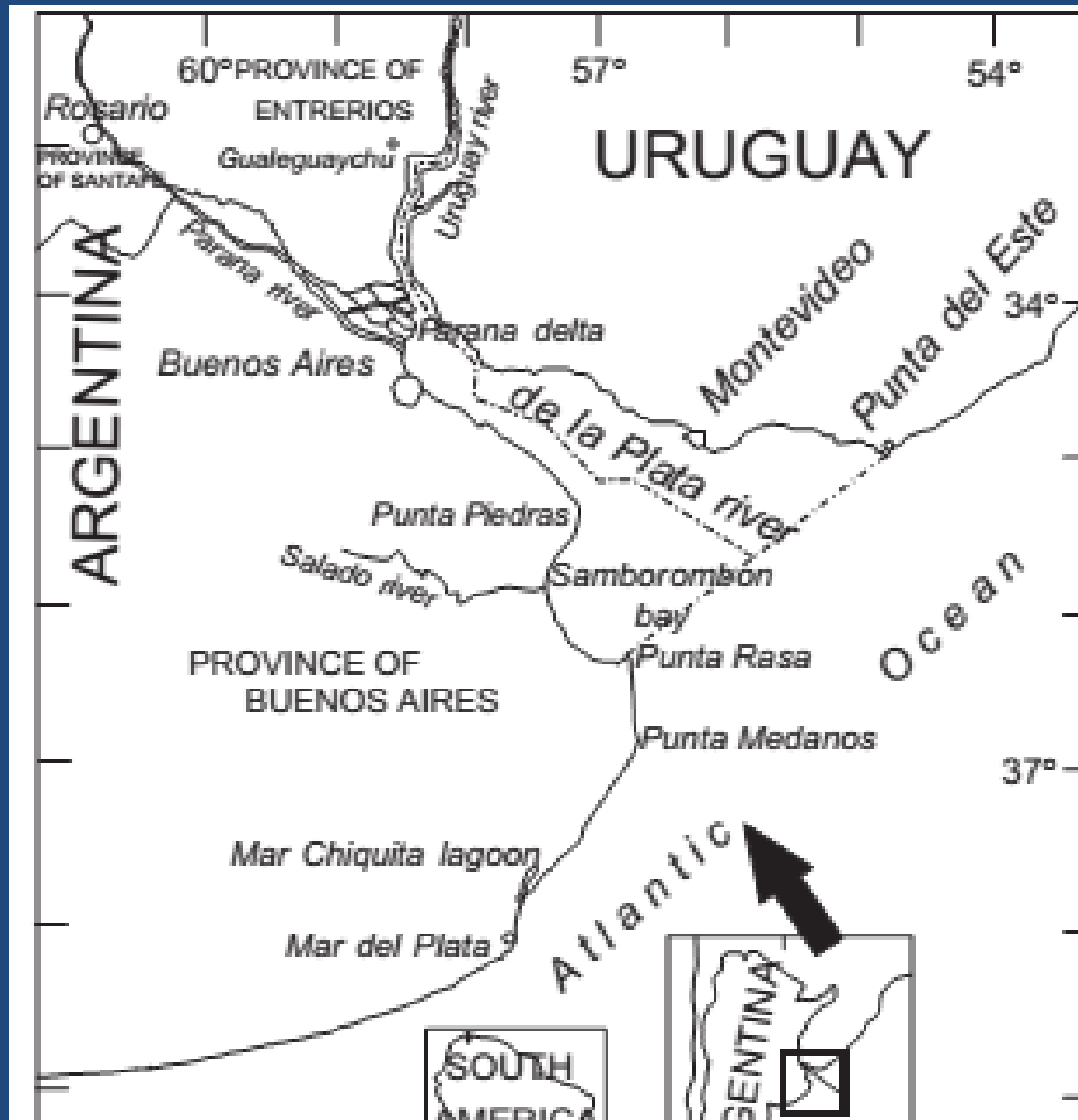


# Rio de la Plata

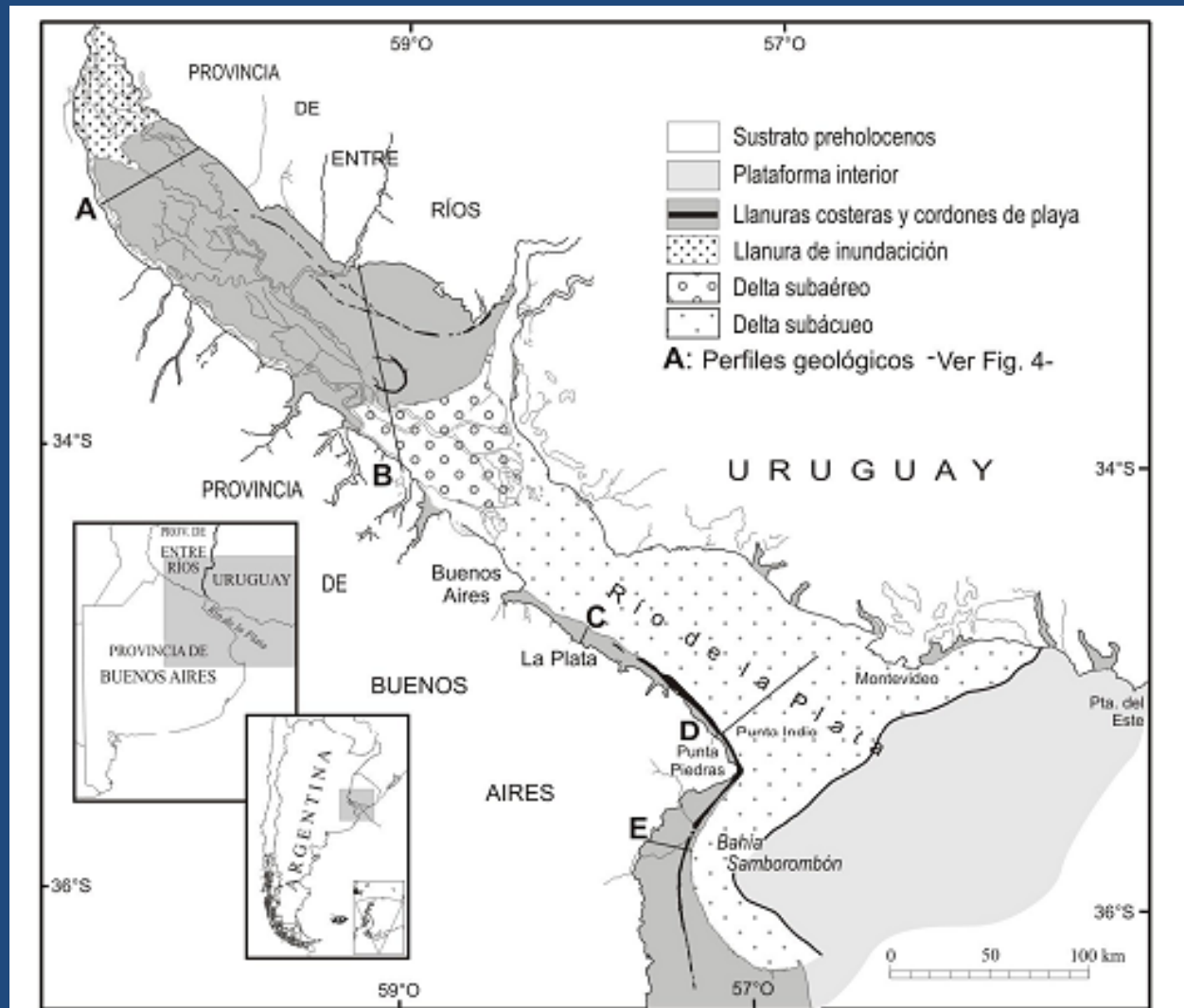
# Cuenca de drenaje



# Rio de la Plata: Punto de vista geológico



# Etapa evolutiva mas reciente



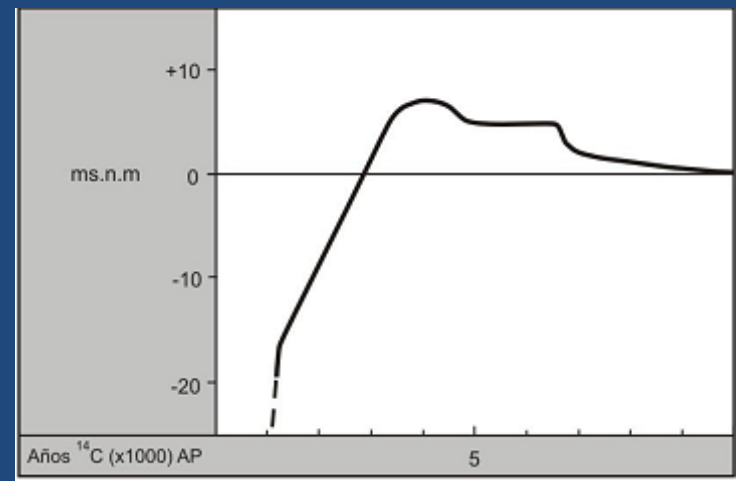
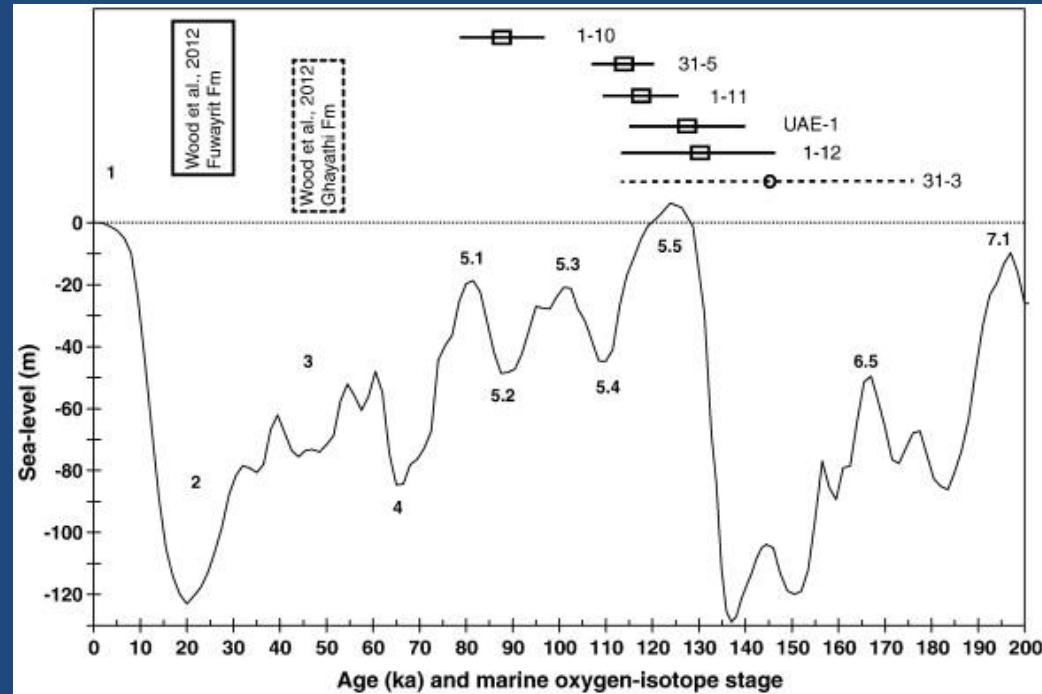
# Origen y evolución estructural

