



Shelter Cluster NWSW Cameroon

ShelterCluster.org

Coordinating Humanitarian Shelter



Northwest Region, Cameroon Environmental Atlas

Introduction

In preparation for a series of environmental mainstreaming workshops and trainings to be held for Shelter Cluster partners in 2023, it was essential to get to know the natural environment of the Northwest Region of Cameroon. What follows is a series of maps that were produced for the workshop, but which also serve as valuable secondary data for all stakeholders to the humanitarian response to understand what might be the environmental situation and how it is linked with the ongoing humanitarian crisis in the region. While designed by the Shelter Cluster it was decided to not use Shelter Cluster branding to indicate that a lot of information was gathered through Open Source Data and can be used by all stakeholders to the humanitarian response.

Reneé Wynveen
Shelter Cluster Coordinator
Northwest Southwest Region Cameroon
March 2023

Front Cover Photo: @NRC Workers in Donga Mantung Division in Ndu subdivision prepare plywood while repairing shelters. November 2022



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Cluster Lead Agency

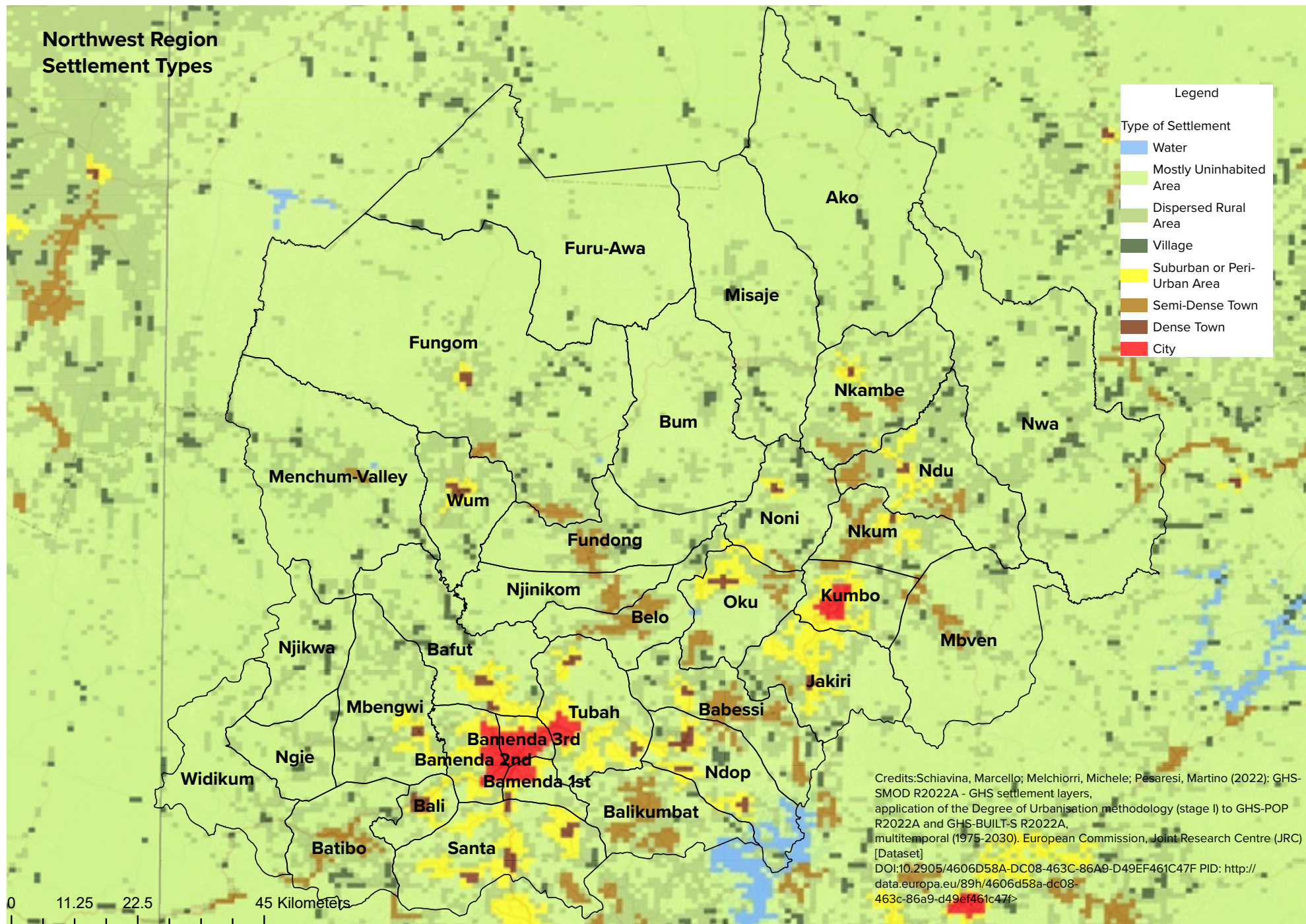


Co-Chair

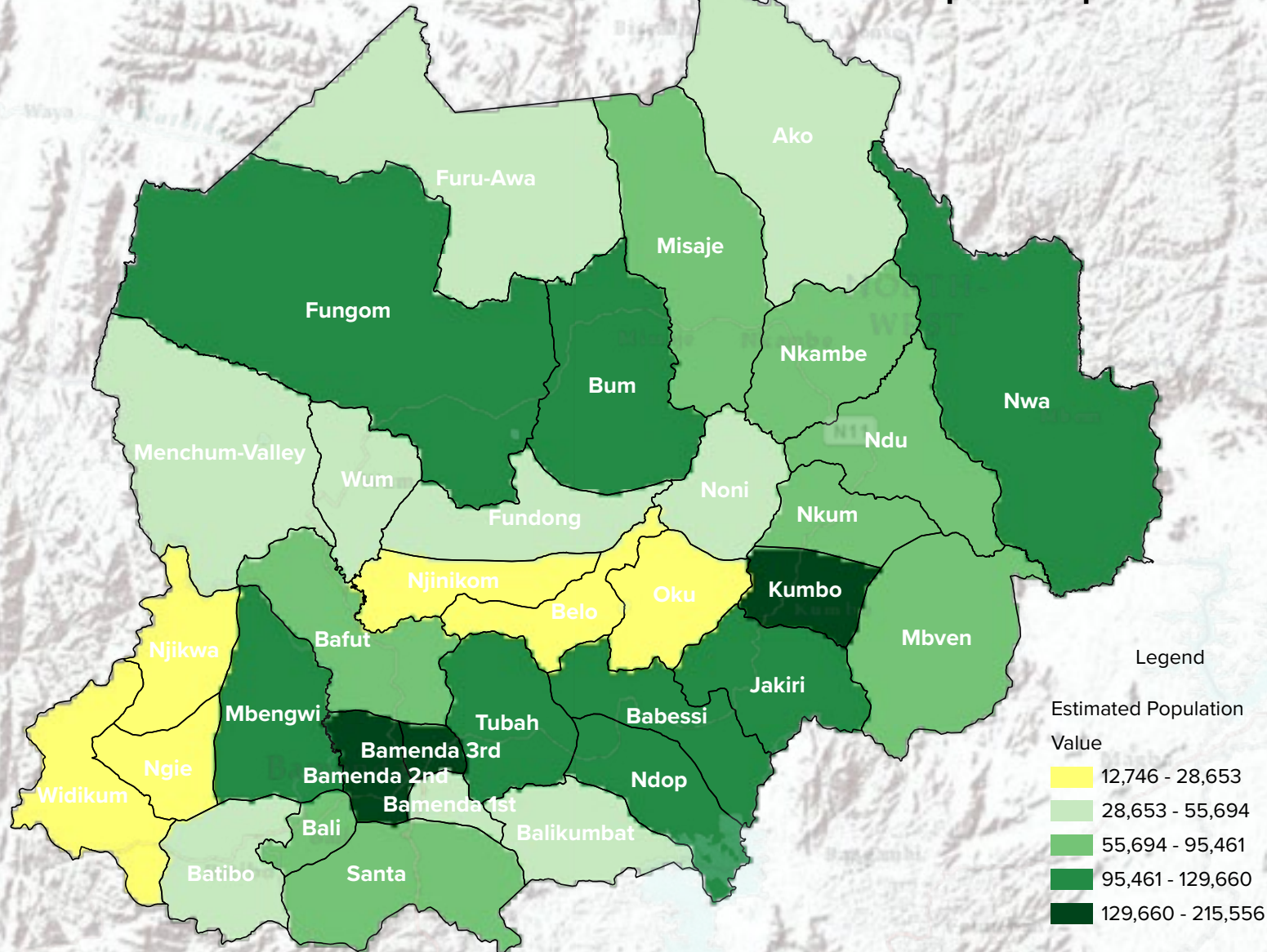
Table of Contents

1. [Northwest Region Settlement Types](#) (European Commission Global Human Settlement Layers, Degree of Urbanisation Methodology)
2. [Northwest Region, Population Per Subdivision](#) (Oakridge Laboratory, Landsat Imagery 2021)
3. [Number of Estimated Internally Displaced People per Subdivision](#) (OCHA Multisector Needs Assessment)
4. [Number of Estimated People per Village](#) (European Commission Global Human Settlements Layer, Oakridge Laboratory, Landsat Imagery 2021)
5. [Ecoregions of the Northwest Region](#) (World Wildlife Fund Ecoregions of Africa)
6. [Northwest Region Elevation Profile Max Elevation](#) (World Food Programme, Elevation Raster, Humanitarian Data Exchange Download)
7. [Northwest Region Slope in % Gradient](#) (World Food Programme, Elevation Raster, Humanitarian Data Exchange Download)
8. [Northwest Region Surficial Lithology](#) (ArcGIS Esri, Africa Surficial Lithology layer)
9. [Northwest Region Soil Texture](#) (World Harmonised Soil Database Texture)
10. [Northwest Region Annual Precipitation per Month Highest highs and lowest lows](#) (Esri)
11. [Northwest Region Annual Precipitation per Month in Graduated mm](#) (Esri)
12. [Northwest Region Distance to Bodies of Water and Waterways](#) (Open Street Map, GeoFabrik Download)
13. [Northwest Region Groundwater Productivity](#) (British Geological Survey, Groundwater Maps of Africa)
14. [Northwest Region Bivariate Temperature Distribution Between Rainy and Dry Season 1980-2010](#) (Esri)
15. [Northwest Region February \(Dry season\) Monthly Temperature Averages 1980-2010](#) (Esri)
16. [Northwest Region August \(Rainy season\) Monthly Temperature Averages 1980-2010](#) (Esri)
17. [Northwest Region Above and Below Ground Biomass](#) (UN Biodiversity Labs, detailed citation in map)
18. [Northwest Region Landuse and Land Cover Sentinel 2-10 M](#) (Esri and Microsoft)
19. [Northwest Region Forest Fragmentation](#) (World Wildlife Fund, NOAA)
20. [Northwest Region Landuse](#) (Openstreet Map Geofabrik Download)

