



# Shelter Cluster NWSW Cameroon

ShelterCluster.org

Coordinating Humanitarian Shelter

**Littoral Region, Cameroon Environmental Atlas**



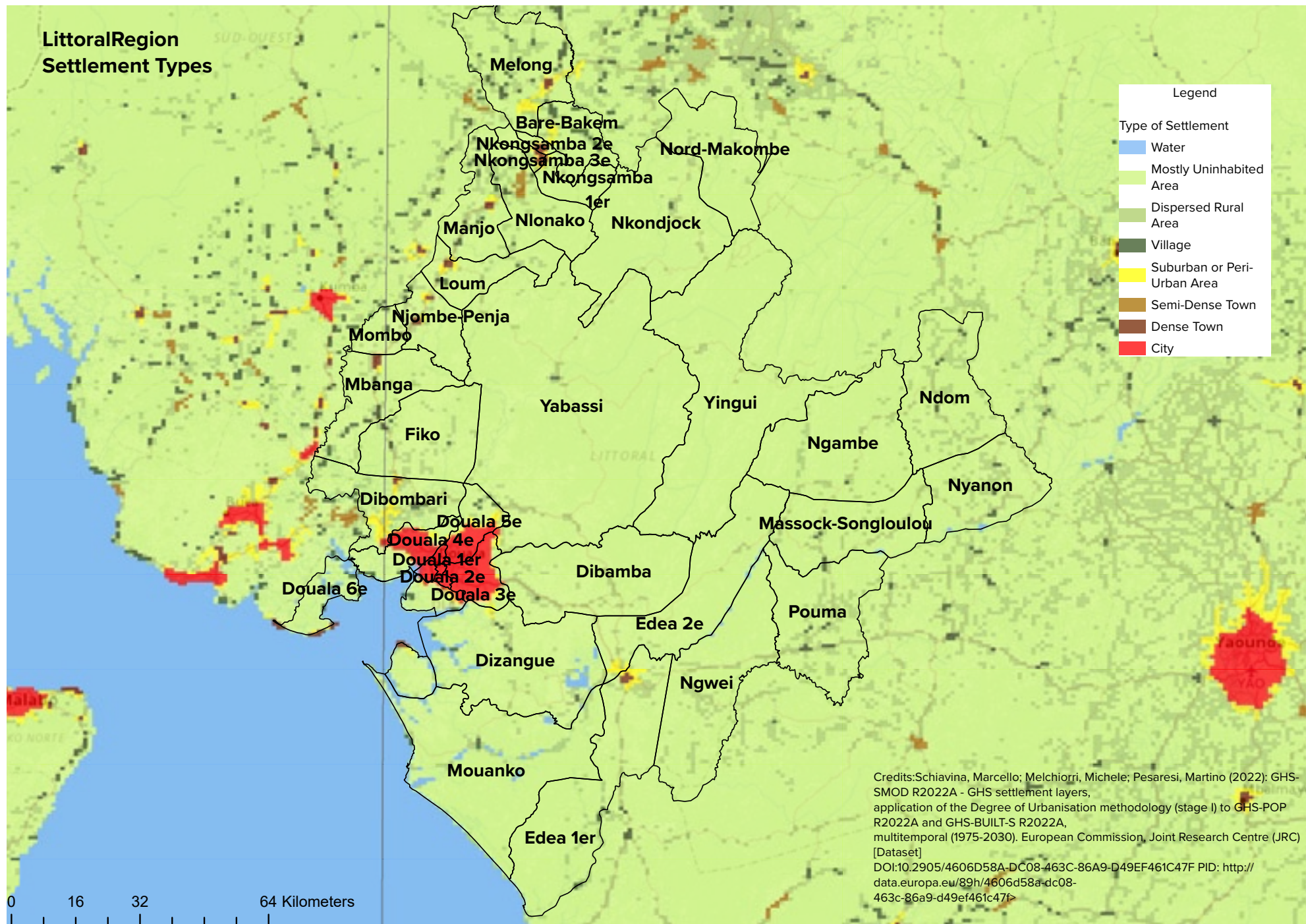
What follows is a mini environmental atlas of the Littoral Region as a follow up to the Environmental Atlases which were prepared for the Northwest and Southwest Regions during the environmental workshops held in Bamenda and Buea. The atlas will serve as an initial entry point to some key data on the environment to be considered when working in the Littoral Region. For more information on the Shelter Cluster's environmental mainstreaming, please see the following resources:

- [Northwest Region Shelter Cluster Report on Environmental Mainstreaming](#)
- [Southwest Region Shelter Cluster Report on Environmental Mainstreaming](#)

The maps contained in this atlas includes the following maps:

1. [Littoral Region Settlement Typologies](#)- Global Human Settlements Layer Degree of Urbanisation
2. [Littoral Region Estimated Population per Subdivision](#)- Landsat Oakridge Laboratory 2021
3. [Littoral Region Number of IDPs per Subdivision](#)- OCHA August 2022 Multisector Needs Assessment
4. [Littoral Region Ecoregions](#) - World Wildlife fund
5. [Littoral Region Maximum Elevation Profile](#)- World Food Programme, Elevation Raster, Humanitarian Data Exchange Download
6. [Littoral Lithology](#) - ArcGIS Esri, Africa Surficial Lithology layer
7. [Littoral Region Soil Texture](#) World Harmonised Soil Database Texture
8. [Littoral Region Groundwater Productivity](#)- British Geological Survey, Groundwater Maps of Africa
9. [Littoral Region Land Use and Land Cover Sentinel 2-10 M](#)
10. [Littoral Region Biomass pe Hectare](#) UN Biodiversity Labs, detailed citation in map
11. [Littoral Region Forest Fragmentation 2000-2018](#) World Wildlife Fund, NOAA