2.4 ma: Plioceno

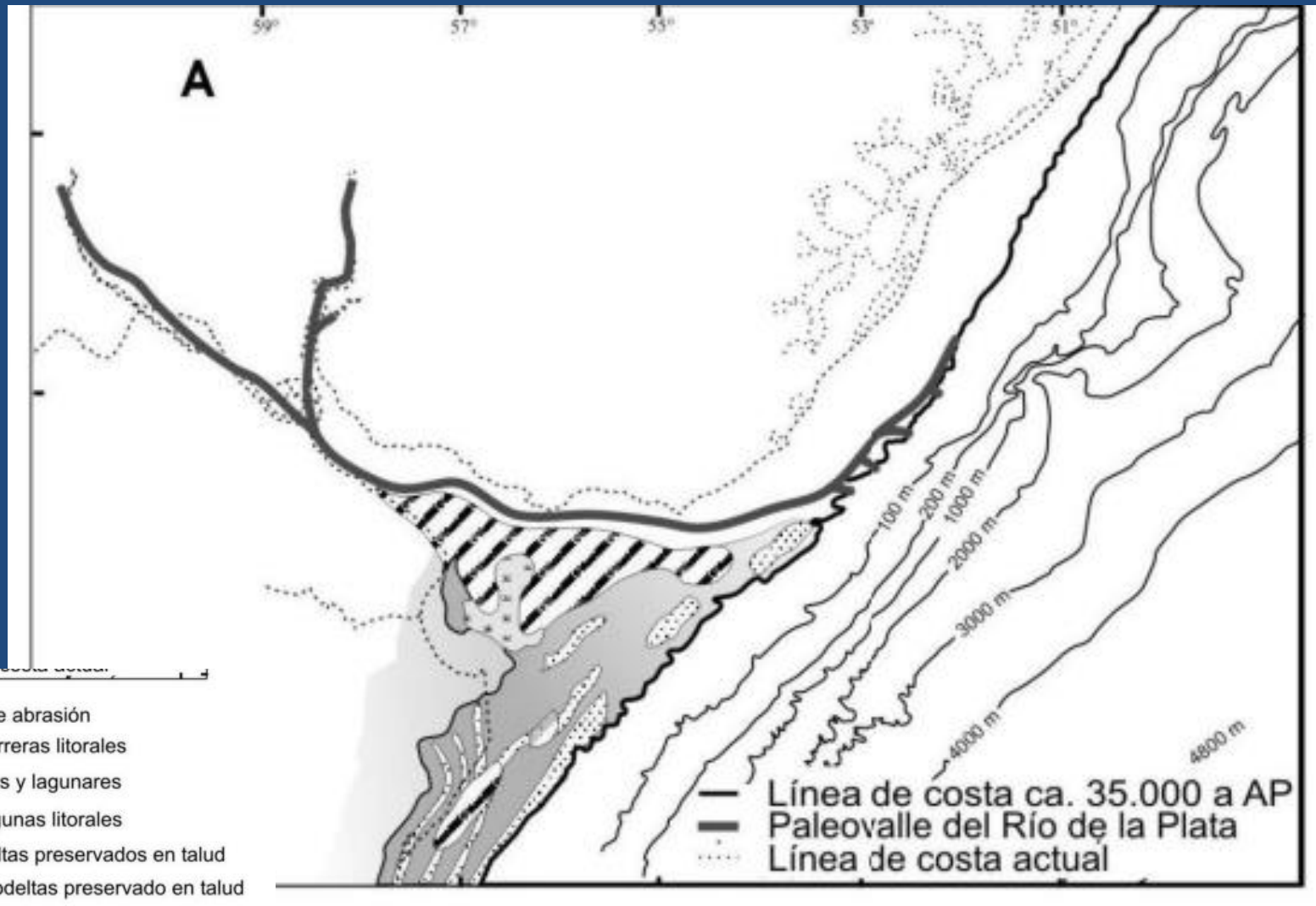


# Variaciones en el nivel del mar

Era <sup>1</sup>	Periodo	Época	Millones años
Cenozoico	Cuaternario	Holoceno	0,01 (~10.000 a.C)
		Pleistoceno	2,59
	Neógeno	Plioceno	5,33
		Mioceno	23,03
	Paleógeno	Oligoceno	33,9
		Eoceno	56,0
		Paleoceno	66,0

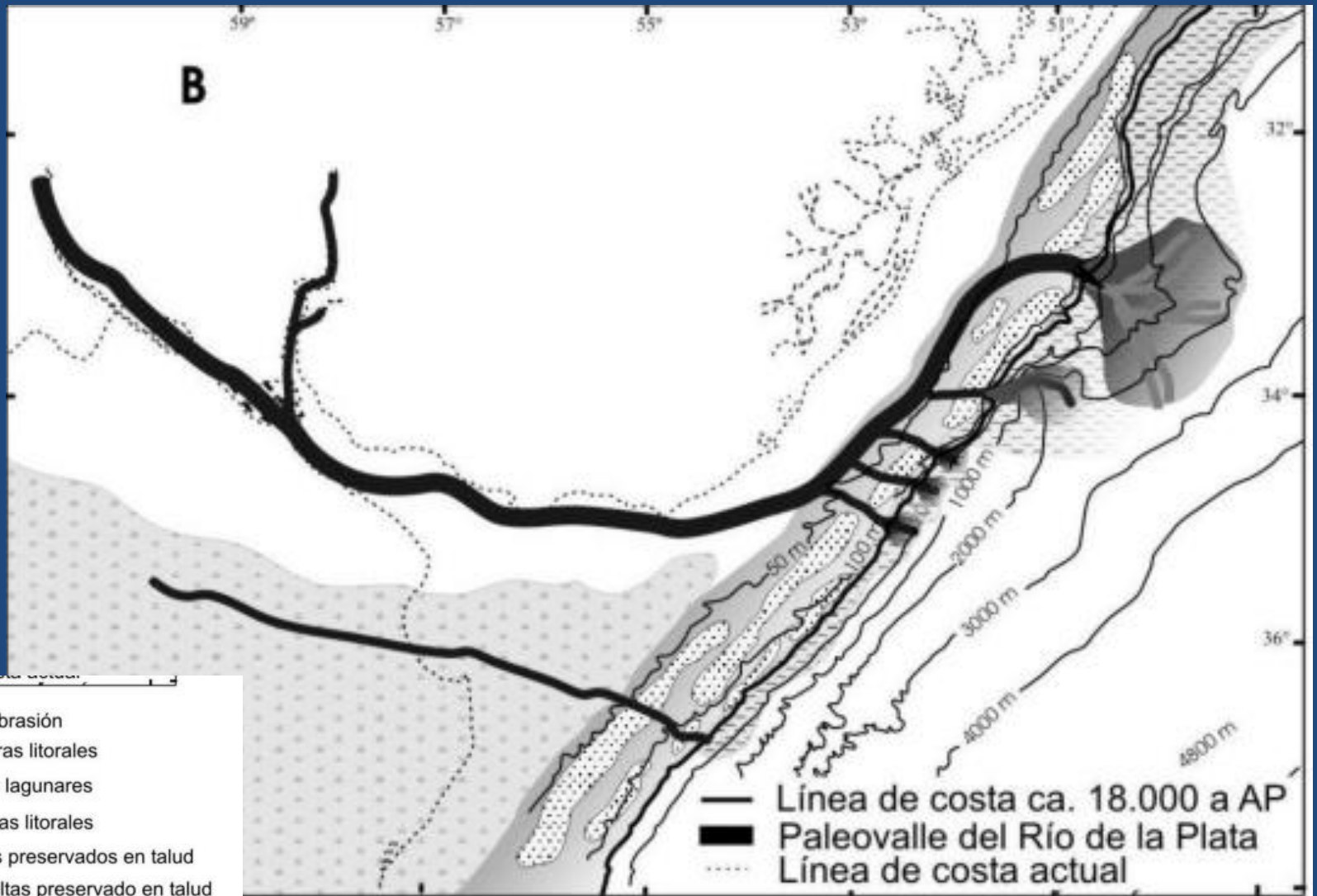


# Evolución sedimentológica: MIS3



-  Plataforma de abrasión
-  Facies de barreras litorales
-  Facies eólicas y lagunares
-  Facies de lagunas litorales
-  Facies de deltas preservados en talud
-  Facies de prodeltas preservado en talud
-  Terrenos bajos con marismas y lagunas
-  Facies de llanuras de mareas
-  Facies de lagunas costeras
-  Depósitos preholocenos

