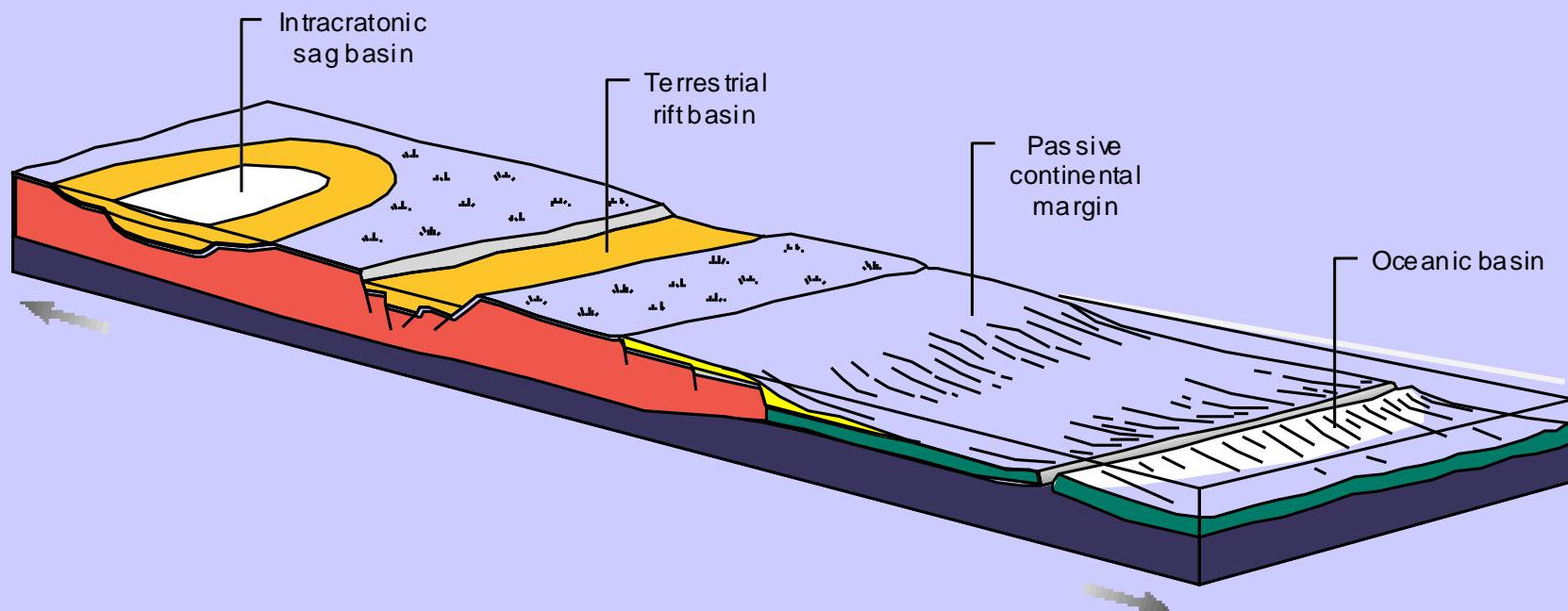
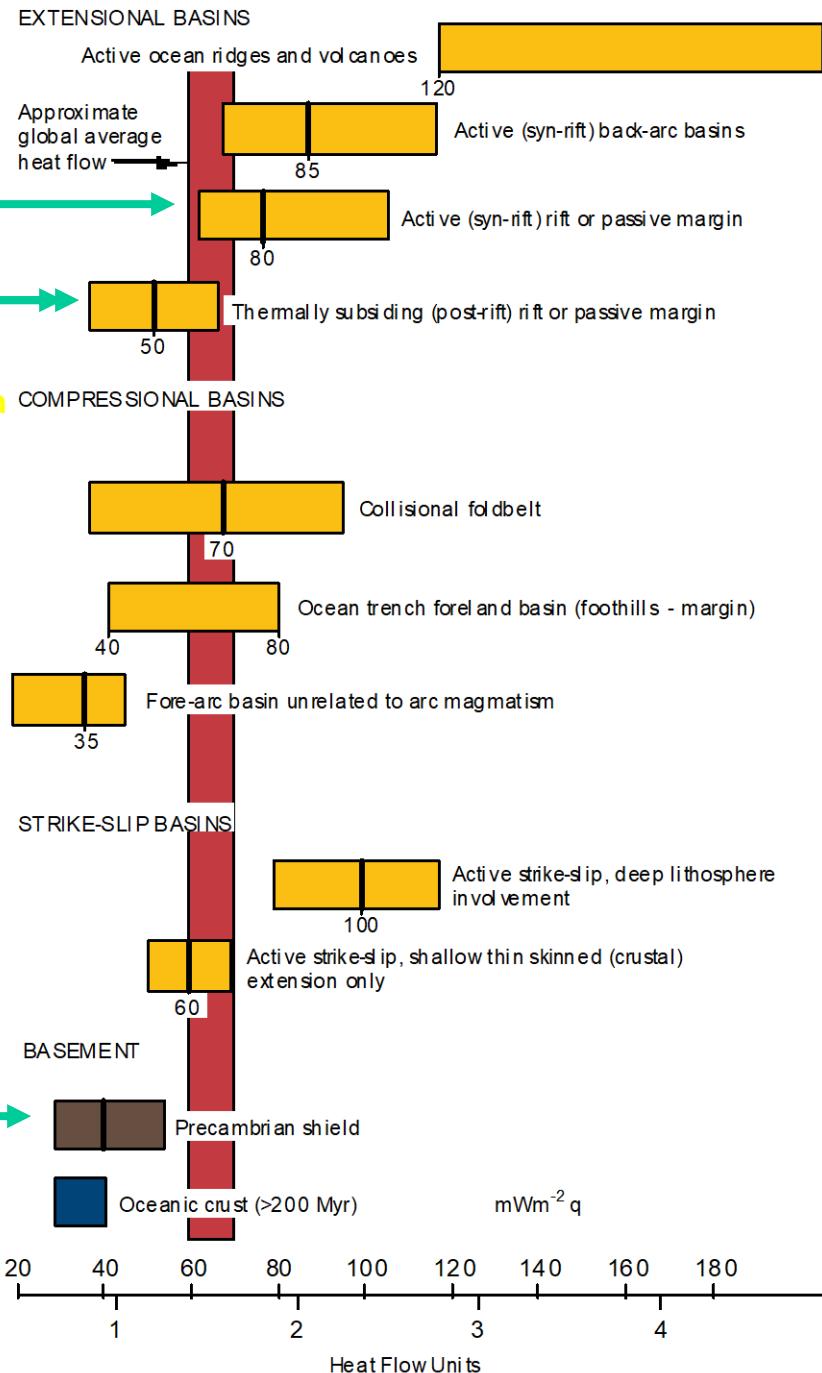
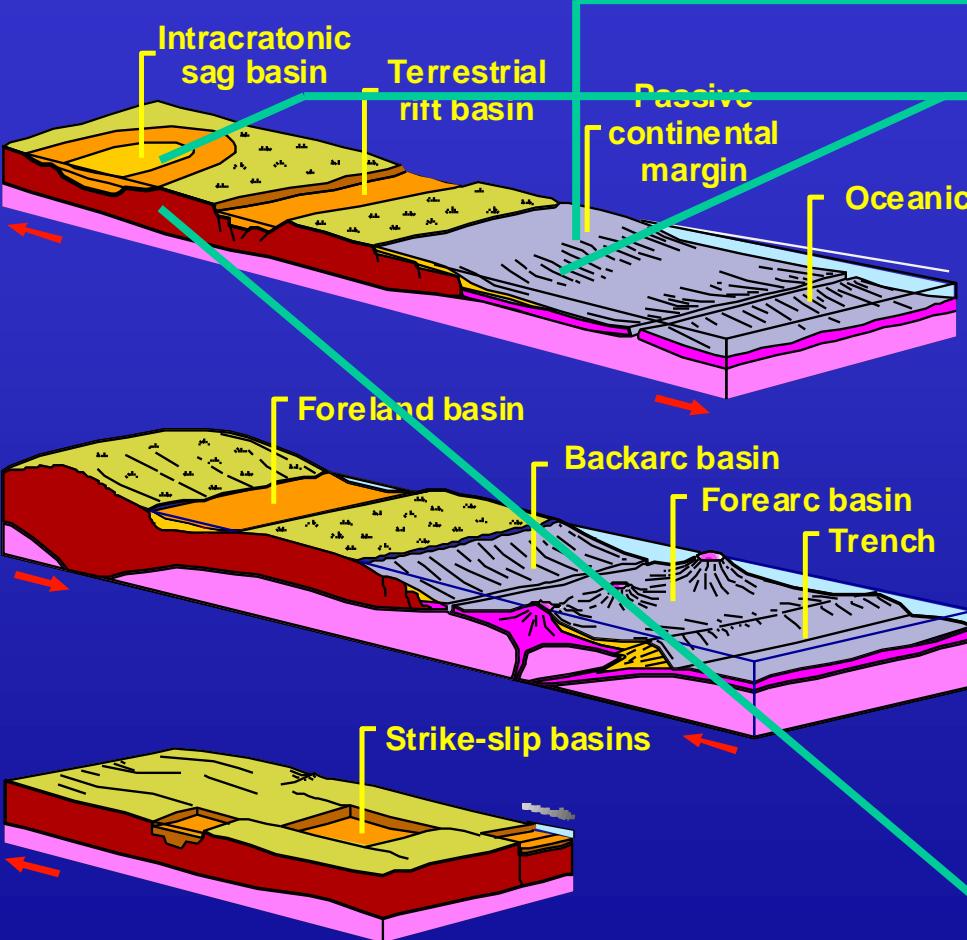