# Littoral Region Settlement Types



**Legend**

Type of Settlement

- Water
- Mostly Uninhabited Area
- Dispersed Rural Area
- Village
- Suburban or Peri-Urban Area
- Semi-Dense Town
- Dense Town
- City

Credits: Schiavina, Marcello; Melchiorri, Michele; Pesaresi, Martino (2022): GHS-SMOD R2022A - GHS settlement layers, application of the Degree of Urbanisation methodology (stage I) to GHS-POP R2022A and GHS-BUILT-S R2022A, multitemporal (1975-2030). European Commission, Joint Research Centre (JRC) [Dataset]  
 DOI:10.2905/4606D58A-DC08-463C-86A9-D49EF461C47F PID: <http://data.europa.eu/89h/4606d58a-dc08-463c-86a9-d49ef461c47f>





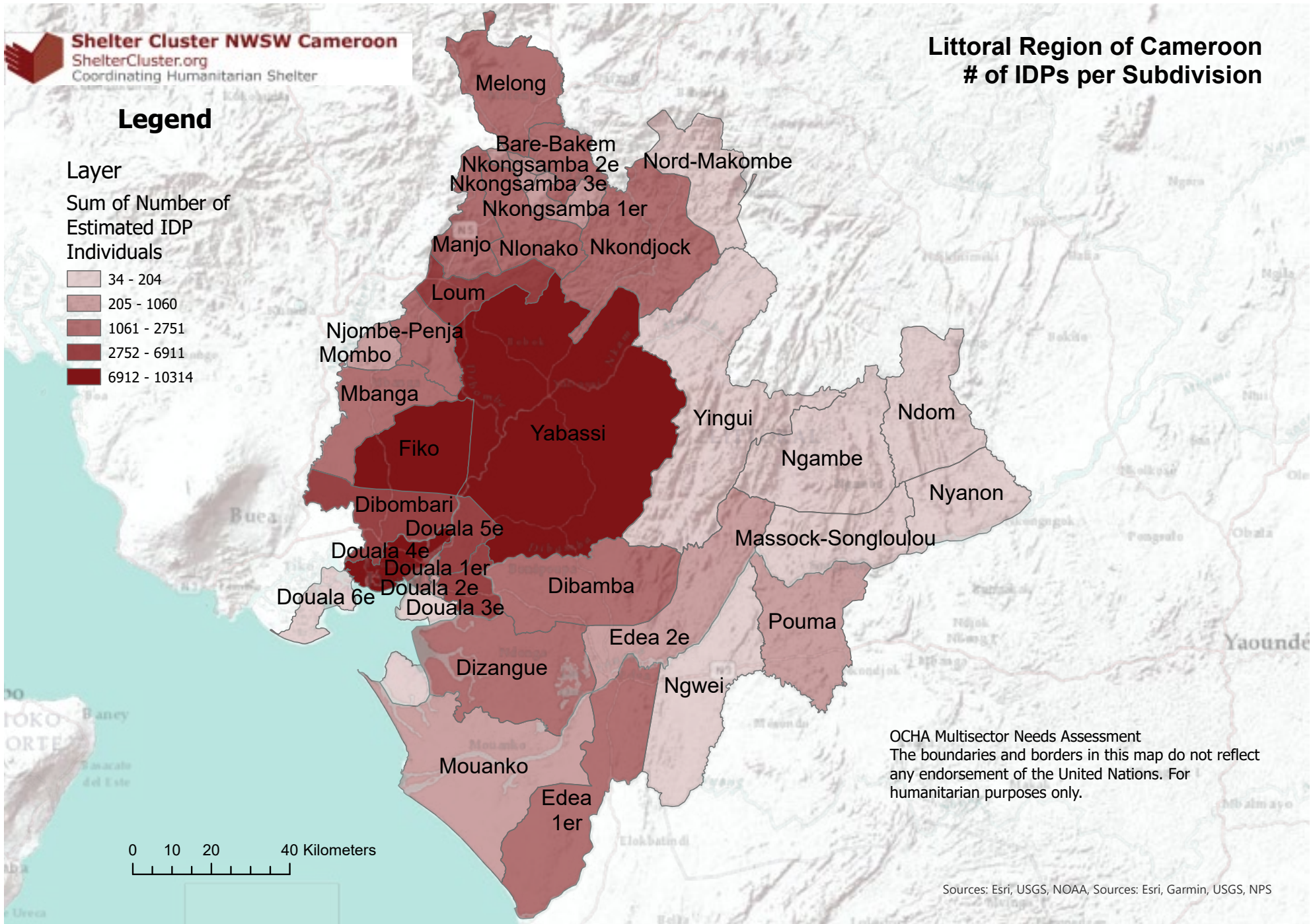
**Littoral Region of Cameroon  
 # of IDPs per Subdivision**

