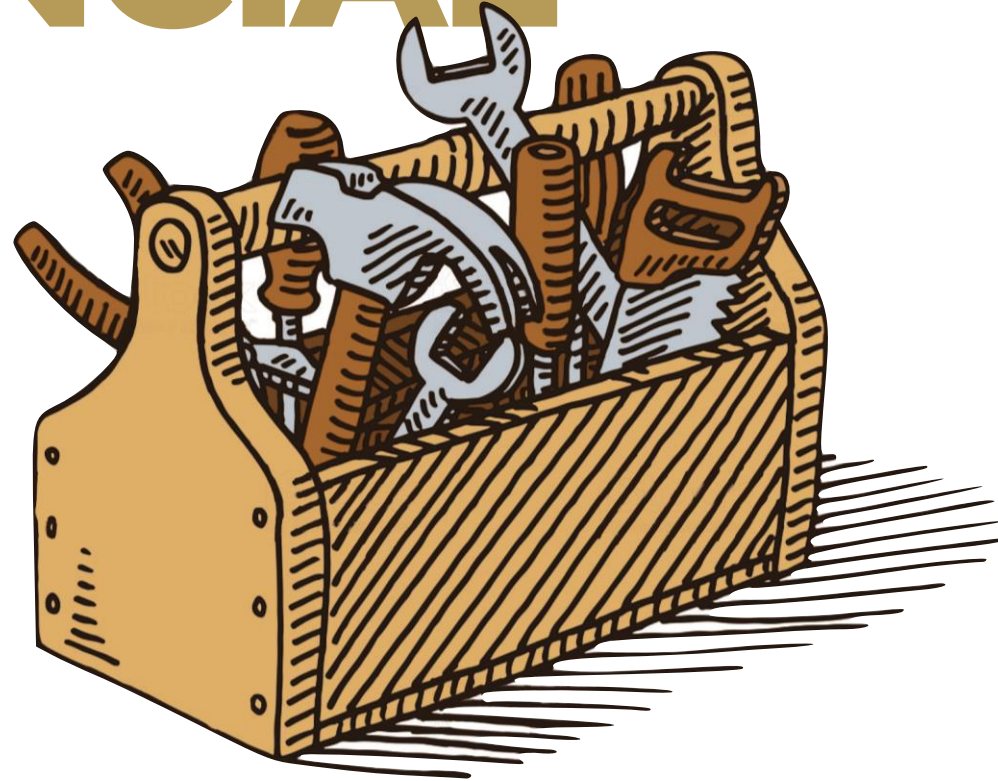


- Patrones estatales.
- Superficies estratigráficas.

"La estratigrafía es el triunfo de la terminología sobre los hechos y el sentido común"

Paul Krynine

ESTRATEGIA SECUENCIAL



Cómo descifrar el origen de los patrones sedimentarios de las cuencas?



