

Gusau - NIGERIA

Crop change detection in conflict areas

2017 to 2022 and 2021 to 2022

Cartographic Information

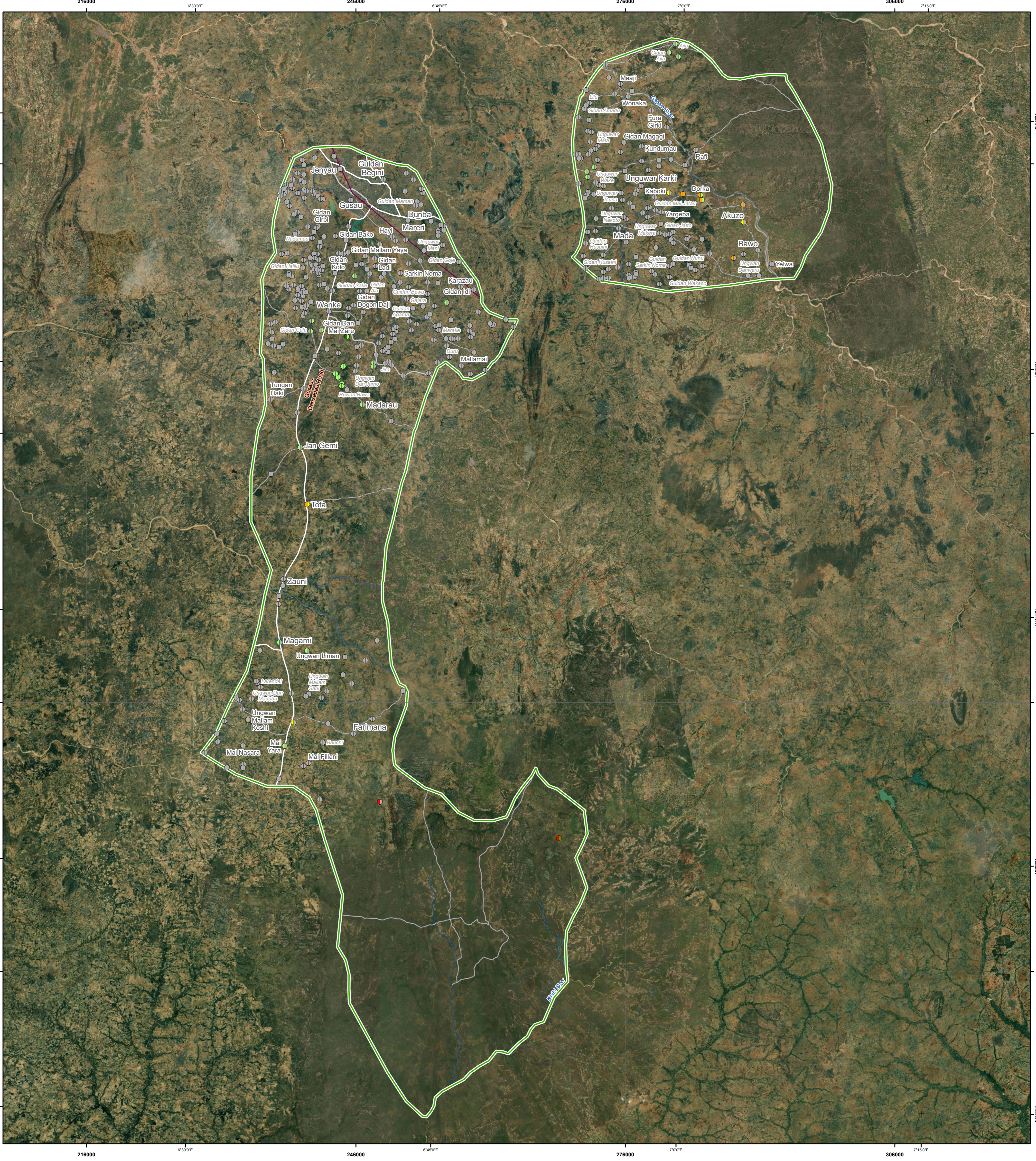
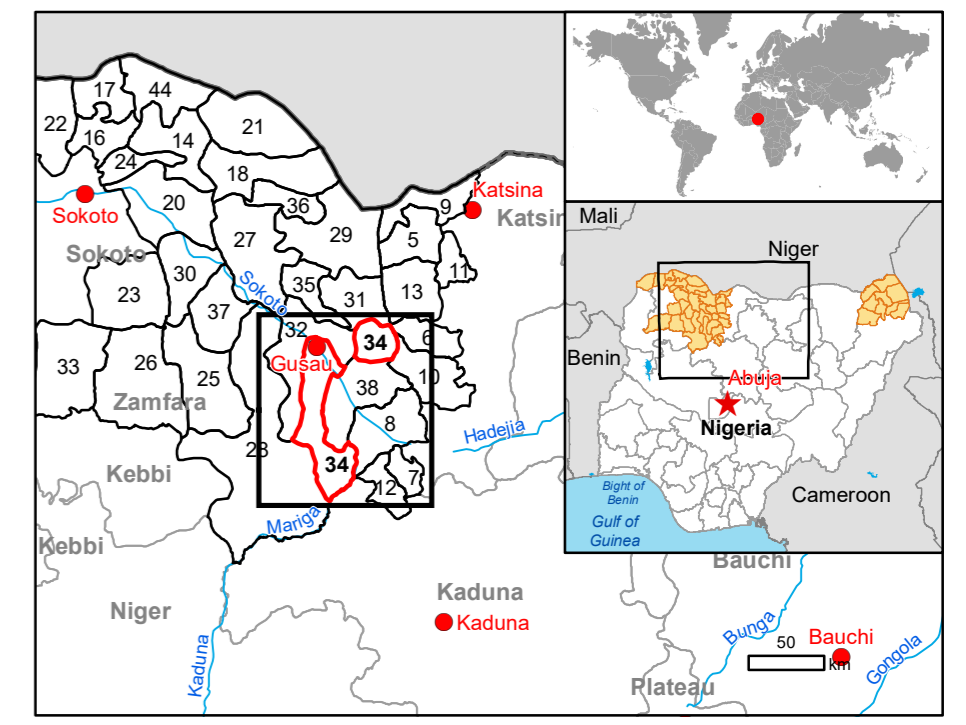
1:205000 Full color A1, 300 dpi resolution