**Legend**

Layer

Sum of Number of  
 Estimated IDP  
 Individuals

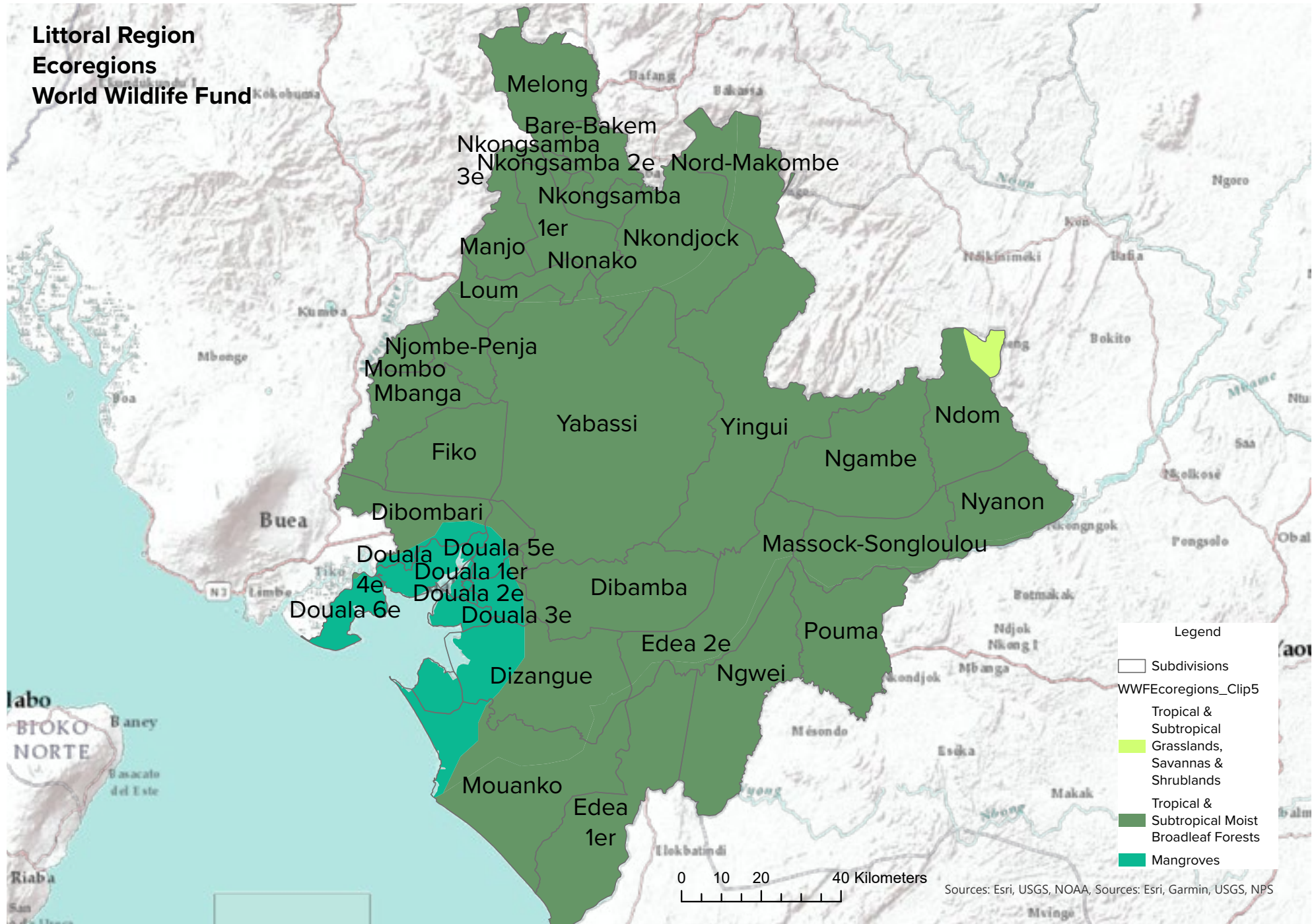
- 34 - 204
- 205 - 1060
- 1061 - 2751
- 2752 - 6911
- 6912 - 10314



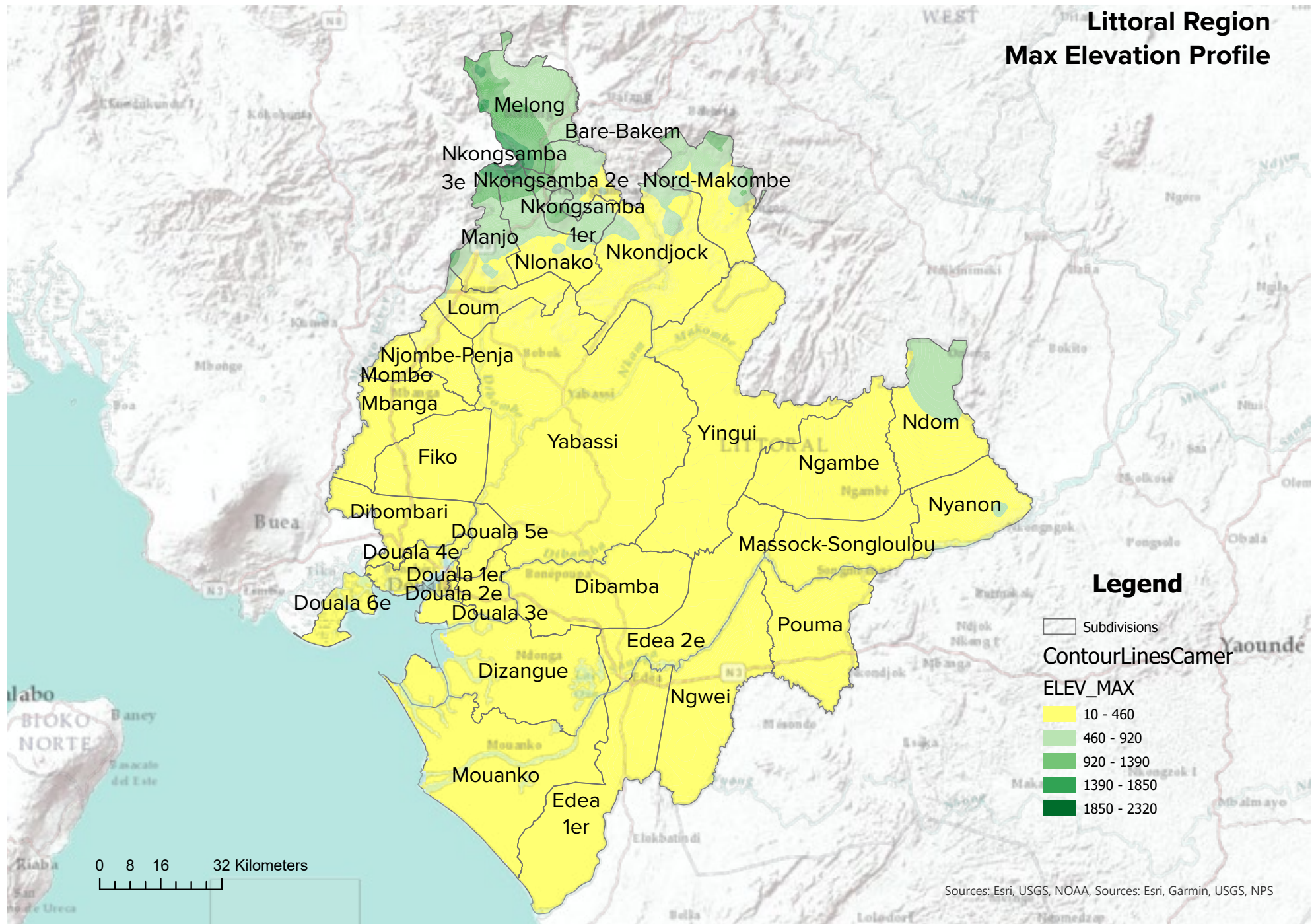
OCHA Multisector Needs Assessment  
 The boundaries and borders in this map do not reflect  
 any endorsement of the United Nations. For  
 humanitarian purposes only.

