

NEVELI LIGNITE FIELD

LITHO LOG

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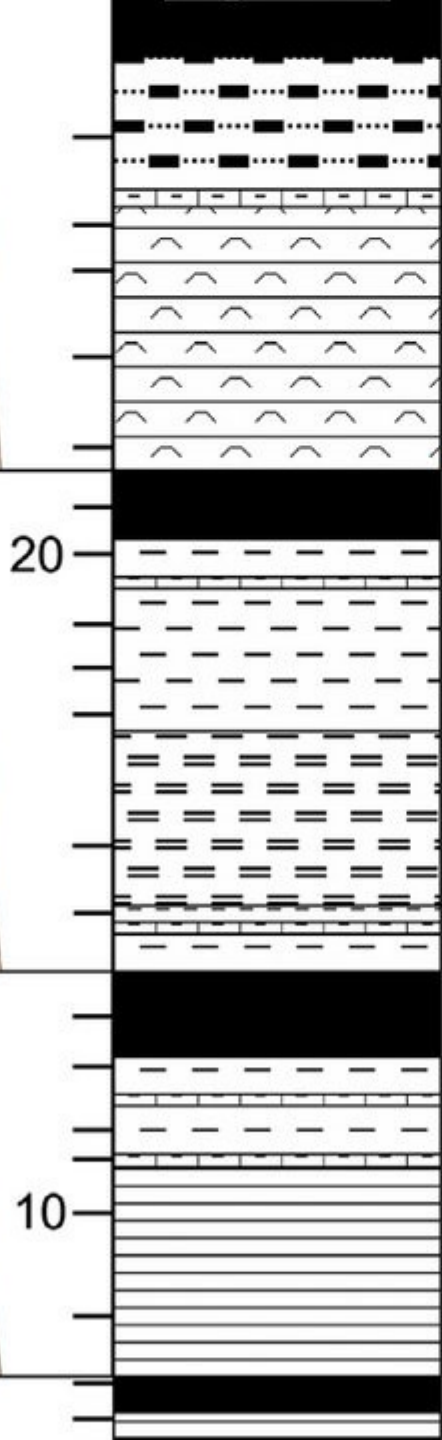
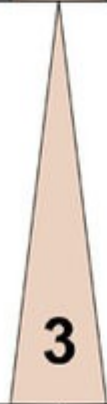
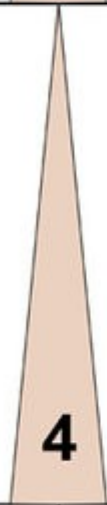
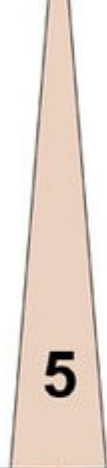
B A Y F O R M A

**Intertidal
Supratidal**

Subtidal

Intertidal

Marine








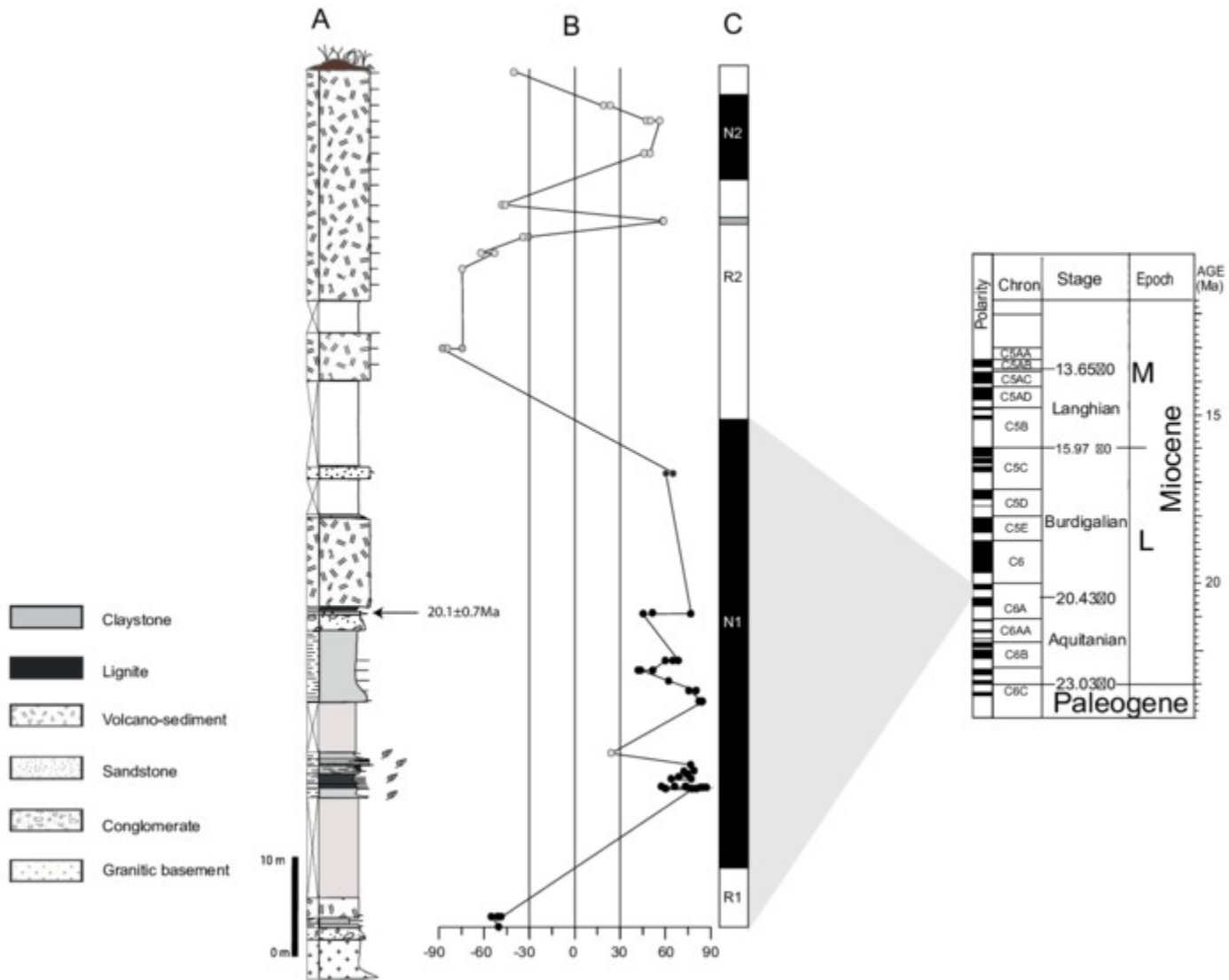
In situ rooting structures indicating mangrove-palm ecosystem

