16 Sep. 2022

PRELIMINARY SATELLITE DERIVED FLOOD EVOLUTION ASSESSMENT

Islamic Republic of Pakistan

Status: Overall decreasing flood waters observed

Further action(s): continue monitoring

PAKISTAN





International boundary

Provincial boundary

Line of Control

Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not been agreed upon by the parties.

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EVOLUTION OF CUMULATIVE FLOOD IMPACT ASSESSMENT

[01 to 07 Sep. 2022] Vs [08 to 14 Sep. 2022]

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08 to 14 Sep. 22

~53,000 km²
Flood extent

~19 M
Population potentially exposed to floods

01 to 07 Sep. 22

~60,000 km²
Flood extent

~22 M
Population potentially exposed to floods

ISLAMABAD
Islamabad

KHYBER PAKHTUNKHWA

Mianwali

~ 970 km²
~ 437,000
[08 to 14 Sep. 22]

~4 km²
~6,200
[08 to 14 Sep. 22]

Indus river
Chenab river

Multan
Dera Ghazi Khan

PUNJAB

~5,500 km²
~ 2.1 million
[08 to 14 Sep. 22]

[08 to 14 Sep. 22]
~ 4,100 km²
~ 483,000

BALOCHISTAN

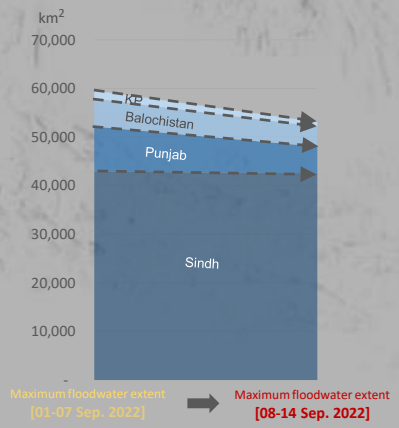
Jacobabad
Larkana
Sukkur
Khairpur Nathan Shah
Dadu

SINDH

~ 42,500 km²
~16 million
[08 to 14 Sep. 22]

Mirpur Khas
Hyderabad

Evolution of maximum floodwater extent
[01 to 07 Sep. 2022] Vs [08 to 14 Sep. 2022]



Maximum floodwater extent [08 - 14 Sep. 2022]
Maximum floodwater extent [01 - 07 Sep. 2022]

N
100 km

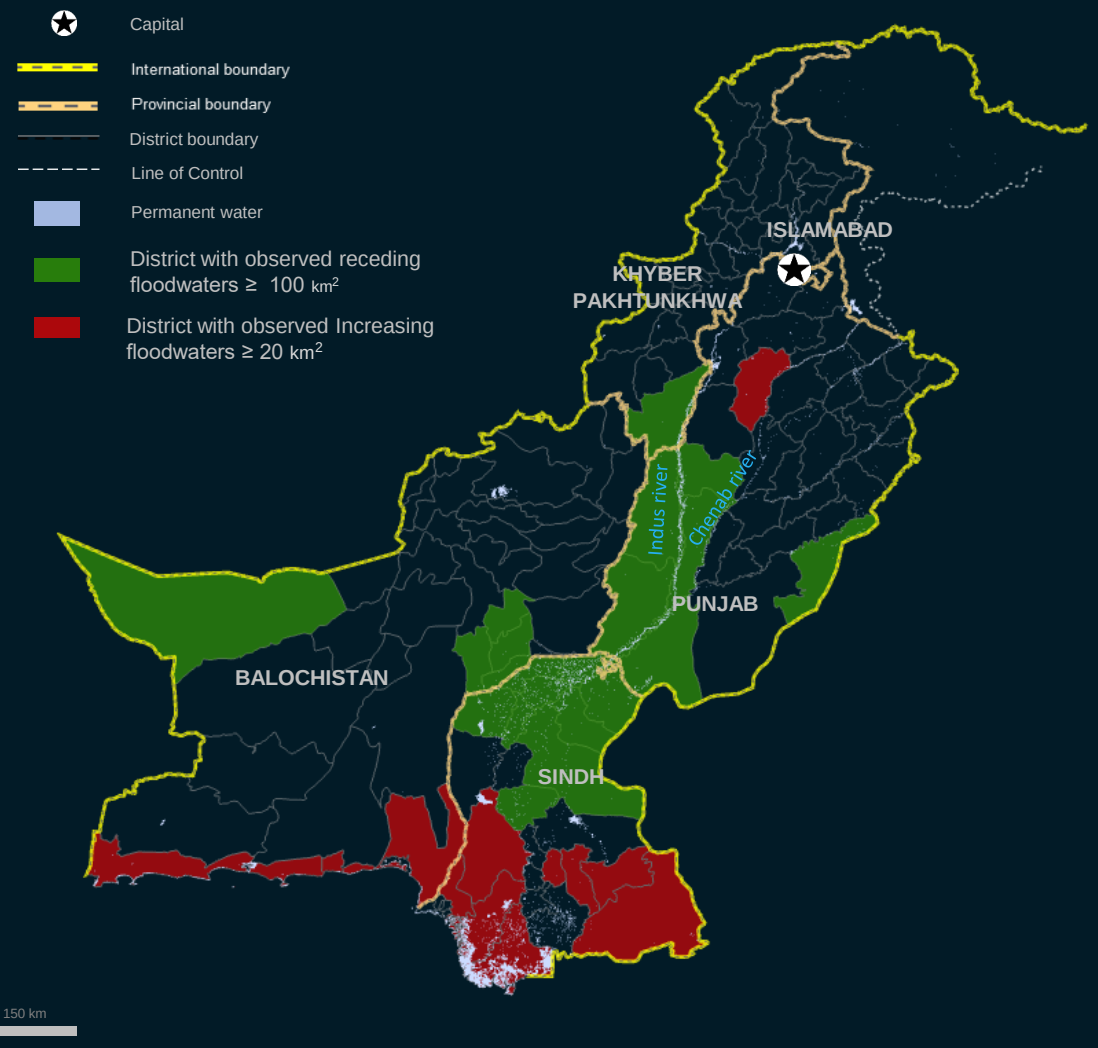
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EVOLUTION OF CUMULATIVE FLOOD IMPACT ASSESSMENT

