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United Nations Institute for Training and Research

**UNOSAT**

**Monsoon Rains & Flooding**

Production Date: 27/09/2012



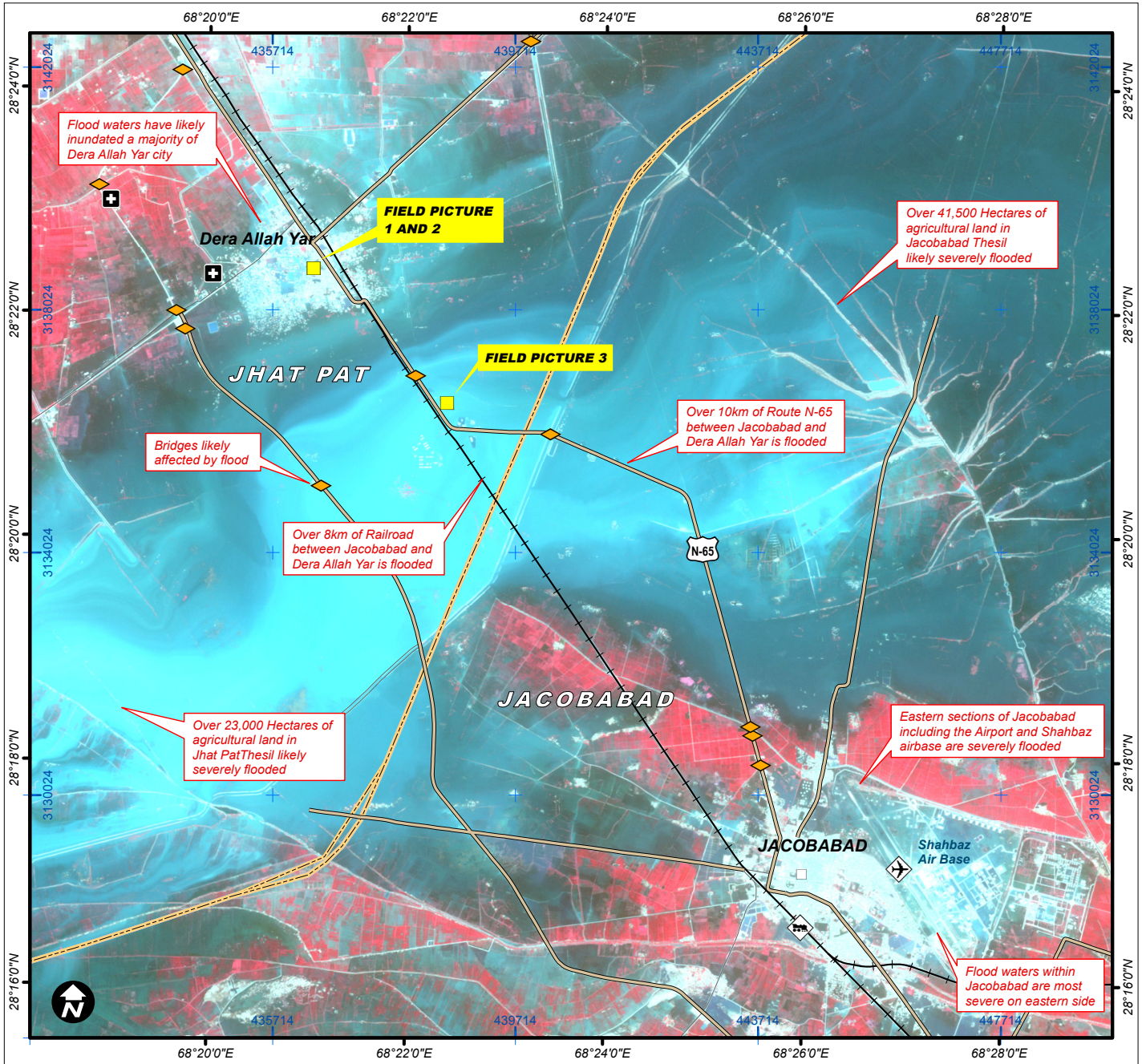
Version 1.0

Activation Number: FL20120918PAK

# SITUATION OVERVIEW: FLOODS OVER JACOBABAD & DERA ALLAH YAR CITIES, SINDH & BALOCHISTAN PROVINCES



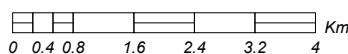
Flood Analysis Based on SPOT Satellite Data Recorded 20 September 2012