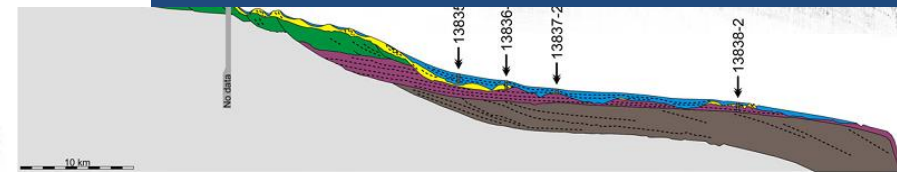
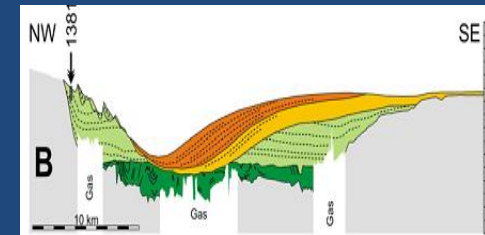
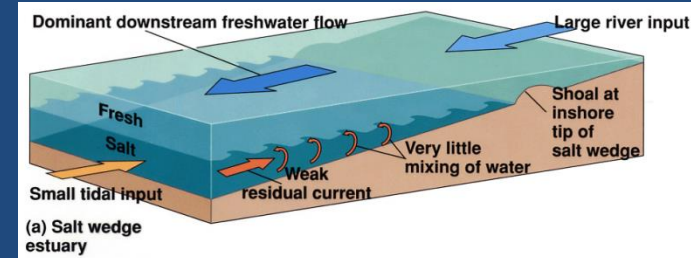
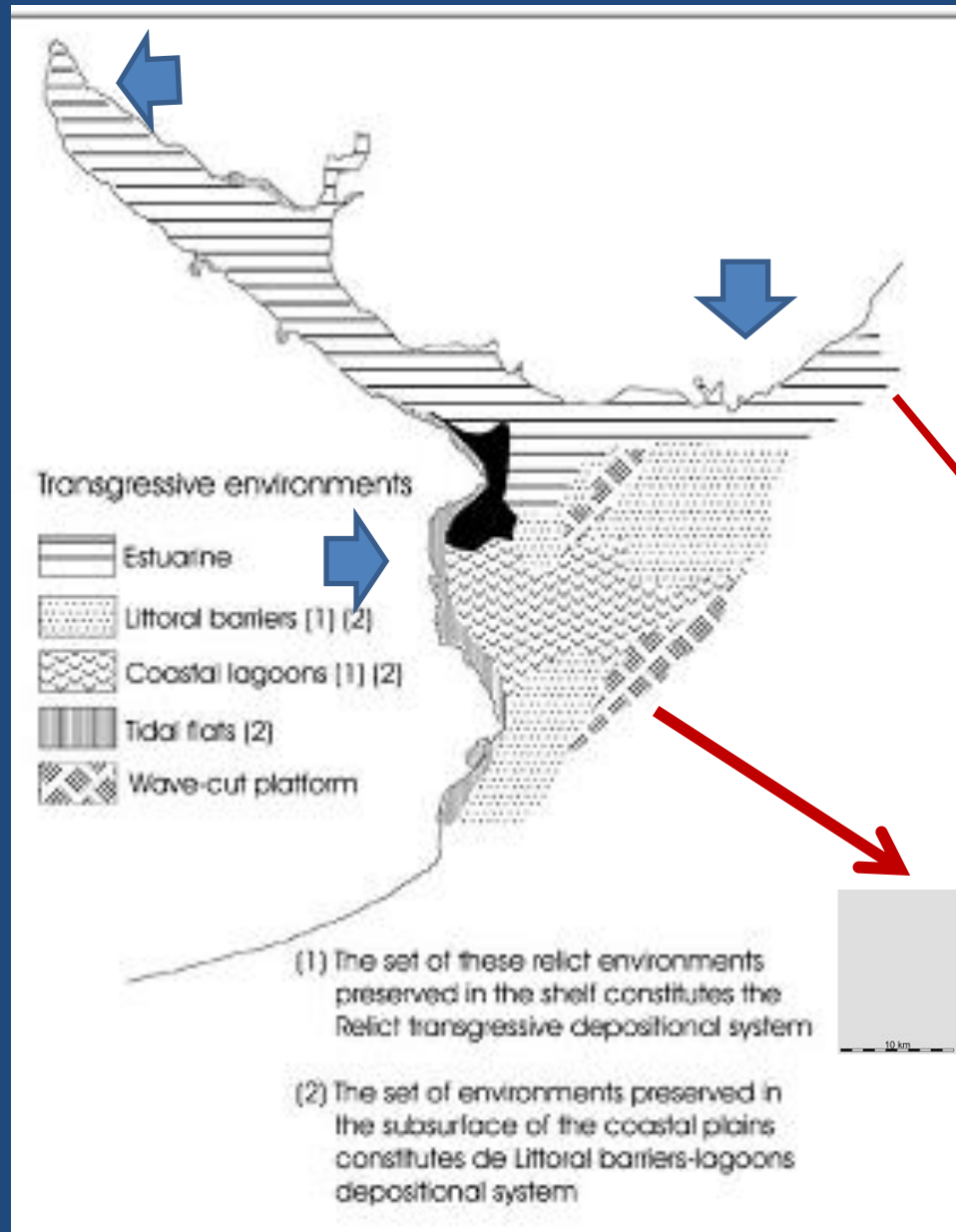
# Evolución sedimentológica: Ultimo máximo glacial



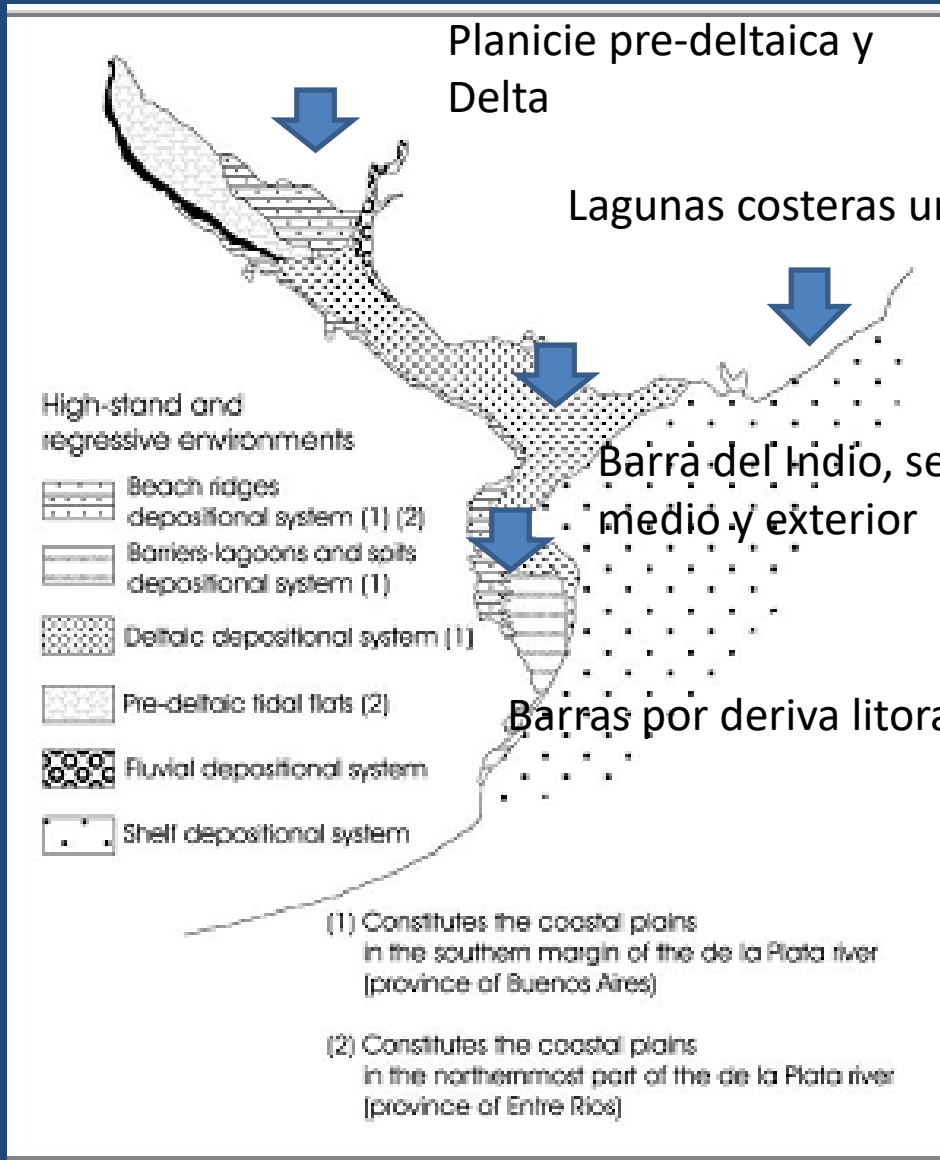
- Plataforma de abrasión
- Facies de barreras litorales
- Facies eólicas y lagunares
- Facies de lagunas litorales
- Facies de deltas preservados en talud
- Facies de prodeltas preservado en talud
- Terrenos bajos con marismas y lagunas
- Facies de llanuras de mareas
- Facies de lagunas costeras
- Depósitos preholocenos



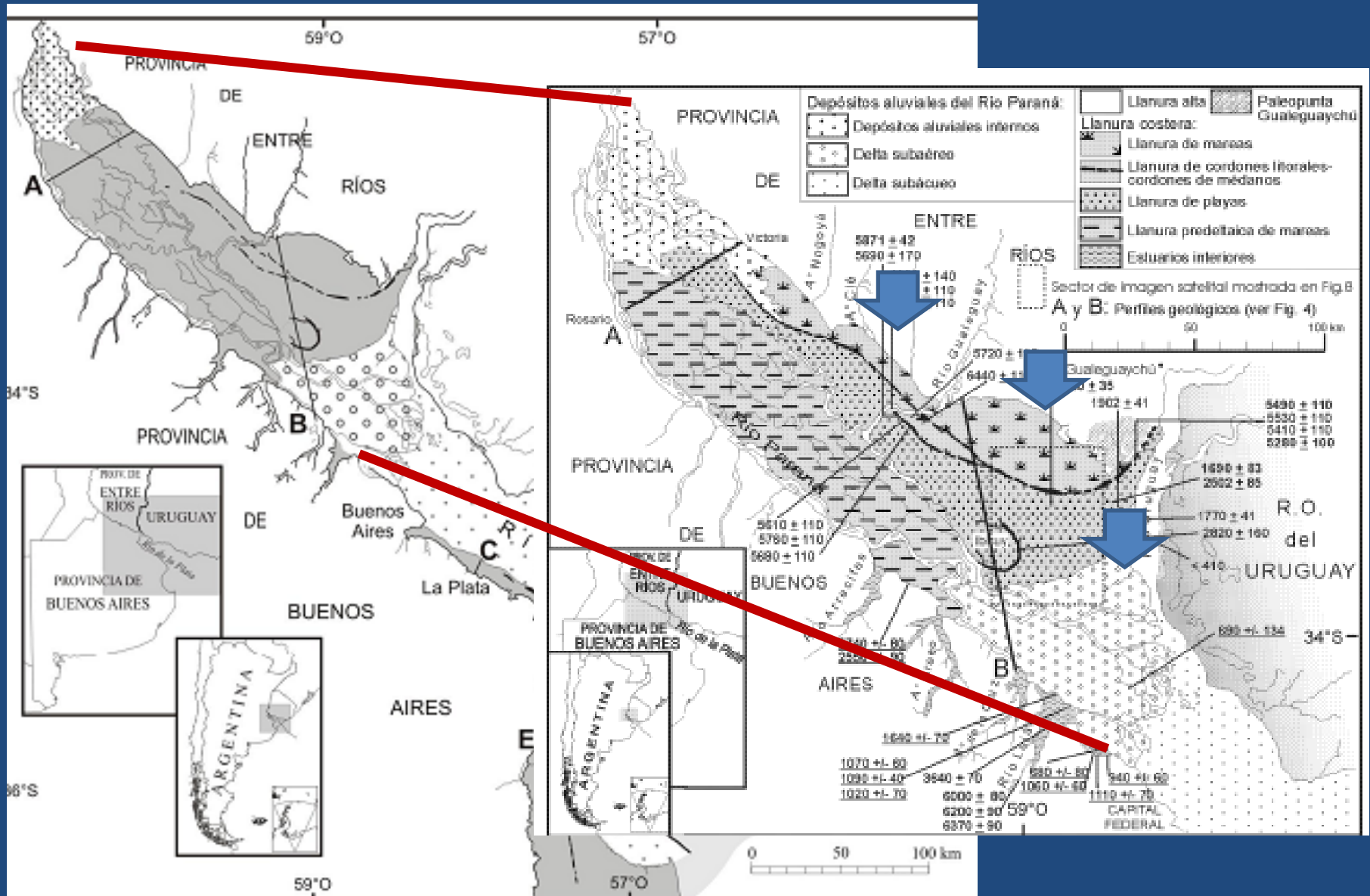
# Evolución sedimentológica: Transgresión Holocénica