LA REVOLUCIÓN

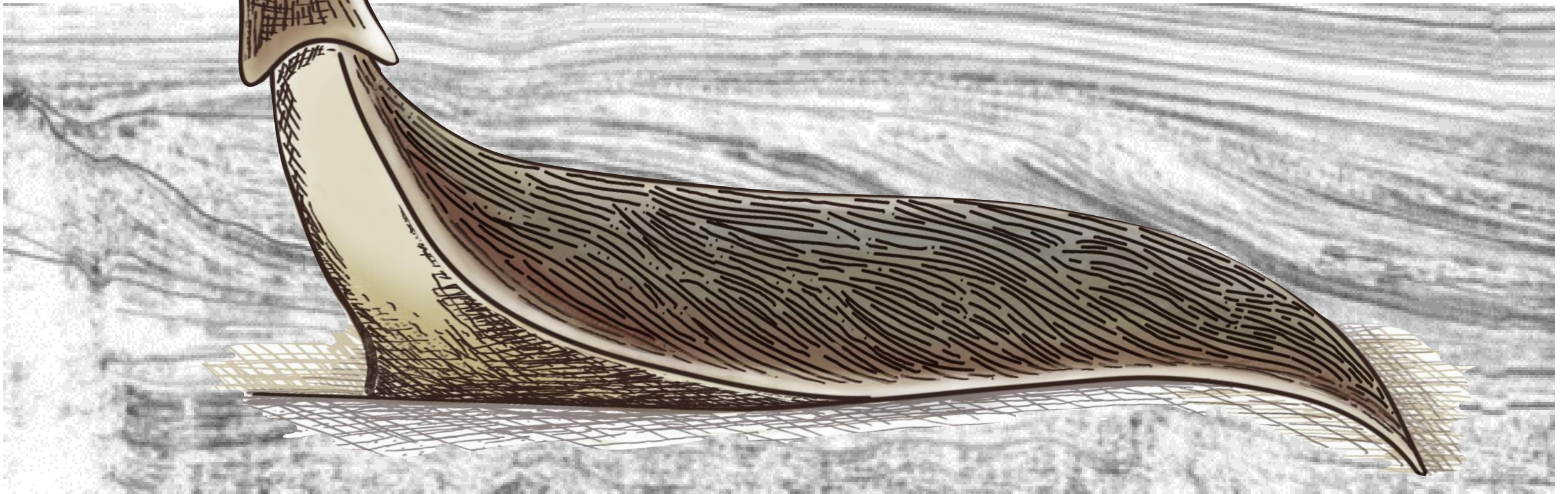


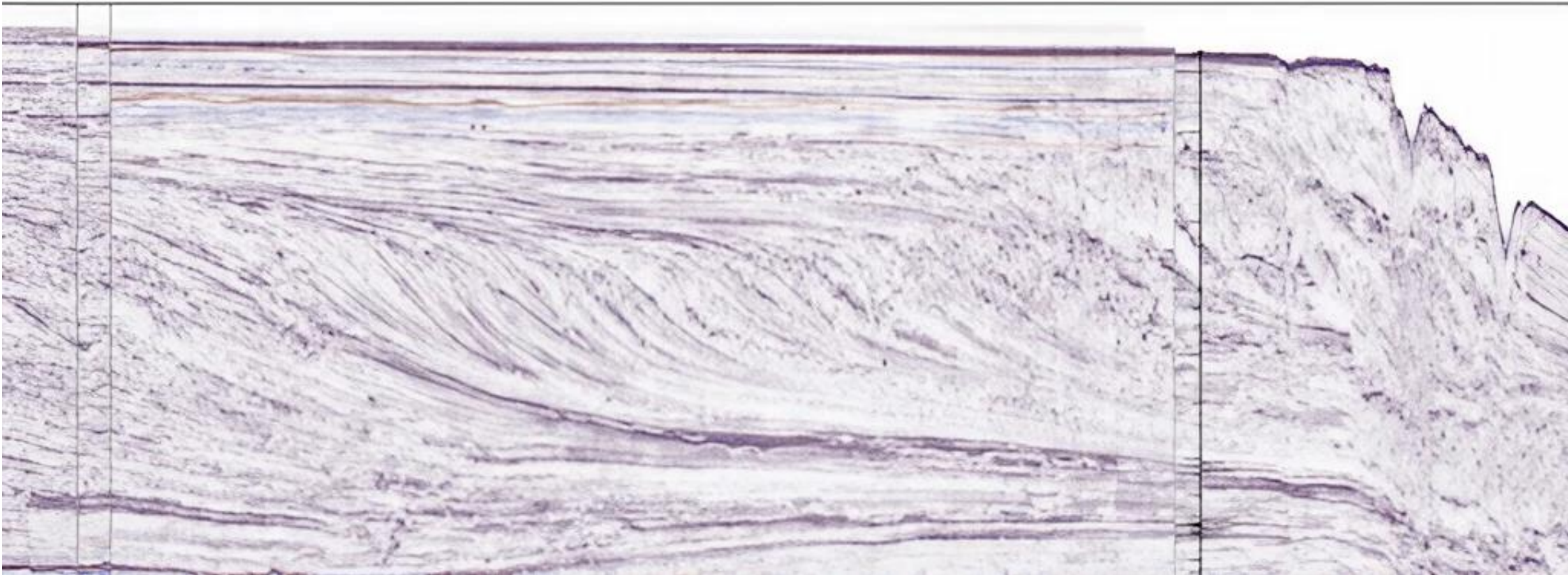
SEA LEVEL

f (nivel del mar) = Relleno de cuencas

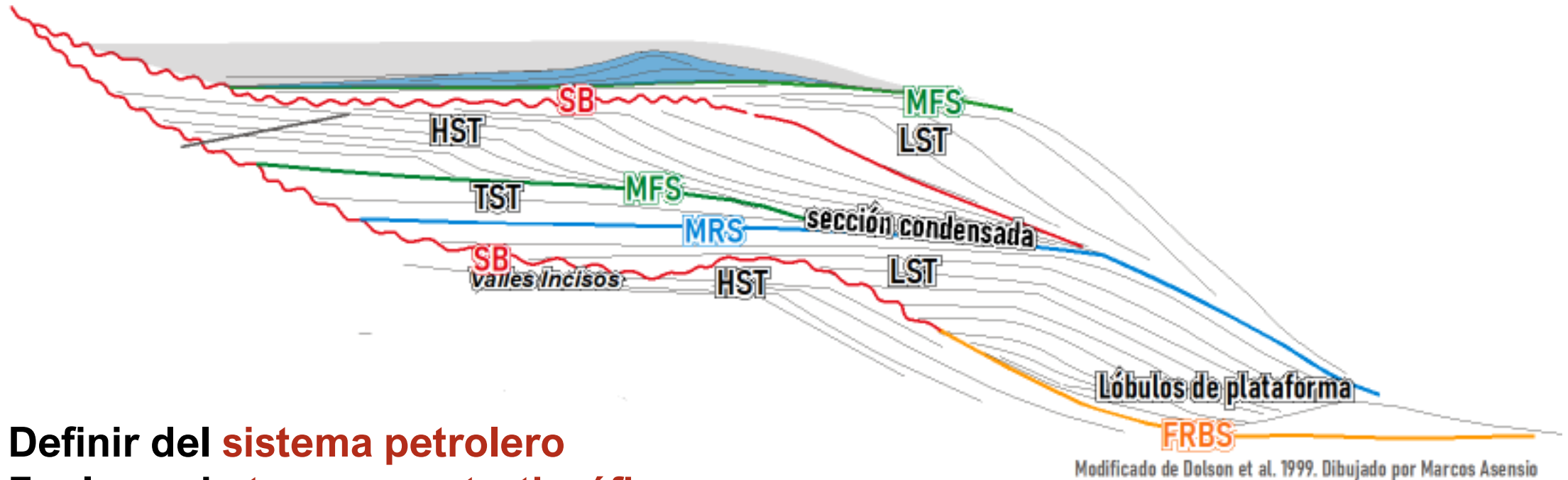
El cambio en el nivel del mar dió una visión más integral de la historia tectónica y climática de la tierra.

