

Analysis of Flood Affected Areas along the Indus River, Southern KPK and Upper Punjab Provinces, Pakistan

17 August 2010
FL-2010-000141-PAK
Version 2.0



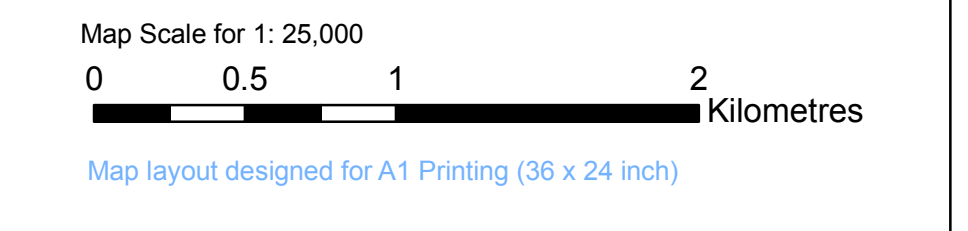
This map presents a preliminary analysis of flood affected villages, towns and infrastructure along the Indus rivers in southern KPK and Upper Punjab Provinces and is based on FORMOSAT-2 satellite imagery covering the period of August 10, 2010.

Over 50 villages and 6 towns were identified as severely affected by flood waters and analysis was performed using Google Earth and GIS data of NIMA (USGS). Over 100 sq.km are identified as submerged or severely flood affected and approx. 50 sq.km are partially flooded. Pre flood river lines were identified using Landsat USGS data and these were excluded in flood area analysis.

This analysis is based on satellite data collected by FORMOSAT-2, JAXA PALSAR, AVINIR data for 5th and 8th August 2010. 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 / MENRIS.

Crisis Satellite data : FORMOSAT-2
Resolution : 8m
Image date : August 10, 2010
Source : NSPO
Crisis Satellite data : AVINIR
Resolution : 10m
Image date : August 8-10, 2010
Source : JAXA
Crisis Satellite data : PALSAR
Resolution : 100m
Image date : August 8, 2010
Source : JAXA

Baseline Imagery : LANDSAT
Source : USGS
GIS Data : NIMA, USGS
Flood Analysis : ICIMOD
Projection : UTM Zone 43N, WGS84



Legend

	High Flood Inundated Areas		Pre-Flood Riverline		Rural Settlement
	Moderate Flood Inundated Areas		Flood Plain Crop		Urban Settlement
	Low Flood Inundated Areas		Crop		Current Fallow

Map prepared by: **ICIMOD**

Supported by: **USAID** (FROM THE AMERICAN PEOPLE), **ASIA Sentinel Asia**, **JAXA**

Satellite data support by: **SERVIR Himalaya**, **NASA**, **QTI 國家實驗研究院** (National Applied Research Laboratories), **NSPO**

The 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 ICIMOD.