Molluscan shell layers

Nummulites burdigalensis burdigalensis level (SBZ10)

Foraminifera-dominant interval, mostly with tiny benthic species

-  Bioturbated ferruginous sandstone
-  **Dinoflagellate cysts**
-  Pyritized plant debris
-  Marine fish layers
-  Cyclothem



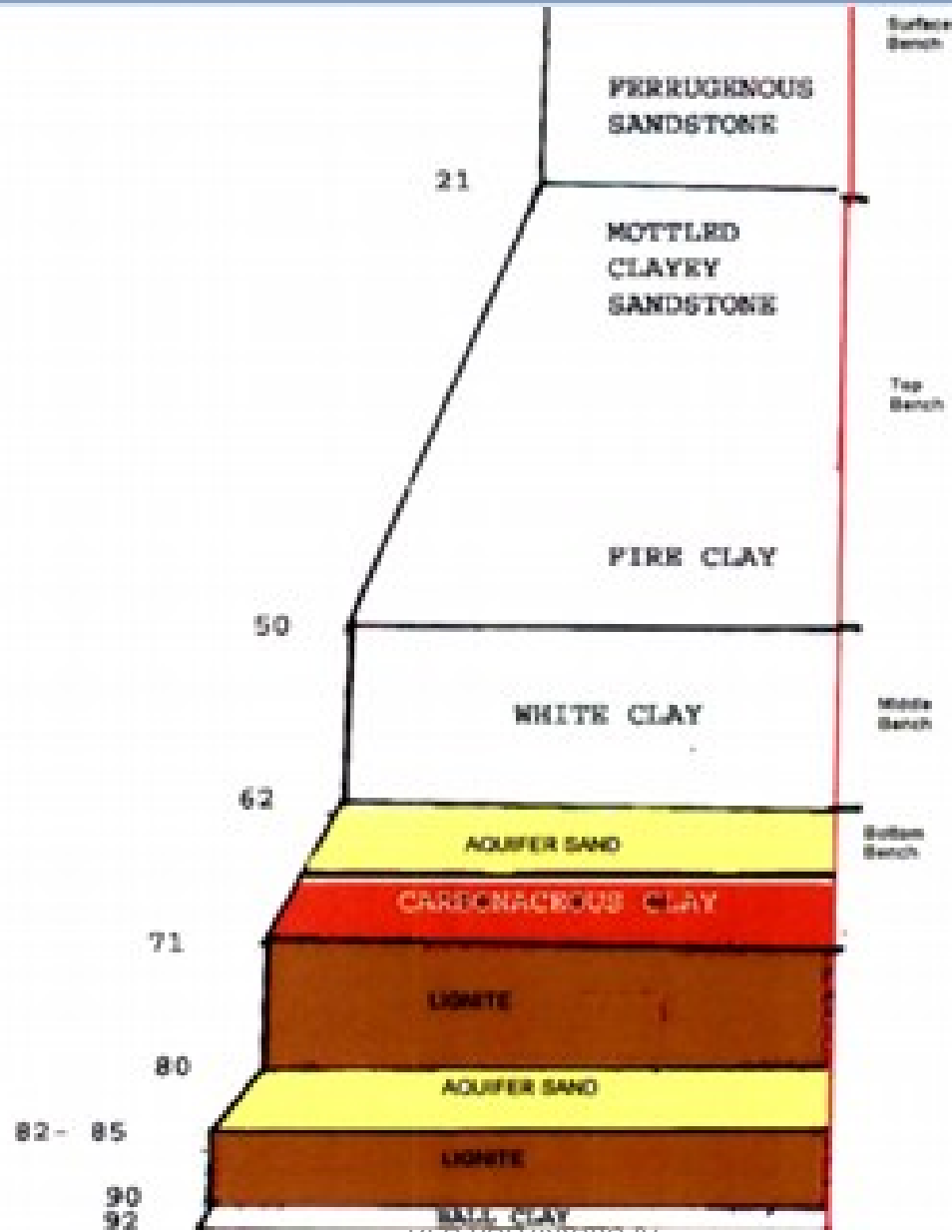
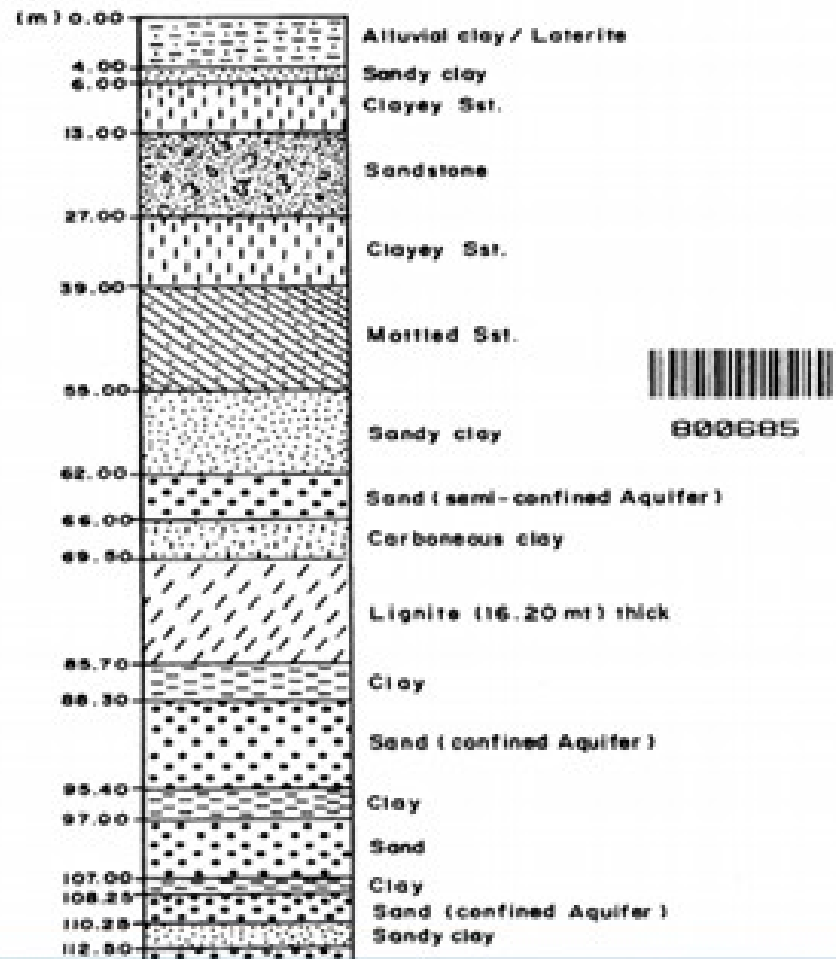
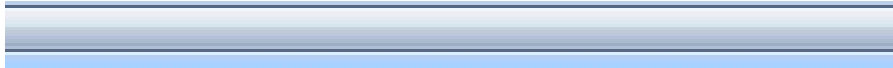
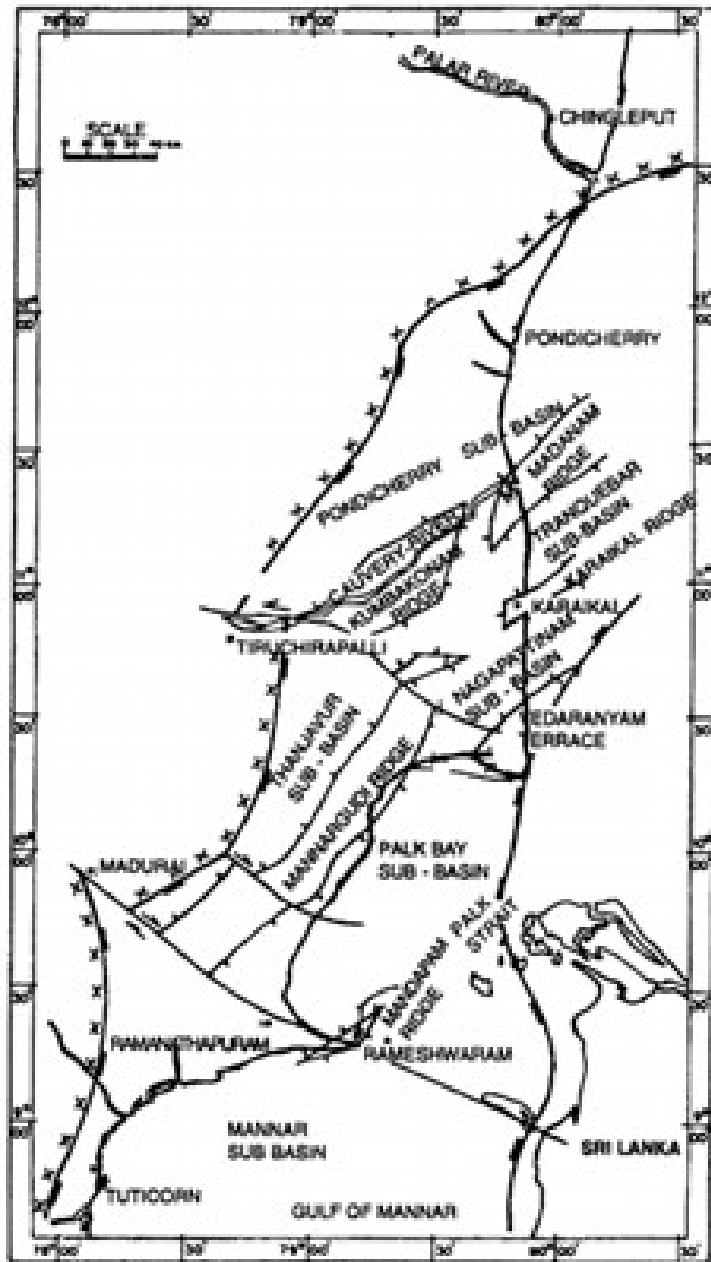


