VILLAGE DAMAGE SUMMARY: VANETI, SOUTH OSSETIA, GEORGIA

Damage Assessment with WorldView-1 & Formosat-2 Satellite Imagery Recorded on 19 August 2008

Damage Summary for Buildings in Vaneti

Total estimate of affected buildings = 42
Of this number:
- 39 buildings have likely been destroyed
- 3 buildings have likely been severely damaged

Analysis Description

This map presents a satellite-based damage assessment for the affected village of Vaneti, South Ossetia, Georgia following the armed conflict between Georgian and Russian military forces, August 2008. Damaged buildings have been identified with WorldView-1 & Formosat-2 satellite imagery recorded on 19 August 2008. The conflict assessment was performed by UN Office for the Coordination of Humanitarian Affairs (UNOSAT) satellite applications program.

Affected buildings were classified either as destroyed or severely damaged by standard image interpretation methods. Destroyed buildings have been defined either by the total collapse of the structure or when it was standing but with less than 50% of the roof still intact. Severely damaged buildings have visible structural damage to a portion of one wall, or where a section of the roof was damaged but with over 50% of the roof still intact.

Buildings not marked in the map were identified as having no visible damage. This does not mean the building was undamaged, only that none were identified with the available satellite imagery. Satellite-based assessments can generally identify only a low percentage of buildings with limited damages.

The estimated total number of affected buildings for the selected village is approximately 42. Of this total 39 buildings have likely been destroyed and 3 buildings have likely been severely damaged. An important preliminary finding of this satellite damage analysis is the observed heavy concentration of damages within clearly defined residential areas.

Please note, this is an initial damage assessment and has not yet been independently validated on the ground. Please send any additions or corrections to UNOSAT.

Map Legend

- Likely Destroyed
- Likely Severely Damaged
- Building on fire during sat image acquisition

Map Scale for A3: 1:5,500

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Additional Imagery: Formosat-2 2m panchromatic imagery
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Image Date: 19 August 2008
Dynamic Analysis: UNOSAT
Projection: UTM 38N Zone 21U
Datum: WGS84

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