Northwest Region Settlement Types



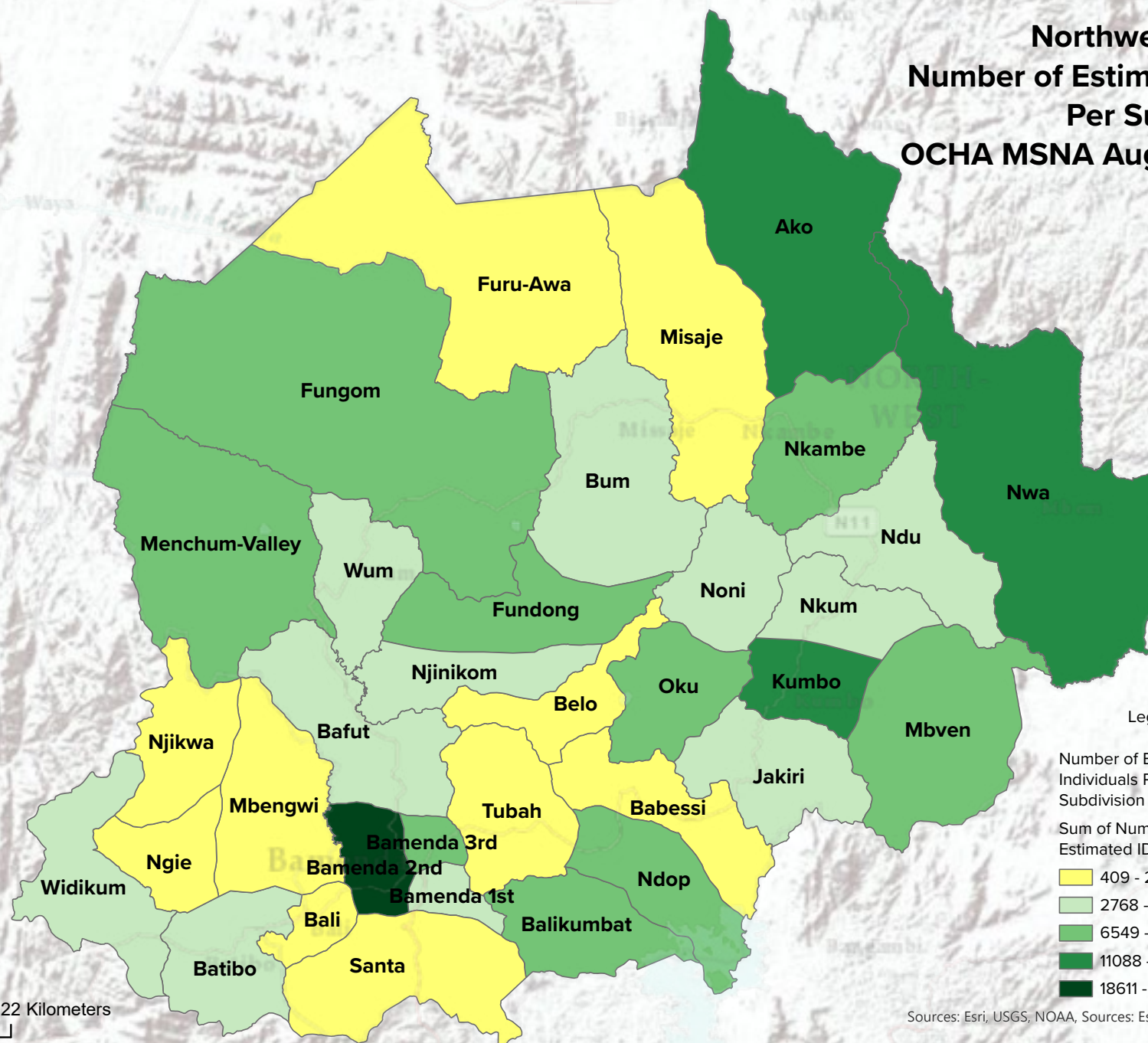
Northwest Region Population per Subdivision



0 11.25 22.5 45 Kilometers

Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

Northwest Region **Number of Estimated IDPs** **Per Subdivision** **OCHA MSNA August 2022**



Legend

Number of Estimated IDP
Individuals Per
Subdivision

Sum of Number of
Estimated IDP Individuals

409 - 2767

2768 - 6548

6549 - 11087

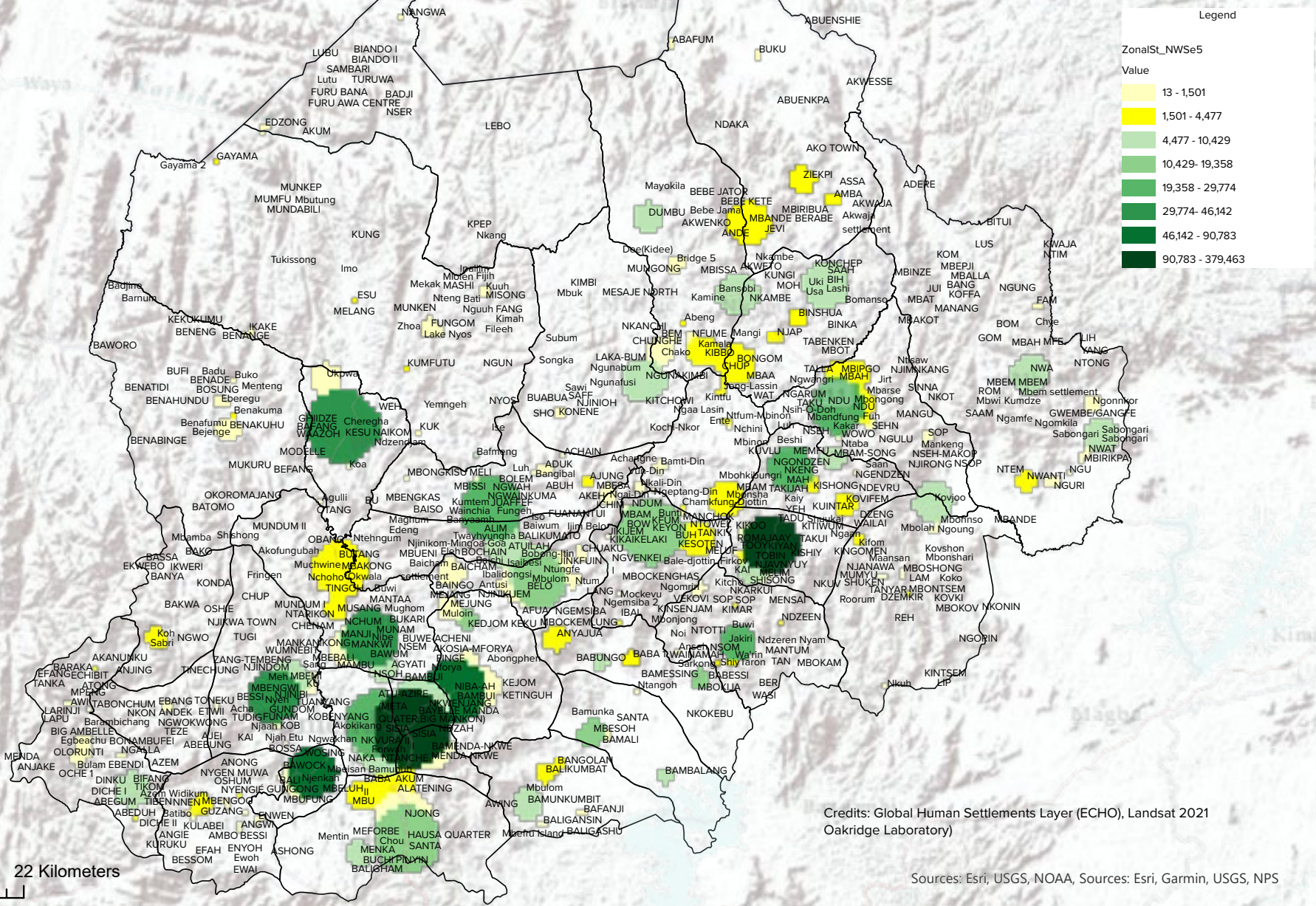
11088 - 18610

18611 - 32264

0 5.5 11 22 Kilometers

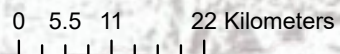
Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