Así nació una nueva forma de analizar el relleno sedimentario de las cuencas



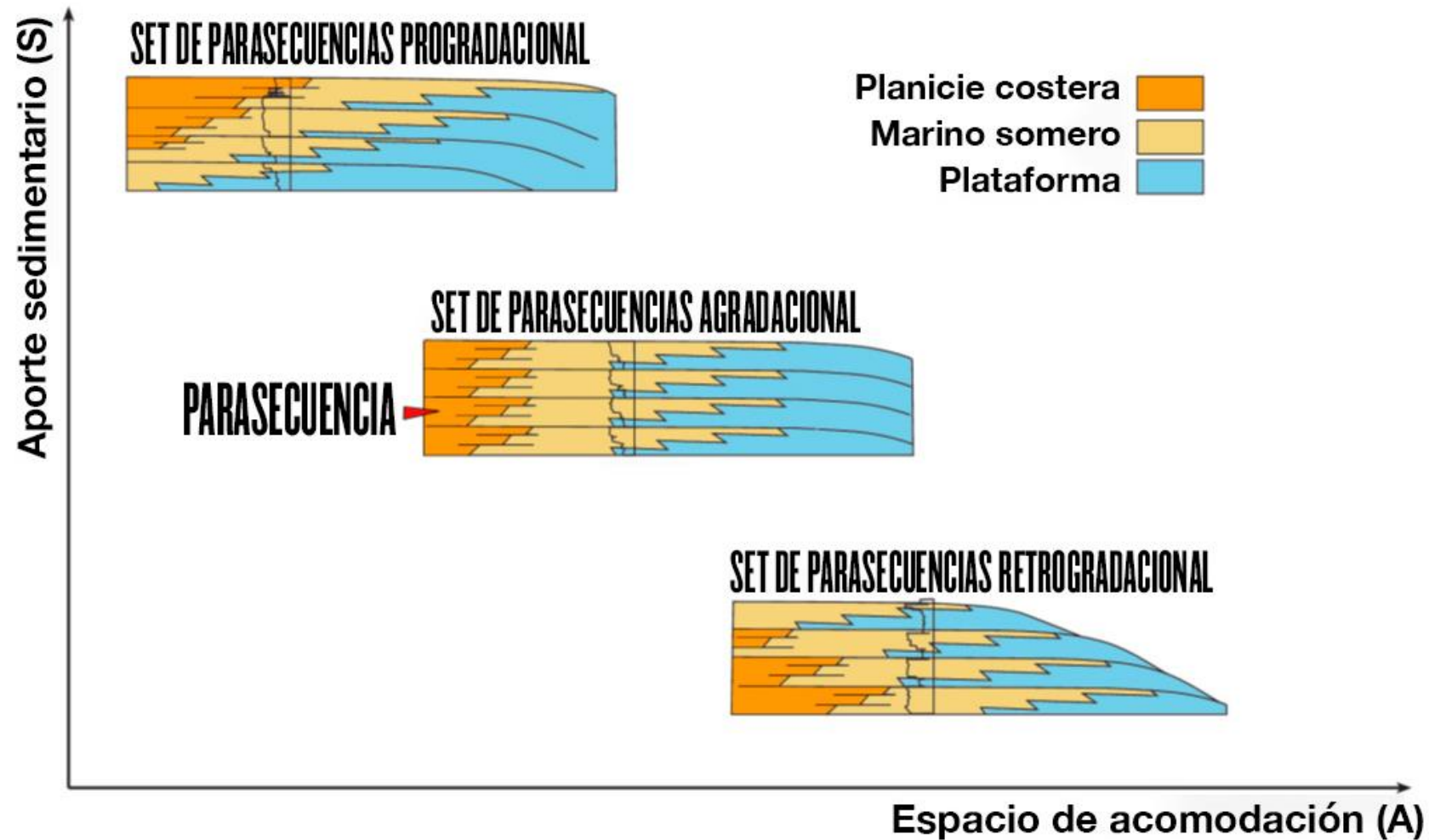


UNA CAJA DE HERRAMIENTAS

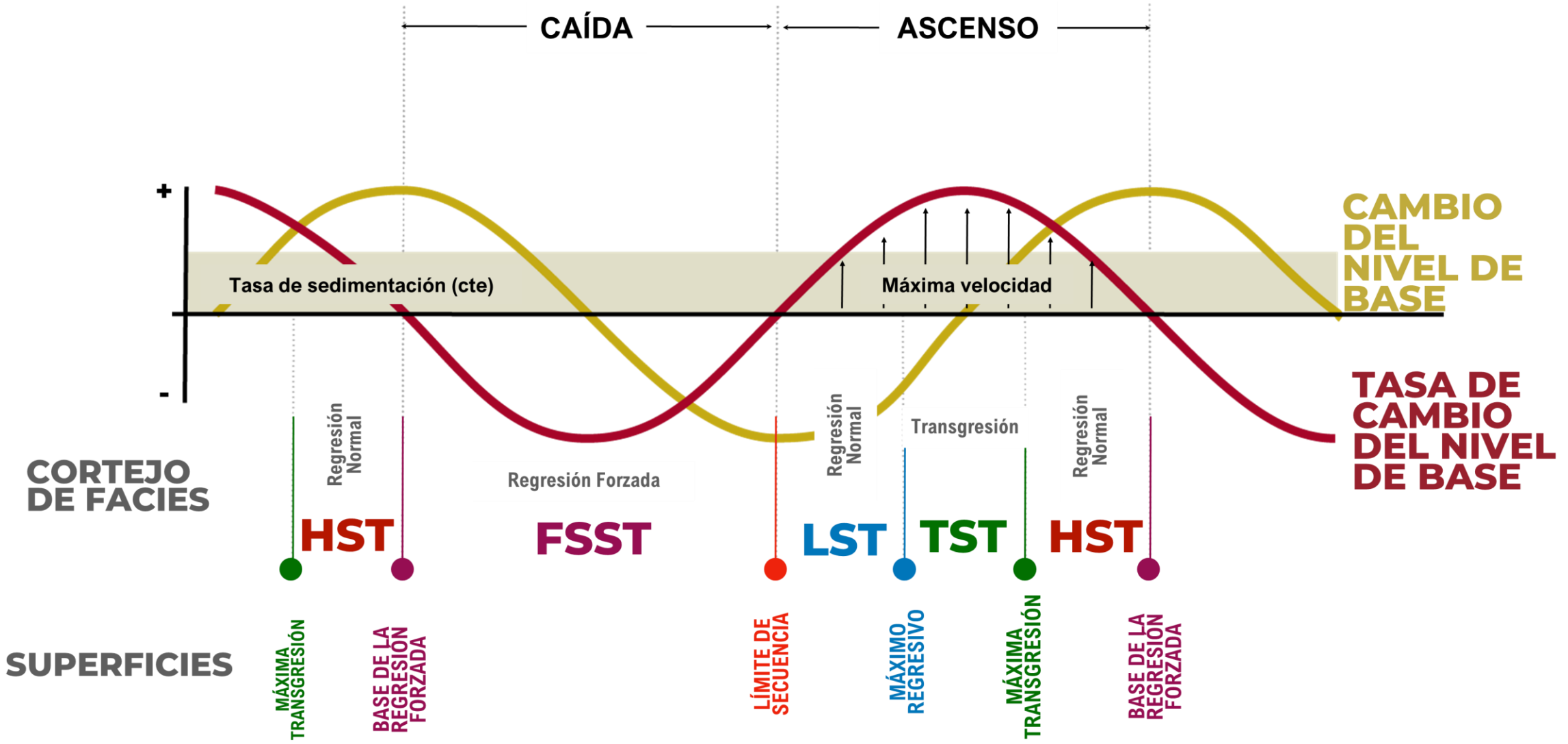


Modificado de Dolson et al. 1999. Dibujado por Marcos Asensio

- // Definir del **sistema petrolero**
- // Explorar de **trampas estratigráficas**
- // Determinar **heterogeneidades**
- // Definir **incertidumbres** y disminuir **riesgos**