Sedimentary Basins

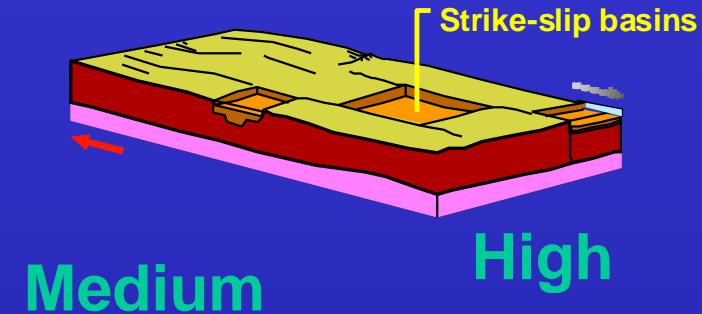
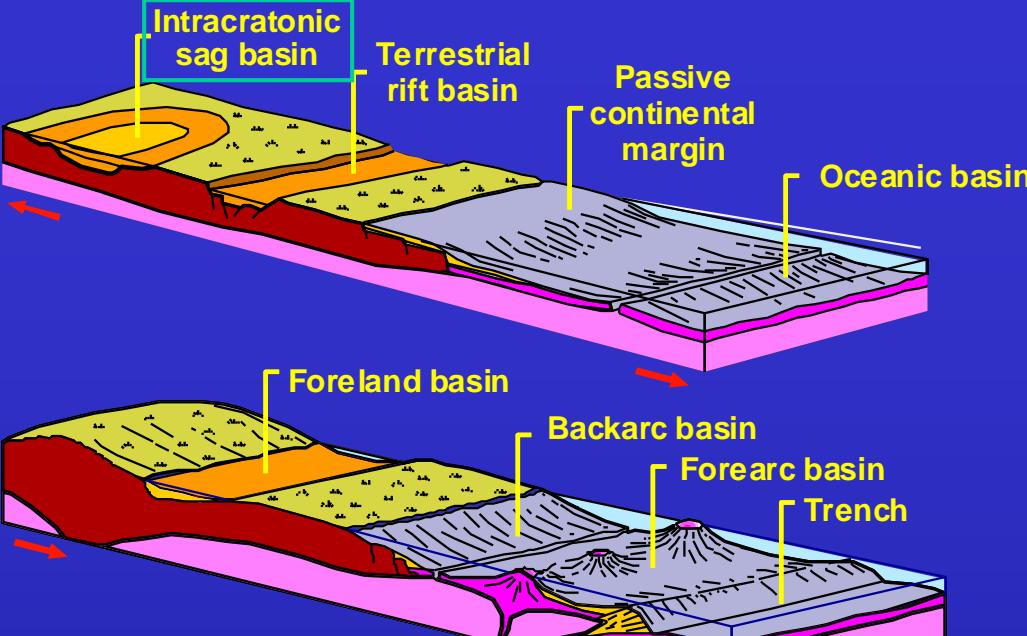
INTRACRATONIC BASINS



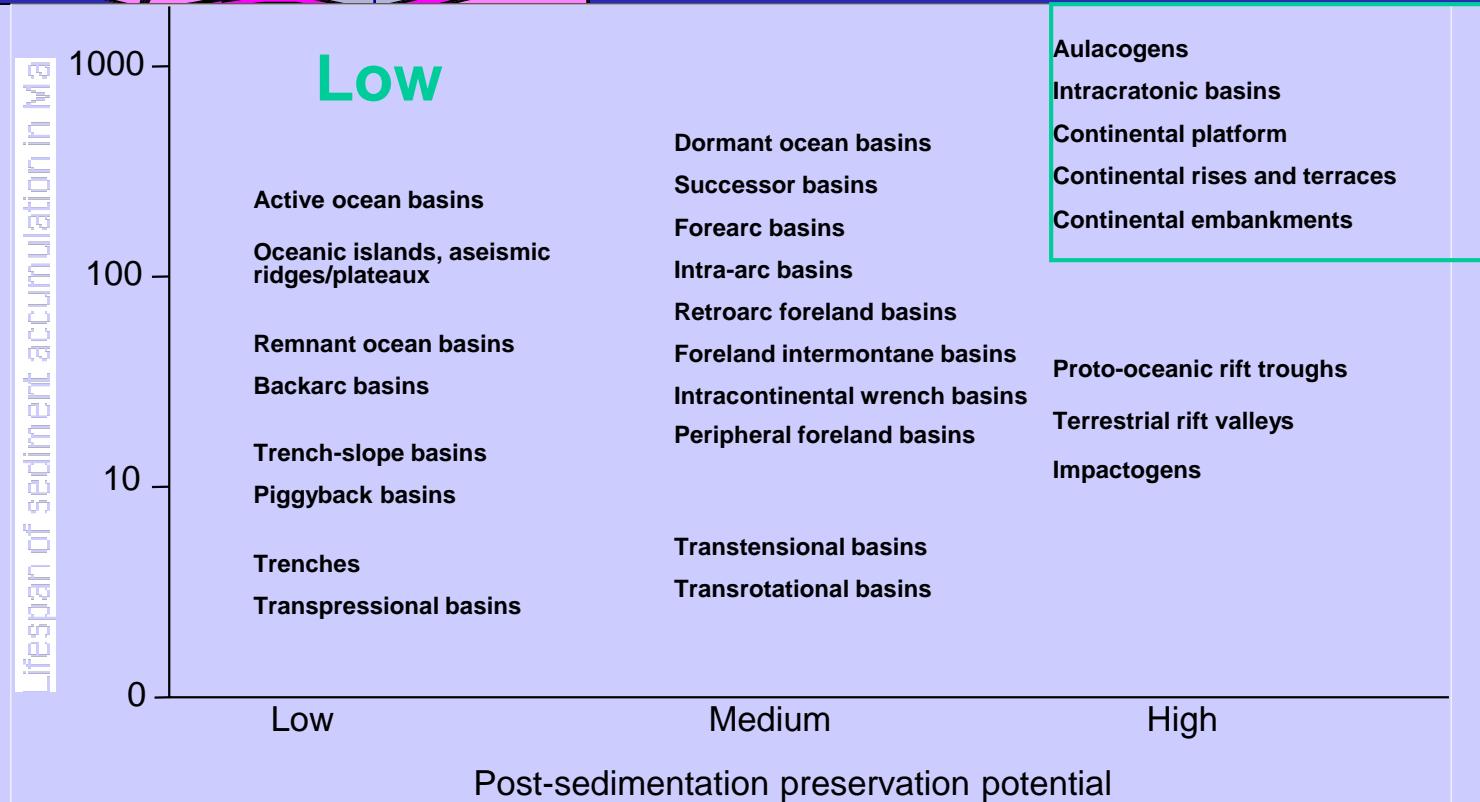
Basin Heat flow



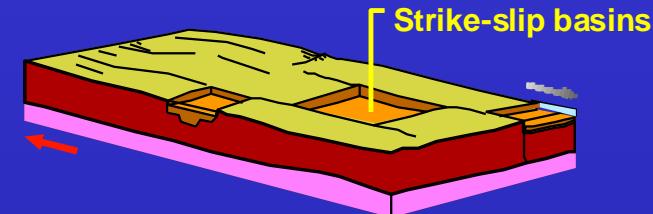
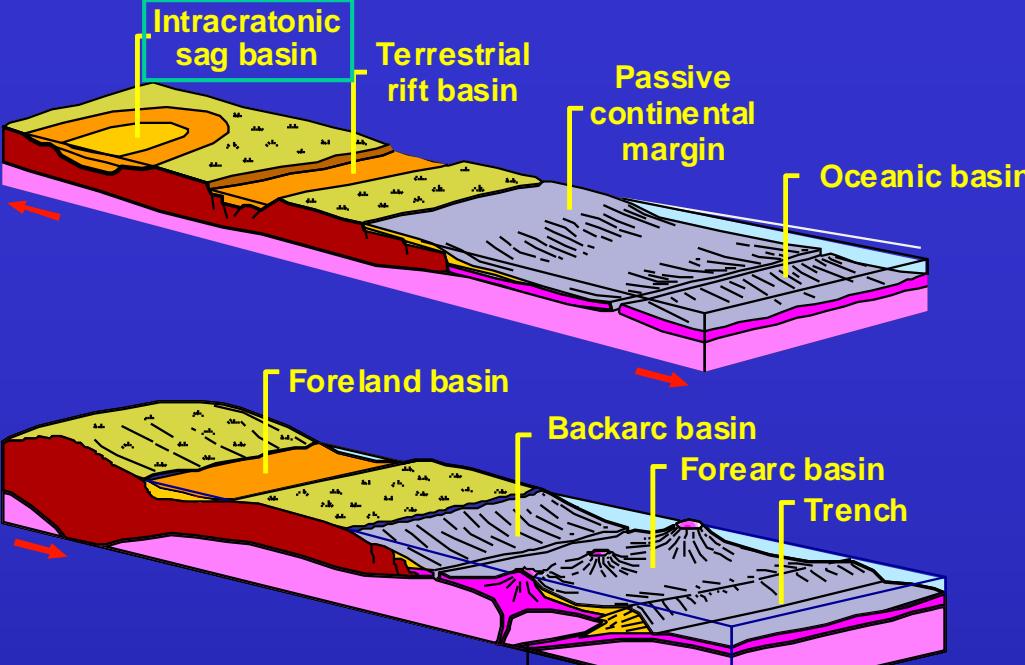
Basin preservation potential



