# NEPAL

## LUMBINI & SUDURPASCHIM PROVINCES

**IMAGERY ANALYSIS: 15/10/2022 PUBLISHED 17/11/2022 V1**

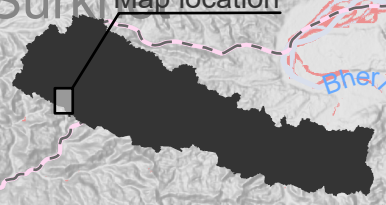
| | |
|---|---|
| ANALYZED AREA<br>4,700km² | FLOOD EXTENT [15 OCT. 2022]<br>70km² |
| POPULATION IN ANALYZED AREA<br>1,700,000 | POPULATION POTENTIALLY EXPOSED [15 OCT. 2022]<br>35,000 |

unitar
United Nations Institute for Training and Research

UNOSAT
United Nations Satellite Centre

**FLOOD**
FL20221117NPL

Map location



**Satellite detected water extent over Lumbini and Sudurpaschim Provinces, Nepal as of 15 October 2022**

This map illustrates satellite-detected surface waters in Sudurpaschim and Lumbini Provinces, Nepal as observed from a Sentinel-2 image acquired on 15 October 2022. Within the total analyzed area of about 4,700 km², ~70 km² of lands appear to be flooded. Based on Worldpop population data and the detected surface waters about 35,000 people are potentially exposed or living close to flooded areas, of which 18,000 are located In Janaki, Tikapur, Geruwa, Rajapur, Thakurbaba & Madhuwan Palikas.

This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to the United Nations Satellite Centre (UNOSAT).

| Province / Palika | Population in analyzed area [15 October 2022] | Analyzed Area [15 October 2022] Km² | Population potentially exposed to flood water extent [15 October 2022] | Flood water extent [15 October 2022] Km² |
|---|---|---|---|---|
| **Lumbini** | **206,173** | **439** | **4,408** | **12** |
| Geruwa | 39,519 | 78 | 1,328 | 3 |
| Madhuwan | 50,502 | 130 | 768 | 3 |
| Rajapur | 68,170 | 127 | 1,763 | 4 |
| Thakurbaba | 47,982 | 104 | 548 | 2 |
| **Sudurpaschim** | **414,659** | **225** | **13,710** | **12** |
| Janaki | 93,793 | 107 | 4,022 | 7 |
| Tikapur | 320,866 | 118 | 9,688 | 5 |
| **Total** | **620,833** | **664** | **18,118** | **24** |

Spatial Reference
Name: GCS WGS 1984
GCS: GCS WGS 1984
Datum: WGS 1984

Satellite Data (1) : Sentinel-2
Imagery Date: 15 Oct. 2022
Resolution: 10m
Copyright: Contains modified Copernicus Sentinel data [2022]
Source: ESA

Satellite Data (2) : Sentinel-2
Imagery Date: 08 Apr. 2022
Resolution: 10m
Copyright: Contains modified Copernicus Sentinel data [2022]
Source: ESA

Boundary data: UNOCHA
Waterways: OpenStreetMap
Populated place: OpenStreetMap
Road data: OpenStreetMap
Population data: World unconstrained [2020]
Background: ALOS PALSAR

Analysis: United Nations Satellite Centre (UNOSAT)
Production: United Nations Satellite Centre (UNOSAT)

### Legend

- Town
- Village
- Waterway
- Primary road
- Secondary road
- Tertiary road
- International boundary
- Province boundary
- District boundary
- Palika boundary
- Satellite detected water extent [08 Apr. 2022]
- Satellite detected water extent [15 Oct.. 2022]

Map Scale for A3: 1:150,000
0 1 2 4 KM

N

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