El análisis **ESTRATIGRÁFICO SECUENCIAL** requiere el entendimiento básico de los cambios De la **TASA DE APORTE SEDIMENTARIO** y del **ESPACIO DE ACOMODACIÓN**.



CORTEJO DE FACIES

SUPERFICIES

Tasa de sedimentación (cte)

CAÍDA

ASCENSO

CAMBIO DEL NIVEL DE BASE

TASA DE CAMBIO DEL NIVEL DE BASE

HST

FSST

LST

TST

HST

MÁXIMA TRANSGRESIÓN

BASE DE LA REGRESIÓN FORZADA

LÍMITE DE SECUENCIA

MÁXIMO REGRESIVO

MÁXIMA TRANSGRESIÓN

BASE DE LA REGRESIÓN FORZADA

Regresión Normal

Regresión Forzada

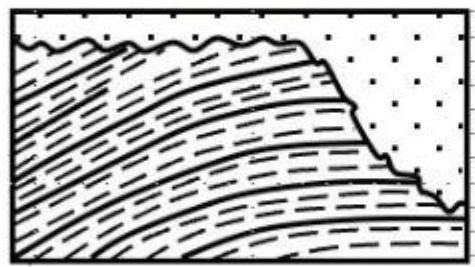
Regresión Normal

Transgresión

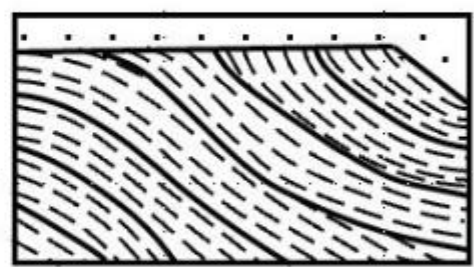
Regresión Normal

Máxima velocidad

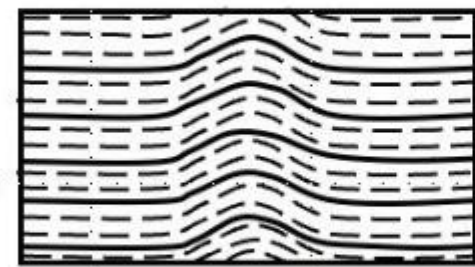
UPPER BOUNDARY



1. Erosional Truncation
(Te)



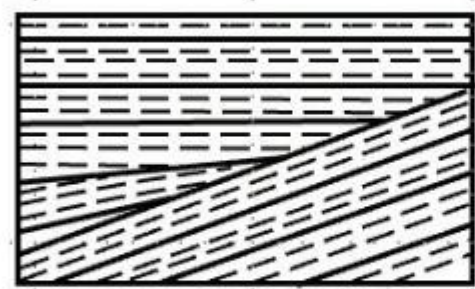
2. Toplap (Tp)



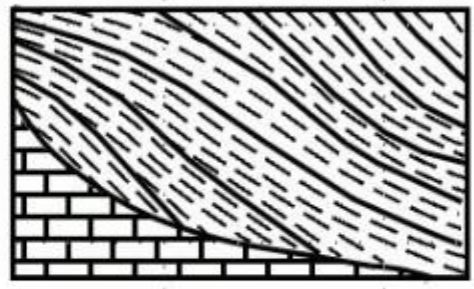
3. Concordance (C)