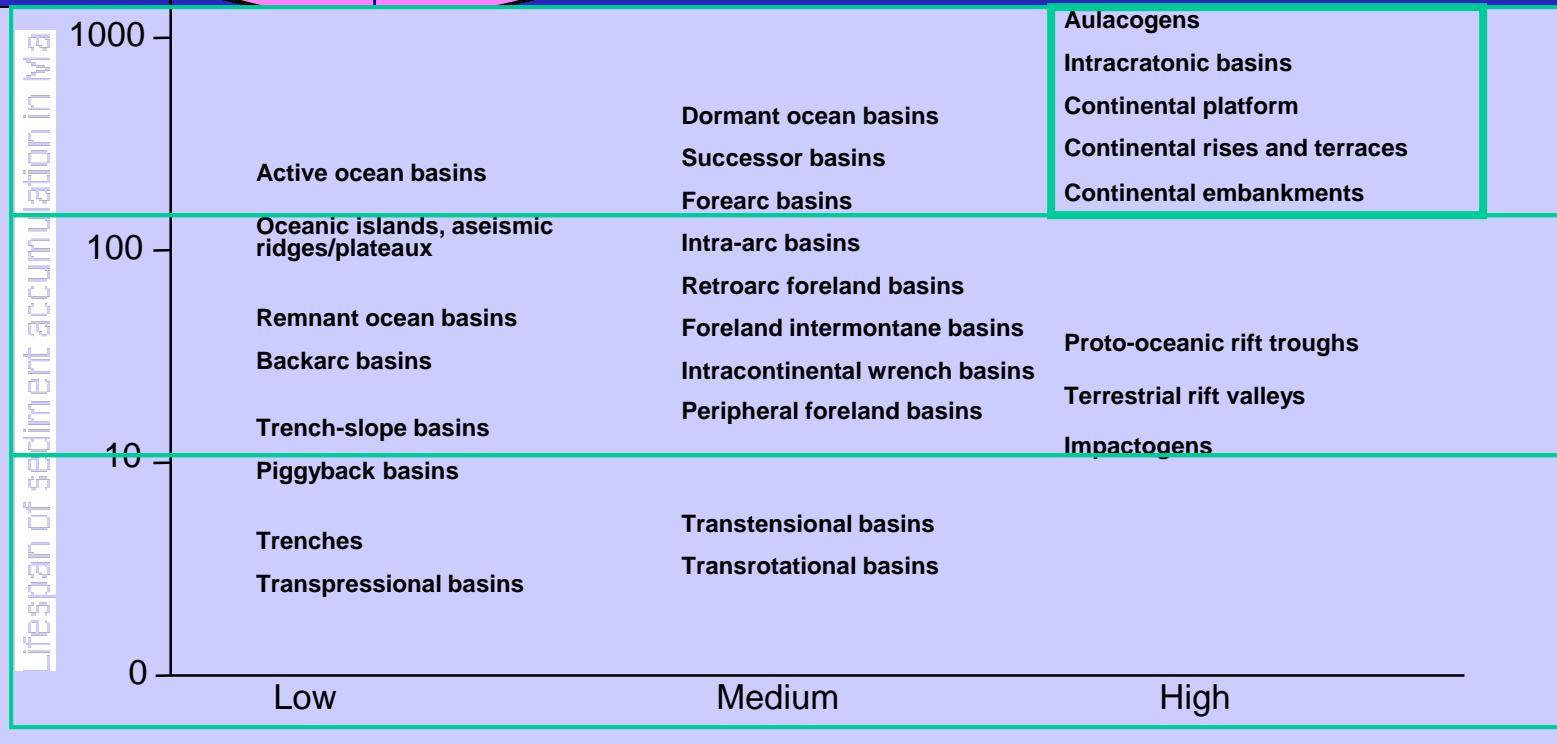
Medium High



Basin lifespan

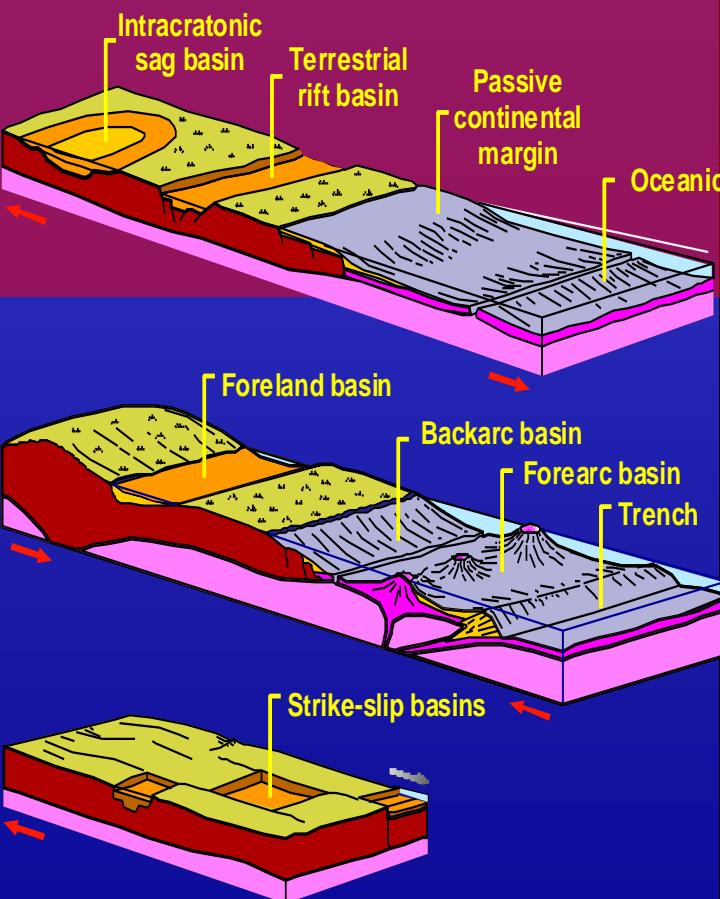


Long
Medium
Short



SUBSIDENCE MECHANISMS

Subsidence mechanism



- Minor
- Important
- Dominant

- A. Crustal thinning
B. Mantle-lithosphere thickening

BASIN TYPE

Divergent

Terrestrial rift valleys
Proto-oceanic rift troughs

Continental rises and terraces

Continental embayments

Intracratonic basins

Continental platform

Active ocean basins

Oceanic islands, aseismic ridges/plateaux

Dormant ocean basins