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

**Littoral Region  
Ecoregions  
World Wildlife Fund**



# Littoral Region Max Elevation Profile



Melong

Bare-Bakem

Nkongsamba

3e Nkongsamba 2e Nord-Makombe

Nkongsamba

Manjo

1er

Nkondjock

Nlonako

Loum

Njombe-Penja

Mombo

Mbanga

Fiko

Yabassi

Yingui

Ndom

Ngambe

Nyanon

Dibombari

Douala 5e

Massock-Songloulou

Douala 4e

Douala 1er

Dibamba

Douala 6e

Douala 2e

Douala 3e

Pouma

Dizangue

Edea 2e

Ngwei

Mouanko

Edea 1er

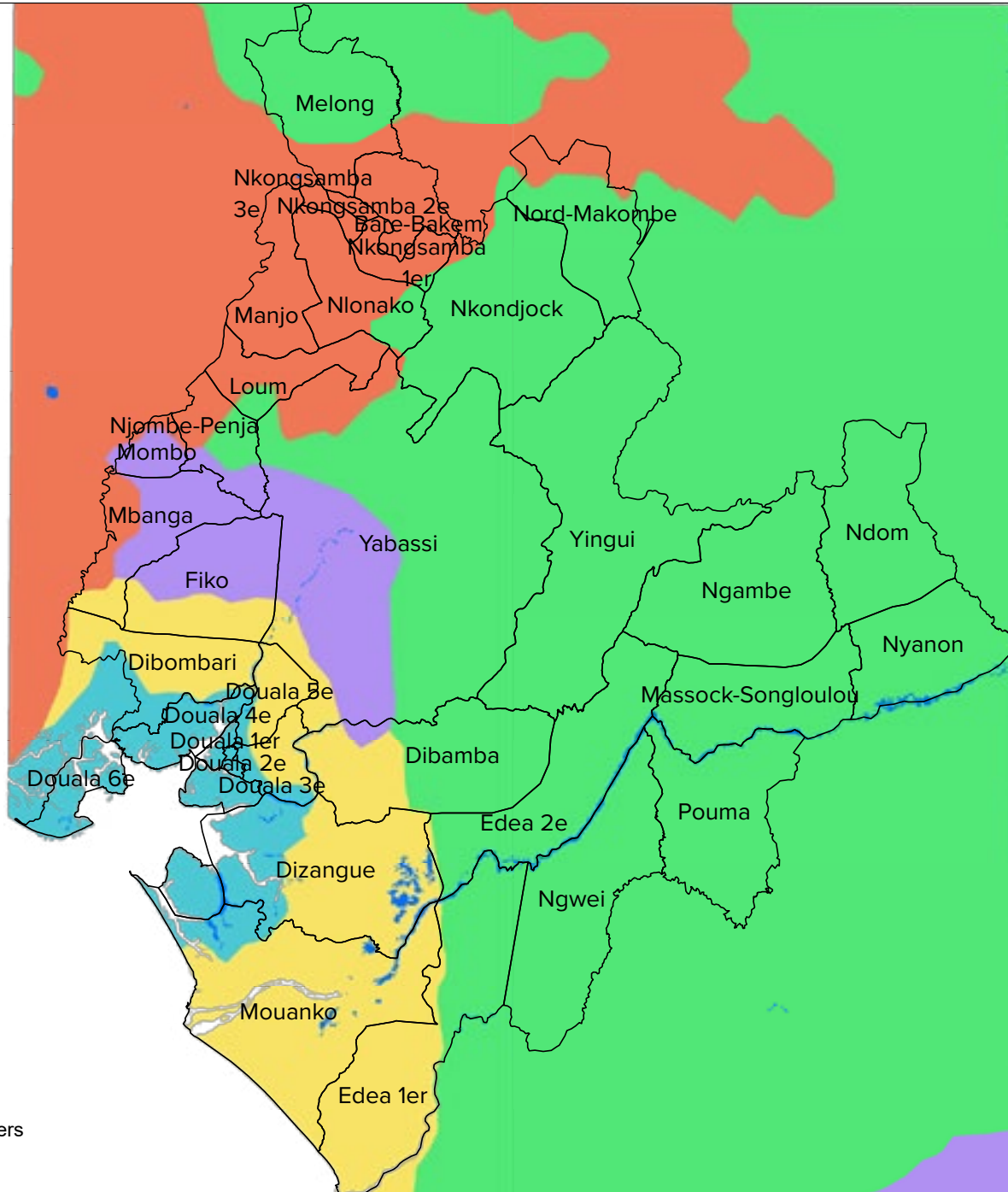
# Littoral Region Surficial Lithology

## Legend

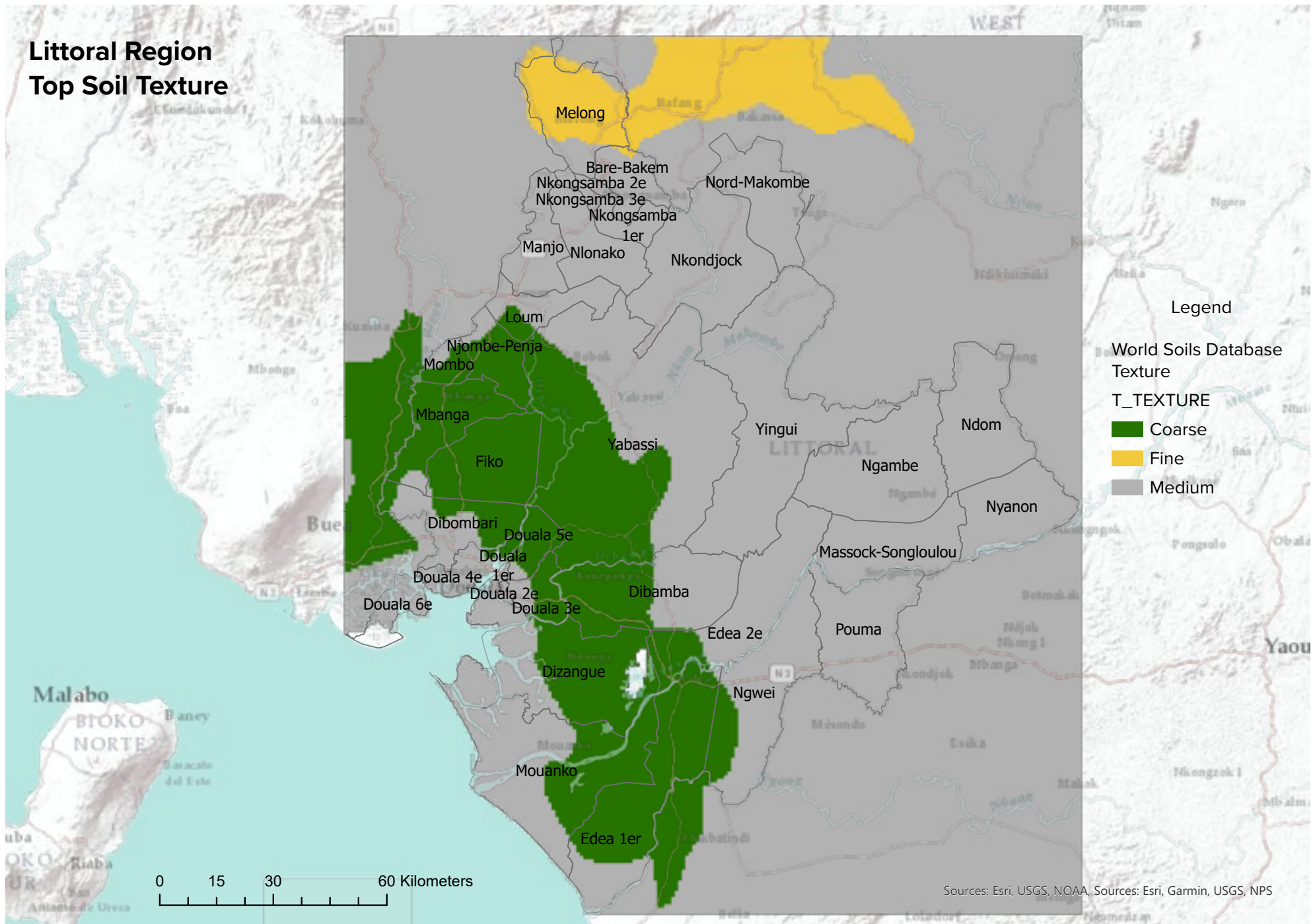
AfricaSurficialLitholog\_Cli

ClassName

- Non-Carbonate
- Metagneous
- Extrusive Volcanic
- Alluvium - Beach,  
Strand, Coastal  
Dune
- Alluvium - Other
- Water