Center Coordinates: 68°23'39.57"E 28°20'0.93"N

- Bridge
- Airport / Airfield
- Health Facility
- Primary Rd.
- Field Picture
- Province/ Tehsil Border
- Train station
- Railroad

Map Scale for A4: 1:100,000



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](http://www.disasterscharter.org)



Note: Background image is a false color composite from SPOT sensor where vegetation and agricultural crops appear red while water or likely flood affected areas appear bluish-green. 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 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.

Crisis Satellite Data: SPOT  
Resolution: 10 meters  
Image Date: 20 September 2012  
Copyright: Astrium Services  
Source: Spot Image  
Pre-Crisis Satellite Data: TerraSAR-X  
Resolution: 8 meters  
Image Date: 27 March 2010  
Source: DLR  
Background Imagery: SPOT

false color composite  
Road Data: Google Map Maker / OSM / ESRI  
Other Data: USGS, UNCS, NASA, NGA, WHO  
Analysis: UNITAR / UNOSAT  
Production: UNITAR / UNOSAT  
Analysis conducted with ArcGIS v10.1  
Projection: UTM Zone 42N  
Datum: WGS-84

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United Nations Institute for Training and Research

# UNOSAT

25/09/2012 – Version 1

UNOSAT Activation: FL20120917PAK

## **Satellite assessment of floods over the cities of Jacobabad and Dera Allah Yar, Sindh and Balochistan Provinces, Pakistan**

**PREFACE:** This report provides a detailed analysis of current flooding of the cities of Jacobabad and Dera Allah Yar in the Sindh and Balochistan Provinces of Pakistan. Satellite imagery acquired on the 20<sup>th</sup> September 2012 was used for this report. This report is part of an on-going satellite monitoring program of UNITAR / UNOSAT of the International Charter on Space and Major Disasters activation over floods in Pakistan in support of international humanitarian assistance and created to respond to the needs of UN agencies and their partners. This assessment has not yet been validated in the field. Please send feedback to UNITAR/UNOSAT at the contact information below.

### **ANALYSIS SUMMARY:**

This map presents a situational overview on the current flood water status for the cities of Jacobabad & Dera Allah Yar cities, Sindh and Balochistan Provinces based on SPOT imagery from 20th September 2012. Flood waters appear to have inundated the majority of Dera Allah Yar (see pictures 1 and 2), including the Jhatpat health centre 1.5 km west of the city center. Flooding also seems to have cut off road access to the east and south of the city. Flood waters are also encroaching on Jacobabad from the north. The outskirts of the city appear to be inundated, including severe flooding over the east of the city and the Shahbaz airbase. Over 10 km of the route N-65 and 8 km of the railroad between Jacobabad and Dera Allah Yar are completely flooded along with several small settlements and a large building (picture 3) located in the area between Jacobabad and Dera Allah Yar. Large areas of agricultural lands have also been flooded: 41,500 ha in Jacobabad Tehsil and a further 23,000 in the Jhat Pat Tehsil.

Photos were taken over Dera Allah Yar and Jacobabad during an army relief flight on the morning of the 23<sup>rd</sup> September (courtesy of Munir Afsar).

### **PICTURES OF THE FLOODING AROUND DERA ALLAH YAR AND JACOBABAD:**



**Picture 1: Flooding over Dera Allah Yar**



*Picture 2: Flooding over Dera Allah Yar*



*Picture 3: Photo of a large building on the route N-65 that has been severely flooded.*

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*This is a preliminary assessment and has not yet been validated in the field. Please send feedback to UNITAR/UNOSAT at the contact information below.*

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