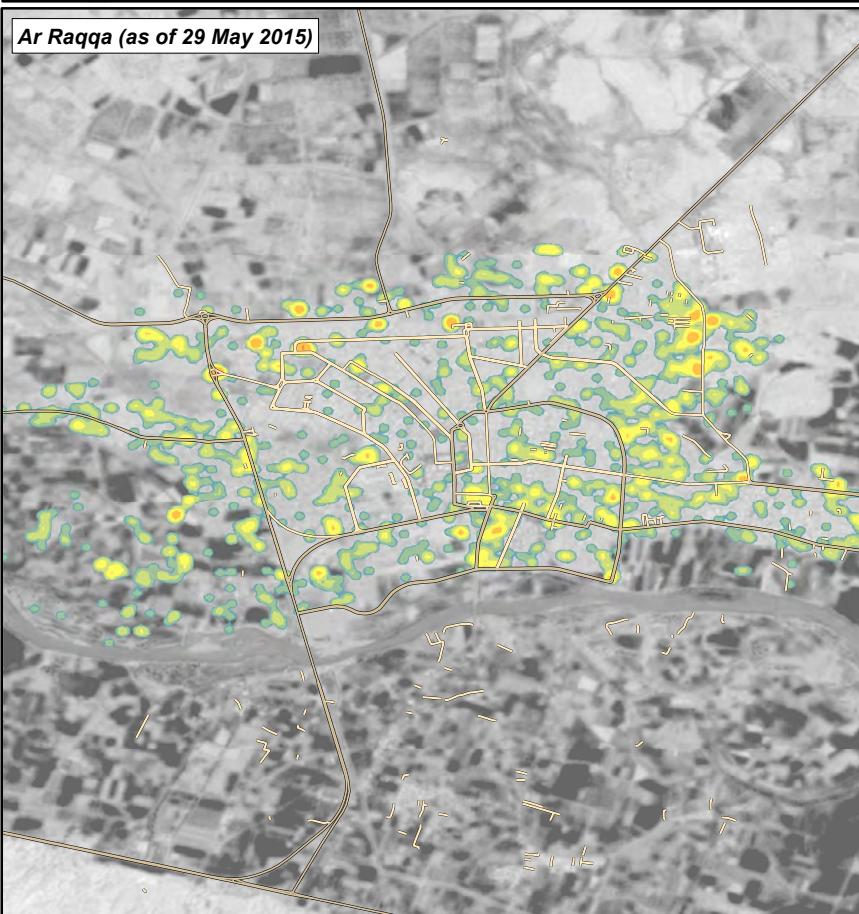
Hama (as of 05 March 2014)



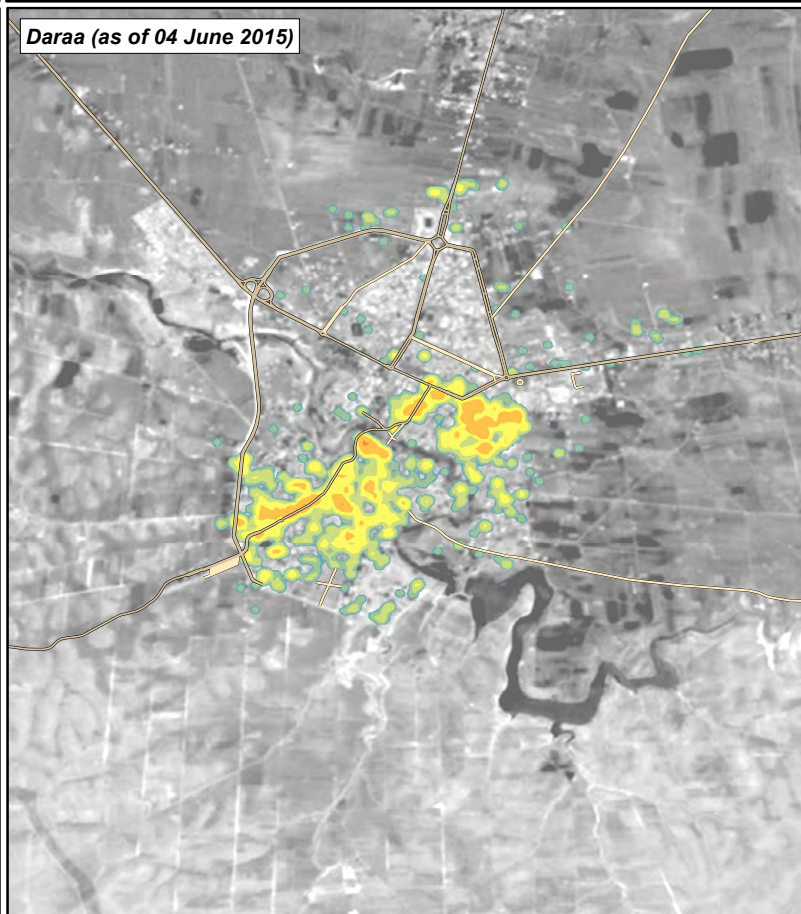
Deir Ez Zor (as of 10 May 2015)



Ar Raqqa (as of 29 May 2015)

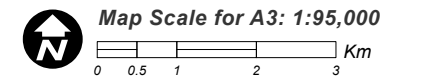


Daraa (as of 04 June 2015)



LEGEND

- Highway / Primary Road
- Secondary Road
- Damage Site Density Index**
- High
- Low



Satellite Data (1): WorldView-1 & WorldView-2
 Imagery Dates: 23 May 2014, 01 May 2014, 12 February 2014, 22 October 2013, 26 September 2013, 23 September 2013, 07 September 2013, 14 December 2010, 06 December 2010, 29 June 2010, 15 June 2010
 Resolution: 50 cm
 Copyright: DigitalGlobe
 Sources: European Space Imaging, US Department of State, Humanitarian Information Unit, NextView License
 Satellite Data (2): Pleiades
 Imagery Dates: 04 June 2015, 29 May 2015, 10 May 2015, 01 May 2015, 26 April 2015, 13 May 2014, 21 April 2014, 05 March 2014, 24 October 2013
 Resolution: 50 cm
 Copyright: © CNES (2015), Distribution AIRBUS DS
 Source: Airbus Defense and Space
 Satellite Data (3): GeoEye-1
 Imagery Date: 06 August 2010
 Resolution: 50 cm
 Copyright: DigitalGlobe
 Source: European Space Imaging
 Satellite Data (4): QuickBird-2
 Imagery Date: 16 April 2011
 Resolution: 65 cm
 Copyright: DigitalGlobe
 Source: European Space Imaging
 Road Data : Google Map Maker / OSM / ESRI
 Other Data : USGS, UNCS, NASA, NGA
 Analysis : UNITAR / UNOSAT
 Production : UNITAR / UNOSAT
 Analysis conducted with ArcGIS v10.3

Coordinate System: WGS 1984 UTM zone 37N
 Projection: Transverse Mercator
 Datum: WGS 1984
 Units: Meter

The depiction and use of boundaries, geographic names and related data shown here are not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR), providing satellite imagery and related geographic information, research and analysis to UN humanitarian and development agencies and their implementing partners.

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REACH An initiative of
IMPACT Initiatives
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UNOSAT

Contact Information: unosat@unitar.org
 24/7 Hotline: +41 76 487 4998
www.unitar.org/unosat