Northwest Region Estimates of Population of Villages

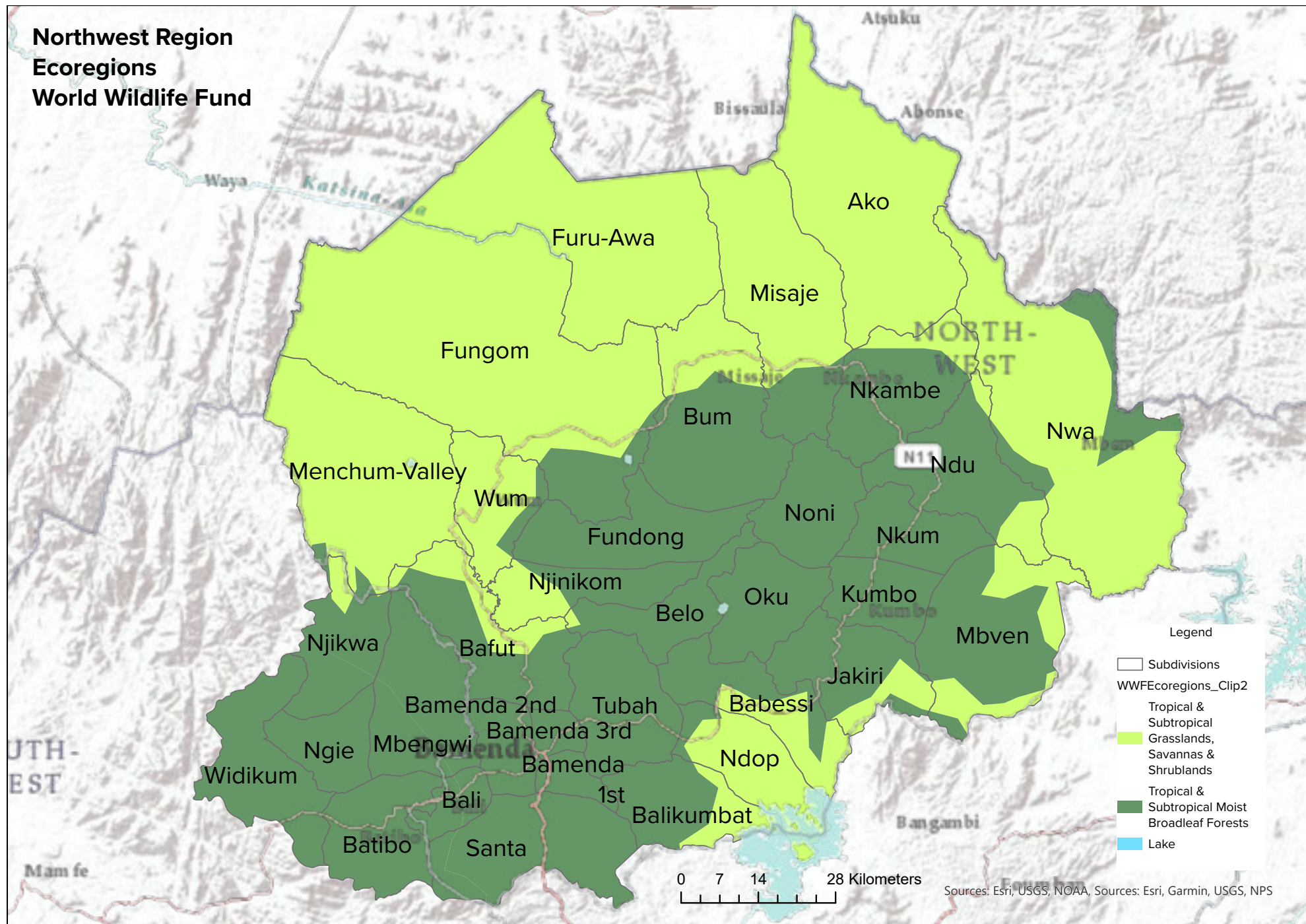


Credits: Global Human Settlements Layer (ECHO), Landsat 2021
Oakridge Laboratory)

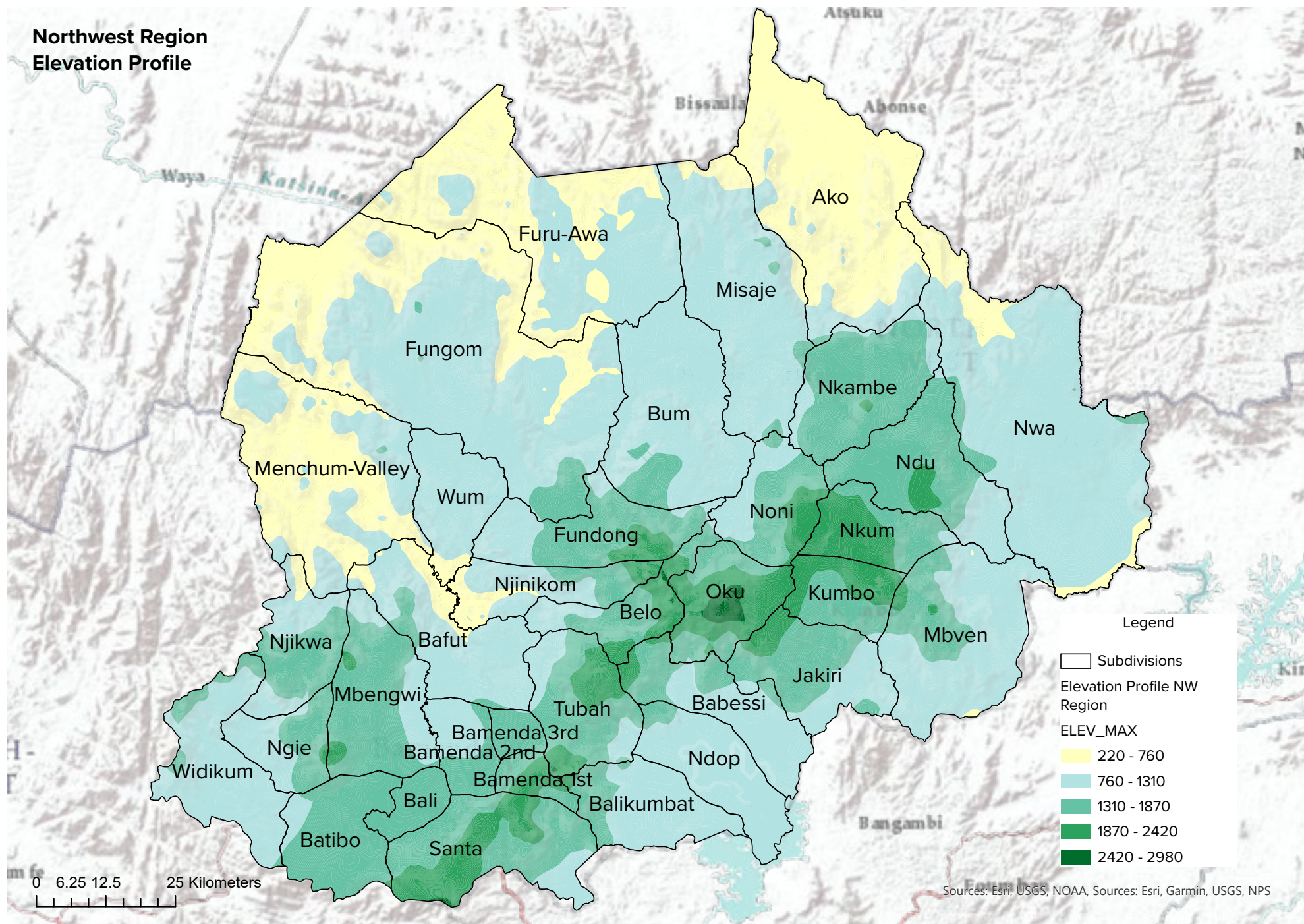
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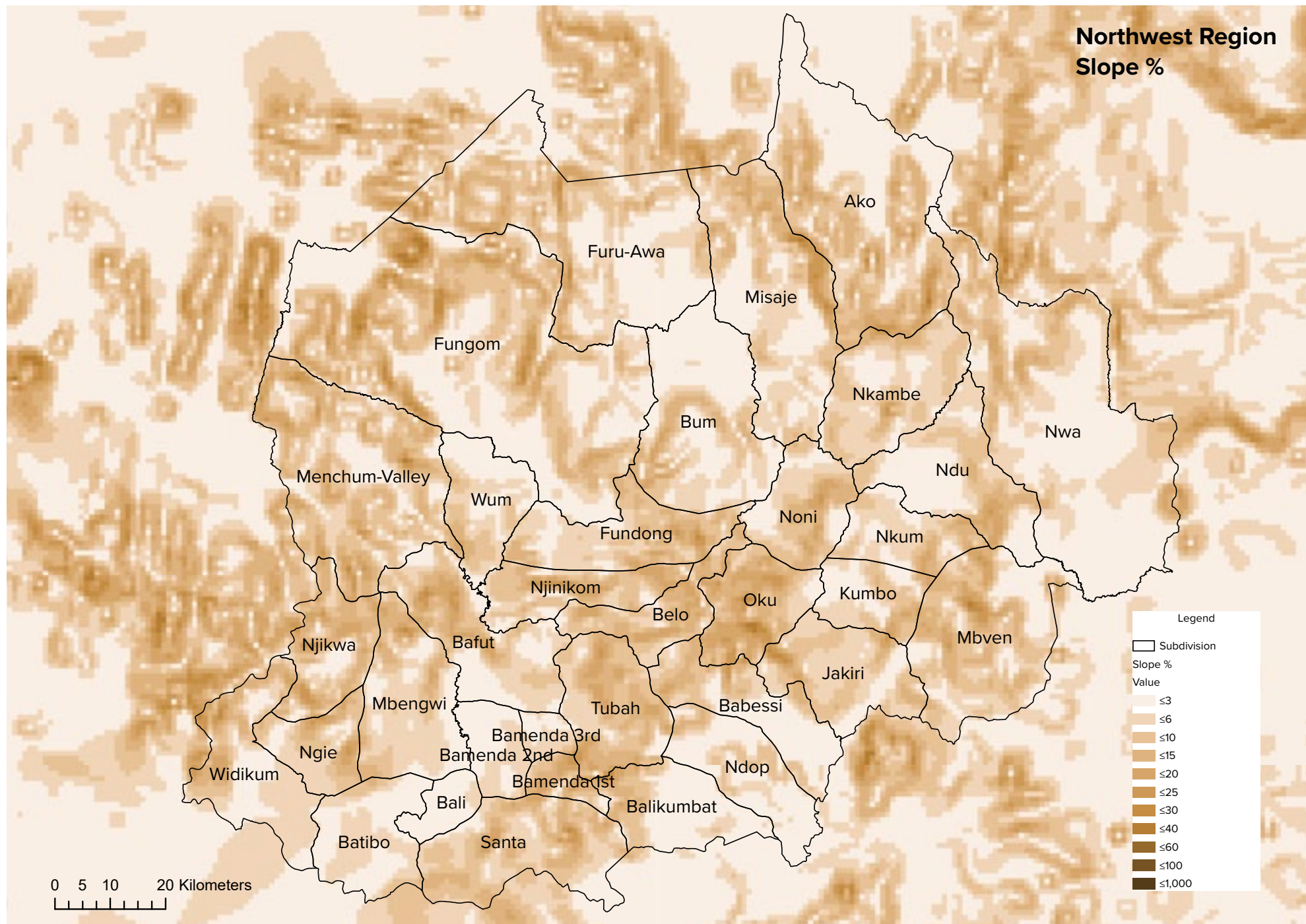
**Northwest Region
Ecoregions
World Wildlife Fund**