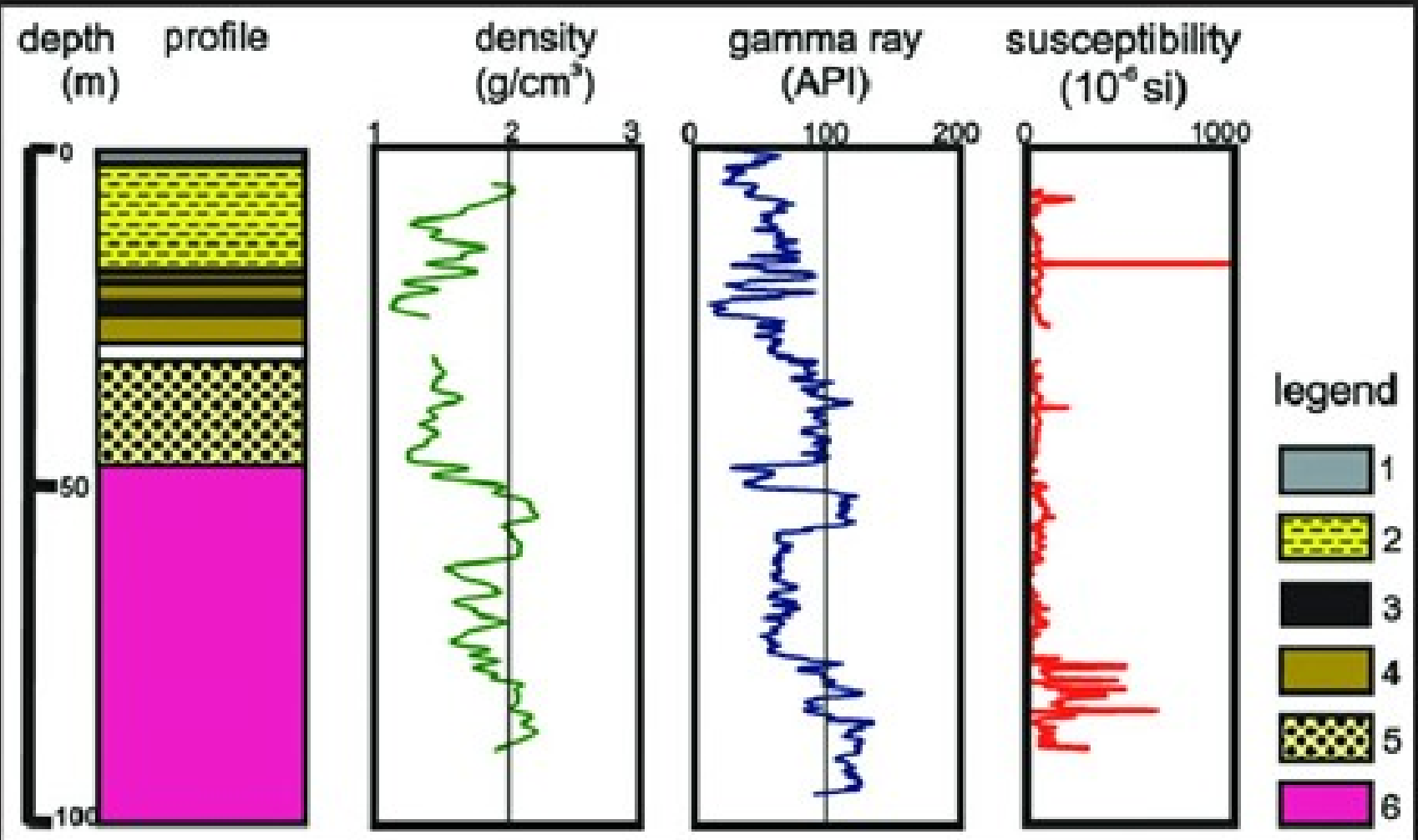
Table 3.1 Stratigraphical succession of the Tertiary sediments of Tamil Nadu

Recent		Soils, alluvium, blown sands laterite and kankar
Tertiary	Upper Miocene (Cuddalore)	Argillaceous sandstones, pebble-bearing sandstones, grits, sands, clays, pebble bed.
	Probable Unconformity	
	Eocene	Black clays or shales, grey coloured sandstones, calcareous sandstones and shales, and siliceous limestones with fossils.
Unconformity		
Mesozoic	Cretaceous (Ariyalurs)	Shell limestones, siliceous limestones, marls, etc.,
Unconformity		
Archaean	Intrusive rocks	Dolerite, Pegmatites and Quartz veins, Granitoid gneisses.