[01 to 07 Sep. 2022] Vs [08 to 14 Sep. 2022]

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Punjab province

- Khushab district ↑ 50 km²

- Leiah district ↓ 360 km²
- Muzaffargarh district ↓ 470 km²
- Rahim Yar Khan district ↓ 390 km²
- Dera Ghazi Khan district ↓ 610 km2
- Rajanpur district ↓ 900 km2
- Bahawalnagar district ↓ 140 km²

Sindh province

- Jamshoro district ↑ 60 km2
- Malir Karachi district ↑ 40 km2
- Thatta district ↑ 510 km2
- Tando Allahyar district ↑ 30 km2
- Mirpur Khas district ↑ 160 km2
- Umer Kot district ↑ 50 km2
- Tharparkar district ↑ 80 km2

- Kambar Shahdad Kot district ↓ 220 km²
- Jacobabad district ↓ 200 km²
- Kashmore district ↓ 500 km²
- Shikarpur District ↓ 280 km²
- Larkana district ↓ 210 km²
- Ghotki district ↓ 520 km²
- Sukkur district ↓ 190 km²
- Khairpur district ↓ 280 km²
- Shaheed Benazir Abad district ↓150 km2

Balochistan province

- Gwadar district ↑ 40 km2
- Lasbela district ↑ 40 km2

- Chagai district ↓ 120 km2
- Lehri district ↓ 160 km2
- Nasirabad district ↓ 350 km2
- Jaffarabad district ↓ 300 km²
- Jhal Magsi district ↓ 500 km2

Khyber Pakhtunkhwa Province

- D. I. Khan district ↓ 470 km²

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SUMMARY OF FINDINGS

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Evolution of Cumulative Flood Impact Assessment (01 - 07 September Vs 08-14 September 2022):

- From 08 to 14 September 2022 approximately 19 million people remain potentially exposed or living close to flooded areas;
- Based on satellite observations from 01-07 September 2022 and 08-14 September 2022, the overall flood situation appears to be decreasing with approximately 1,700 km² in Balochistan, ~Punjab 3,900 km² and ~850 km² in Sindh.

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Data sources:

(1) Satellite Image (Post-event)

Satellite Data : NOAA-20/VIIRS
Imagery Date: 01 to 31 August 2022, 25 to 31 August 2022, 01 to 07 September 20 22 & 08 to 14 September 2022
Resolution: 375m
Copyright: NOAA/Suomi NPP
Source: NOAA

(2) Ancillary data

Administrative boundaries: OCHA Field Information Services Section (FISS) [14 September 2022]
Analysis: UNITAR-UNOSAT
Production: UNITAR-UNOSAT

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