

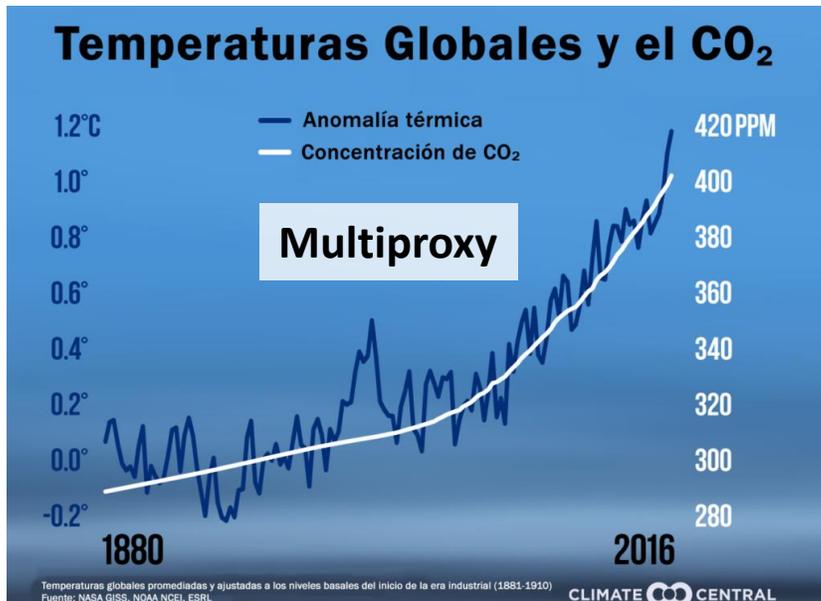
# Impacto del óptimo climático del Eoceno medio en las floras del extremo sur de América