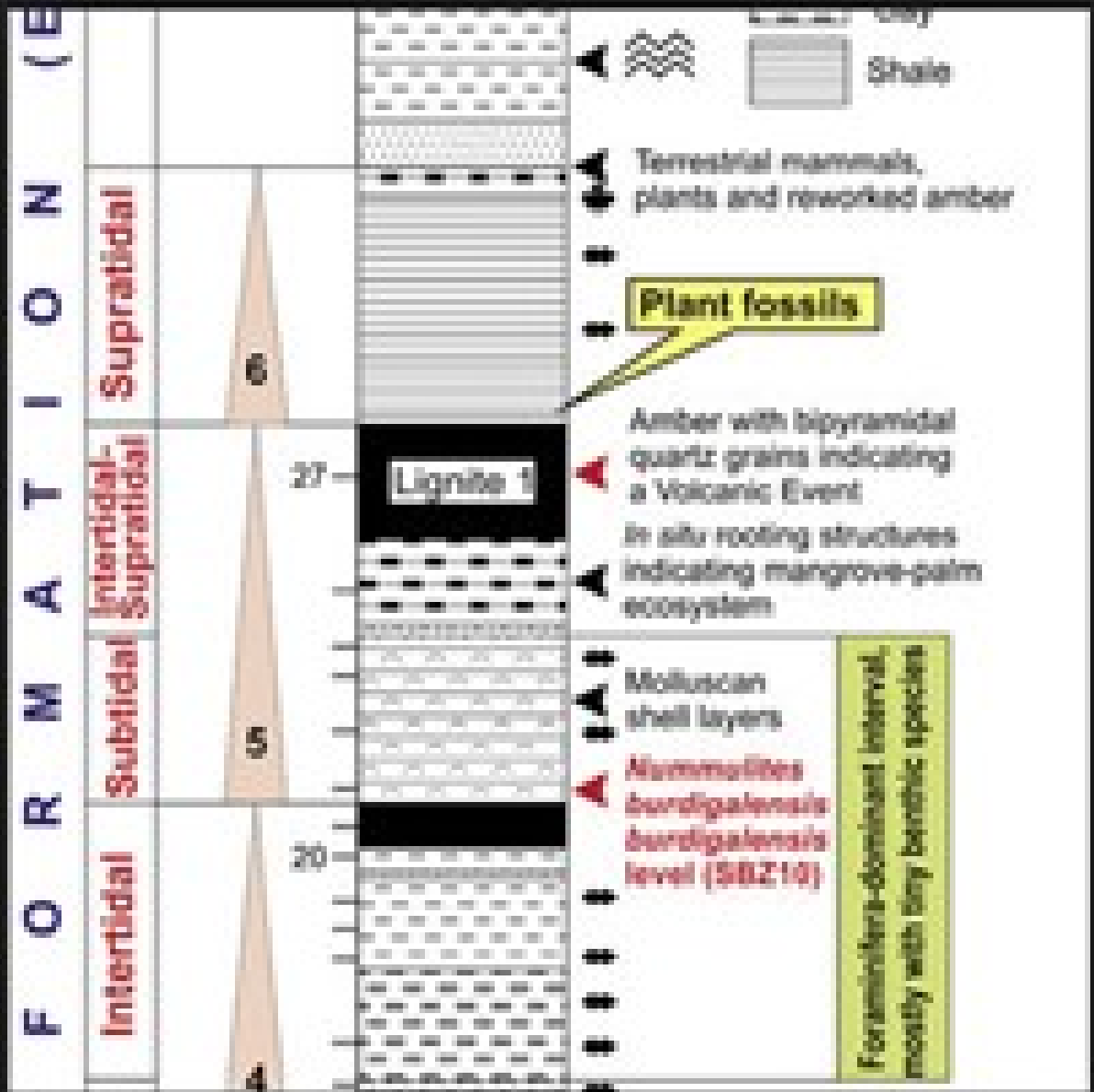
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