

18° W

17° W

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



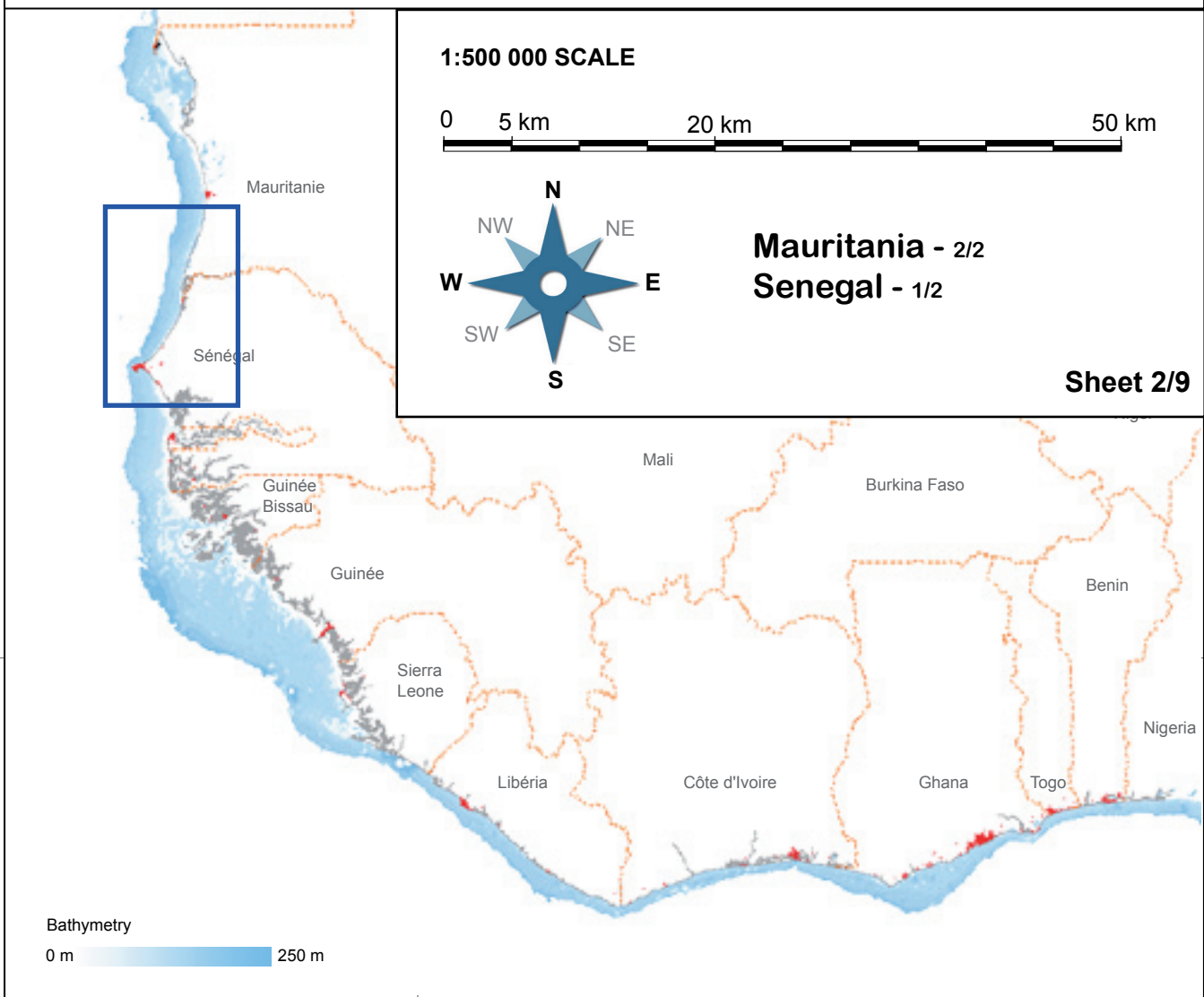
West African
Economic and Monetary Union

International Union for
Conservation of Nature



CARTOGRAPHY OF GEODYNAMIC ANALYSIS

CONTINENTAL SHELF AND LOCATION OF MAP



SEDIMENTOLOGY - LITHOLOGY

SANDY FORMATIONS

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

INTRUSIVE, METAMORPHIC ROCKS

- P - Weathered granites 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 lignite and marl, limestone to ferruginous cuestas
- Tb - Sands to clay materials from the "terre de barres" formation
- Gr - Sandy materials from more or less weathered sandstone
- Ct - Loose or partially consolidated pre-quaternary sediment formations

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

TYPOLGY 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 of 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

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 (sebkhas)
- Margins of salt marshes (sebkhas)
- Mangroves

