

CHAD

IMAGERY ANALYSIS: 02 OCT TO 06 OCT. 2024 PUBLISHED 08/10/2024 V1

MAXIMUM FLOOD WATER EXTENT (02 OCT. - 06 OCT. 2024)
~32,000km²

POPULATION POTENTIALLY EXPOSED (02 OCT. - 06 OCT. 2024)
1,370,000

MAXIMUM FLOOD WATER EXTENT (31 AUG. - 04 SEP. 2024)
~22,800km²

POPULATION POTENTIALLY EXPOSED (31 AUG. - 04 SEP. 2024)
820,000



FLOOD
FL20240820TCD



Satellite detected water extents between 02 and 06 October 2024 over Chad

This map illustrates cumulative satellite-detected water using VIIRS in Chad between 02 to 06 October 2024. Within the cloud free analysed areas of about 1,240,000 km², a total of about 32,000 km² of lands appear to be affected with flood waters. Maximum flood water extent appears to have increased of about 9,000 km² since the period between 31 August to 04 September 2024. Based on Worldpop population data and the maximum flood water extent, about 1,370,000 people are potentially exposed or living close to flooded areas. Amongst which ~320,000 people in Mayo-Kebbi Est Region and ~180,000 people in Logone Oriental Region.

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).

Legend

- Capital city
- Department with Observed Changes in Maximum Floodwaters ≥ 100 km²: Comparison of 31 Aug-04 Sep. 2024 and 02-06 Oct. 2024
- Observed receding floodwaters ≥ 100 km²
- Observed increasing floodwaters ≥ 100 km²
- River
- International boundary
- Region boundary
- Department boundary
- Permanent water
- Cloud obstruction [02 Oct. - 06 Oct. 2024]
- Maximum flood water extent [31 Aug. - 04 Sep. 2024]
- Maximum flood water extent [02 Oct. - 06 Oct. 2024]

| Region | Population in cloud free areas [02 October-06 October 2024] | Cloud free analysed Area [02 October-06 October 2024] Km ² | Population potentially exposed to maximum flood water extent [02 October-06 October 2024] | Maximum flood water extent [02 October-06 October 2024] Km ² | Maximum water extent variation between 02 October - 06 October 2024 and 31 August-04 September 2024 Km ² |
|-------------------|---|---|---|---|---|
| Barh-El-Gazel | 396,715 | 47,841 | 544 | 26 | -6 |
| Batha | 700,436 | 90,793 | 36,320 | 1,952 | -1,225 |
| Borkou | 238,145 | 149,807 | 58 | 61 | -58 |
| Chari-Baguirmi | 800,881 | 46,869 | 116,214 | 3,693 | 2,163 |
| Ennedi Est | 306,541 | 80,522 | 782 | 57 | -166 |
| Ennedi Ouest | 118,349 | 122,040 | 153 | 178 | -352 |
| Guéra | 793,102 | 61,026 | 8,064 | 975 | 458 |
| Hadjer-Lamis | 691,348 | 28,581 | 16,867 | 506 | -107 |
| Kanem | 420,405 | 67,530 | - | - | - |
| Lac | 640,550 | 19,908 | 27,323 | 1,301 | -659 |
| Logone Occidental | 840,843 | 8,845 | 31,622 | 227 | -39 |
| Logone Oriental | 1,259,186 | 23,637 | 183,279 | 1,767 | 431 |
| Mandoul | 874,069 | 17,323 | 74,705 | 1,160 | 288 |
| Mayo-Kebbi Est | 1,080,510 | 18,111 | 320,112 | 5,461 | 4,169 |
| Mayo-Kebbi Ouest | 762,334 | 12,351 | 12,612 | 84 | 75 |
| Moyen-Chari | 813,091 | 40,274 | 118,786 | 4,703 | 2,687 |
| N'Djaména | 1,418,540 | 423 | 176,784 | 54 | 24 |
| Ouaddaï | 1,173,749 | 29,739 | 423 | 7 | -181 |
| Salamat | 424,404 | 67,942 | 70,275 | 6,972 | 3,086 |
| Sila | 629,659 | 35,723 | 9,572 | 231 | -2,092 |
| Tandjilé | 842,868 | 17,470 | 162,475 | 2,348 | 1,119 |
| Tibesti | 62,850 | 205,078 | 44 | 136 | -47 |
| Wadi Fira | 1,014,683 | 51,620 | 313 | 14 | -435 |
| Total | 16,303,257 | 1,243,456 | 1,367,326 | 31,912 | 9,134 |

Spatial Reference
Name: WGS 1984 UTM Zone 33N
PCS: WGS 1984 UTM Zone 33N
GCS: GCS WGS 1984
Datum: WGS 1984

Satellite Imagery : NOAA-20/VIIRS
Imagery Date: 02 to 06 October 2024
Resolution: 375m
Copyright: NOAA/Suomi NPP
Source: NOAA

Satellite Imagery : NOAA-20/VIIRS
Imagery Date: 31 August to 04 September 2024
Resolution: 375m
Copyright: NOAA/Suomi NPP
Source: NOAA

Boundary data: UNOCHA
Waterways: OpenStreetMap
Road data: OpenStreetMap
Populated place: OpenStreetMap
Population data: Worldpop unconstrained (2020)

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



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