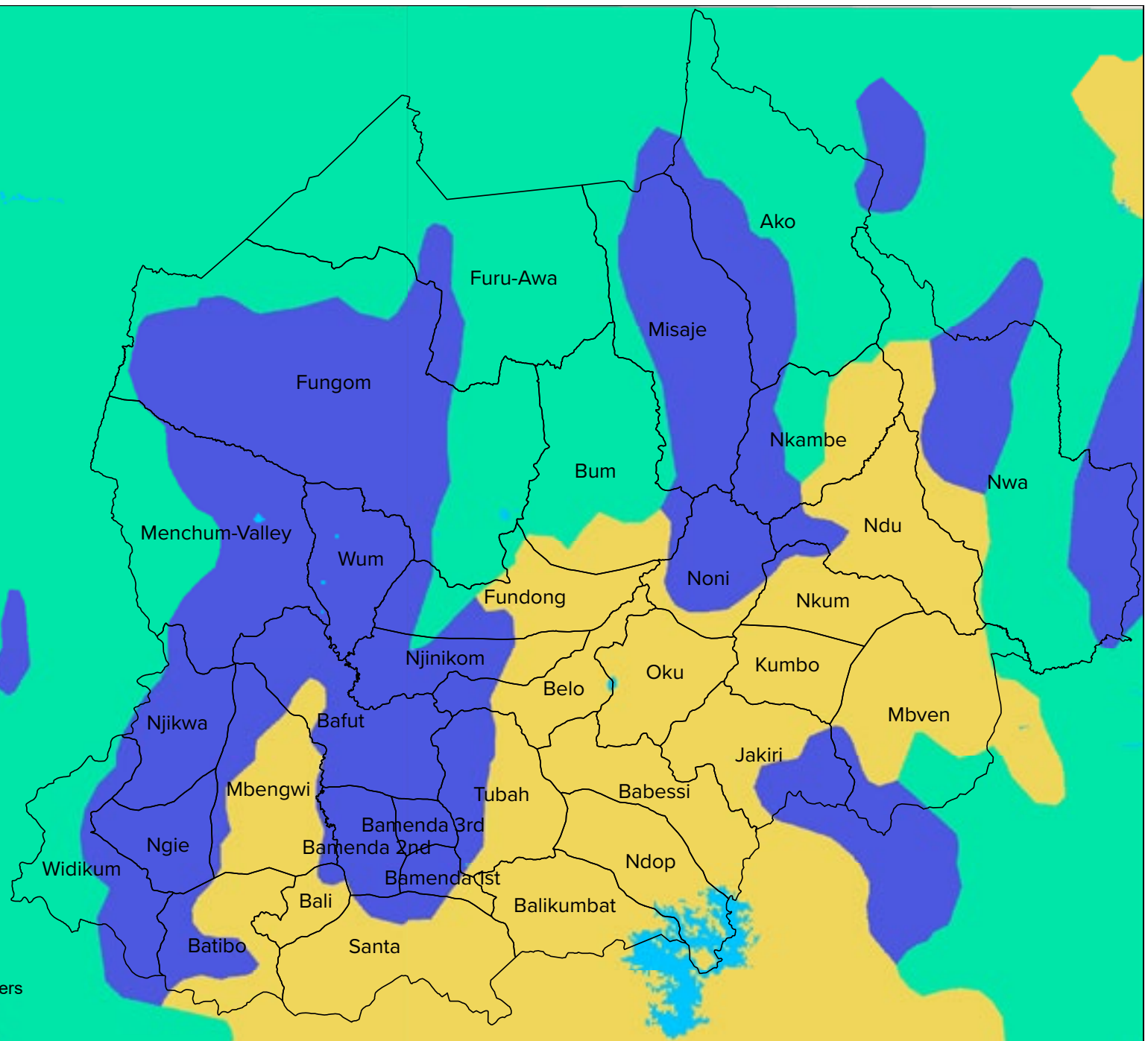
Northwest Region Elevation Profile



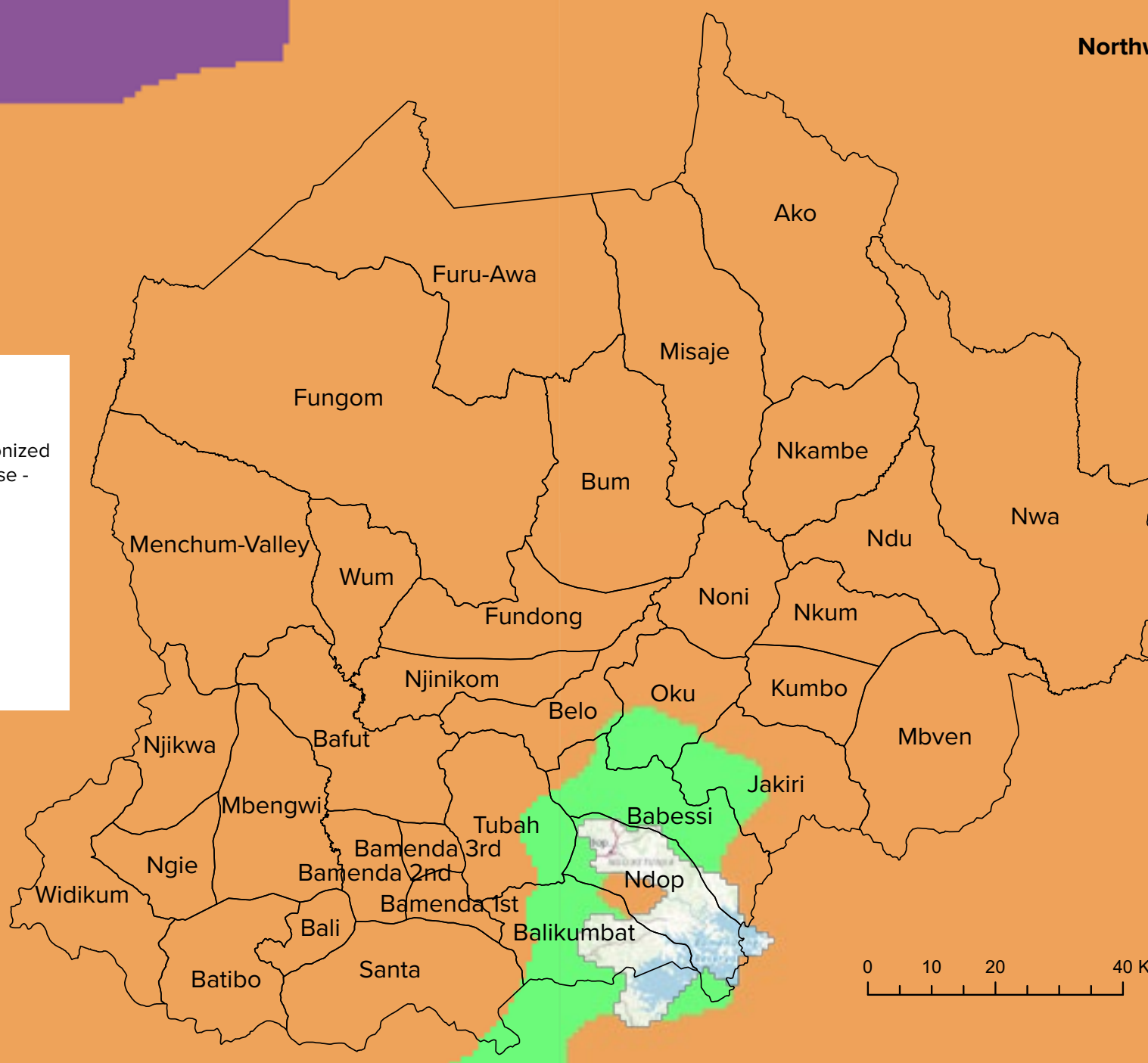
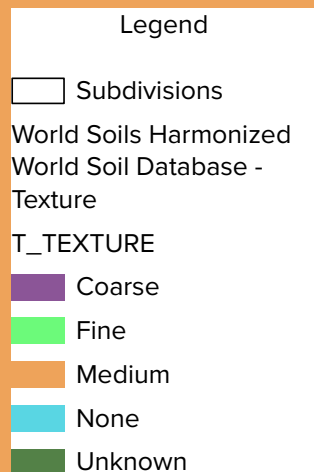
Northwest Region Slope %