Indicate

Convergent

Trenches

Trench-slope basins

Forearc basins

Intra-arc basins

Backarc basins

Retroarc foreland basins

Remnant ocean basins

Peripheral foreland basins

Piggyback basins

Foreland intermontane basins

Indicate

Hybrid

Transtensional basins

Transpressional basins

Transrotational basins

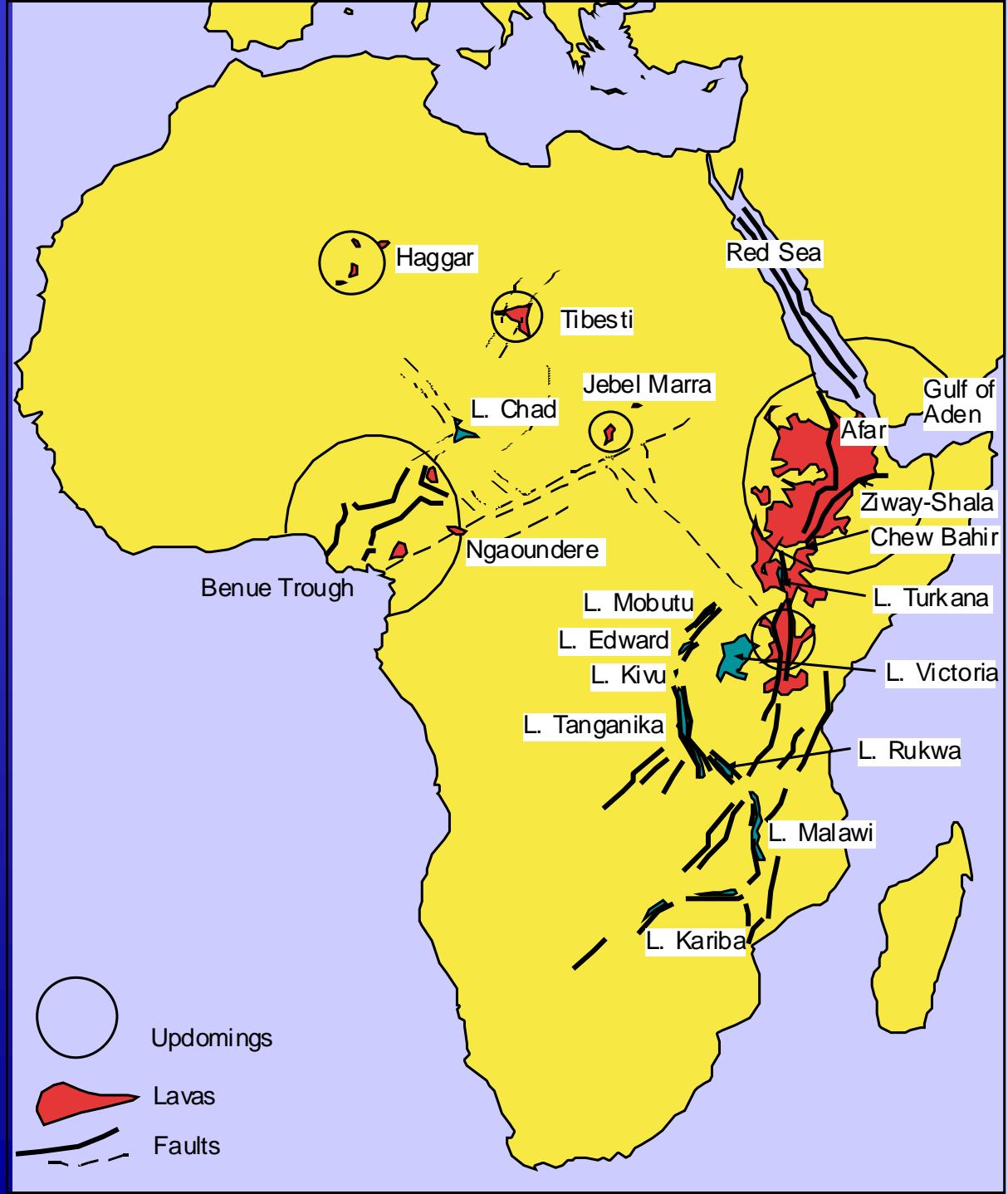
Intracontinental wrench basins

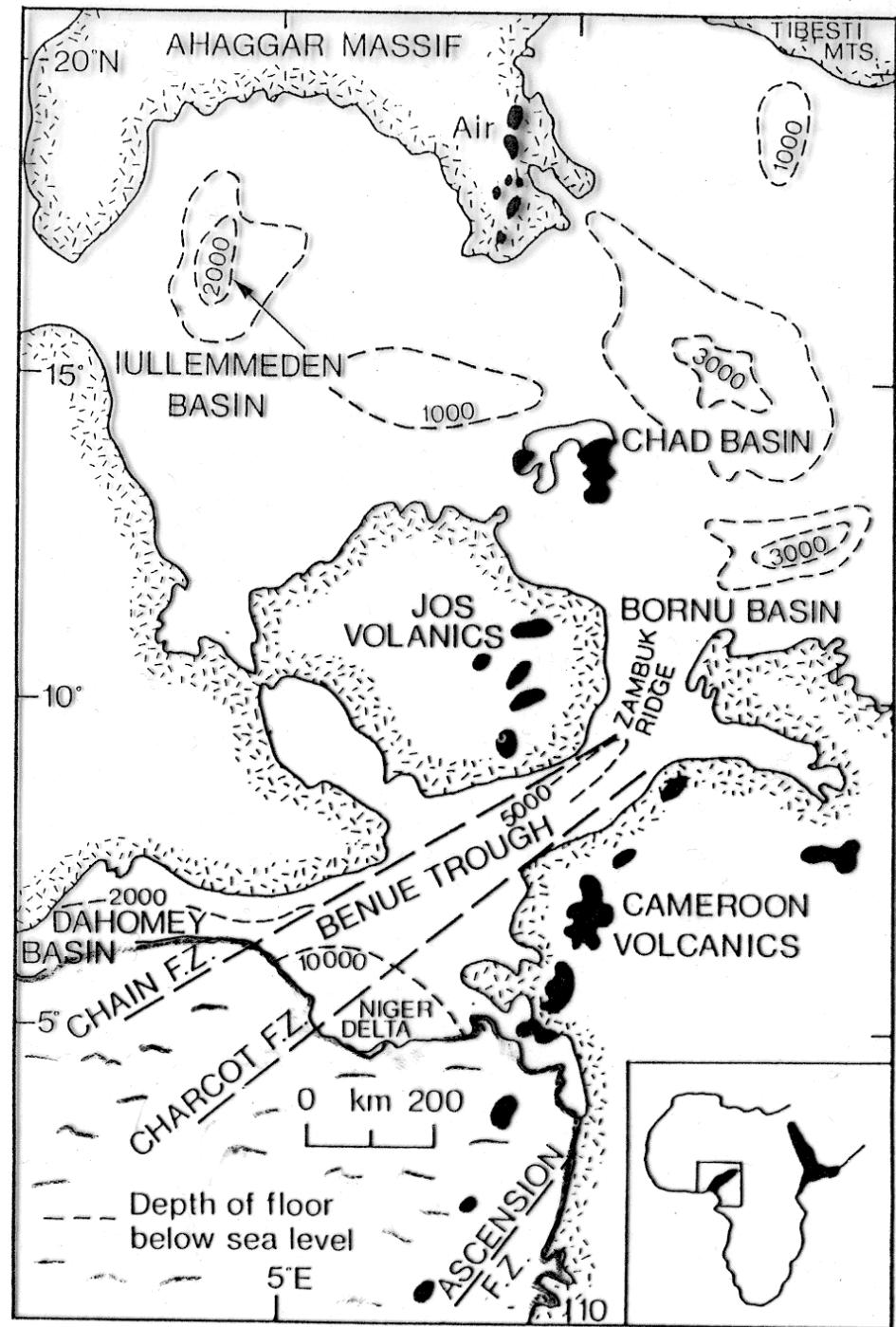
Aulacogens

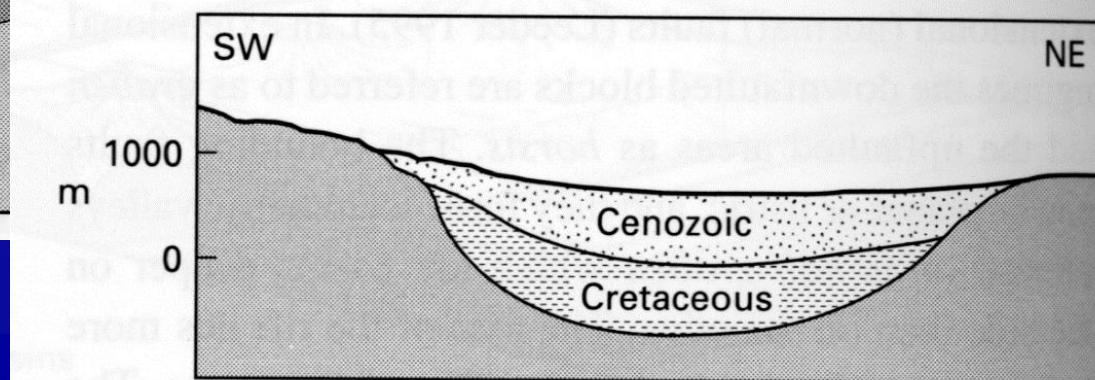
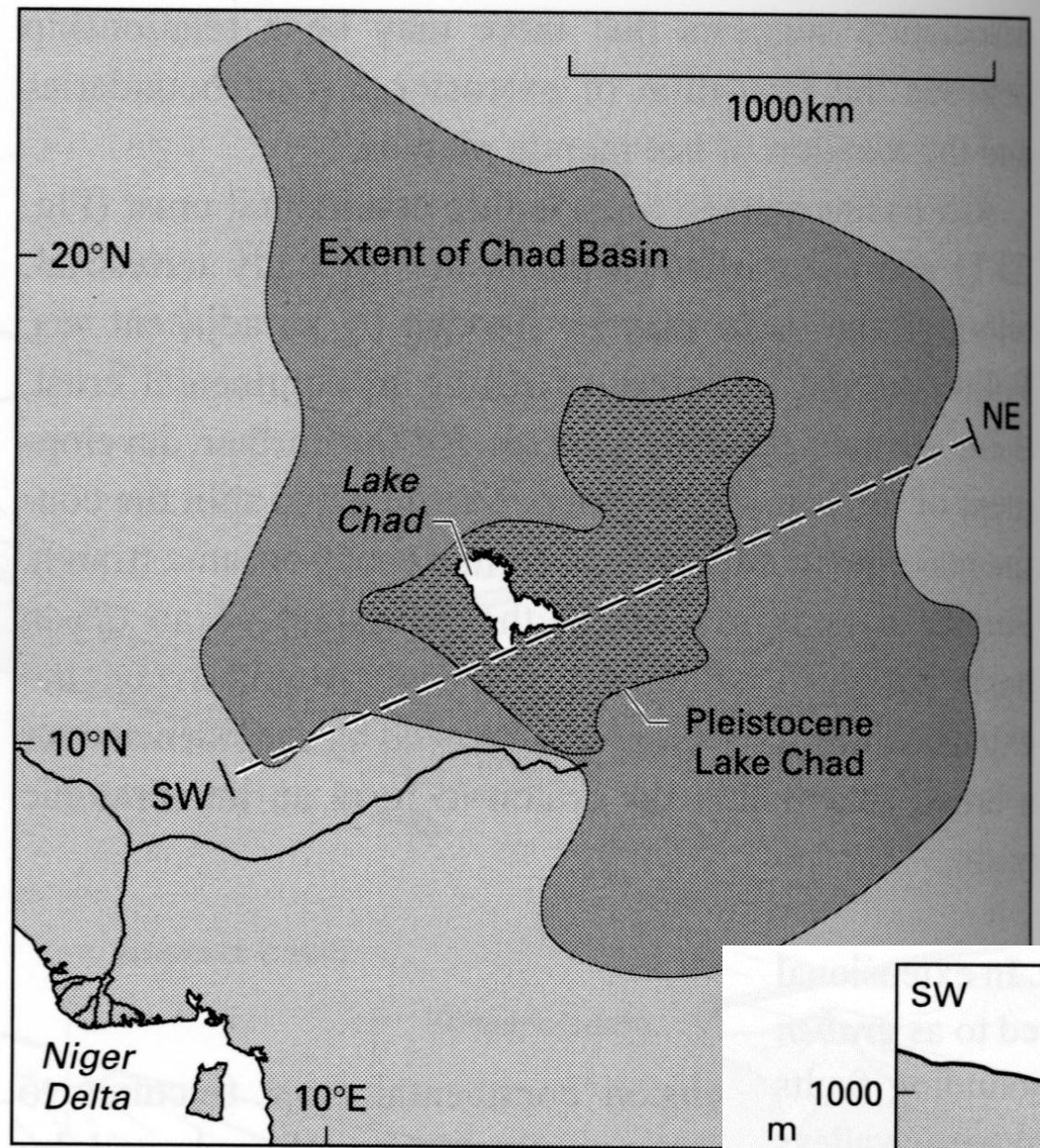
Impactogens