Sequence
Boundary

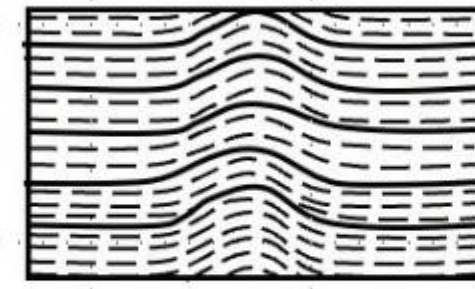
LOWER BOUNDARY



1. Onlap



2. Downlap

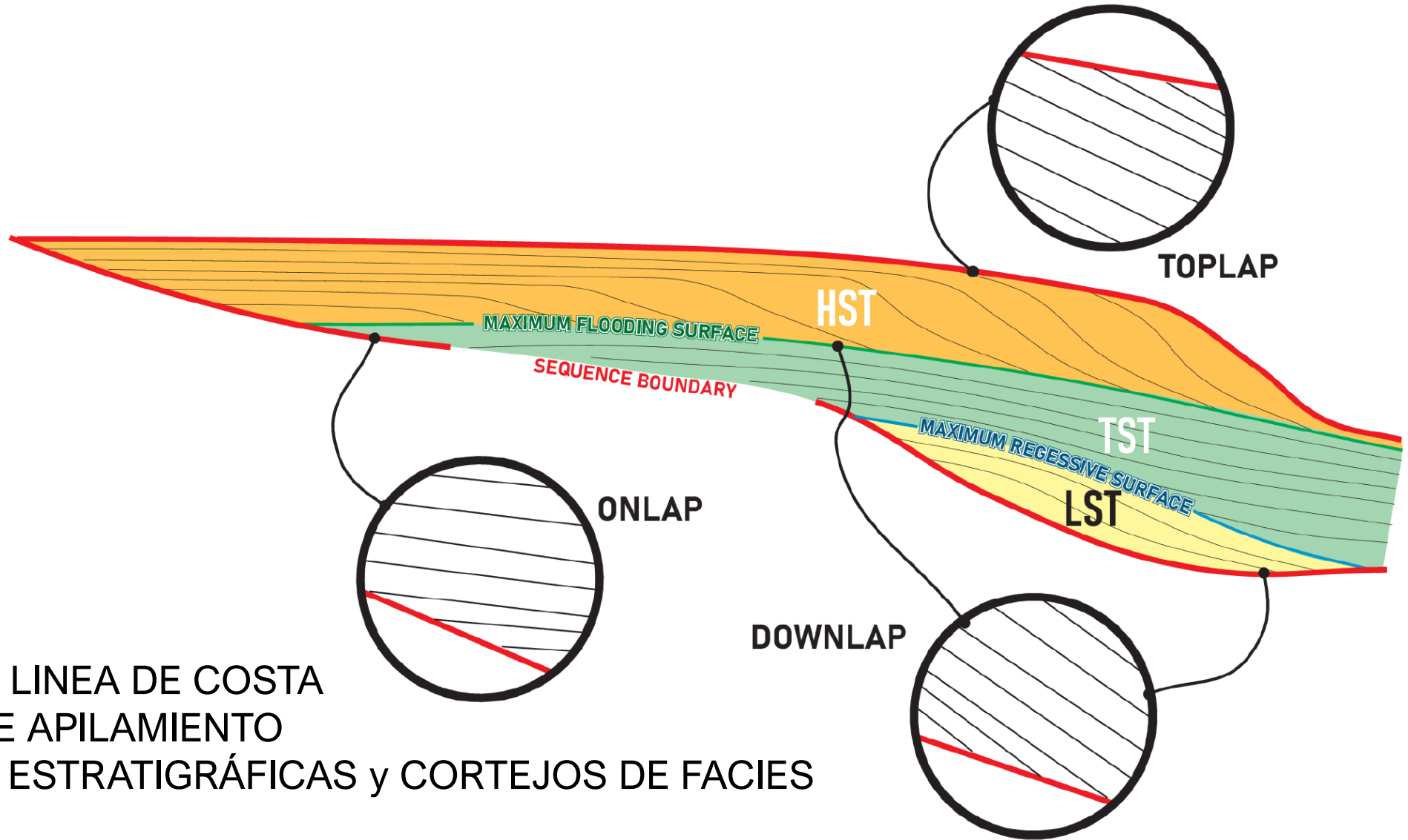


3. Concordance

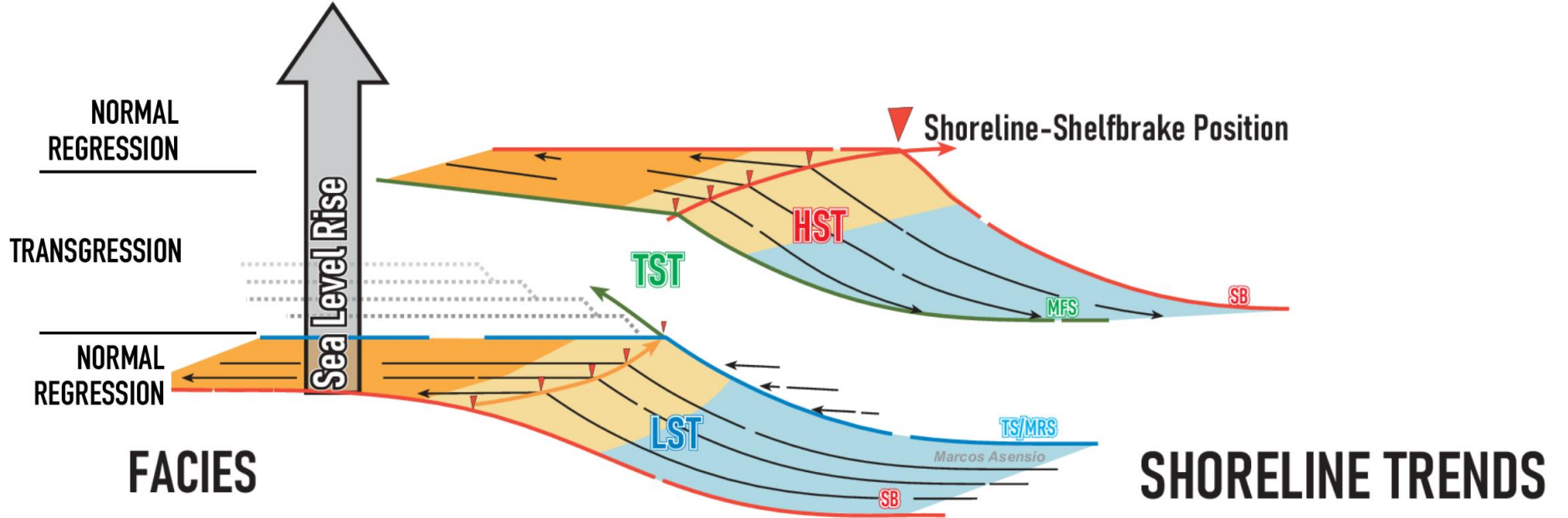
Sequence
Boundary

Baselap

TERMINACIONES ESTRATALES



- // Cambios en la LINEA DE COSTA
- // PATRONES DE APILAMIENTO
- // SUPERFICIES ESTRATIGRÁFICAS y CORTEJOS DE FACIES



FACIES

- Continental to Shallow Facies
- Shelf Facies