Damián A. Fernández

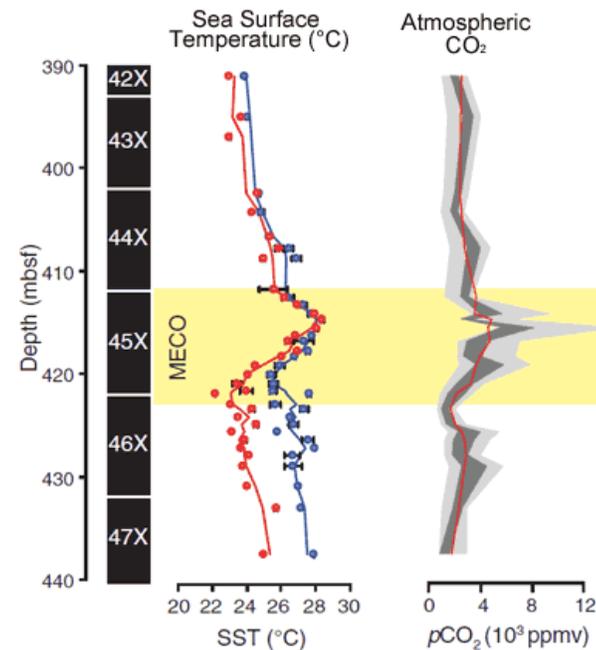




# Presente

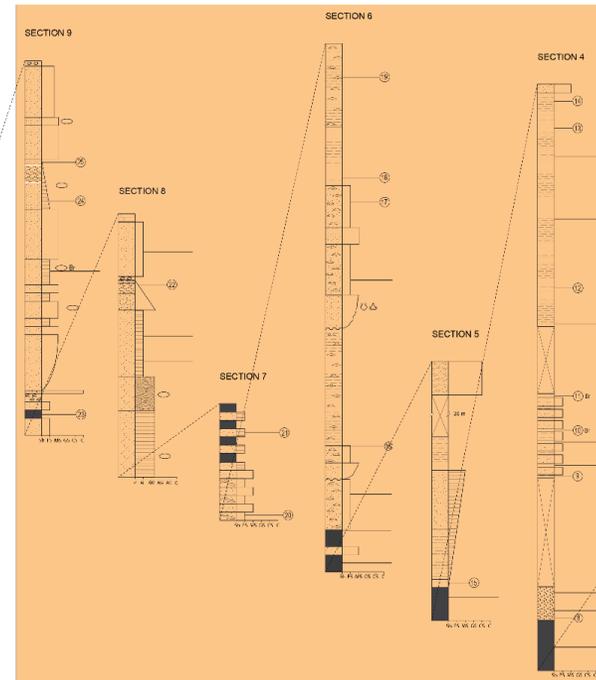
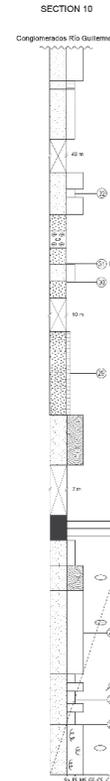
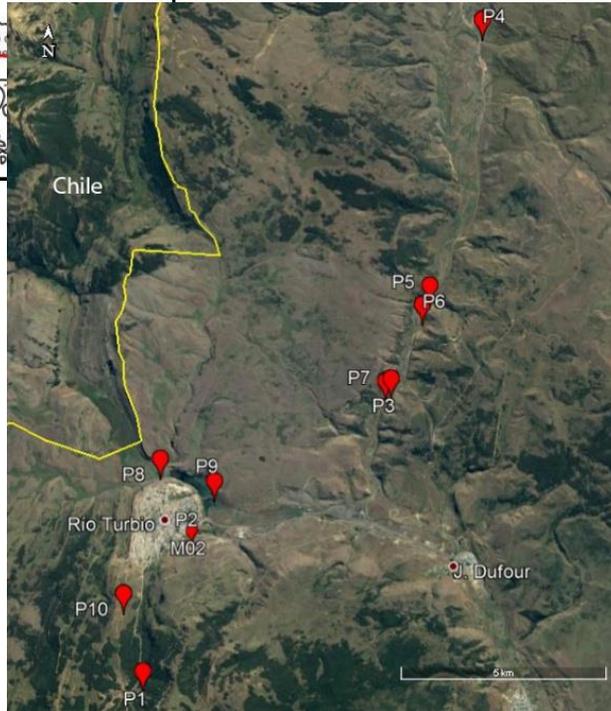
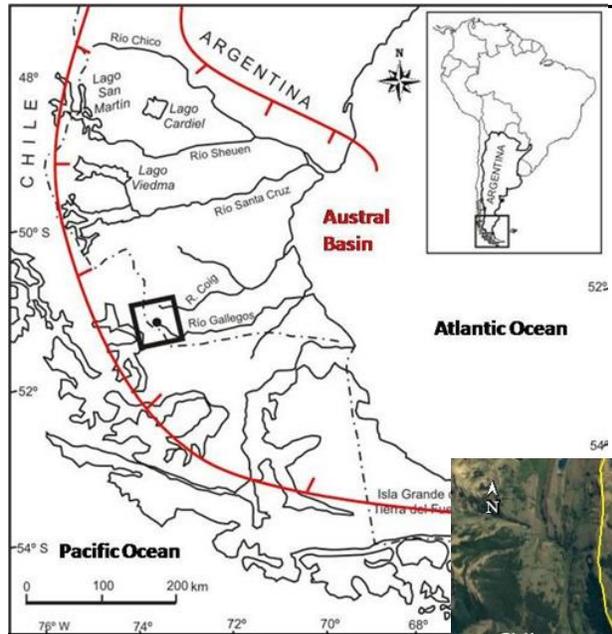


# Eoceno medio



Isótopos de carbono en alquenonas producidas por algas

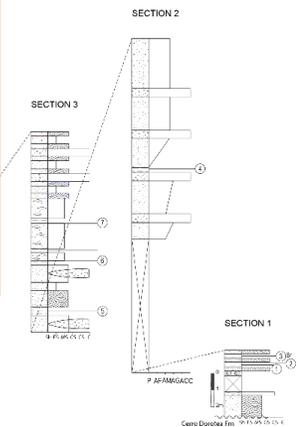
	<b>Río Turbio actualidad</b>	<b>Río Turbio Eoceno</b>	<b>Trópicos actualidad</b>
<b>Temperatura media anual (TMA)</b>	5.4 °C	20 °C	> 18°C
<b>Gradiente latitudinal (TMA)</b>	25°C	19°C	25°C
<b>CO<sub>2</sub> Atmosférico</b>	400 ppm	>500 ppm - <1000 ppm	400 ppm
<b>Insolación</b>	baja	baja	alta
<b>Precipitación media anual</b>	401 mm	1000 – 1800 mm	>1800 mm
<b>Horas de luz (verano vs invierno)</b>	18 hs vs 8 hs	18 hs vs 8 hs	12.30 hs vs 11.30 hs
<b>Estacionalidad</b>	alta	baja	baja



