

Second Wave of Flood Waters at Shahdaktot and Surrounding Areas, Pakistan



This map shows daily variation in flood water extent along the Indus rivers in parts of Balochistan, Sindh and Punjab provinces based on time-series MODIS Terra and Aqua datasets from August 25 to August 27, 2010.

Our analysis shows that a second wave of flood water has further inundated the western side of Shahdaktot town, south of Warah, South of Hamal lake and its neighbouring areas during the last 24hrs. On August 23, flood waters was gushed out of Tori and Begari canals and embarked the Shahdaktot settlement and adjoining areas. Approx. more than 230 villages and 62 towns were identified as severely affected by flood waters and analysis was performed using geospatial database received from University of Georgia, google earth and GIS data of NIMA (USGS). Approx. 550 kilometres stretch of national highway and link roads are submerged or partially inundated by flood water.

This analysis also used Pre river line MODIS data for September 19, 2009 to show identify flood water only. Please note that water bodies likely reflect an underestimation of all flood-affected areas within the map extent due to cloud, atmospheric variations and other reasons. This analysis has not yet been validated in the field. Please send ground feedback to ICIMOD / MERNIS.

Crisis Satellite data : MODIS Terra / Aqua
Resolution : 250m
Image date : August 25-27, 2010
Source : NASA
Pre-flood Image : MODIS Terra / Aqua
Resolution : 250m
Image date : September 19, 2009
Source : NASA
Baseline Imagery : MODIS Aqua Aug 22, 2010
Source : NASA
GIS Data : University of Georgia, USA
Flood Analysis : ICIMOD
Projection : Geographic, WGS84

Legend

- Pre-Flood River Line (2009)
- Flood Water extent (Aug 25)
- Flood Water extent (Aug 26)
- Flood Water extent (Aug 27)
- Airport
- Helipoint
- Major airfield
- Minor airport
- Division / Tehsil
- Villages/towns
- Rivers
- Rural road
- Urban road
- Railways
- Urbanized area
- Administration boundary

Map Scale for 1:1,000,000
 0 10 20 40 Kilometres
 Map layout designed for A1 Printing (36 x 24 inch)

Map prepared by: **ICIMOD**
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The depiction and use of international boundaries, geographic names and related data shown in these maps are based on the sources they have been drawn from and quoted; these are neither error-free nor do they imply official endorsement or the position of ICIMOD

