Along the Prut River, Nisporeni and Hincesti Districts, Republic of Moldova

Satellite-Detected Standing Flood Waters

518200
518400
518600
518800
519000
519400
519600
519800
520000
28°4'0"E

46°48'0"N
46°52'0"N
46°54'0"N
46°56'0"N


Pre-crisis background satellite
of the Prut River
extent and course
Normal pre-flood
with no functional road access
by standing flood waters,
Town likely heavily affected
of the Prut River
(Forest) cover along the banks
affecting the dense vegetation
Flood waters potentially also
standing flood waters,
Village likely affected
by standing flood waters
Flood waters standing on cultivated fields
Western section of Leuseni possibly affected by standing flood waters
Irrigation Canal appears to be containing flood water movement south

Flood Analysis .................... UNITAR / UNOSAT
Road Data ......................... Google Maps
GIS Data ............................ ESRI, USGS, NGA
Source ............................... METI & NASA 2009
Elevation Data ................... Aster GDEM
Satellite Data (3) ............... QuickBird 2
Source .............................. NASA
Image Date ....................... 3 July 2010
Resolution ......................... 250 meters
Satellite Data (2) ................ MODIS Aqua & Terra
Source .............................. NASA
Image Date ....................... 14 July 2010
Resolution ......................... 250 meters
Crisis Satellite Data ............ MODIS Aqua & Terra
Source .............................. NASA
Image Date ....................... 3 July 2010
Resolution ......................... 250 meters
Datum ................................ WGS-84
Map Production ................  UNITAR / UNOSAT
Flood Analysis .................... UNITAR / UNOSAT
Road Data ......................... Google Maps
GIS Data ............................ ESRI, USGS, NGA
Source ............................... METI & NASA 2009
Elevation Data ................... Aster GDEM
Satellite Data (3) ............... QuickBird 2
Source .............................. DigitalGlobe
Image Date ....................... 8 September 2006
Resolution ......................... 250 meters
Satellite Data (3) ................ MODIS Aqua & Terra
Source .............................. NASA
Image Date ....................... 3 July 2010
Resolution ......................... 250 meters

This map illustrates probable standing flood waters along the eastern bank of the Prut River near the town of Nemteni, Nisporeni and Hincesti Districts in the Republic of Moldova, as detected in MODIS satellite imagery recorded on 3 and 14 July 2010. Four towns/villages (including Nemteni) have been identified as likely directly affected by the flooding; one village appears to be completely encircled by flood waters without functional road access.

Flood waters have concentrated on extensively cultivated fields in the area and could also be affecting the dense vegetation (tree) cover along the banks of the Prut River. The irrigation canal immediately north of route E58 appears to be containing the flood waters, preventing flow further south. Archival Quickbird imagery has been used to illustrate the normal, pre-flood river extent and course.

Please note that the exact limit of the flood waters is uncertain (approximately 200-500m) because of the relatively low spatial resolution of the satellite sensors used for this analysis; this uncertainty has been symbolized in the map with increasingly lighter shades of blue. This flood assessment is a preliminary analysis & has not yet been validated in the field. Please send ground feedback to UNITAR / UNOSAT.

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Agencies & their implementing partners.

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