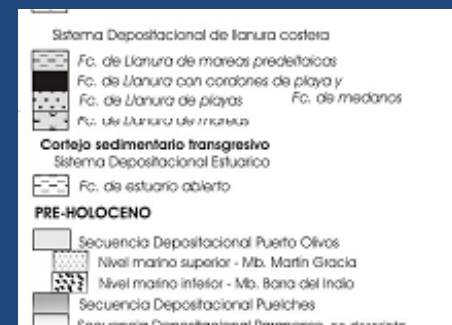
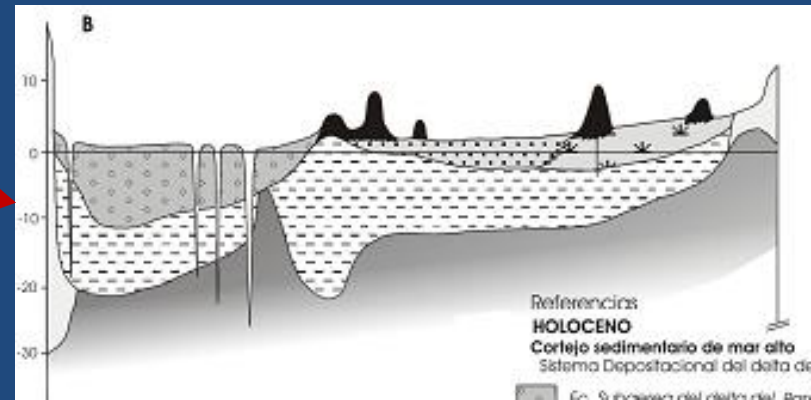
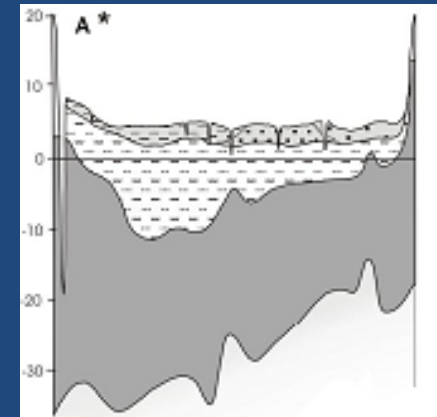
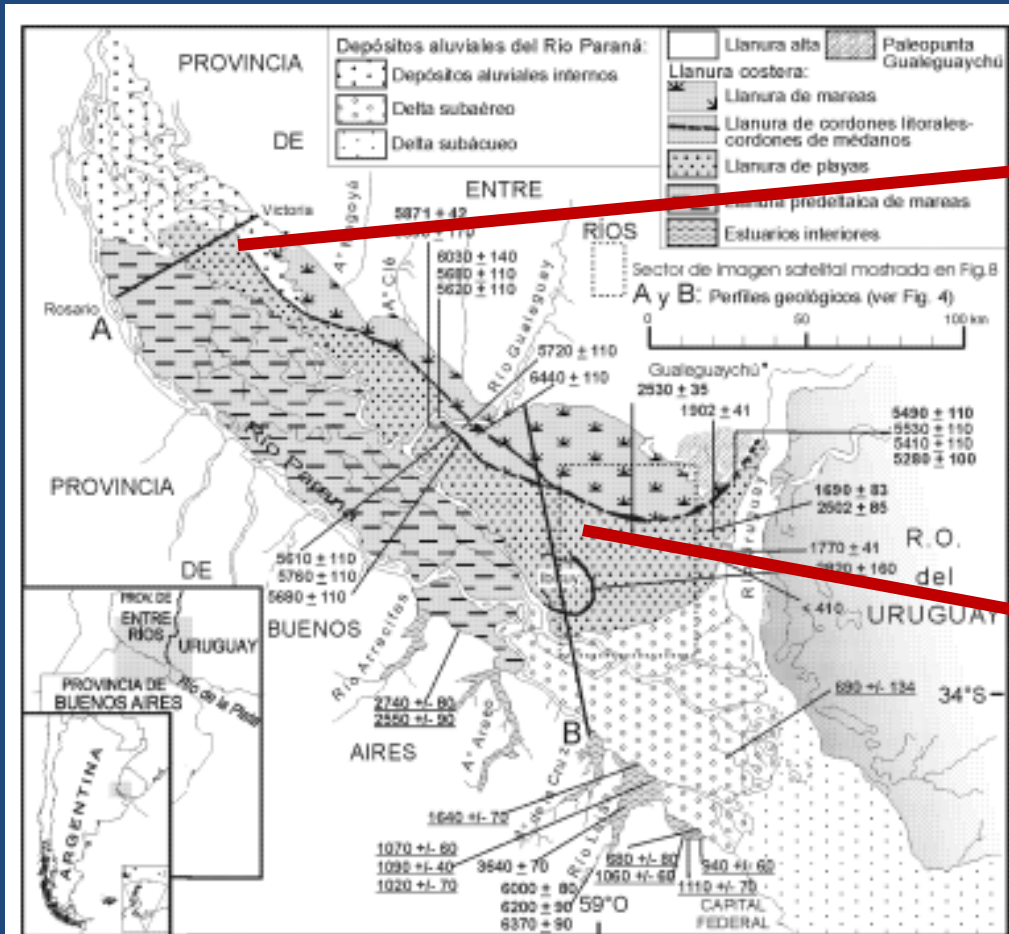
# Evolución sedimentológica: Regresión Holocénica



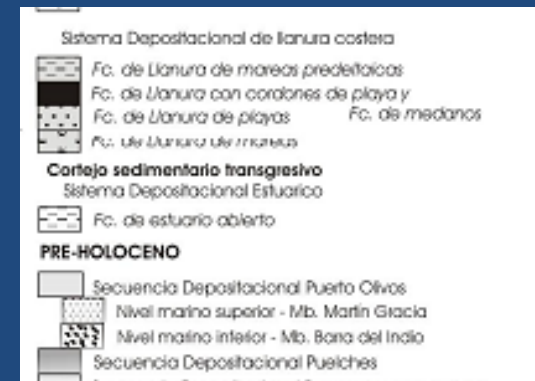
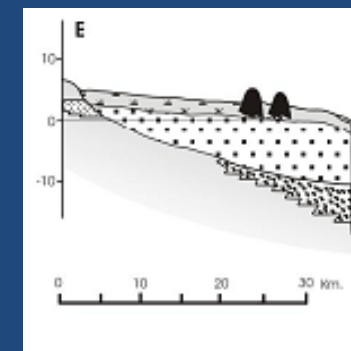
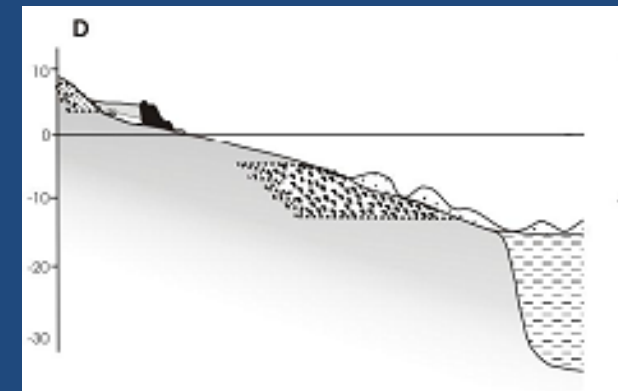
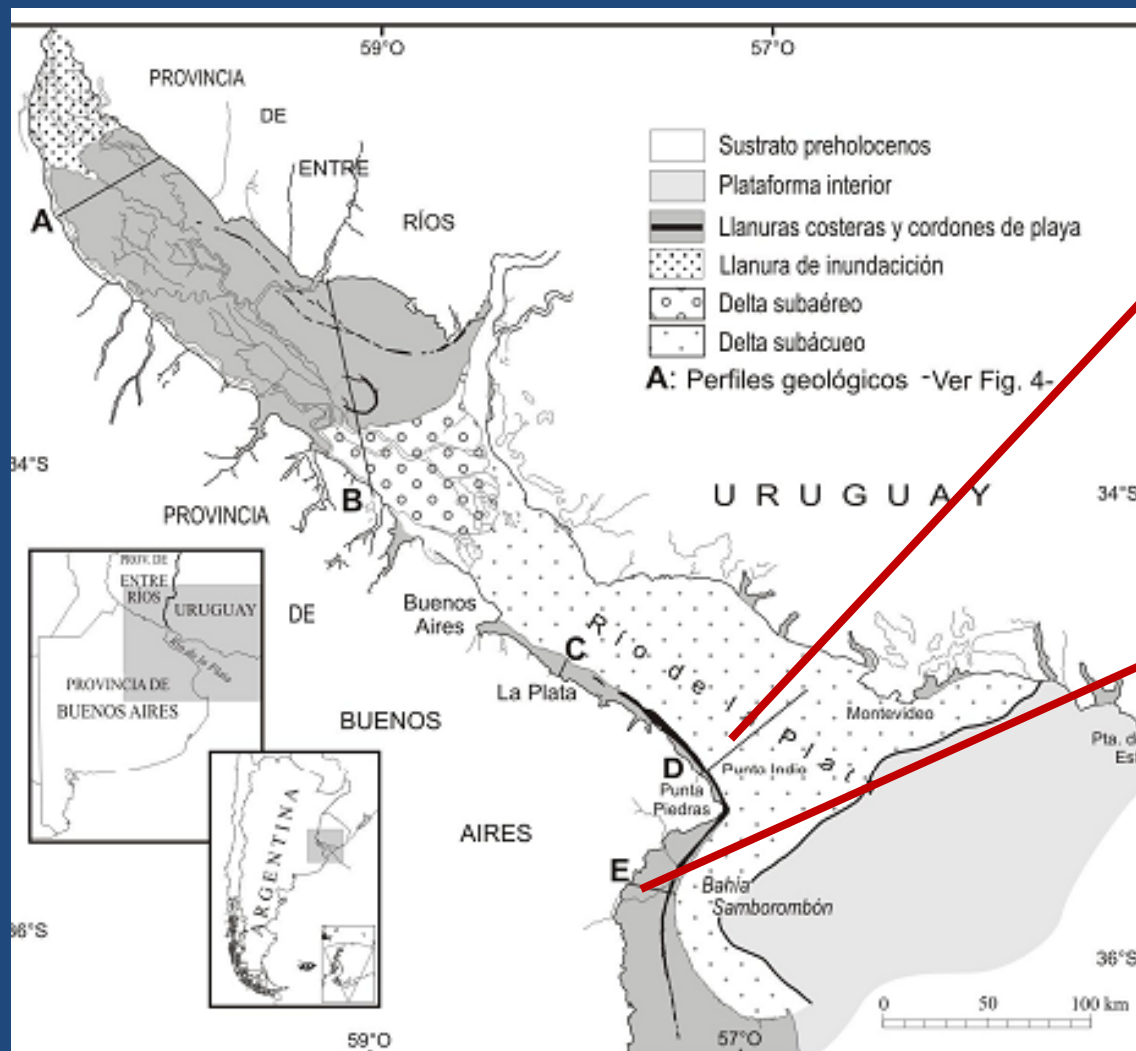
# Evolución sedimentológica: cabecera del río