# Littoral Region Top Soil Texture



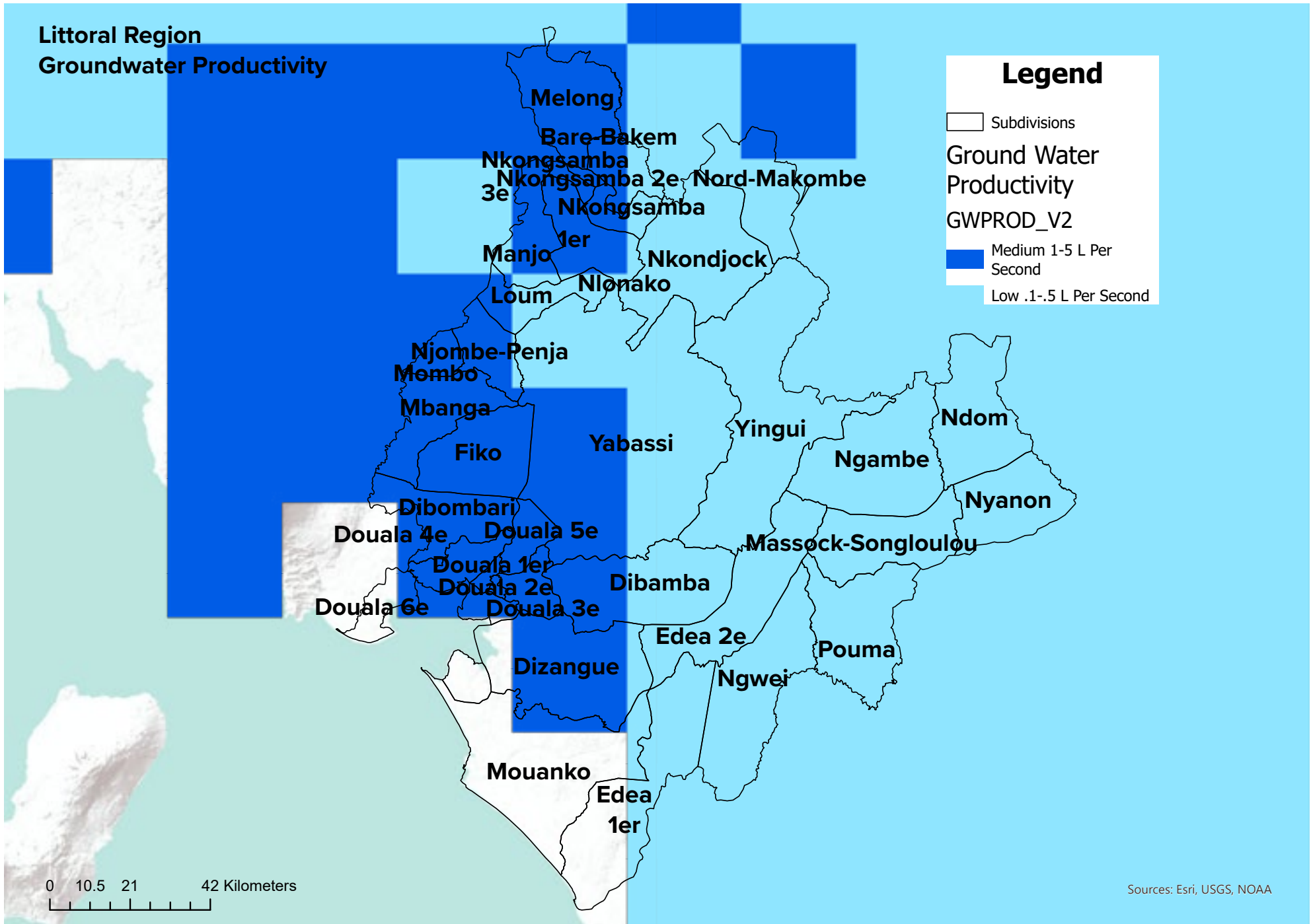
# Littoral Region Groundwater Productivity