Northwest Region Surficial Lithology



Northwest Region Soil Texture

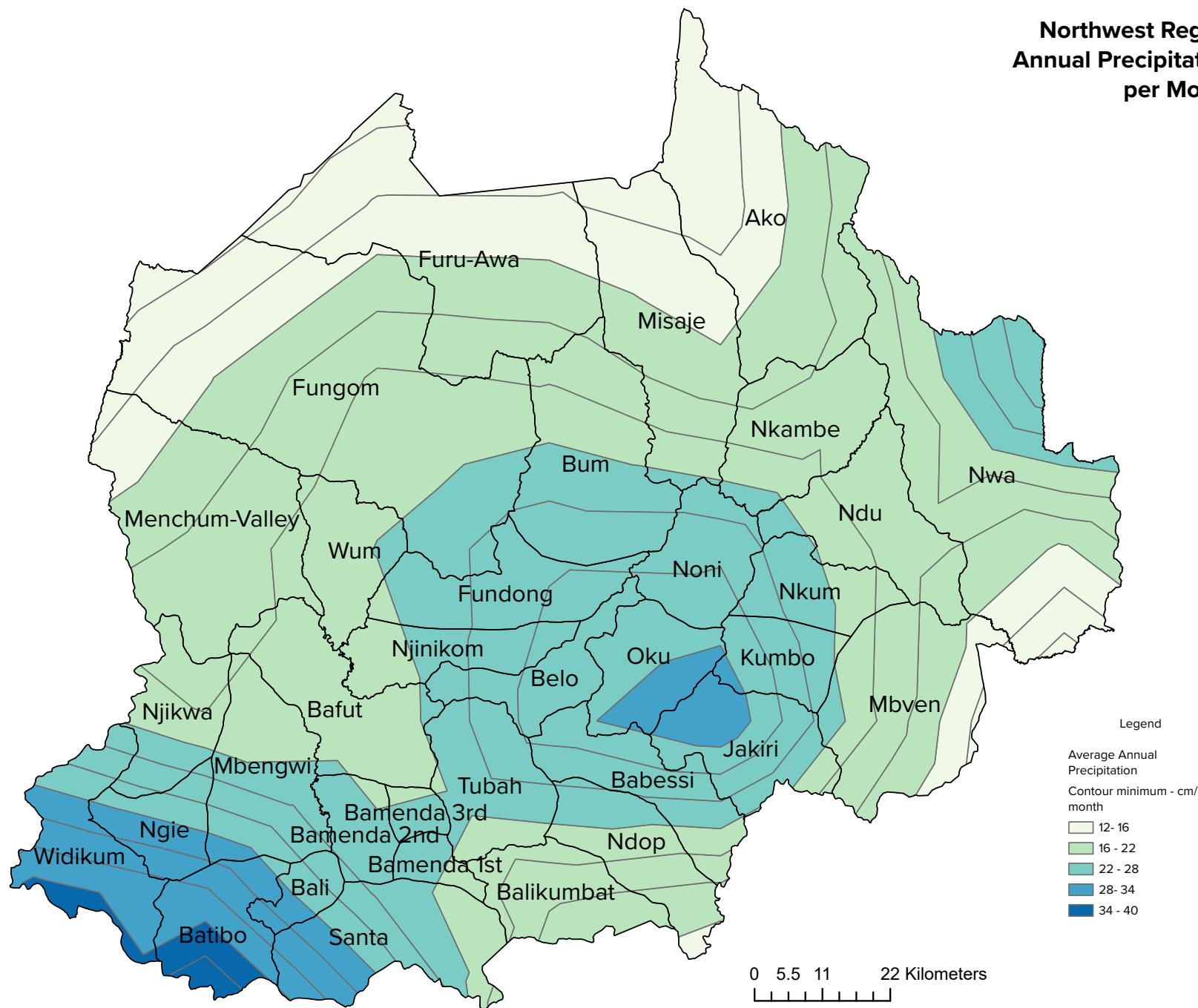


Source: FAO, Esri

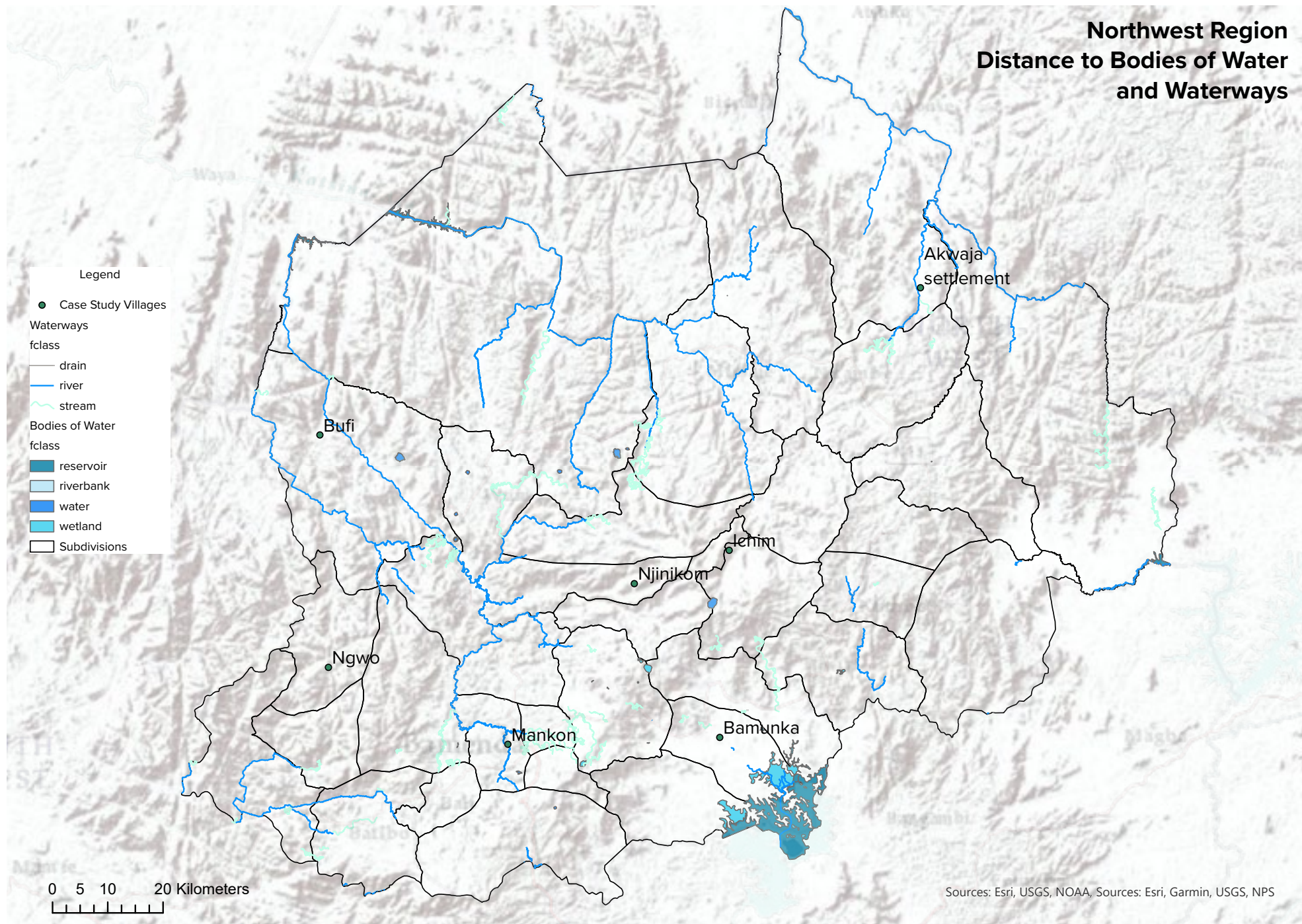
Northwest Region Annual Precipitation per Month



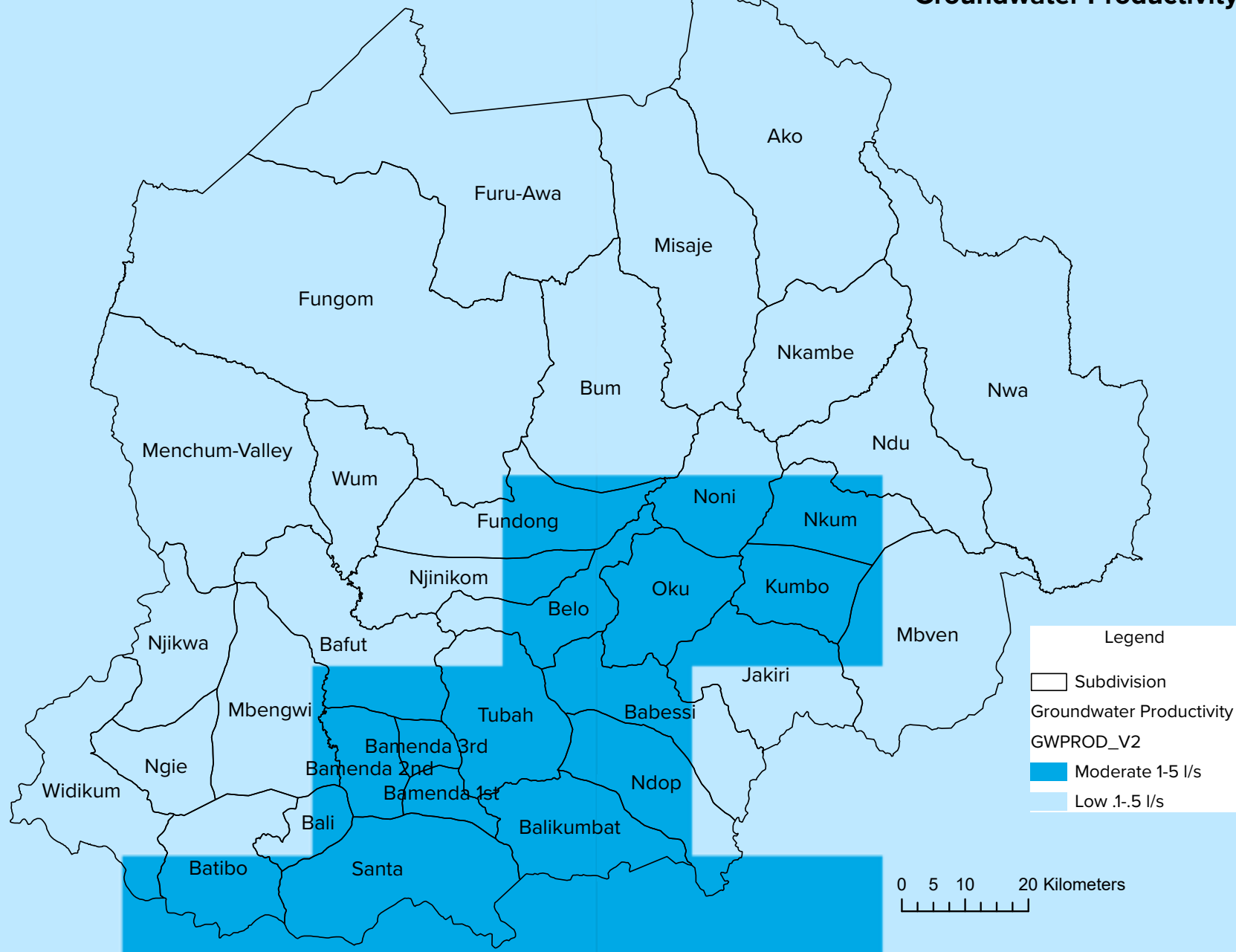
Northwest Region Annual Precipitation per Month



