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

This map presents a satellite-based damage assessment for the affected village of Dvani, Gori District, 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 acquired on 19 August 2008. Pre-conflict QuickBird imagery was also used. Affected buildings were classified either as destroyed or severely damaged by standard satellite 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 of the building still intact. Severely damaged buildings were defined as having 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. As this is not near the conflict zone, no damaged buildings were identified with the available satellite imagery. Satellite-based assessments are generally limited to a low percentage of buildings with limited damages. The estimated total number of affected buildings for the satellite image is approximately 20. Of these, 15 buildings have likely been destroyed and 5 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. This is an initial damage assessment and has not yet been independently validated on the ground.

Damage Summary for Buildings in Dvani Village:
- Total estimate of affected buildings = 24
- 20 buildings have likely been destroyed
- 4 buildings have likely been severely damaged

Map Scale for A3: 1:3,800

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