### Legend

Subdivisions

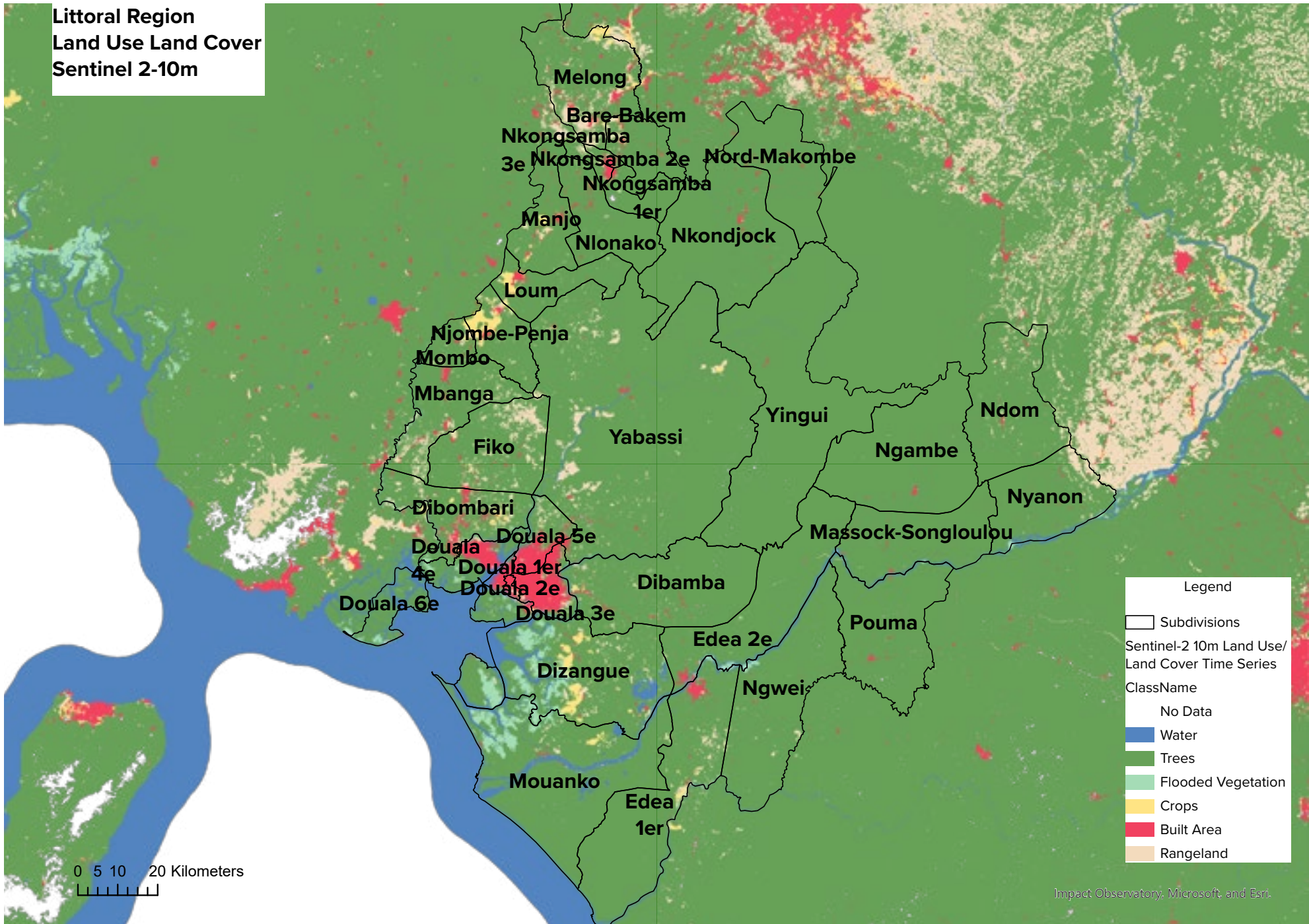
Ground Water Productivity  
GWPROD\_V2

- Medium 1-5 L Per Second
- Low .1-.5 L Per Second

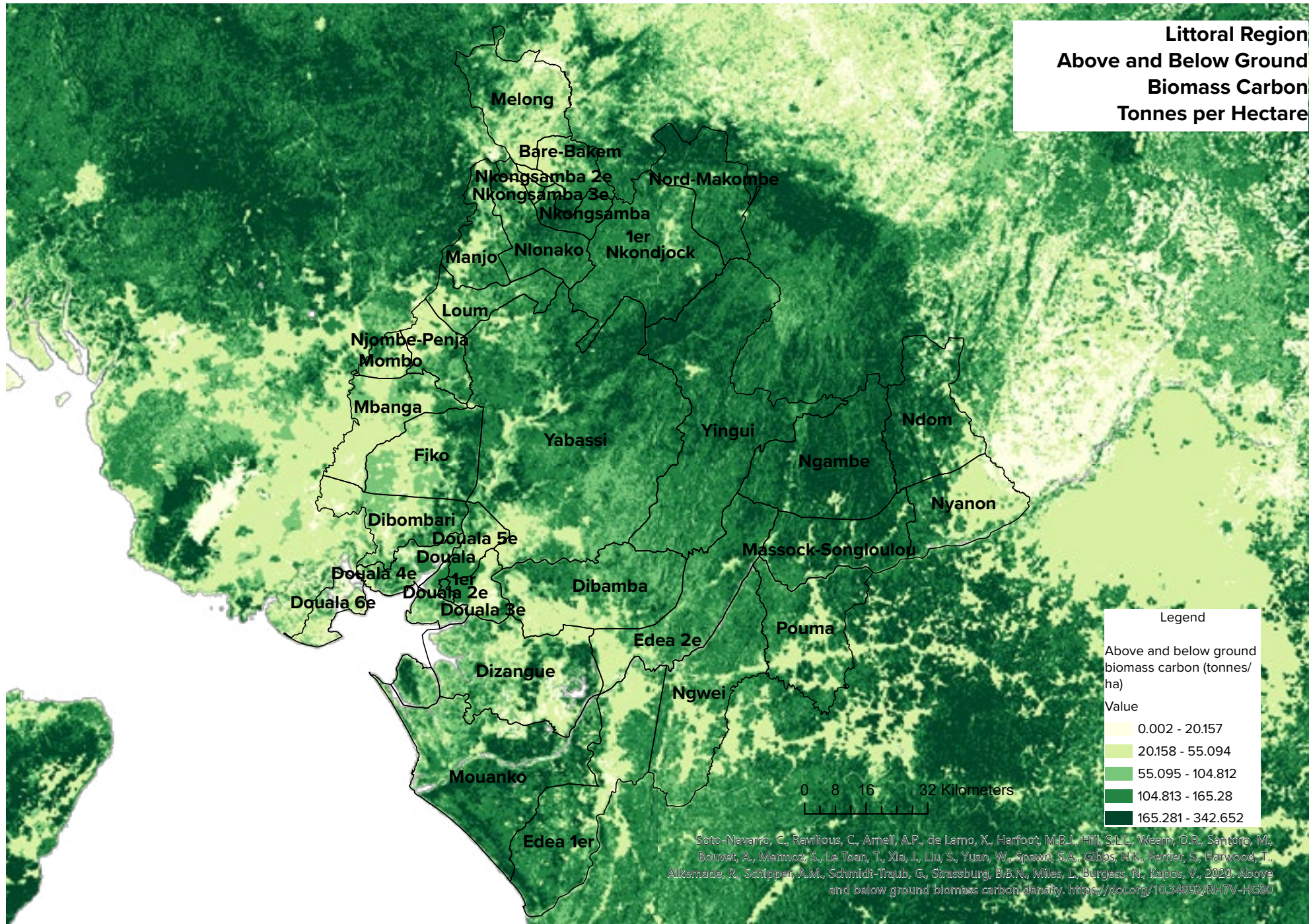


Sources: Esri, USGS, NOAA

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

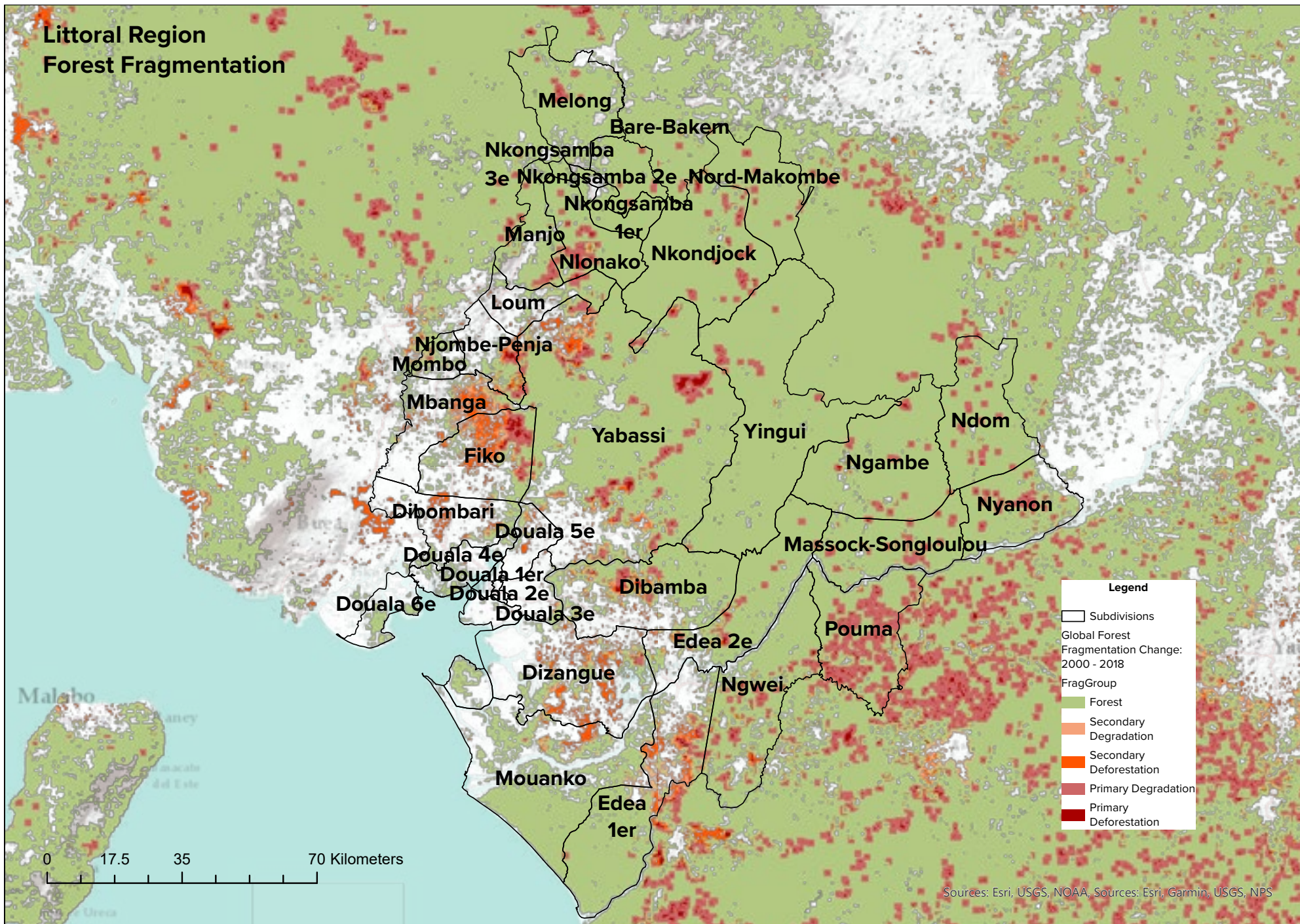


**Littoral Region  
Above and Below Ground  
Biomass Carbon  
Tonnes per Hectare**



Soto-Navarro, C., Ravillious, C., Amell, A.P., de Lamo, X., Harfoot, M.B.J., Hill, S.L.L., Weam, O.R., Santoro, M., Bouvet, A., Mermoz, S., Le Toan, T., Xia, J., Liu, S., Yuan, W., Spavin, S.A., Gibbs, H.K., Ferrier, 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/R47V-HG80>

# Littoral Region Forest Fragmentation



Melong  
Bare-Bakem  
Nkongsamba  
3e Nkongsamba 2e Nord-Makombe  
Nkongsamba  
Manjo 1er  
Nlonako Nkondjock  
Loum  
Njombe-Penja  
Mombo  
Mbanga  
Fiko  
Yabassi  
Yingui  
Ndom  
Nyanon  
Dibombari  
Douala 5e  
Douala 4e  
Douala 1er  
Douala 2e  
Douala 3e  
Dibamba  
Massock-Songloulou  
Edea 2e  
Pouma  
Dizangue  
Ngwei  
Mouanko  
Edea 1er

Malabo  
anney  
anacabo  
del Este