- Offshore Facies

SHORELINE TRENDS

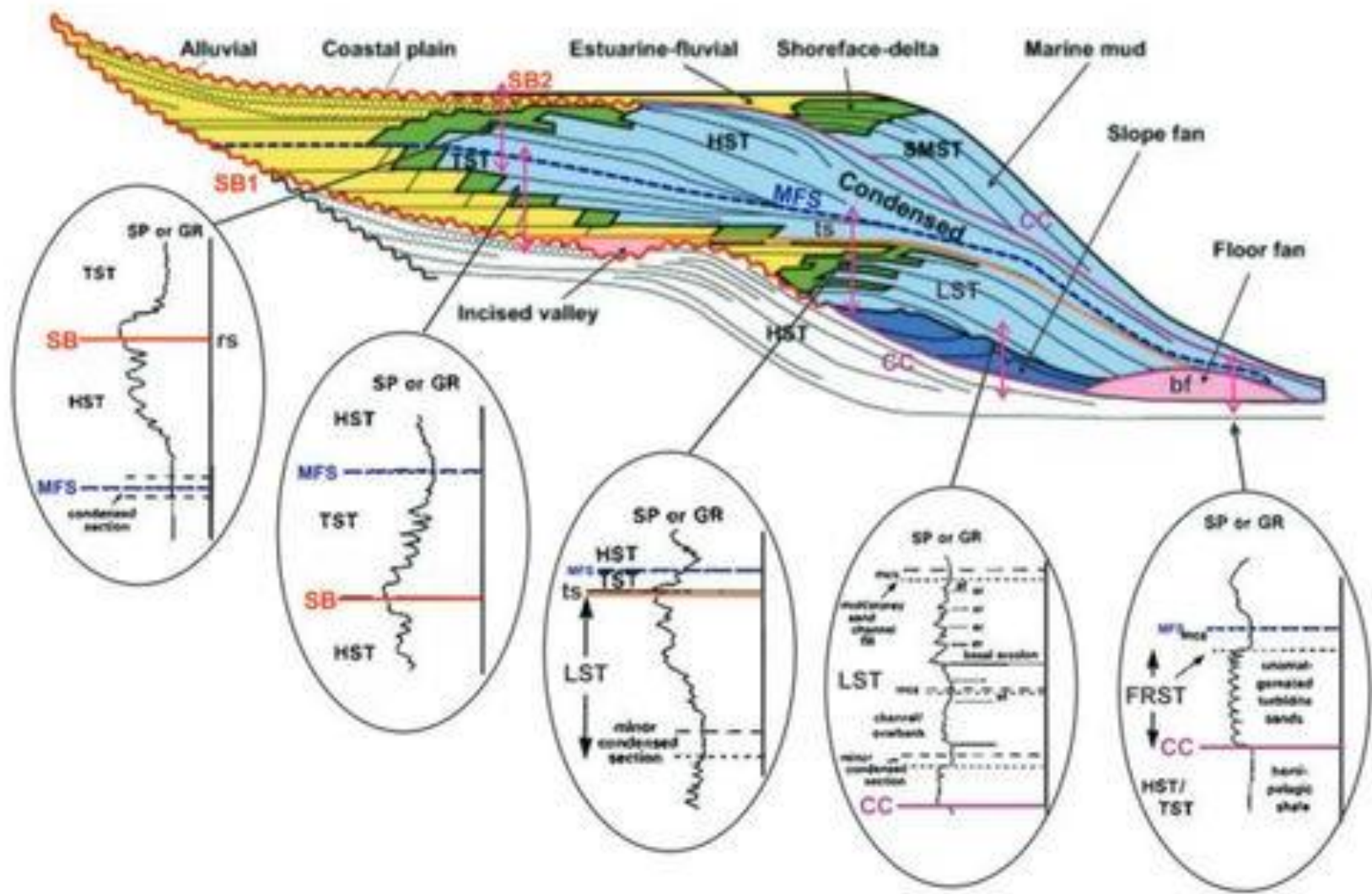
- Aggradation-Progradation
- Retrogradation
- Progradation-Aggradation

CRONOSTRATIGRAPHIC SURFACES

- MFS Maximum Flooding Surface
- MRS/TS Maximum Regressive Surface- Transgressive Surface
- SB Sequence Boundary

SYSTEM TRACT

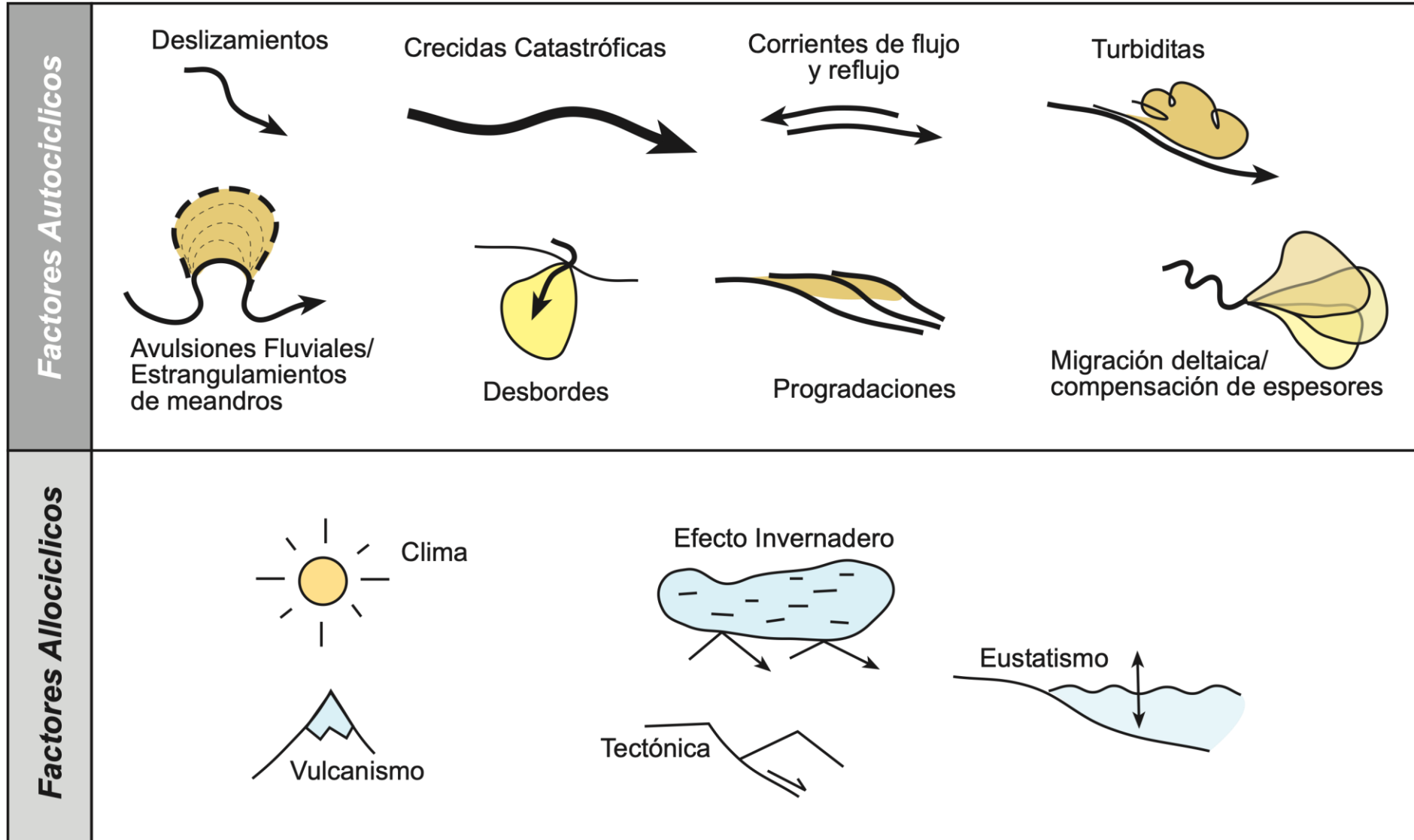
- HST Highstand System Tract
- TST Transgressive System Tract
- LST Lowstand System Tract