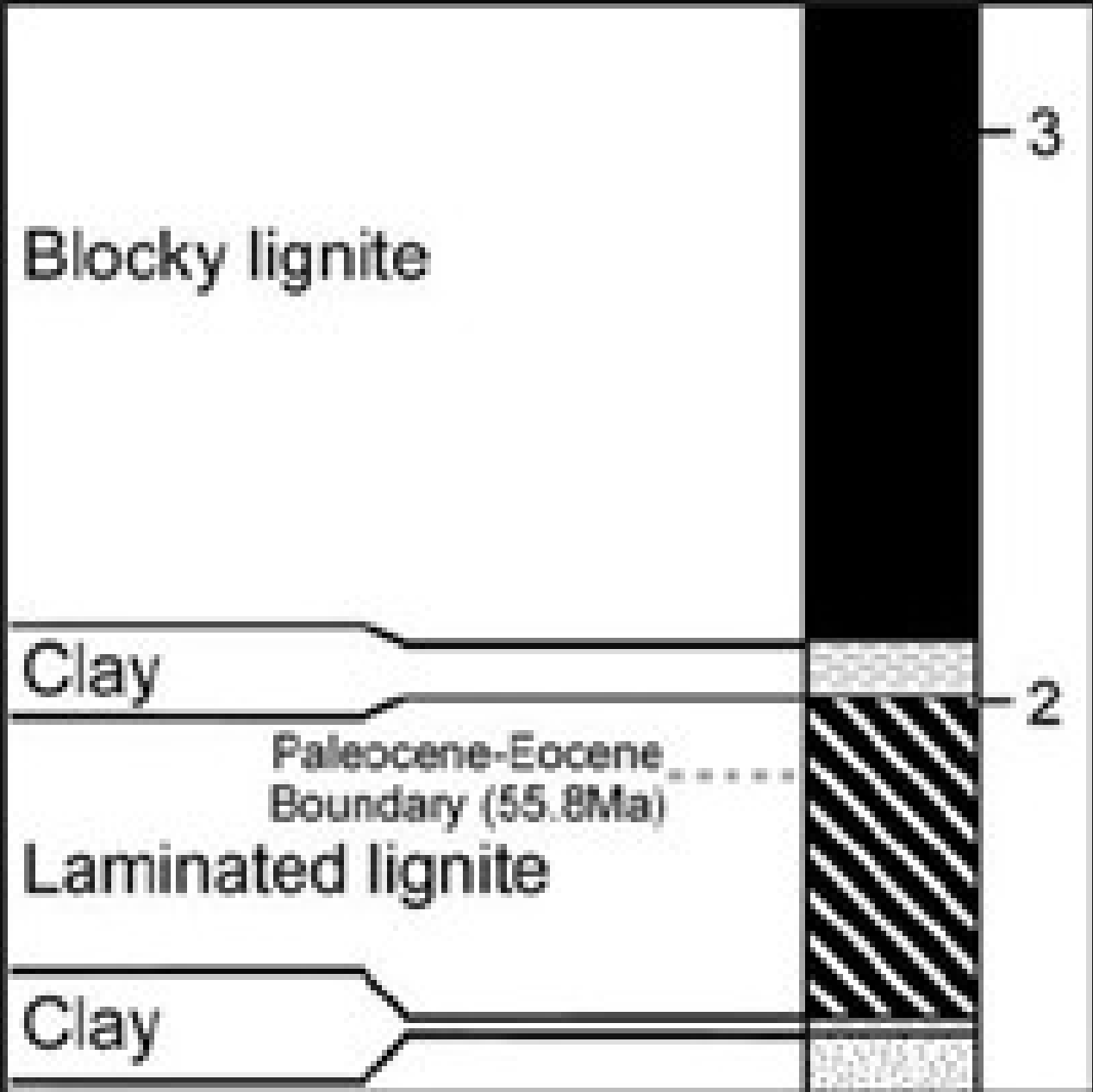