Northwest Region Distance to Bodies of Water and Waterways



Northwest Region Groundwater Productivity



Northwest Region Temperature Bivariate Distribution Dry vs. Rainy Season

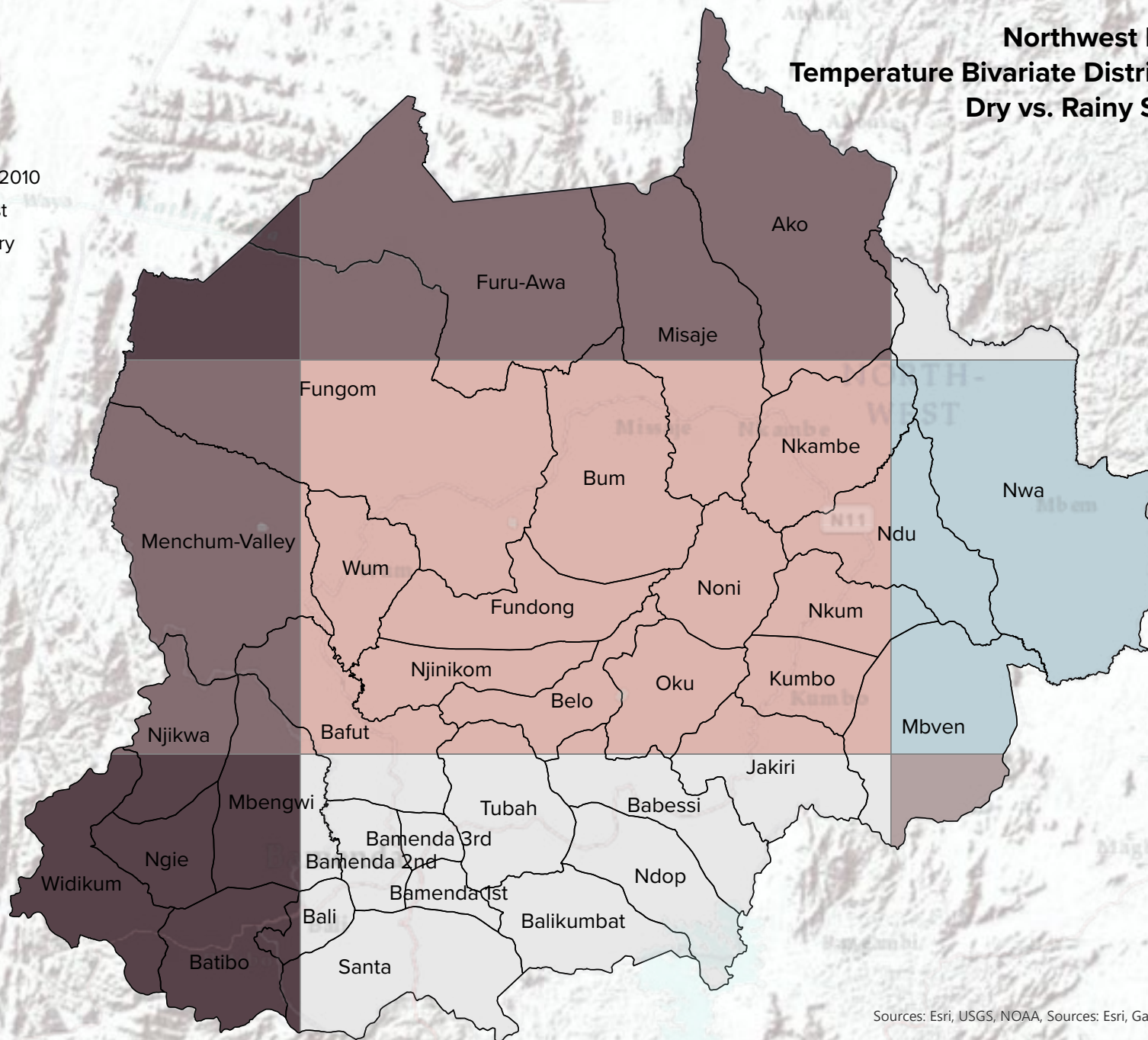
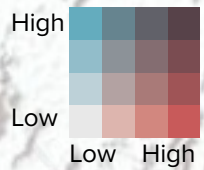
Legend

Subdivisions

Temperature 1980-2010

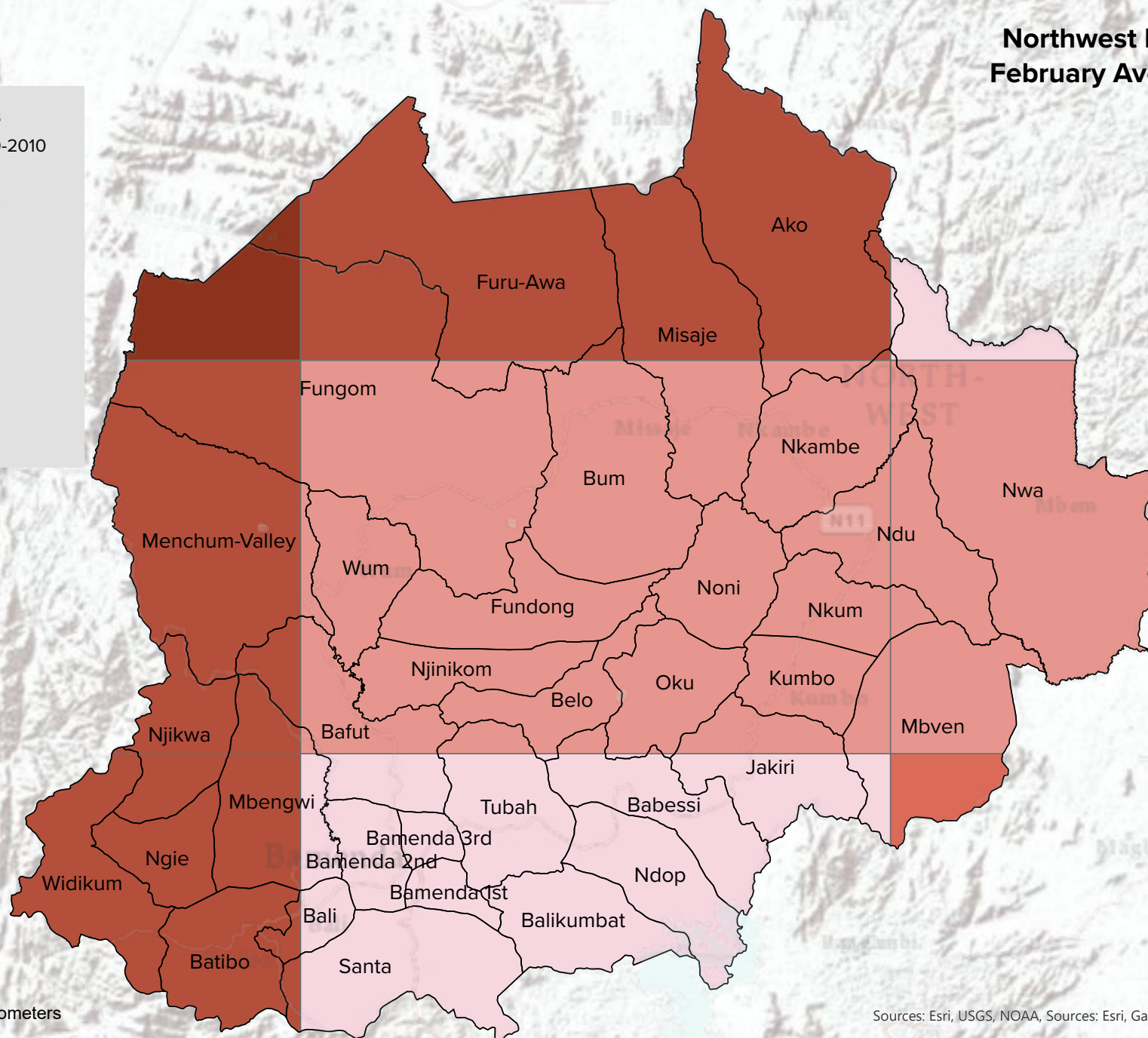
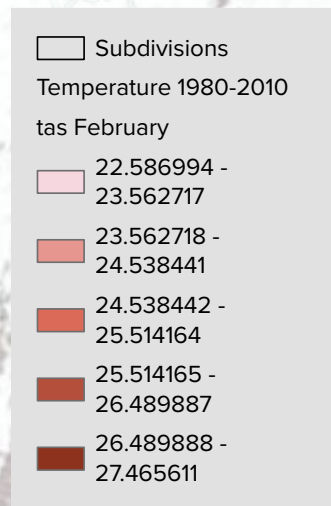
tas August