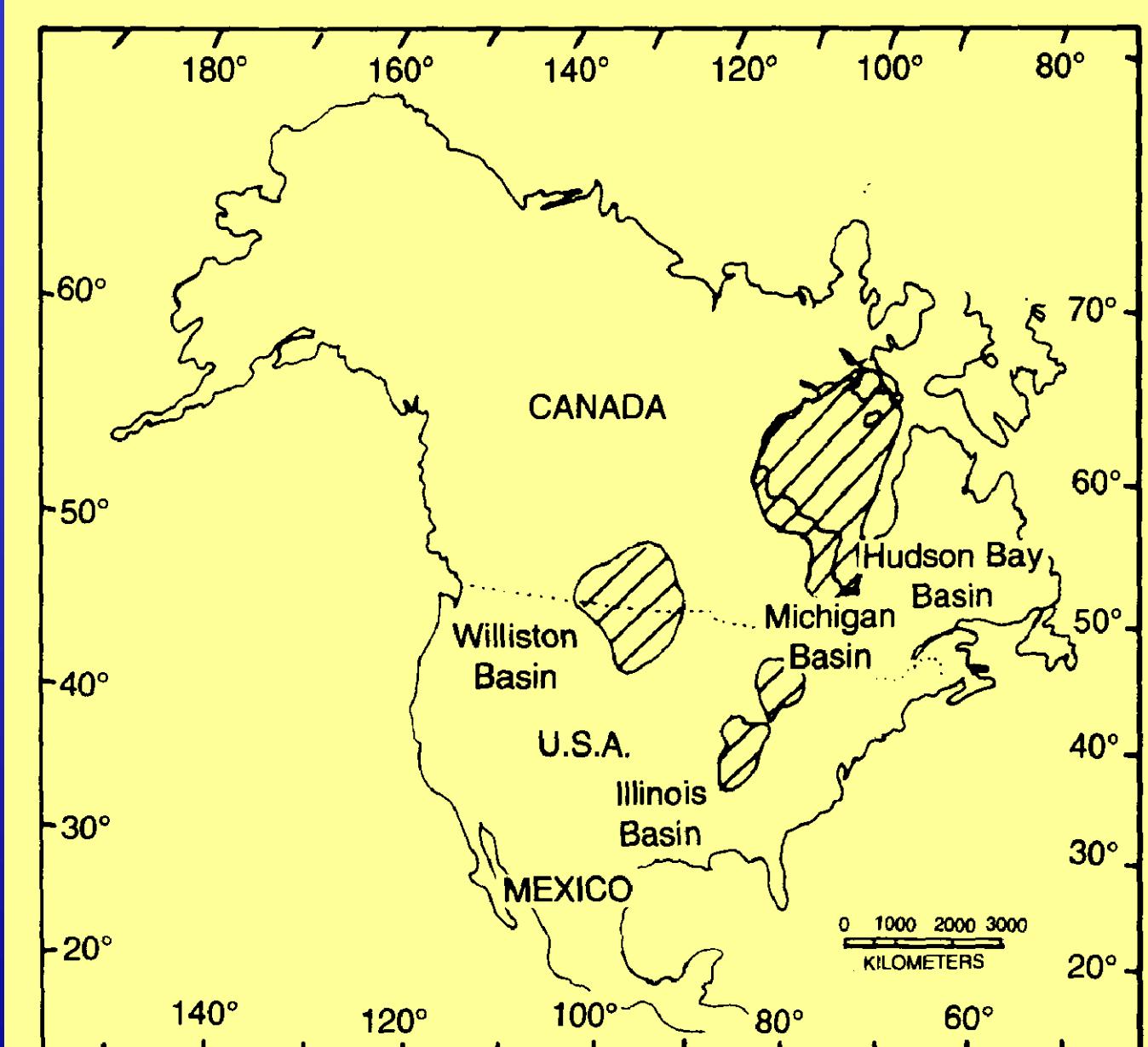
Successor basins

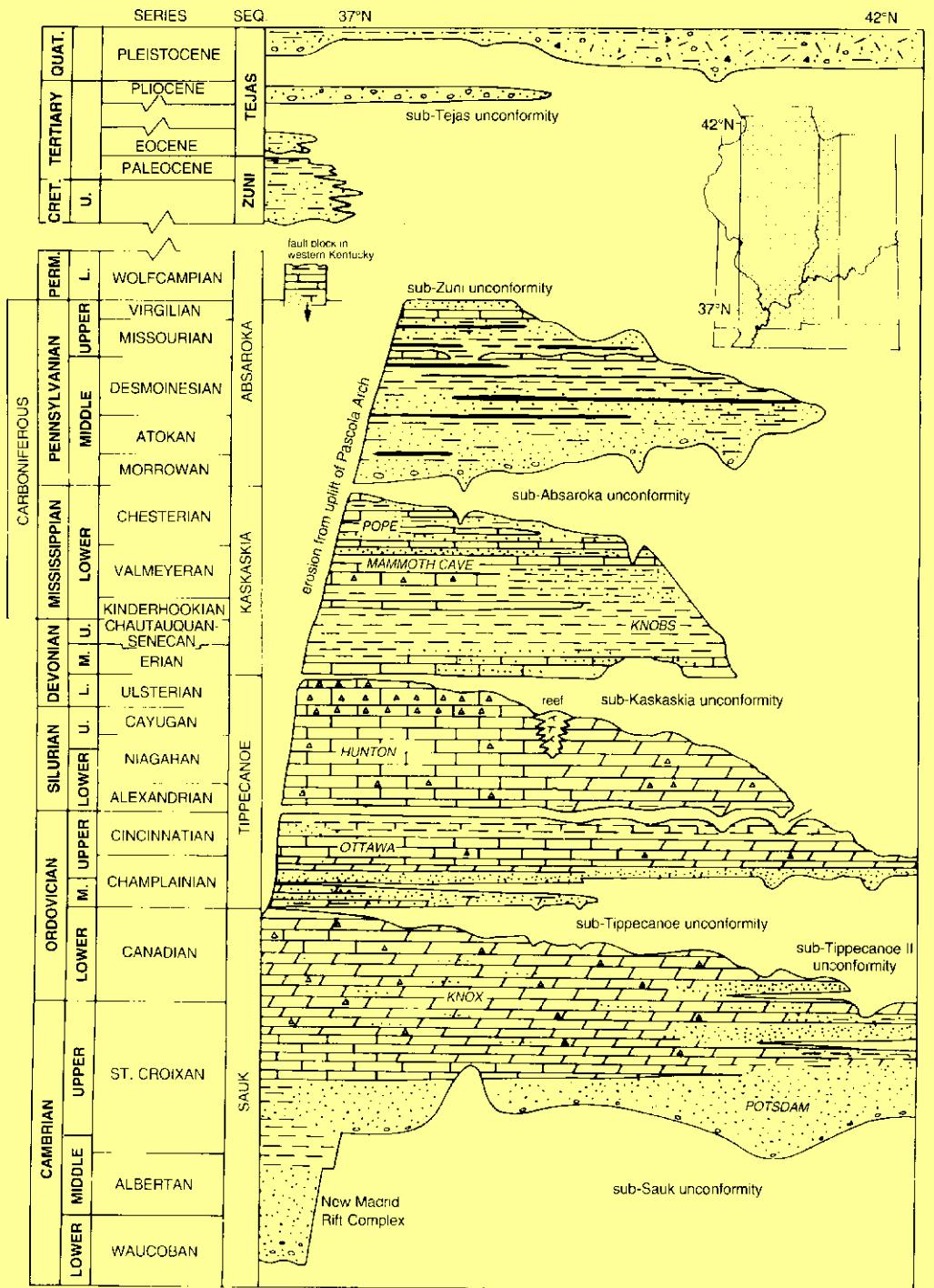
A B C D E F G