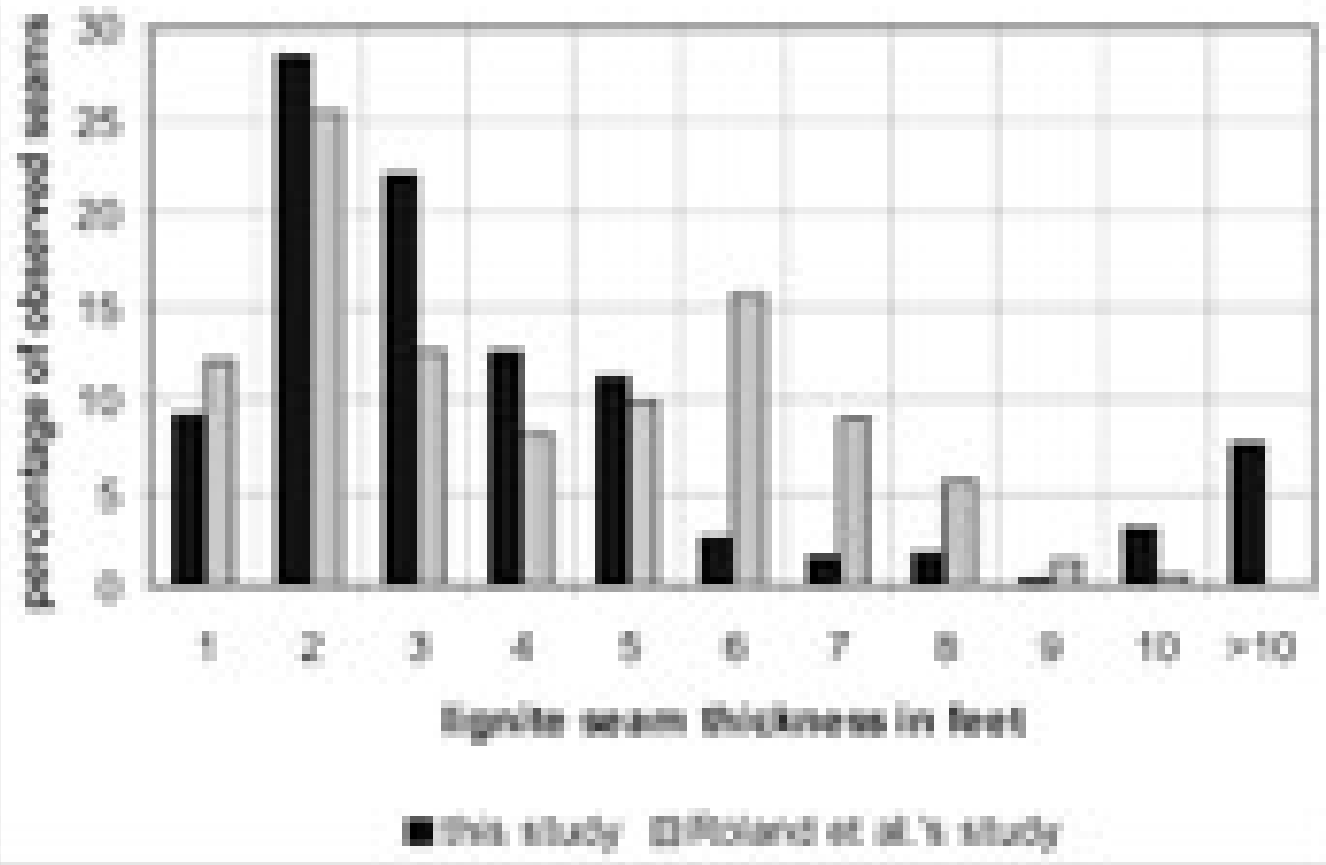




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ARIAL VIEW OF MINE - I

The Cauvery Basin extending along the East Coast of India, bounded by - 08° - 12° 5' North Latitude , 78° - 80° East Longitude has been under hydrocarbon exploration since late nineteen fifties. Application of CDP seismic in 1984 considerably increased the pace of exploration resulting in the discovery of several small oil and gas fields. The first deep well for exploration was drilled in 1964.



The Cauvery Basin covers an area of 1.5 lakh sq.km comprising onland (25,000 sq.km) and shallow offshore areas (30,000 sq km). In addition, there is about 95,000 sq km of deep-water offshore areas in the Cauvery Basin. Most of the offshore and onland basinal area is covered by gravity, magnetic and CDP Seismic surveys. Geological map for the outcrop terrain shows the exposed formations.

