This map illustrates satellite-detected areas of likely standing flood waters and flood-affected land along the Cuareim River near the main border city of Artigas, Uruguay as based on change detection methods using SPOT-5 and Formosat-2 imagery acquired 29 November and 1 December 2009. Flood detection within urban areas was not possible because of limited sensor resolution. Bridges within city of Artigas have been evaluated for possible flooding; bridges with indications of flooding have been highlighted in the map. This flood and bridge assessment is a preliminary analysis & has not yet been validated in the field. Please send ground feedback to UNITAR / UNOSAT.

Heavy Rainfall & Flooding
Version 1.0
Glide No: FL-2009-00248-URY

Legend

Possible flood water
Possible flood water obstruction of road / bridge
Possible flood-affected area of or saturated land (29 November 2009 - SPOT-5)
Pre-Crisis Standing Waters (21 January 2009 - Spot5)
Possible flood-affected areas within dense tree cover (1 Dec. 2009 - Formosat-2)
Pre-Crisis Flood-Affected Area (29 November 2009 - SPOT-5)
Possible flood-affected area or saturated, and wet (29 November 2009 - SPOT-5)

Map Production: UNITAR / UNOSAT
Projection: UTM Zone 21 South
Datum: WGS-84 (EGM-96)

Map Scale for A3: 1:40,000

This 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 & development agencies & their implementing partners.

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Satellite Data (1) ................ SPOT-5
Resolution .......................... 10m
Copyright ........................... SPOT Image 2009

Satellite Data (2) ................ Formosat-2
Resolution .......................... 2m (Pansharpened)
Imagery Dates .................... 1 December 2009
Copyright ........................... NSPO 2009

Other Data ......................... USGS, NGA, SALB
Flood Analysis .................... UNITAR / UNOSAT
Map Production ................  UNITAR / UNOSAT
Projection ........................... UTM Zone 21 South
Datum ................................ WGS-84 (EGM-96)

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Disaster coverage by the International Charter ‘Space and Major Disasters’. For more information on the Charter, which is about assisting the disaster relief organizations with multi-satellite data and information, visit www.disasterscharter.org

3 December 2009

FLOOD WATERS ALONG CUAREIM RIVER, ARTIGAS CITY, URUGUAY
Flood Analysis with SPOT-5 Data Acquired 29 November 2009 & Formosat-2 Acquired 1 December 2009

Satellite Assessment Classification:
- Probable Flood Water / Flood-Affected Area (29 November 2009 - SPOT-5)
- Pre-Crisis Standing Waters (21 January 2009 - Spot5)
- Possible Flood-Affected Areas within Dense Tree Cover (1 Dec. 2009 - Formosat-2)
- Possible Flood-Affected Area or Saturated, and wet (29 November 2009 - SPOT-5)
- Possible flood water obstruction of road / bridge

Note: International border runs along Cuareim River