tas January



Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

Northwest Region February Averages



0 4.43.85 17.7 Kilometers

Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

Northwest Region August Averages

Subdivisions

Temperature 1980-2010

tas August

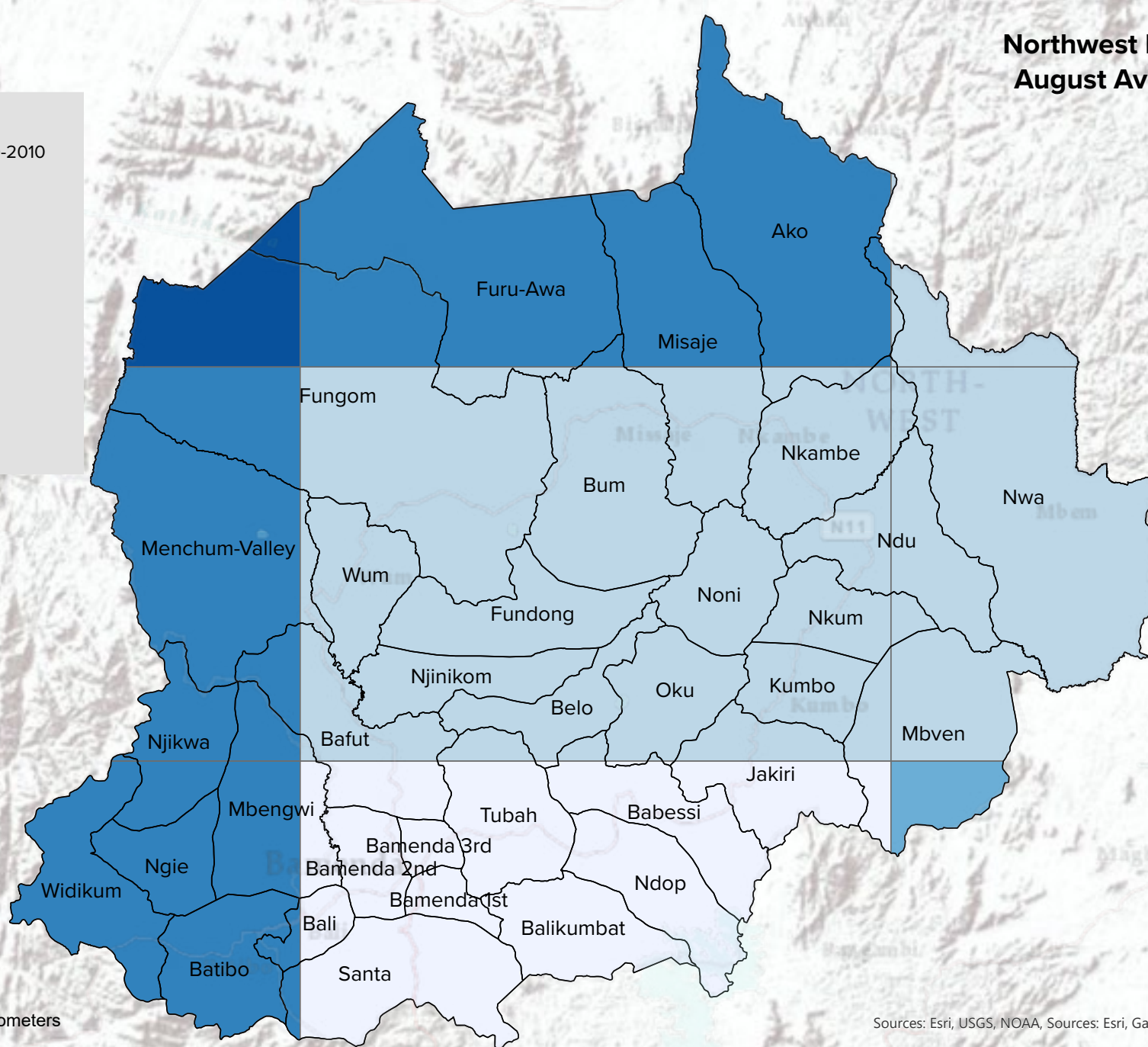
20.040321 -
20.956740

20.956741 -
21.873158

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22.789577

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23.705995

23.705996 -
24.622414

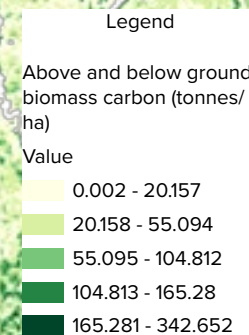
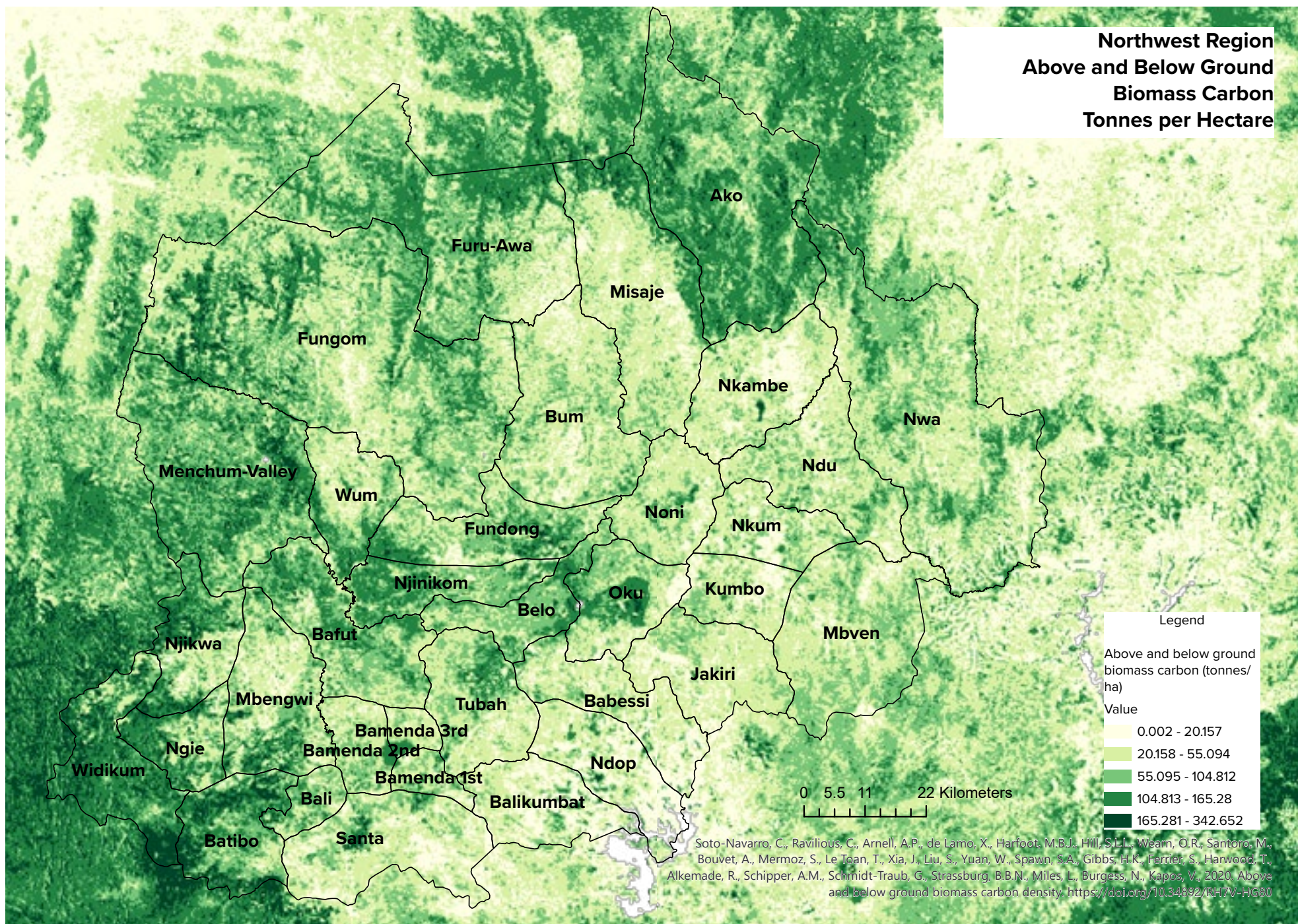


0 4.428.85 17.7 Kilometers



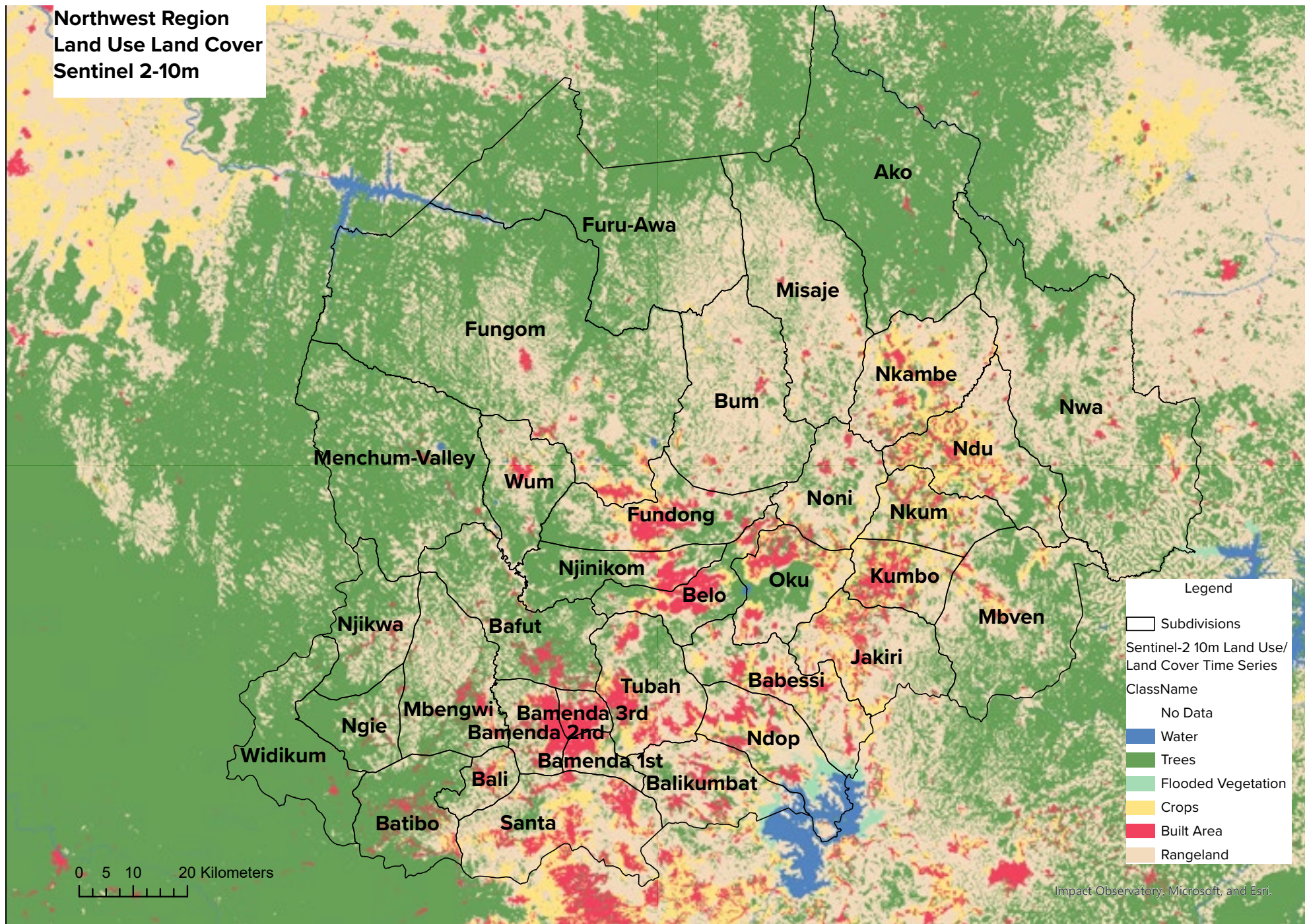
Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