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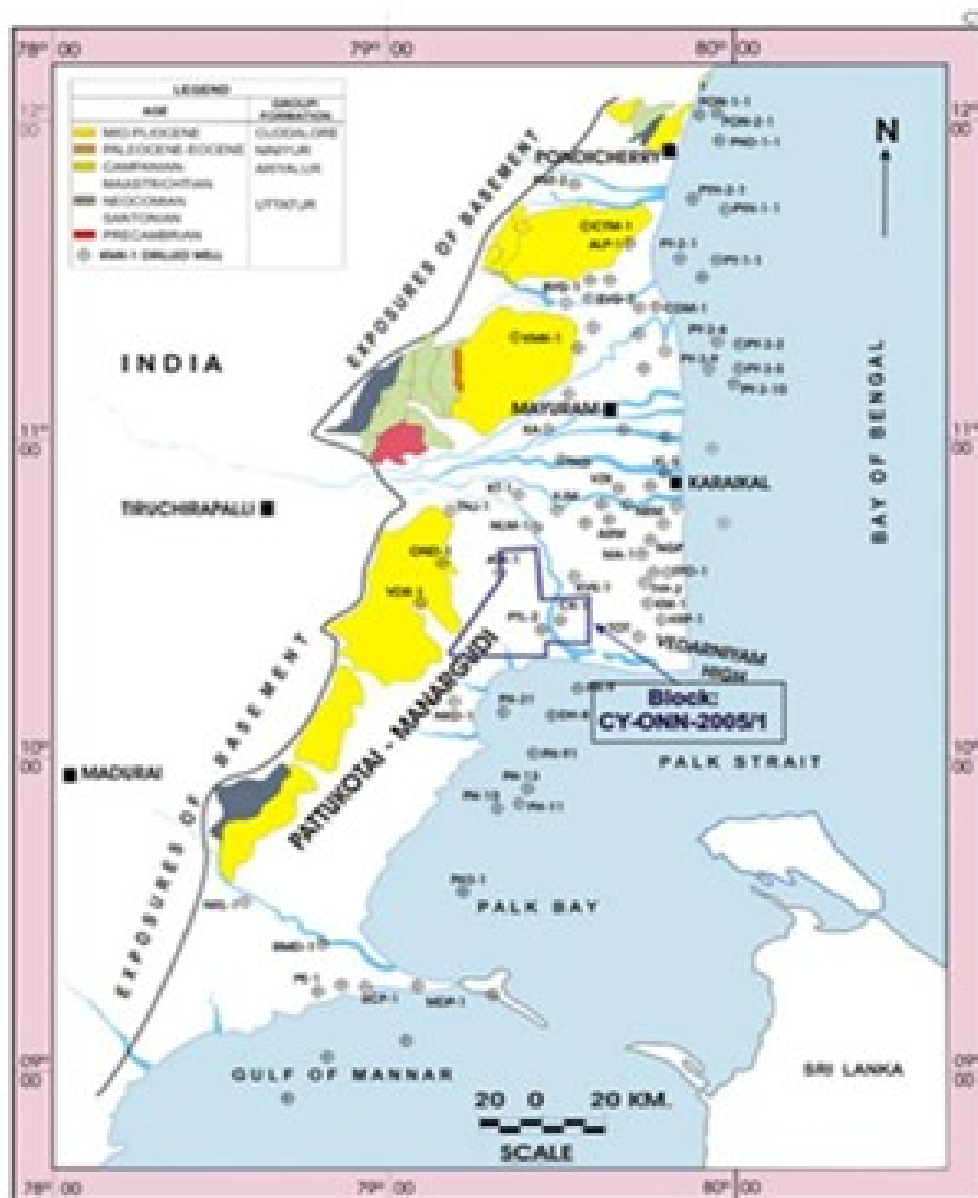
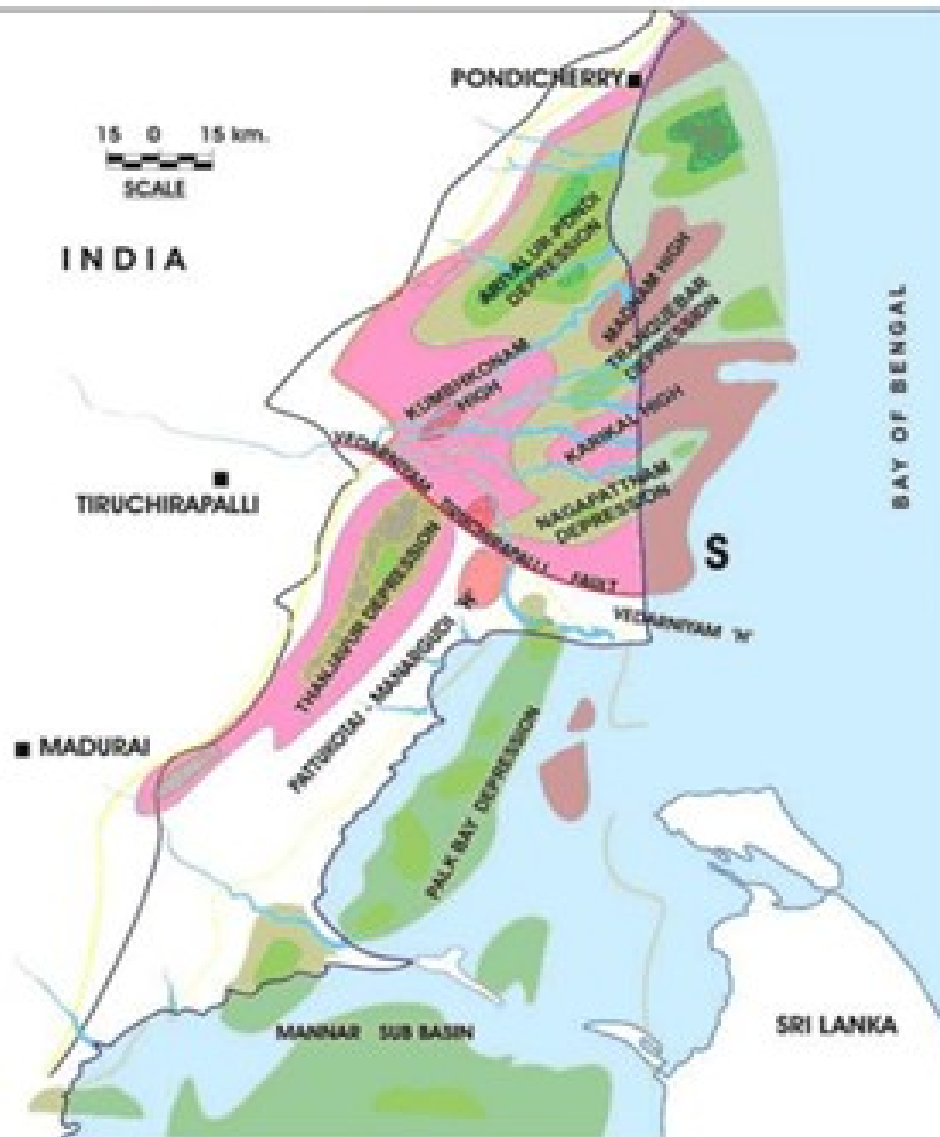


FIG. 2 GEOLOGICAL MAP OF CAUVERY BASIN

Dr.A.BALUKKARASU

- Mannar Depression
- Vedarniyam – Tiruchirapally Fault



Generalized Stratigraphy :

The stratigraphy is worked out from outcrop geology and sub-surface information gathered from seismic and drilling data.