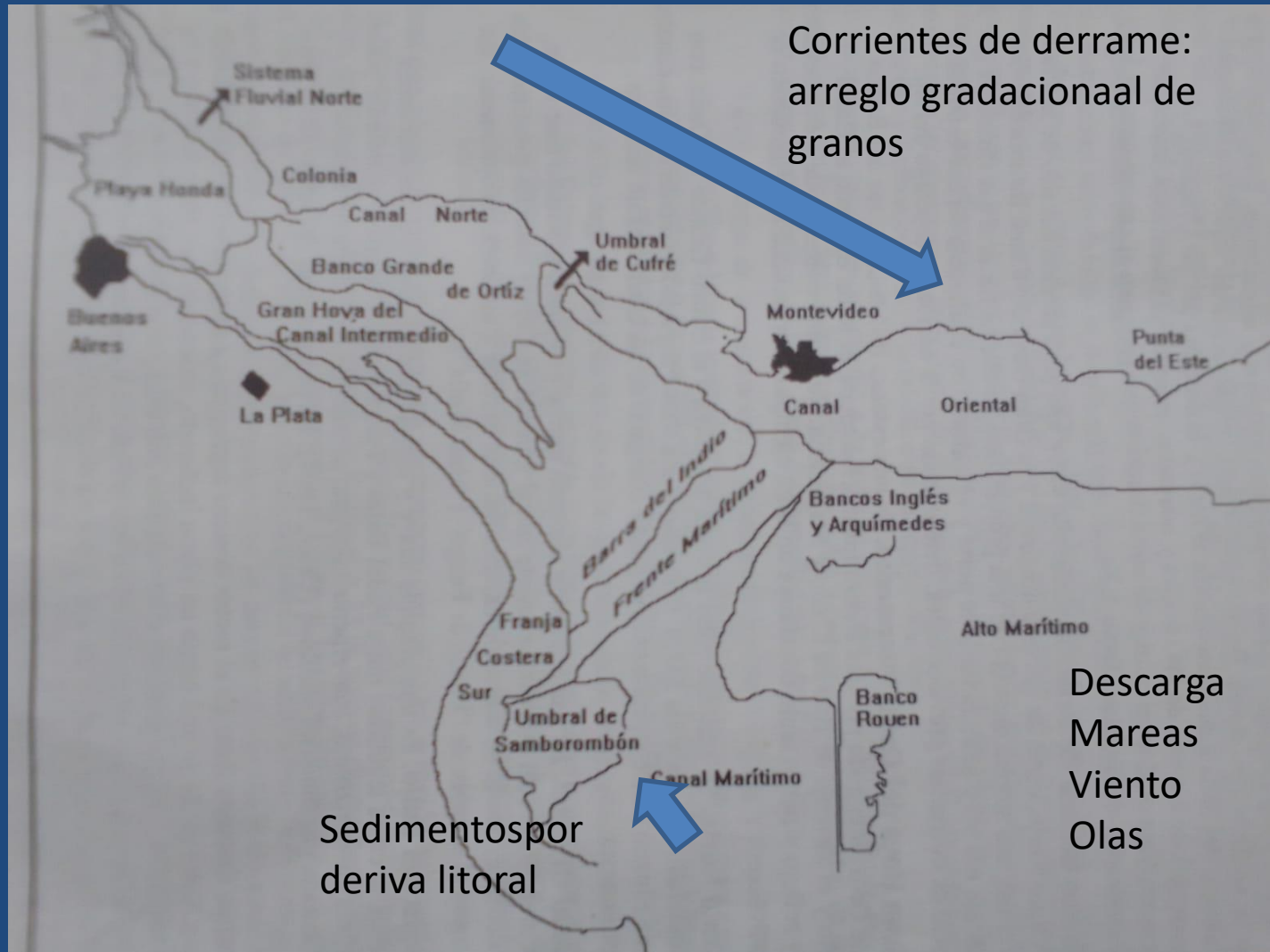
# Evolución sedimentológica: cabecera del rio



# Evolución sedimentológica: rio medio y exterior



# Evolución sedimentológica: Sedimentación actual y geoformas



# Evolución sedimentológica: Sedimentación actual y geoformas

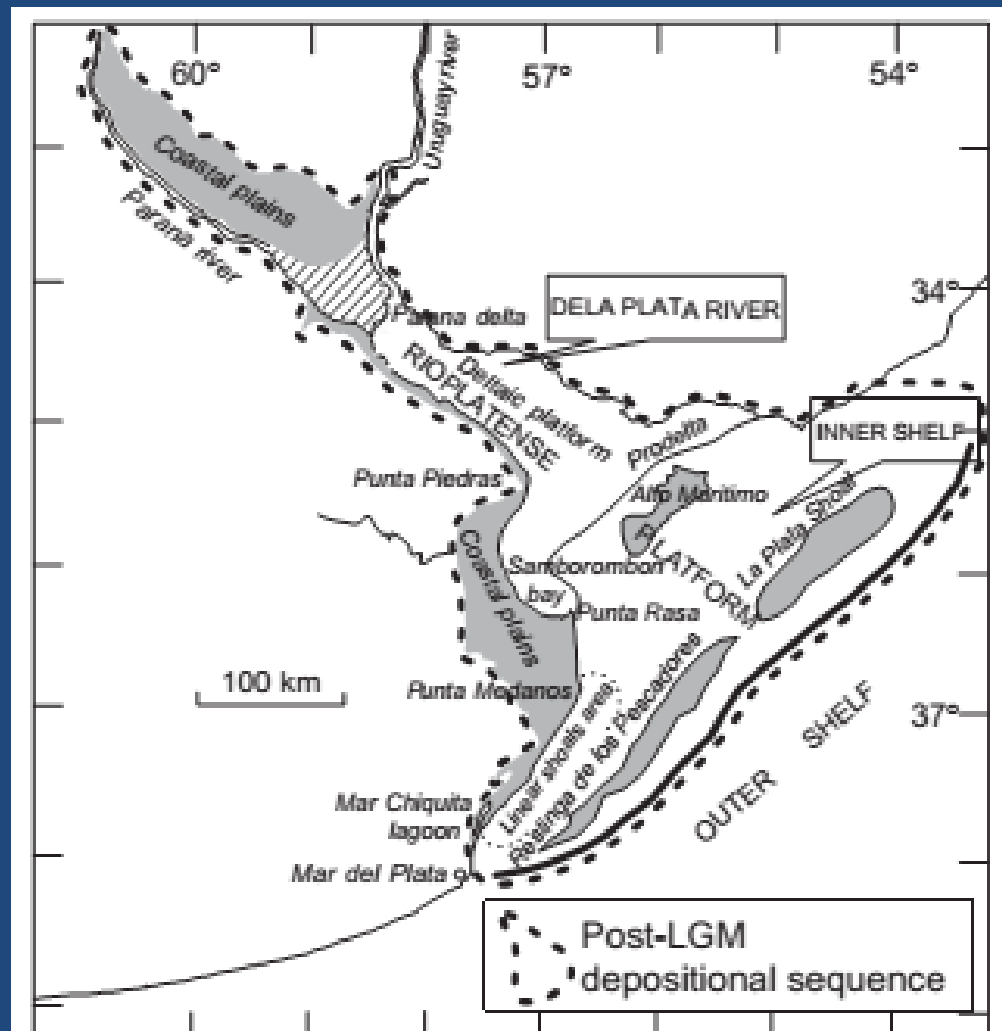
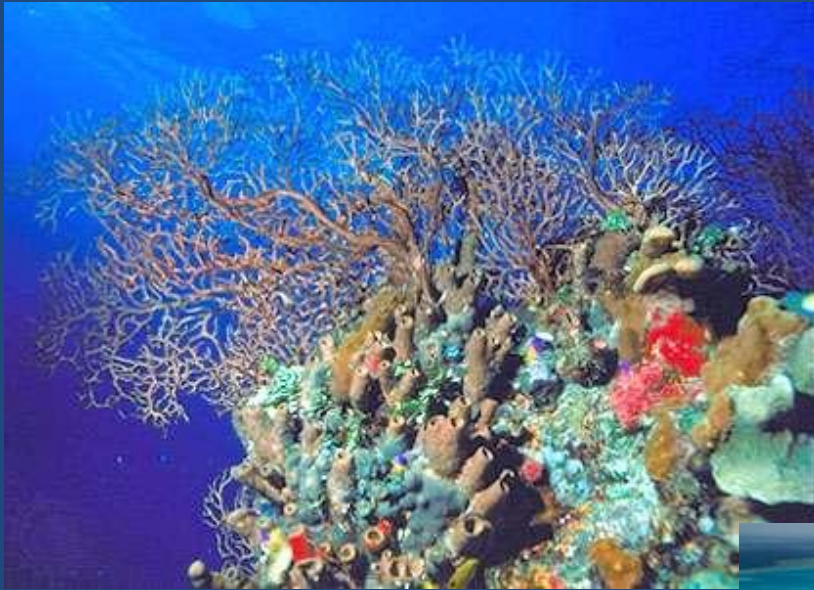


Fig. 2. Regional distribution of the post-LGM depositional sequence and its main morphological features.

