This map illustrates satellite-detected areas of possible flood waters and flood-affected areas within the central section of the capital city of Dakar, Senegal, as based on change detection methods using Radarsat-2 data acquired on 4 September 2009, pre-crisis Radarsat-1 data from 5 September 2006, and pre-crisis Spot-5 imagery acquired on 11 May 2009. Please note there is an associated high degree of uncertainty for this flood assessment resulting from the dense urban environment and the lack of archived radar data of corresponding sensor characteristics. It is likely that standing water bodies located along narrow streets have been significantly underestimated, and that some detected water bodies shown in the map are interaction of satellite radar signals with buildings. The flood assessment is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to UNITAR / UNOSAT.

Satellite Data (1).................  Radarsat-2 / 1
Imagery Dates ................... 4 Sept. 2009 / 5 Sept. 2006
Resolution .........................  3m / 12.5m
Copyright ............................ RADARSAT-2 © MDA 2009
Credit .................................. Canadian Space Agency

Satellite Data (2) ................ SPOT-5 (2.5m Panshaped)
Imagery Date ...................... 11 May 2009
Copyright ...........................  SPOT Image 2009
Road Data ......................... Google Map Maker 2009
Other Data ......................... OCHA, USGS, NGA
Flood Analysis .................... UNITAR / UNOSAT
Map Production ................  UNITAR / UNOSAT
Projection ........................... UTM Zone 28
Datum ................................ WGS-84 (EGM-96)

Legend

- Airport
- Train Terminal
- Port
- Tower
- Mosque
- Commune Boundary
- Primary Road
- Secondary Road
- Minor / Local Road

SATELLITE ASSESSMENT CLASSIFICATION:

Possible Flood Water / Flood-Affected Area (4 September 2009 - Radarsat-2)
- Pre-Crisis Standing Waters (11 May 2009 - Spot5)

Possible Flood-Affected Area or Saturated, wet soil (4 September 2009 - Radarsat-2)
- Pre-Crisis Standing Waters (11 May 2009 - Spot5)

Vegetation Cover (Variable Density) (11 May 2009 - Spot5)

- Heavy Rainfall & Flooding

Map Data © 2009 Google
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Disaster coverage by the International Charter: “Space & Major Disasters.” For more information on the Charter, visit www.disasterscharter.org

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