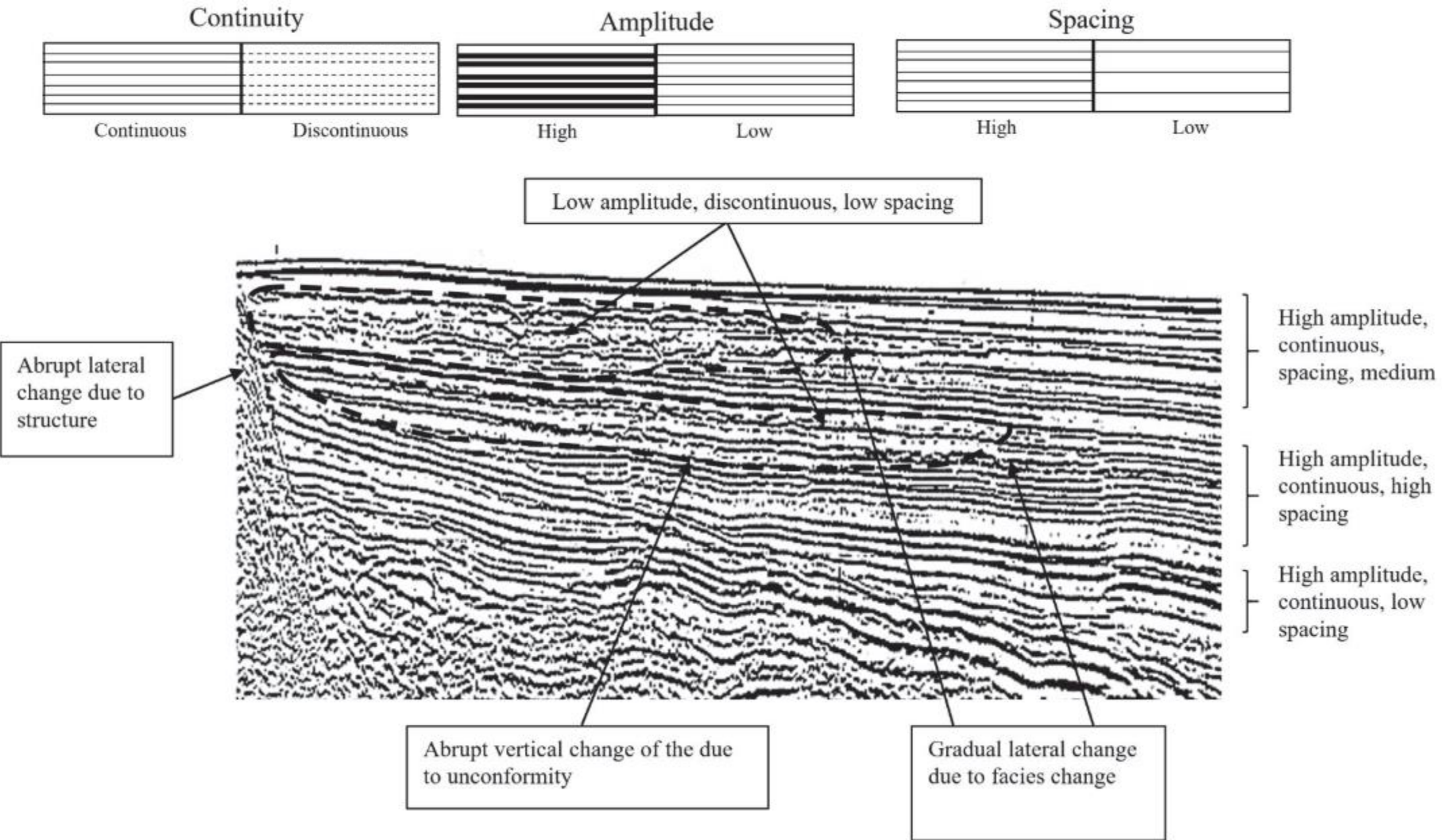


CON TROS LES

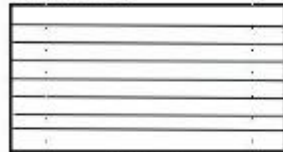
FACTORES DE CONTROL ESTRATIGRÁFICO



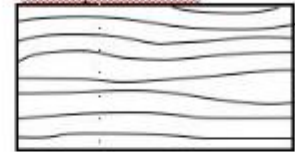
INTER PRETA CIÓN



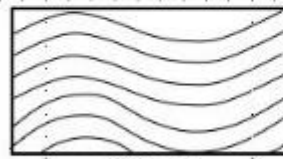
Parallel



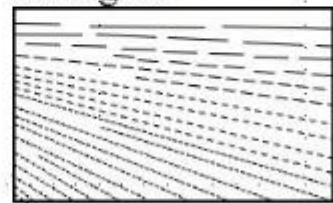
Subparallel



Even

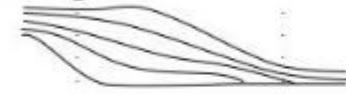


Divergent

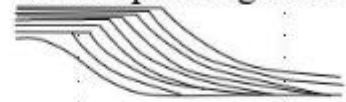


Wavy

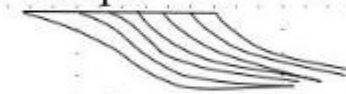
a. Sigmoid



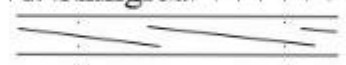
d. Complex Sigmoid-Oblique



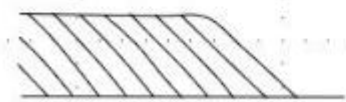