# Ambiente de arrecifes de coral



## Ambiente y estructura



Larvas adhieren a sustratos

Corales solitarios y principalmente coloniales

Zooxantelas

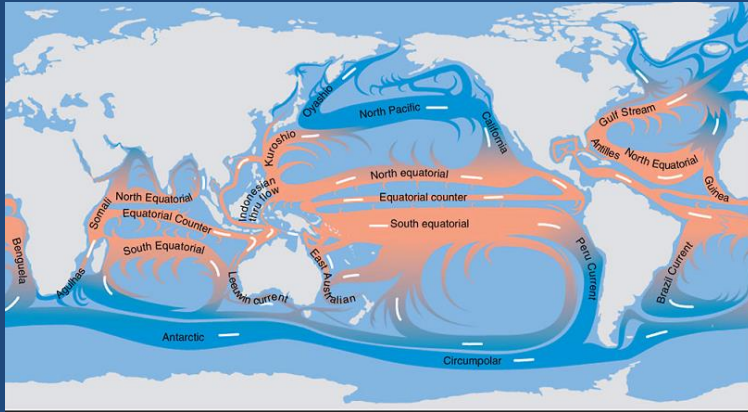


## Ambiente y estructura



Otros organismos calcáreos y no calcáreos (moluscos, equinodermos, protozoarios, algas)

# Ambiente y estructura

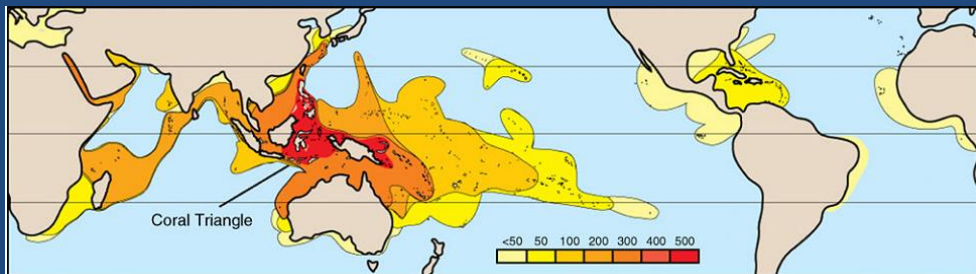


Corrientes y dispersión de taxa

Aguas someras y luz

Temperatura 22 a 28°

Salinidad 30-40 pp



# Estructuras del arrecife

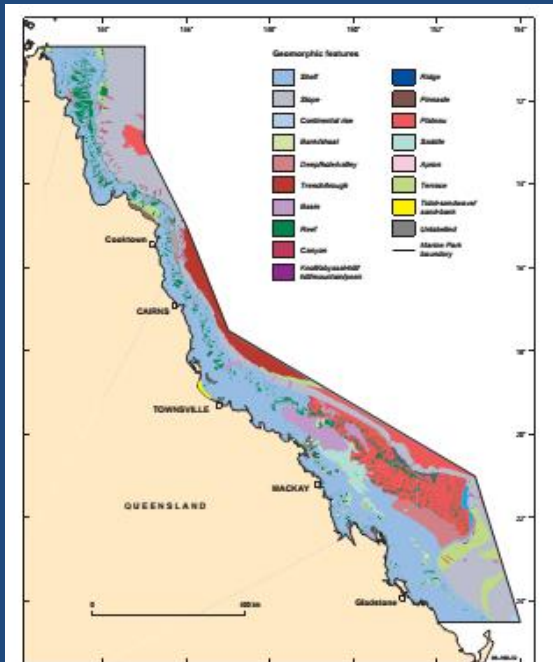


Figure 2.5. Geomorphic features of the north-east margin of Australia, illustrating the main geomorphic units on the continental shelf and slope within the Marine Park (from Harris et al., 2003).

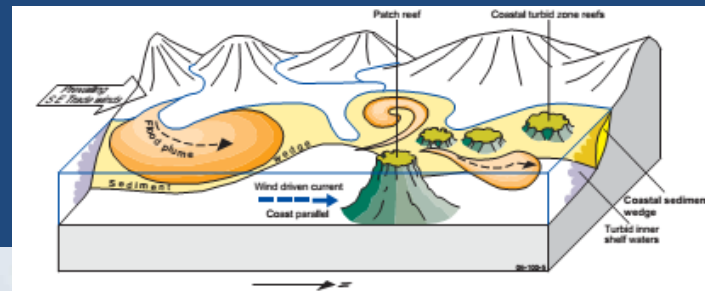
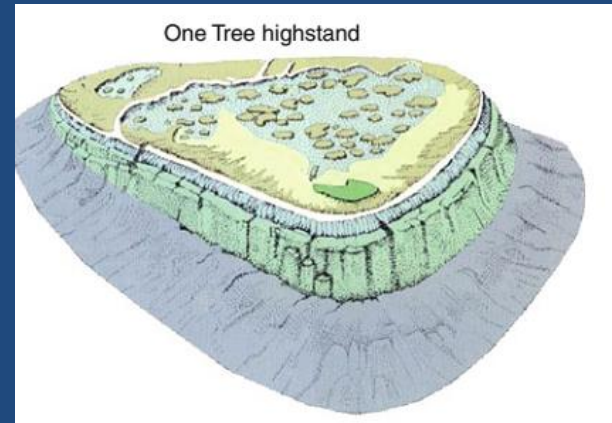
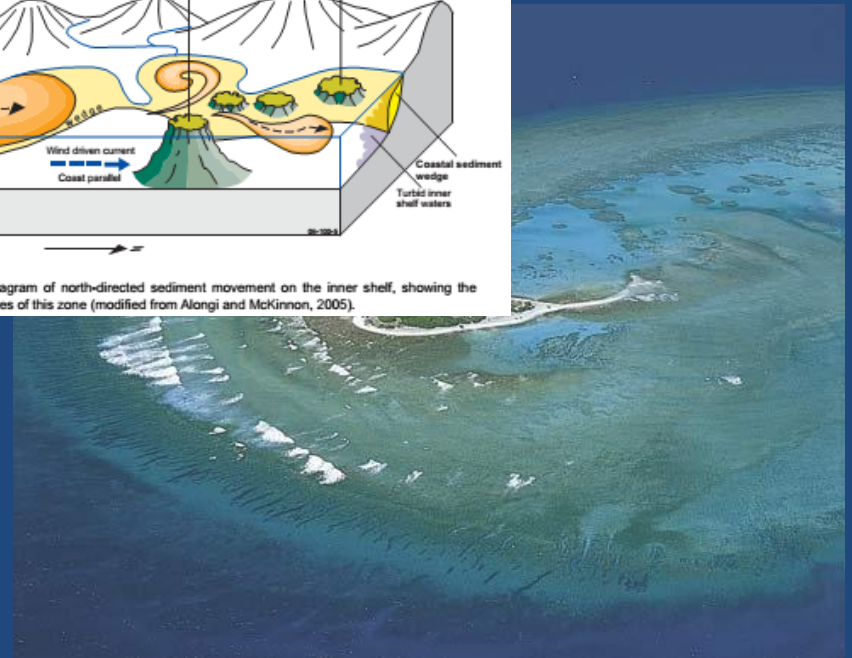
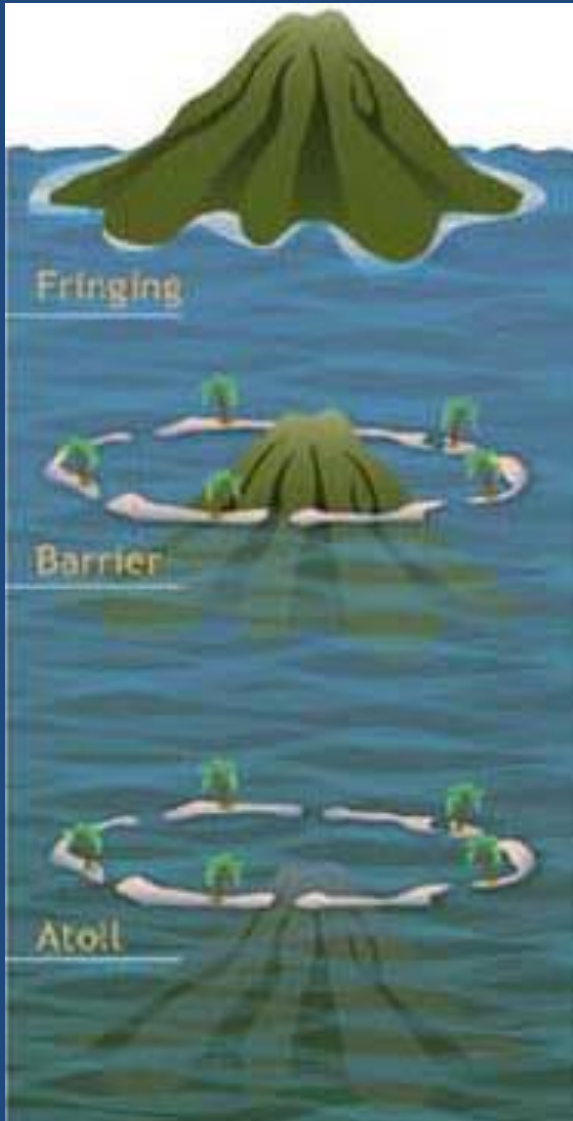


Figure 2.16. Schematic diagram of north-directed sediment movement on the inner shelf, showing the main oceanographic features of this zone (modified from Alongi and McKinnon, 2005).



# Tipos de arrecifes de coral



Arrecifes costeros



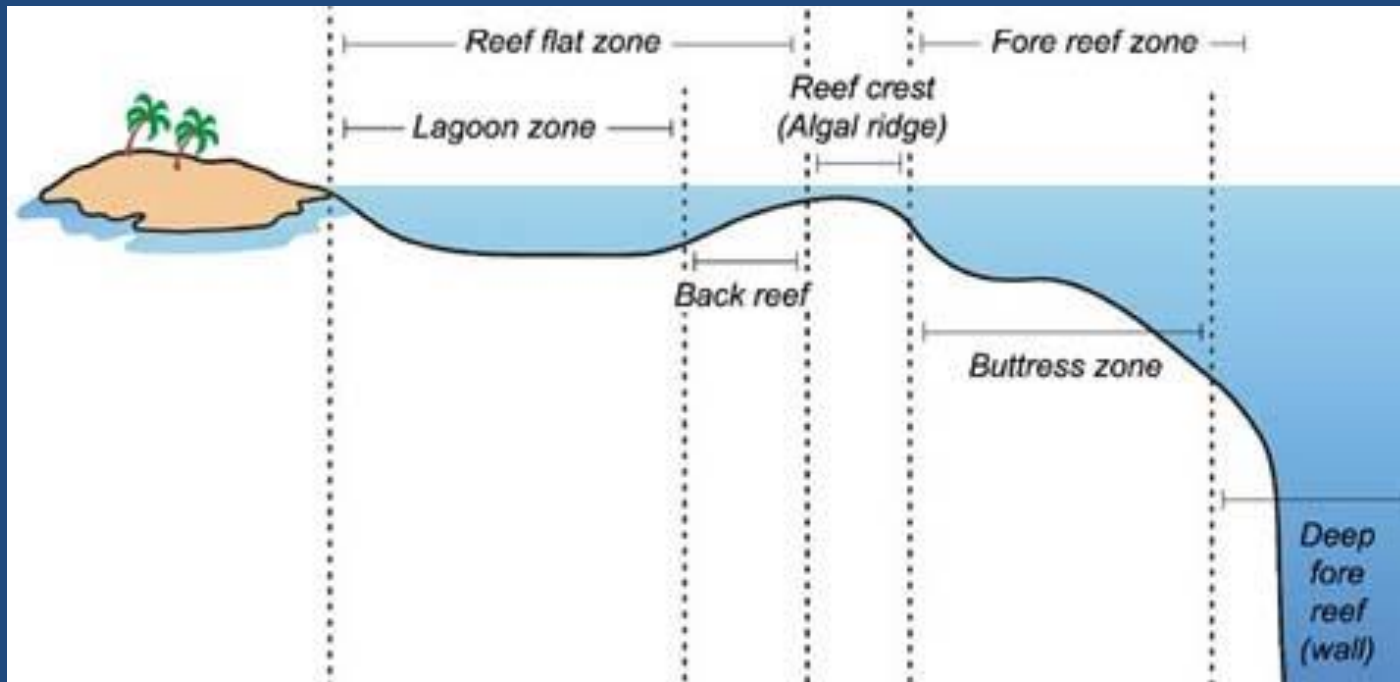
Arrecifes de barrera, separados por una laguna profunda



