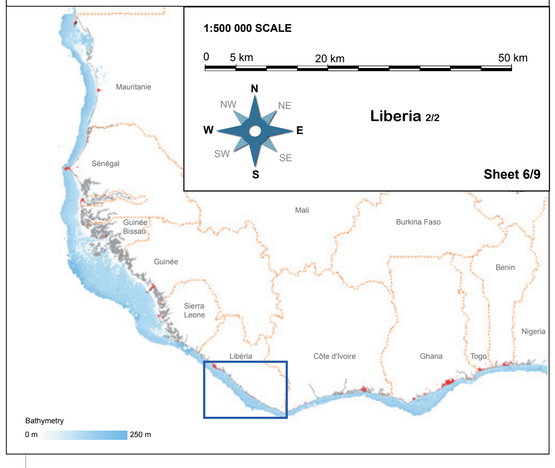
# REGIONAL SHORELINE MONITORING STUDY AND DRAWING UP A MANAGEMENT SCHEME FOR THE WEST AFRICAN COASTAL AREA

West African Economicand Monetary Union

International Union for Conservation of Nature

## CARTOGRAPHY OF GEODYNAMIC ANALYSIS

### CONTINENTAL SHELF AND LOCATION OF MAP




**1:500 000 SCALE**

0 5 km 20 km 50 km

N NW NE W E SW SE S

**Liberia** 2/2

**Sheet 6/9**

This cartography is a working document provided for illustrative purposes only and is not intended to be used as a substitute for official topographic or hydrographic documents. Maritime country borders are not shown, as the boundary delimitation has no legal standing.

11° W 10° W 9° W 8° W

6° N 5° N

MONROVIA Kakata Harbel Marshall Robertsville Mamba Point Cap Mesurado Dolobo Brazier Point Bassa Point Harrisville Long Roff Point Edina Edina Point Buchanan Grand Bassa Point Tobokani Point Tradetown Timbo River Cess Cestos Point Rock Cess Point Kuzu Point Bafu Point Batu Tasu Point Grand Butu Point Greenville South Point Nuoh Point King William Town King Williams Point Não Kata Point Sasstown Katu Point Subbuko Point Chankali Cess Point Grancess Garawe Garawe Point Fish Town Point Rock Town Point Harper Cavalla Point Pleebo Cavalla Pointe Subra M.no Soublake Cavally Mani Cess Sangwin Pahneh Creek

LIBERIA

### TYPOLOGY OF SEA FRONTS

1 - MUD OR SANDY COAST REGULARLY COVERED BY THE TIDE

- 1A- Apparent coastline of mangroves materialised by continuous barrier of trees
- 1B- Apparent coastline with discontinuous border o f mangroves and/or coastal mudflats
- 1C- Apparent coastline typified by thin fringe of mangroves adjacent to locally rocky and/or solid hill topography

2 - SANDY OR SILT COAST LOCATED IN NATURALLY HIGHLY UNSTABLE SITES

- 2A- Sandy or silt coast associated with mangroves and not covered by the tide
- 2B- Coastline of islets, sandbanks and insular splits
- 2C- Estuary and coastal river littoral zones

3 - SANDY COAST WITH STRAIGHT LONGITUDINAL PROFILE

- 3A- Sandy coast with straight longitudinal profile, absence of back-lagoons, depressions or channels parallel to the shore less than 2km from the shoreline
- 3B- Sandy coast with straight longitudinal profile, presence of back-lagoons, depressions or channels parallel to the shore (500m to 2km from the shoreline)
- 3C- Sandy coast with straight longitudinal profile, presence of back-lagoons, depressions or channels parallel to the shore (less than 500m from the shoreline)

4 - SANDY AND ROCKY COAST IN STEPS (Headlands and coves)

- 4A- Wide coves with a low radius of curvature
- 4B- Frequent rocky headlands

5 - ROCKY COAST

### ORIENTATION OF SEDIMENTARY DEPOSITS

- Coastal drift
- River mouths
- Tidal flows

### INDICATIVE BATHYMETRY

- 0 to 5 meters
- 5 to 10 meters
- 10 to 20 meters
- Shoals Sand-mud banks
- Reefs -shoals

Isolated shoals of under 20m situated seaward of the main 20m isobath are not schown.

- Country borders

### ROAD NETWORK

- Major road
- Minor road
- Tertiary road
- Dykes
- Railway

### URBAN AREAS

- Dense urban fabric
- Loose urban fabric
- Very loose urban fabric
- Open space
- Non discriminated urban areas
- Hub intersection

### HYDROGRAPHY

- Graduated water system
- Water body lagoon
- Dam reservoir

### WETLANDS AND MARSHES

- Alluvial plains
- Hydromorphic alluvial plains
- Undifferentiated wetlands
- Salt marshes (sebkhras)
- Margins of salt marshes (sebkhras)
- Mangroves

### SEDIMENTOLOGY - LITHOLOGY

SANDY FORMATIONS

- S- Dune rims and recent terraces
- Sd - Smoothed dune formations (North of Dakar)
- Sct - Ancieint sandy terraces (South of Dakar)
- Sh -Hydromorphic terraces
- Sc -"Dior" type sands

INTRUSIVE, METAMORPHIC ROCKS

- P - Weathered granirte and metamorphic rock, with seams of harder rock in places
- Pr - Solid rocks : quartzite, gabbro,basalt.

WEATHERED SEDIMENT FORMATIONS WITH INCLUSIONS OF HARDPAN AND RESISTANT ROCK

- K - Clay, sandy, pebbly materials from lipmestone and marno-limestone to ferruginous cuirasses
- Tb -Sans to clay materials from the "terre de barres" formation
- Gr - Sandy materials from more or lesweathered sandstone
- Ct - Loose or partially consolidated pre-quaternary sediment formations

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