Oblique



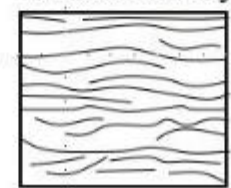
e. Shingled



b. Tangential



f. Hummocky Clinoforms



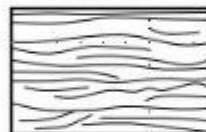
c. Parallel



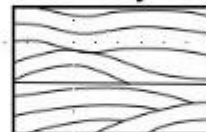
Even



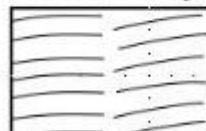
Wavy



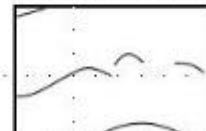
Hummocky



Lenticular



Disrupted

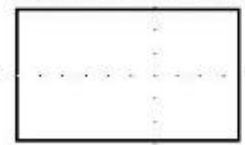


Contorted

Chaotic



Reflection-Free



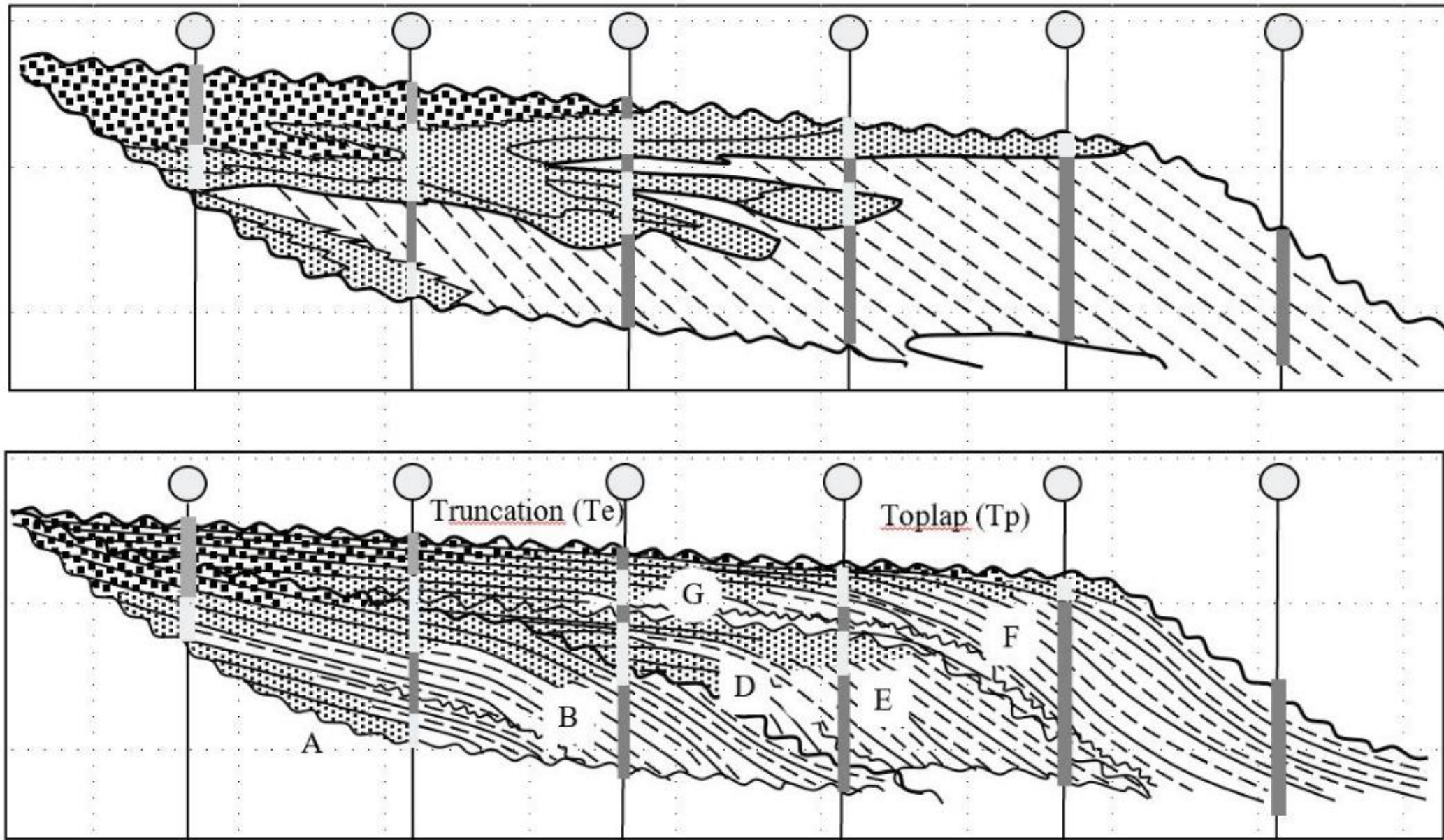


Figure 3.8. Comparison of: (a) Lithostratigraphy (above) and (b) Chronostratigraphy (below) correlation