Atolones, arrecife crece y la isla volcánica subside o el mar transgrede formando laguna central



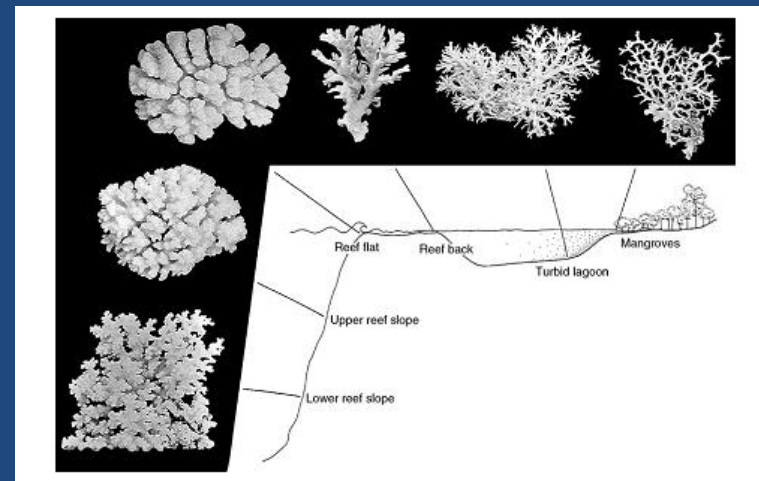
# Estructura espacial de arrecife de barrera



Laguna somera

Cresta del arrecife

Frente del arrecife



# Evolución : Gran Barrera de Coral

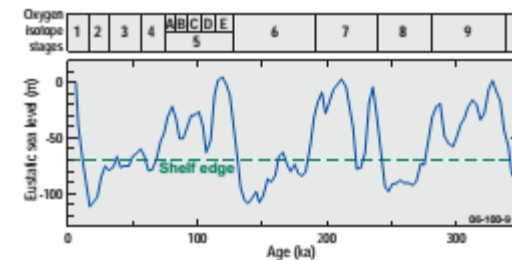
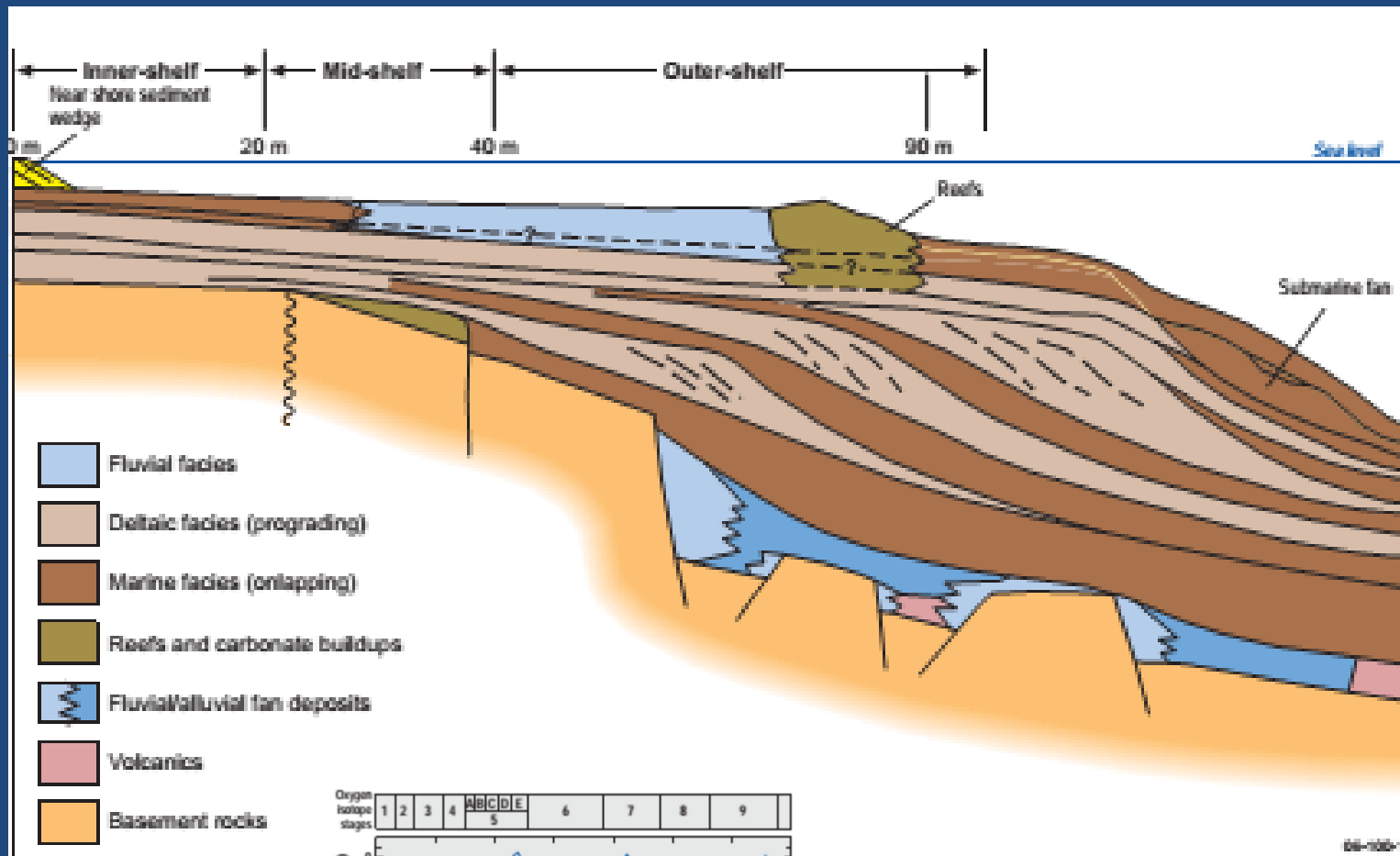
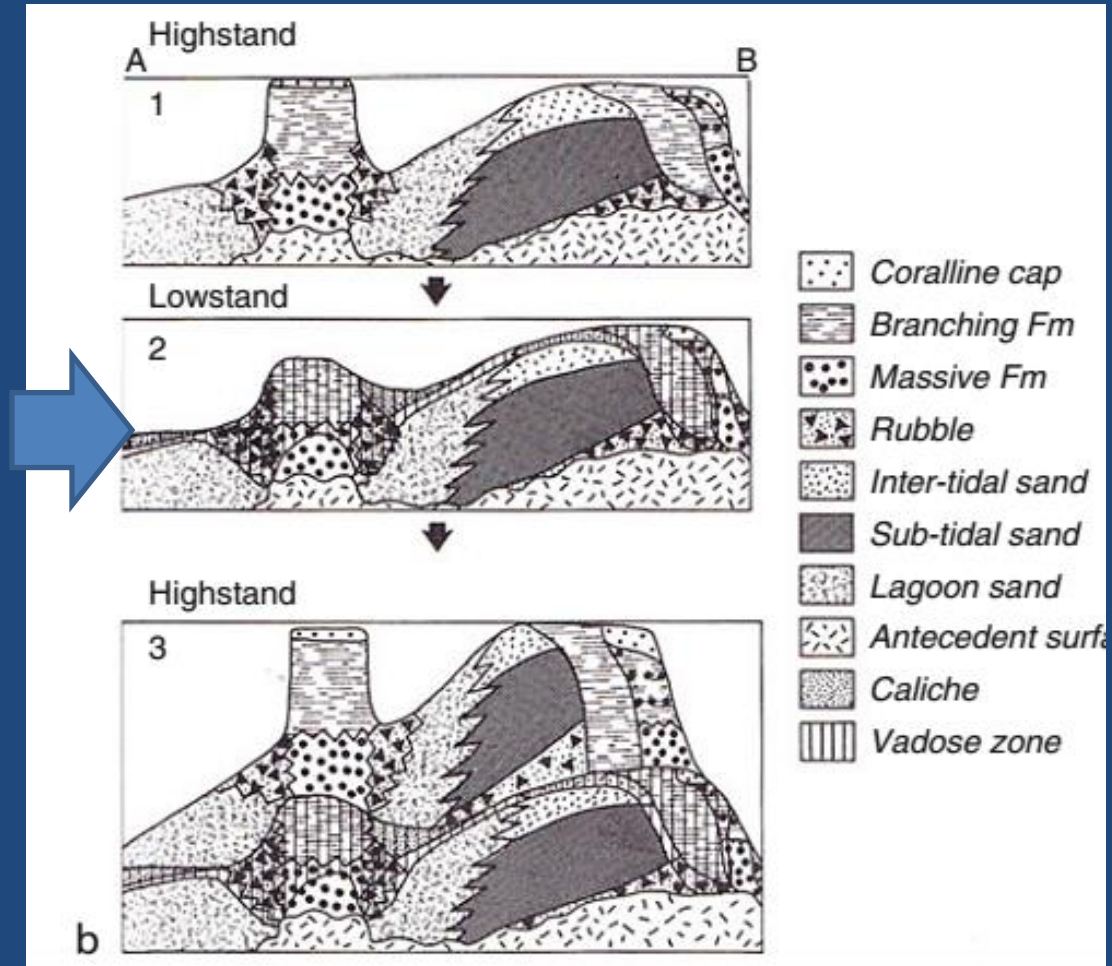


Figure 2.3. Eustatic sea level curve for the north Queensland shelf over the last 350 ky, relative to the central GBR (modified from Dunbar et al., 2000).