0 5 10 20 km

Grid: WGS 1984 UTM Zone 32N map coordinate system
 Tick marks: WGS 84 geographical coordinate system

Legend

- | Change in cropland areas | | 2021/2022 | |
|--------------------------|-------------------|------------------------|-------------|
| ● significant decrease | ● medium decrease | ● slight decrease | ● no change |
| ● slight increase | ● medium increase | ● significant increase | ● |
-
- | |
|--------------------|
| ■ Area of Interest |
| — Primary Road |
| — Secondary Road |
| — Local Road |
| — Urban railway |
| — River |
-
- | |
|--------------------|
| ● Populated places |
| Large Kukawa |
| Medium Yebi-Jemi |
| Small Karoro |



Map Information

The scope of the activation EMSN-138 is to support the World Food Program (WFP) officers with geospatial analysis regarding the agriculture and food security situation and nutrition analysis for 44 Local Government Areas, corresponding to the Areas of Interest (AOI), that are spread over four States in northern Nigeria. Due to the inaccessibility of the region based on consistent armed conflicts, the impact of the conflict can only be estimated by verifying changes in cropland (loss/gain) and the resulting affected population.

Previous analyses of the AOIs were already conducted under the activation EMSN-063, EMSN-083 and EMSN-113. The scope of the present service request is to update the previous analysis concerning the year 2022 and assess changes in cultivated fields in conflict-affected areas between 2022 and 2021, 2022 and 2017, and between 2022 and 2010. The crop change was conducted per populated site, whereas associated cropland was estimated by a buffer distance in relation to the populated sites in combination with imagery analysis of generated NDVI composite raster layers. The populated site dataset was updated based on a combination of various reference data sets and improved via visual inspection.

Data sources

Pre-event image: Sentinel-2 A (2017), (acquired between 17/06/2017 and 15/10/2017, GSD 10 m), Sentinel-2 A (2021), (acquired between 16/06/2021 and 15/10/2021, GSD 10 m), provided under COPERNICUS by the European Union and ESA.

Post-event image: Sentinel-2 A (2022), (acquired between 15/06/2022 and 15/09/2022, GSD 10 m), provided under COPERNICUS by the European Union and ESA.

Background imagery: Esri Basemap © Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

Population data: World Population © 2022 WorldPop, licensed under Creative Commons Attribution 4.0 International License, <http://www.worldpop.org>

Base vector layers: OpenStreetMap © OpenStreetMap contributors (2022), refined by the producer.

Index maps: JRC 2013, Natural Earth 2012, GeoNames 2013.

Disclaimer

Products elaborated in this Copernicus EMS Risk and Recovery Mapping activation are realized to the best of our ability, optimising the available data and information. All geographic information has limitations due to scale, resolution, date and interpretation of the original sources. No liability concerning the contents or the use thereof is assumed by the producer and by the European Union.

Delivery formats are Layered Geospatial PDF and vector (ESRI GDB, GeoJSON).

Map produced by SERTIT released by IABG mbH (PM).

For the latest version of this map and related products visit <https://emergency.copernicus.eu/EMSN138>

jrc-ems-riskrecoverymapping@ec.europa.eu
 © European Union
 For full Copyright notice visit <https://emergency.copernicus.eu/mapping/ems/cite-copernicus-ems-mapping-portal>