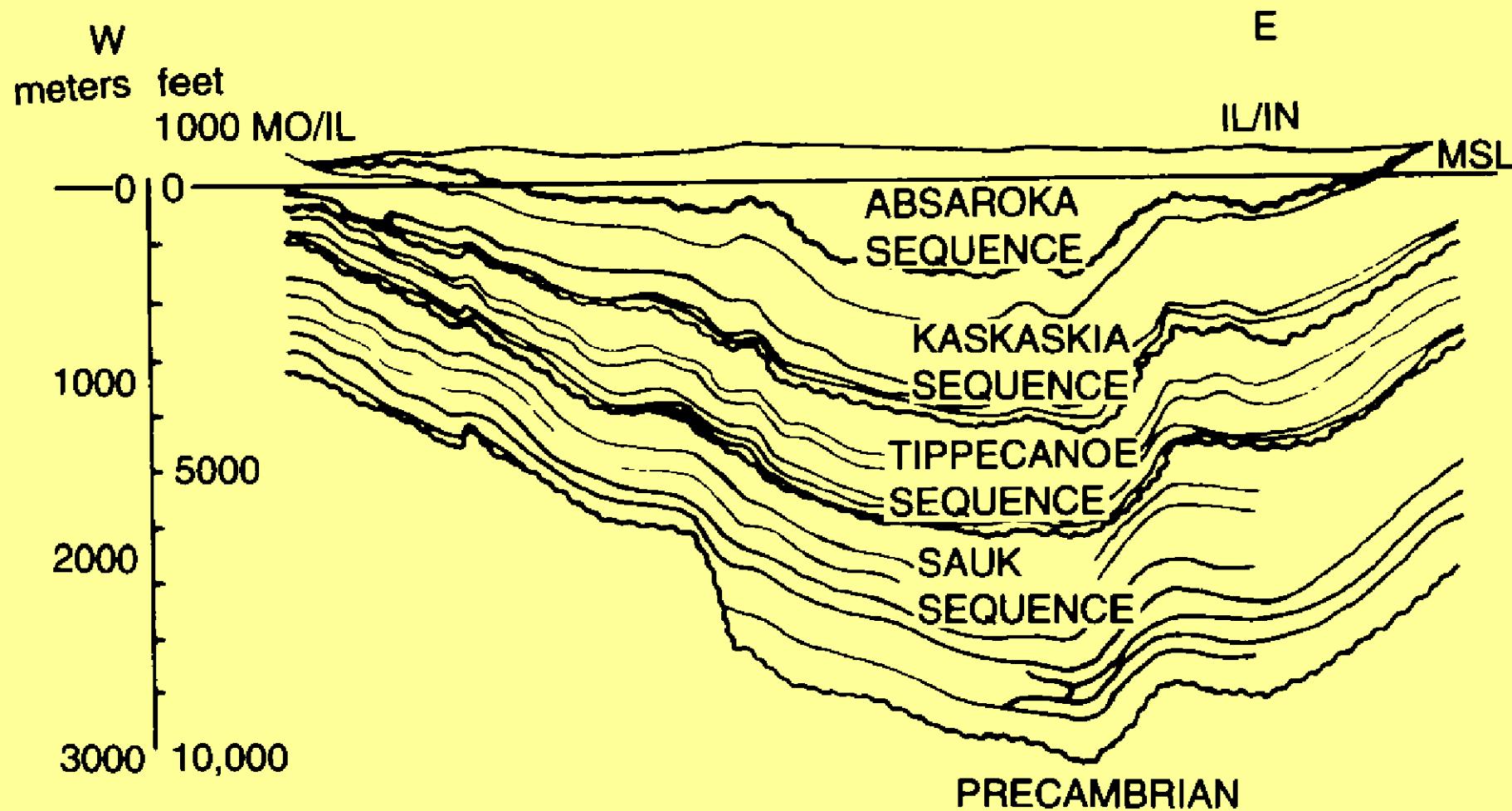






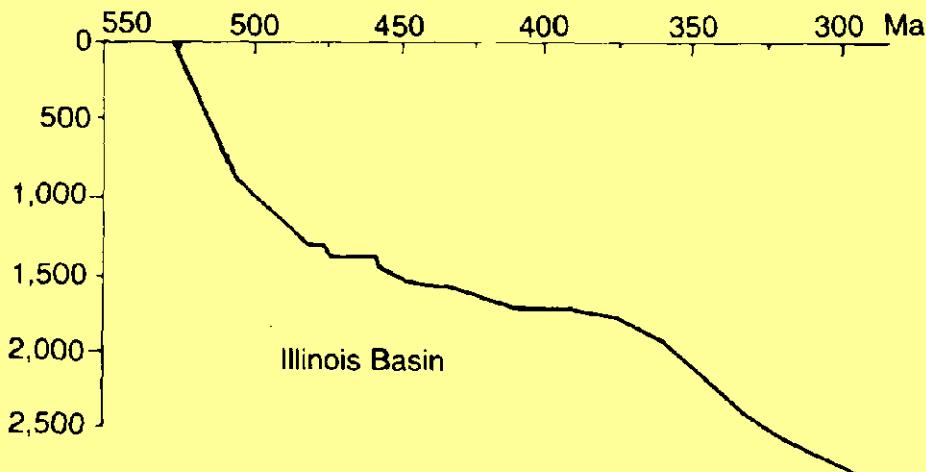
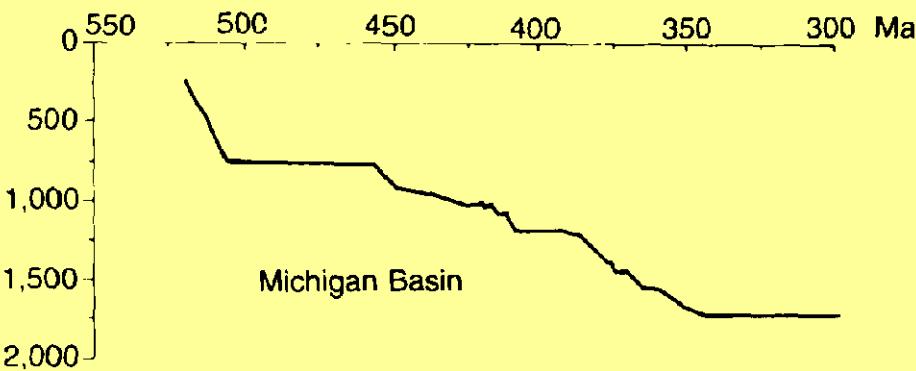