Ciclos glaciales: construcción de la plataforma

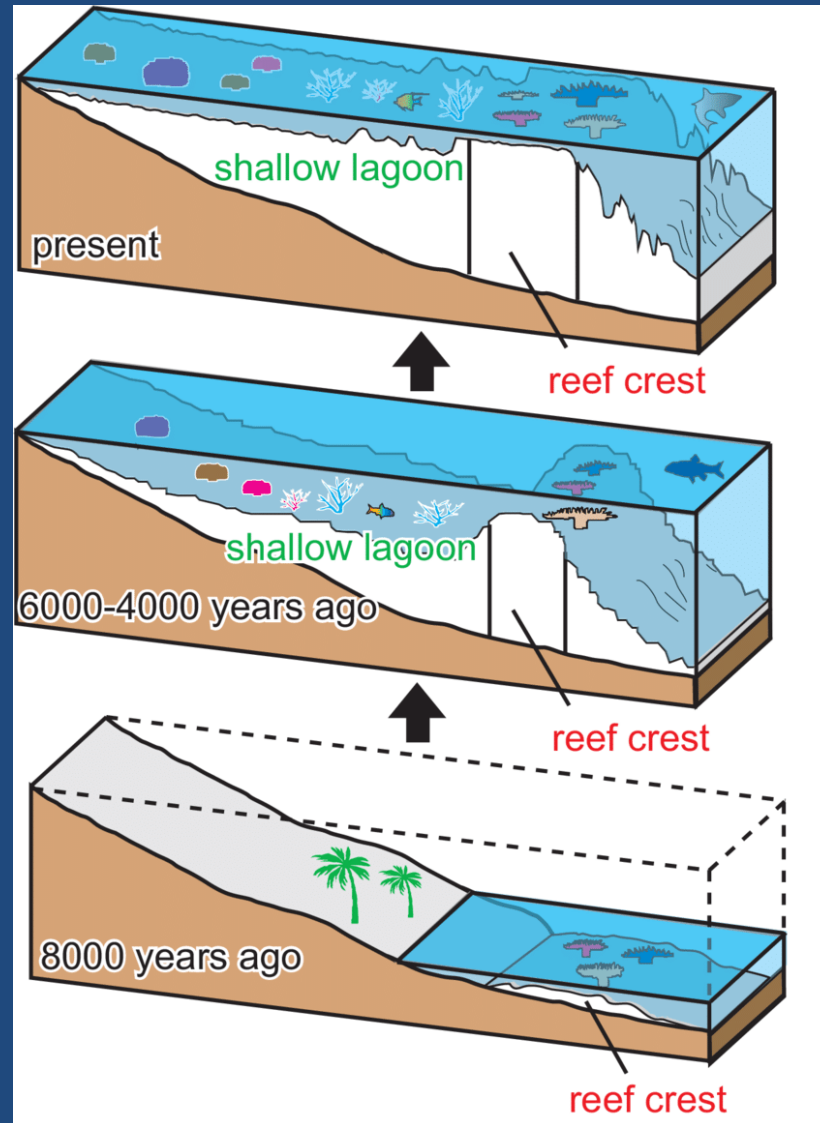
Crecimiento de coral en Pleistoceno

# Evolución durante regresiones





# Evolución en última transgresión



# Evolución de sedimentos en ultima transgresión

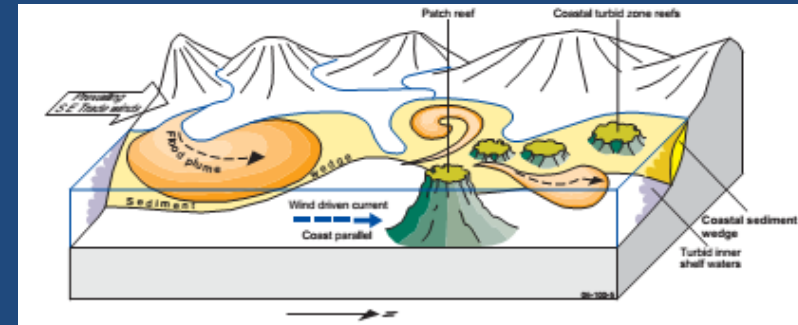
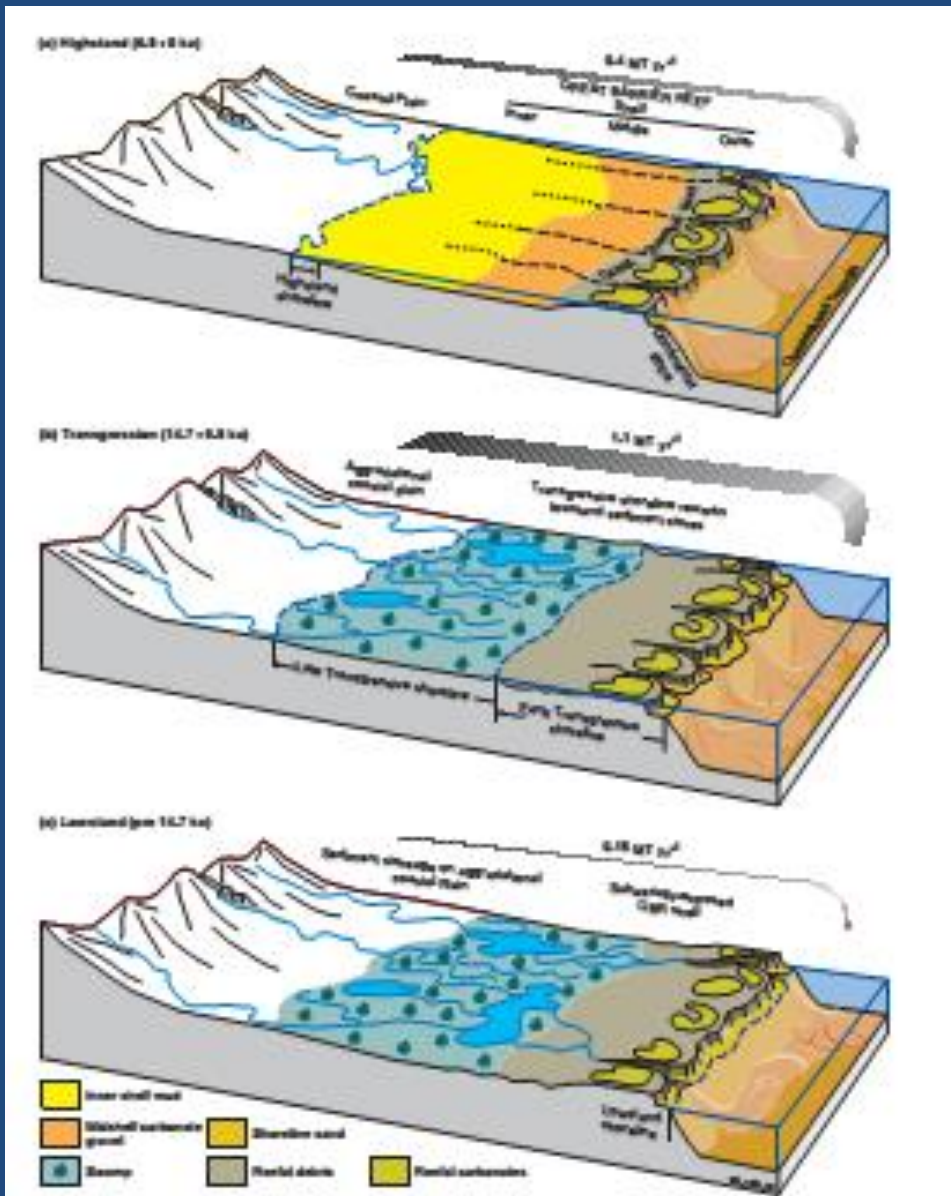


Figure 2.16. Schematic diagram of north-directed sediment movement on the inner shelf, showing the main oceanographic features of this zone (modified from Alongi and McKinnon, 2005).

Material terrigeno y carbonático

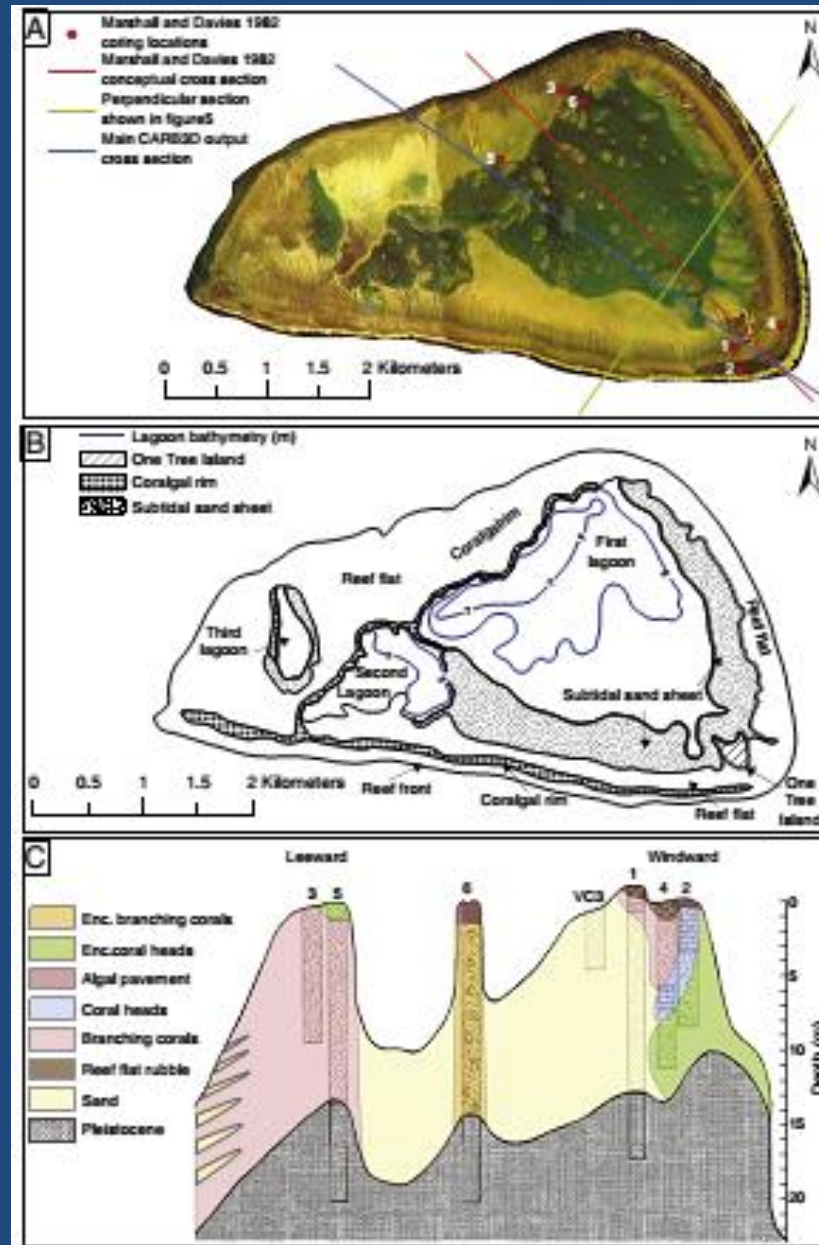
Karst e islas

Transporte siliciclastico

# Registros paloclimáticos y paleosedimentológicos



# Registros paleosedimentológicos



# Registros paloclimáticos



Sr/Ca ratios  
Stable carbon and oxygen  
isotopes