Northwest Region Above and Below Ground Biomass Carbon Tonnes per Hectare

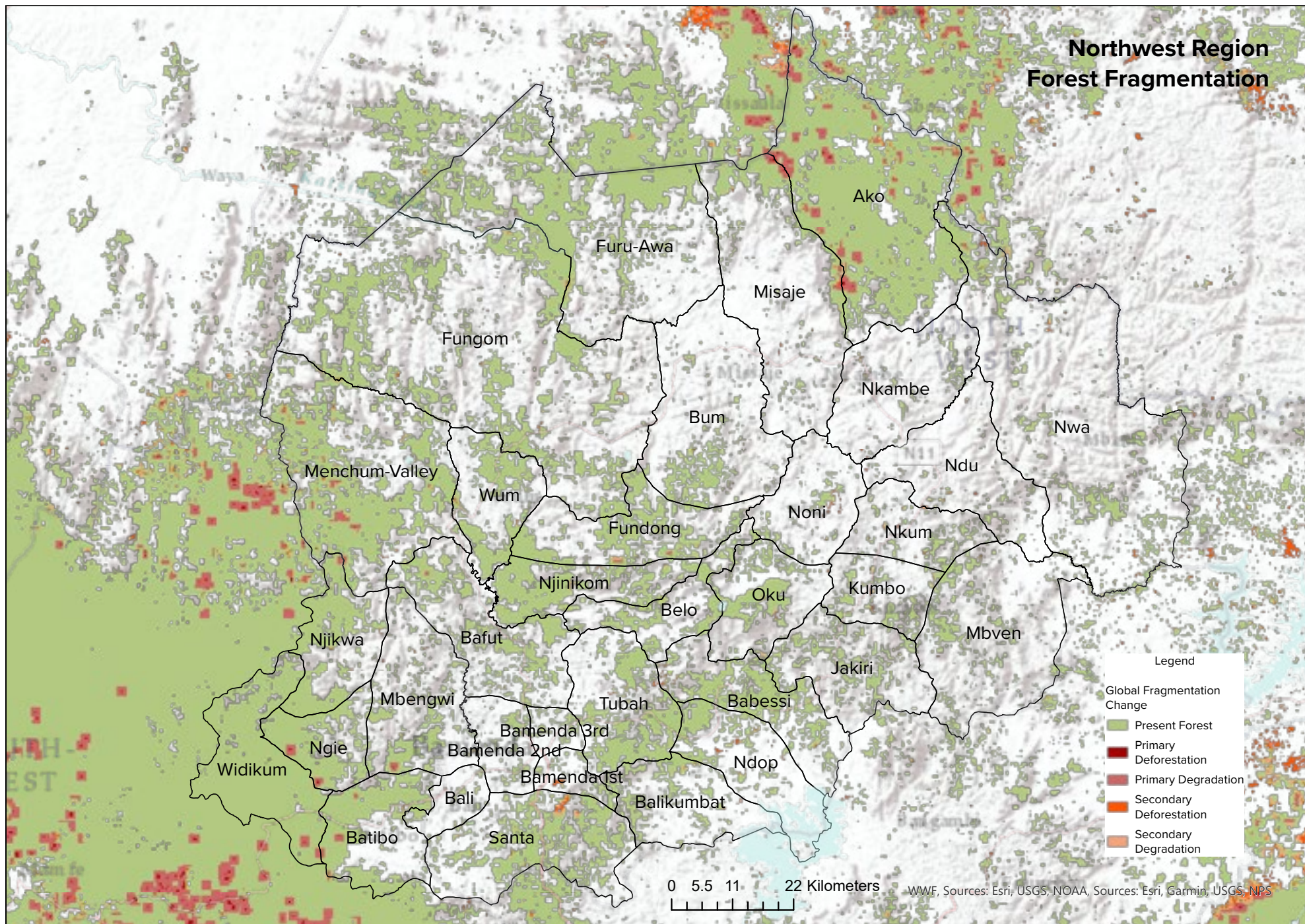


Soto-Navarro, C., Ravilious, C., Arnell, A.P., de Lamo, X., Harfoot, M.B.J., Hill, S.L.L., Wearn, O.R., Santoro, M., Bouvet, A., Mermoz, S., Le Toan, T., Xia, J., Liu, S., Yuan, W., Spawn, S.A., Gibbs, H.K., Ferner, S., Harwood, T., Alkemade, R., Schipper, A.M., Schmidt-Traub, G., Strassburg, B.B.N., Miles, L., Burgess, N., Kapos, V., 2020. Above and below ground biomass carbon density. <https://doi.org/10.34892/RH7V-HG80>

**Northwest Region
Land Use Land Cover
Sentinel 2-10m**



Northwest Region Forest Fragmentation



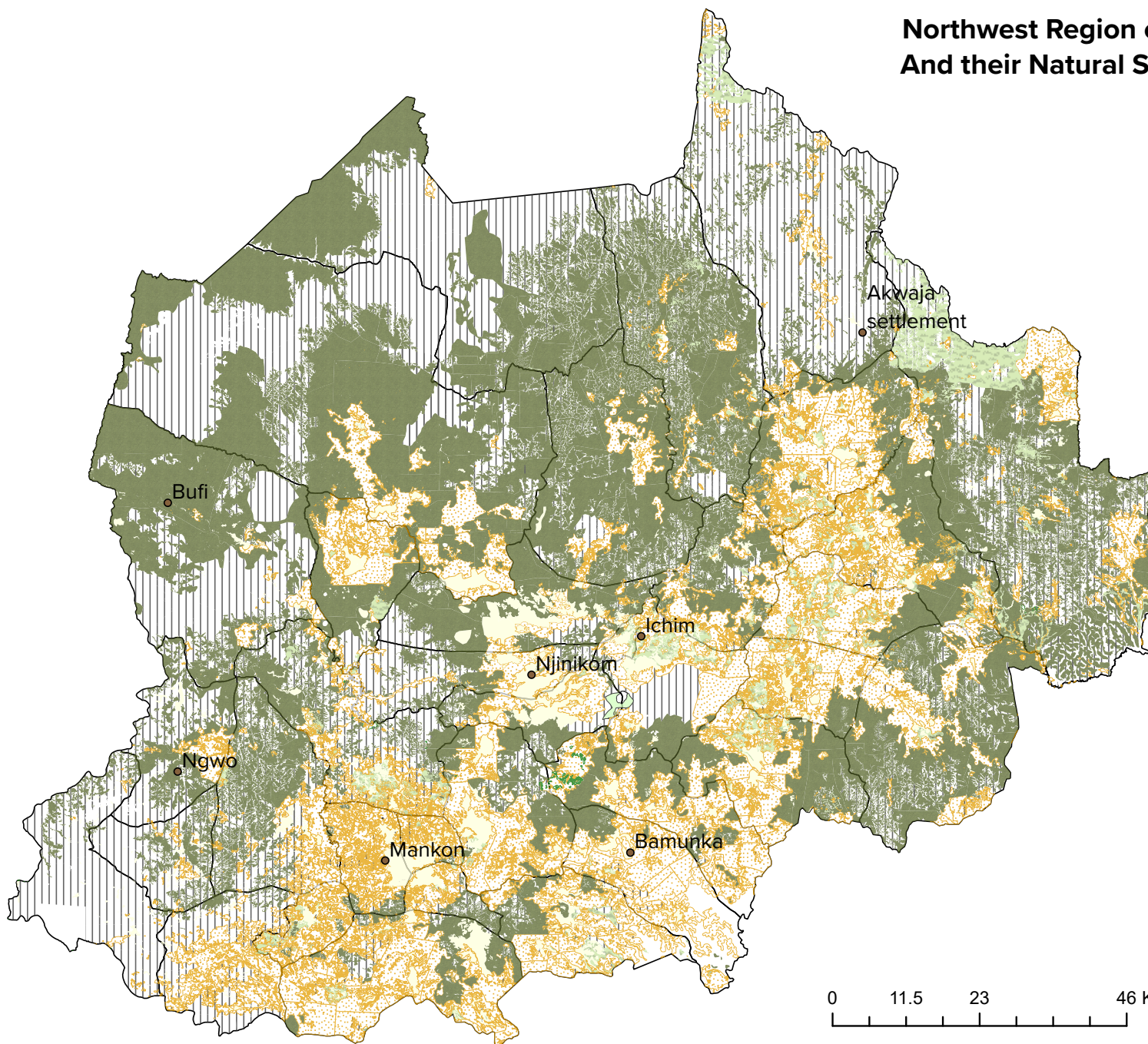
Northwest Region case Studies And their Natural Surroundings

Legend

Landuse

fclass

- cemetery
- commercial
- farmland
- farmyard
- forest
- grass
- industrial
- meadow
- military
- nature_reserve
- orchard
- park
- quarry
- residential
- retail
- scrub



0 11.5 23 46 Kilometers