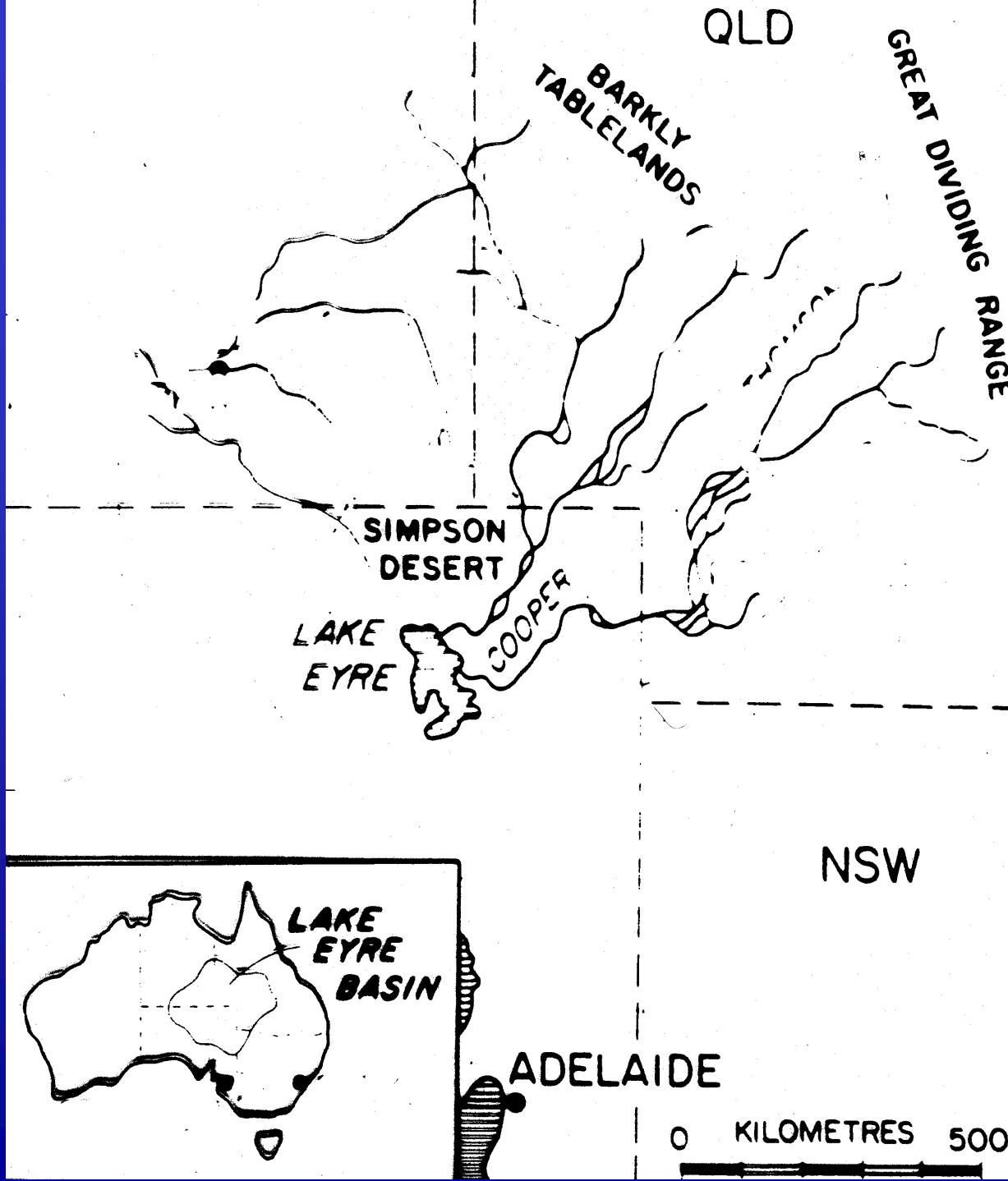


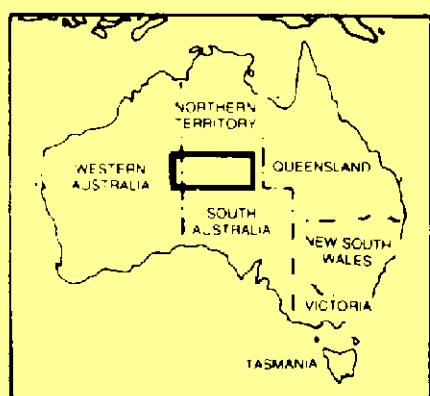
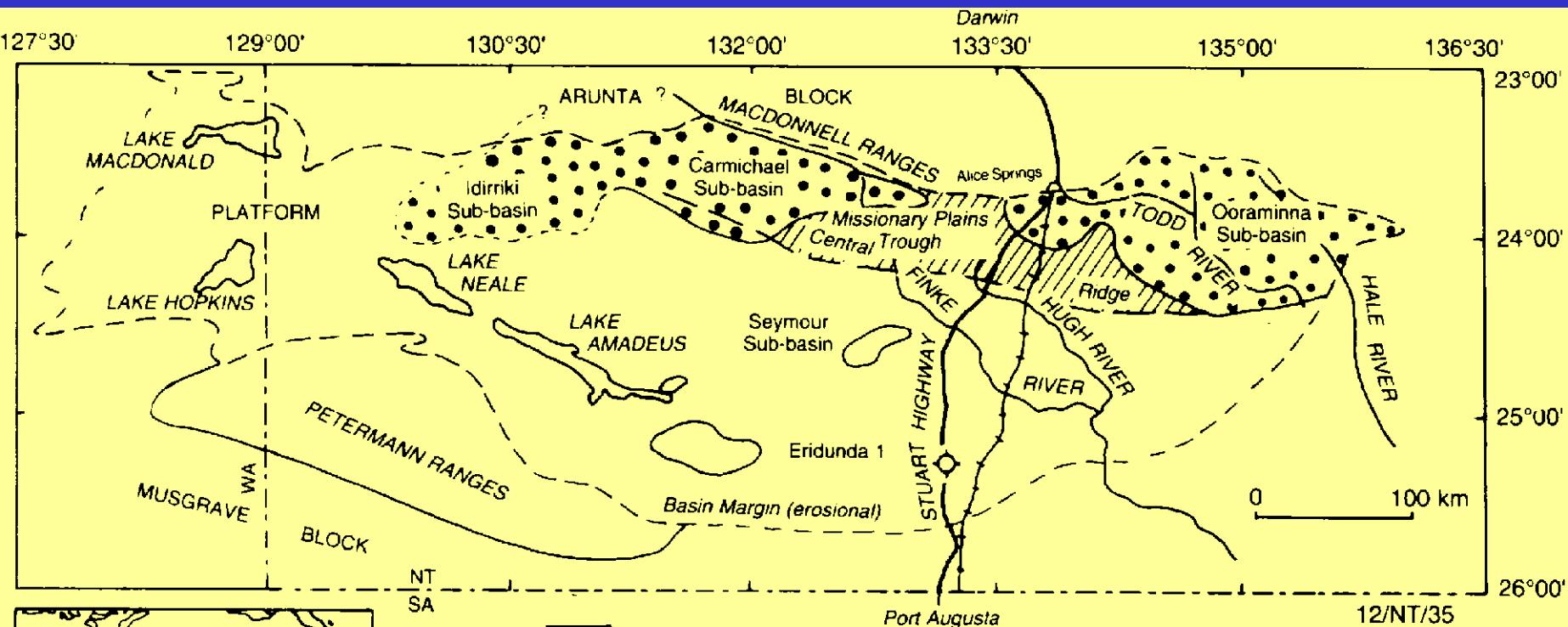
CAMBRIAN ORDOVICIAN SIL DEV MISS PENN PERM
SAUK TIPPECANOE KASKASKIA ABSAROKA

550 500 450 400 350 300 Ma

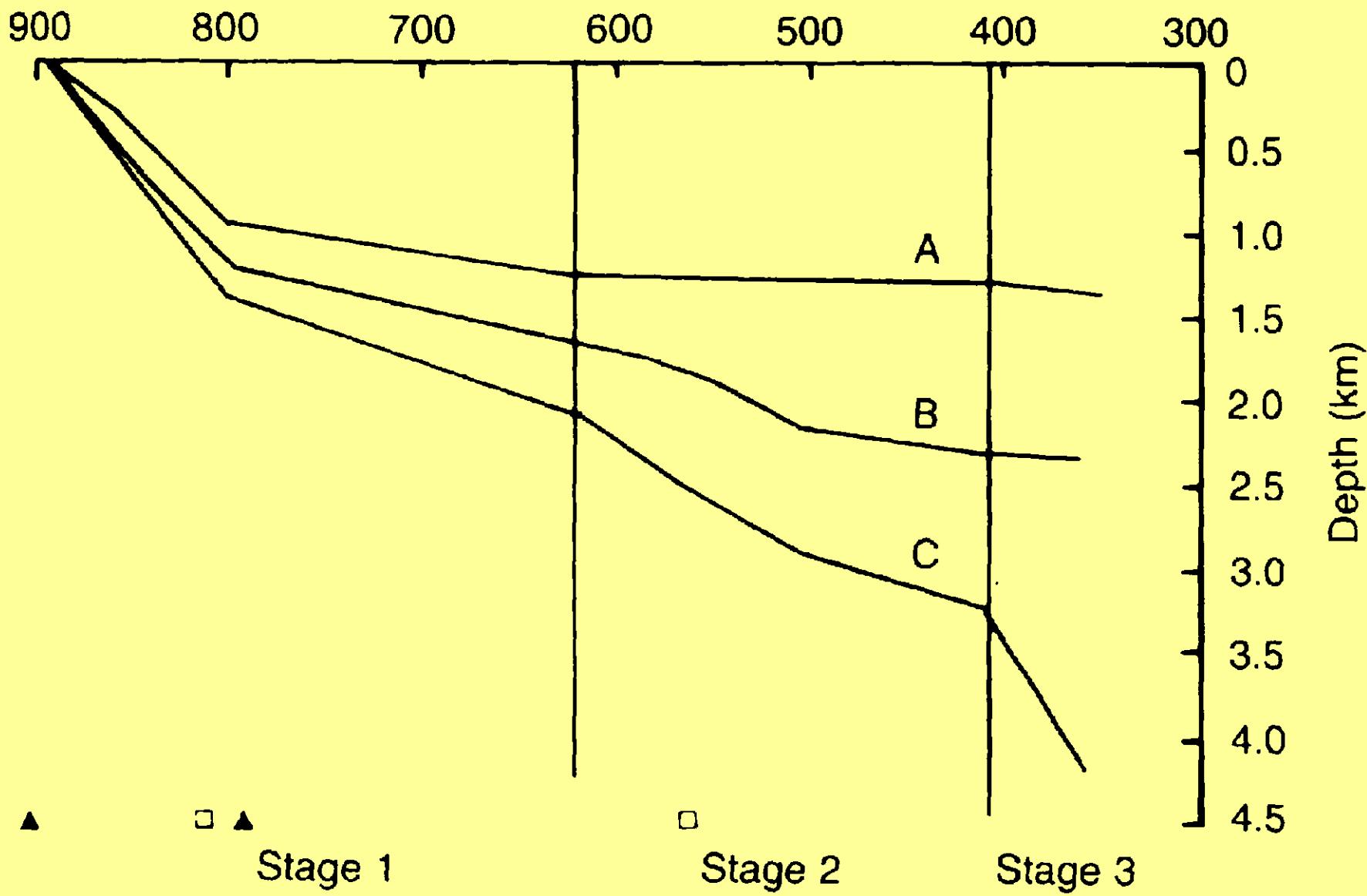


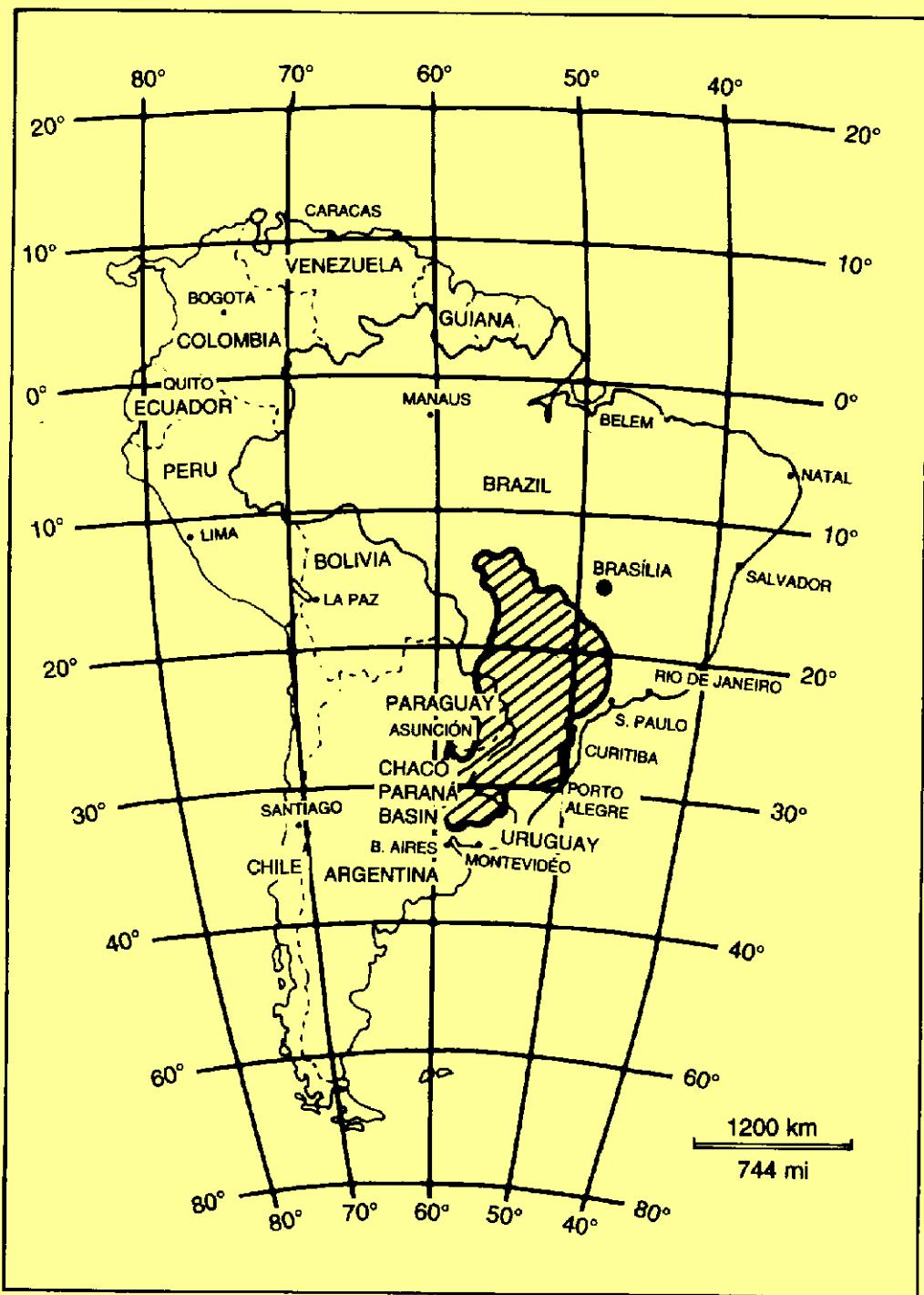
DEPTH IN METERS

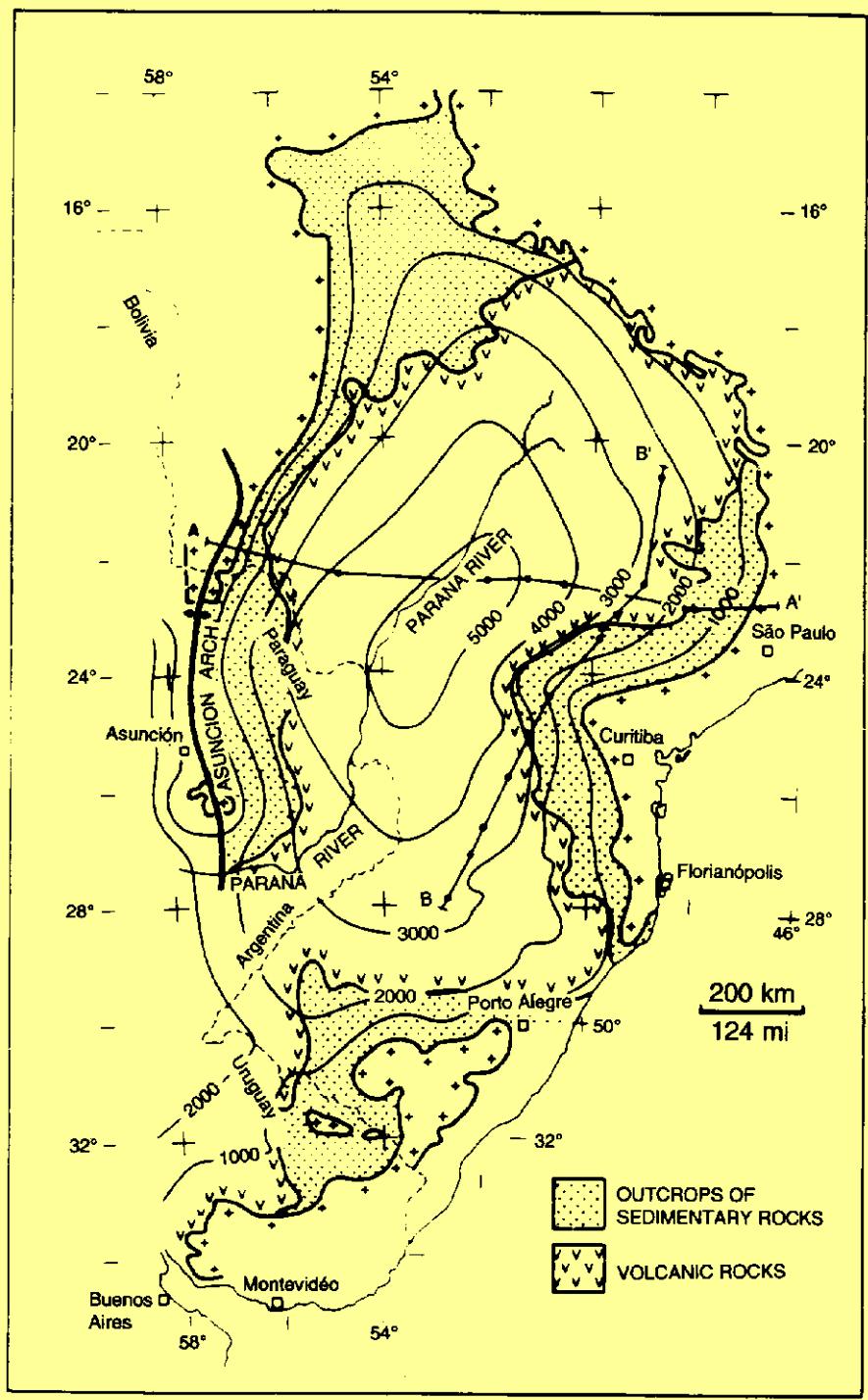




Age (Ma)







SYSTEM	SSE LITHOSTRATIGRAPHY NNW	SEA-LEVEL	TECTONIC EVENTS
CRETACEOUS	BAURU GP	R	SOUTH ATLANTIC RIFTING
JURASSIC	SERRA GERAL FM	F	PRE-RIFT
TRIASSIC	BOTUCATU FM		FINIHERCYNIAN OROGENY
PERMIAN	ROSARIO DO SUL GP PIRAMBOIA FM TERESINA/RIO DO RASTO FMs IRATI FM		TARDIHERCYNIAN OROGENY
CARBONIFEROUS	RIO BONITO FM ITARARE GP AQUIDAUANA FM		EOHERCYNIAN OROGENY
DEVONIAN	PONTA GROSSA FM		
SILURIAN	FURNAS FM		
ORDOVICIAN	VILA MARIA FM RIO IVAI FM		CALEDONIAN OROGENY