REFERENCES

Conglomerate	Coquina	Massive bedding	Sample not included in this study
Gravelly sandstone	Limestone	Trough cross bedding	Bivalve
Sandstone	Coal	Tabular cross bedding	Shark teeth
Carbonaceous sandstone	Covered	Fossil leaves	MECO
Siltstone	Carbonatic concretion	Br Vegetal fragments	
Carbonaceous siltstone	Concretion	Bioturbation	
Shale	Flaser bedding	Unconformity	
Carbonaceous shale	Lenticular bedding	Sample	

## *Enneadocysta dictyostila*





P1

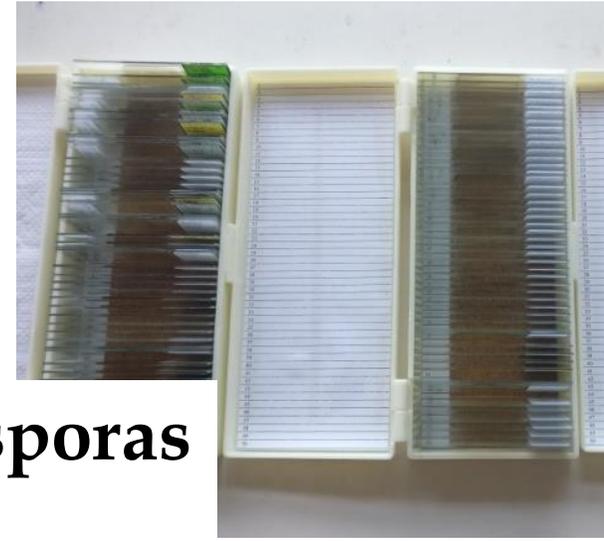
P1

P10

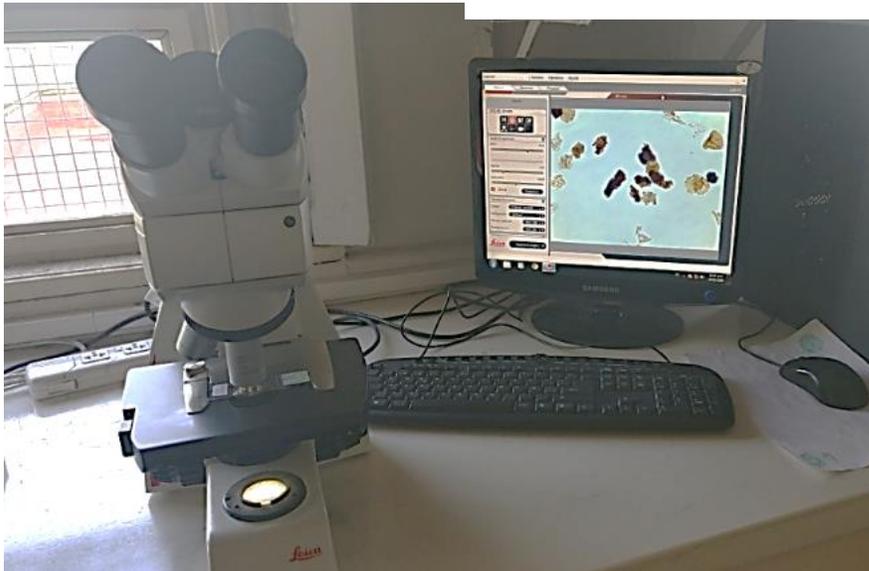
P5

P6

P9



**11500 granos de polen y esporas  
9500 dinoquistes**



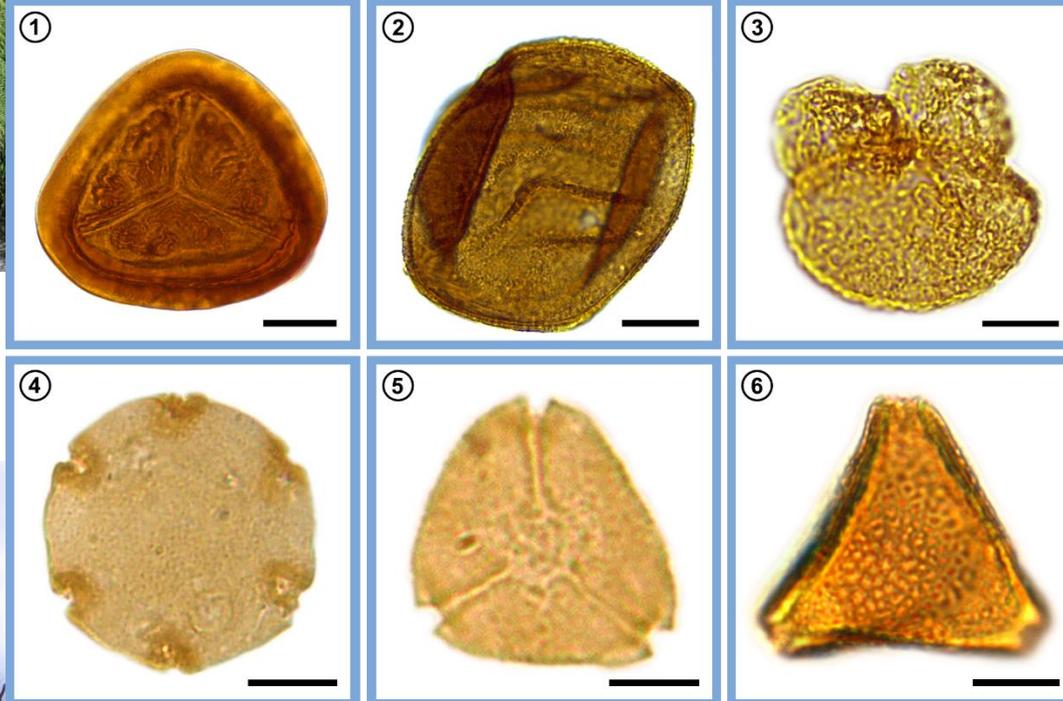
**32 x 117**

*Lophosoria quadripinnata*



*Araucaria araucana*

*Podocarpus nubigenus*



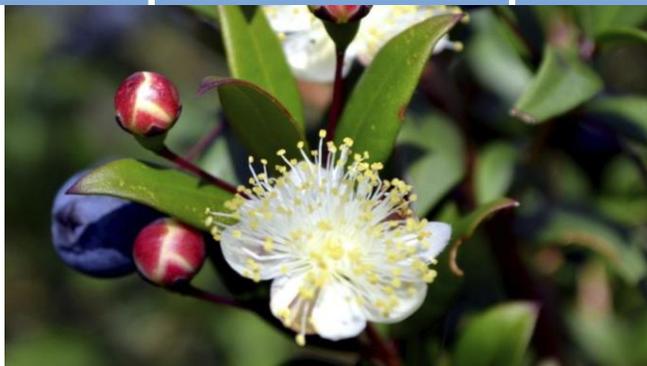
*Nothofagus*



*Lomatia hirsuta*



*Luma apiculata*

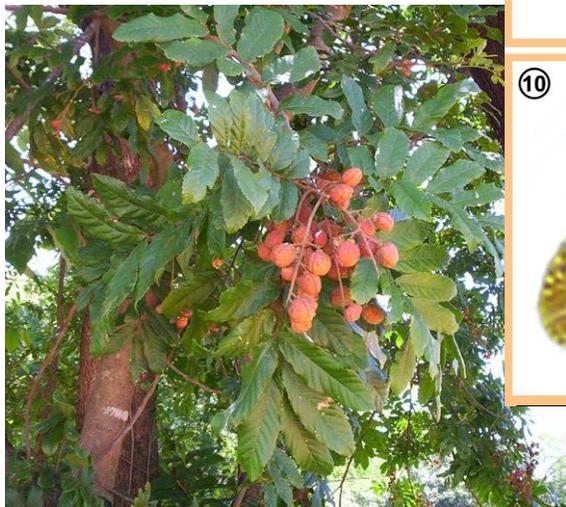


Escala = 10  $\mu$ m

Messi tomando *Ilex paraguariensis*

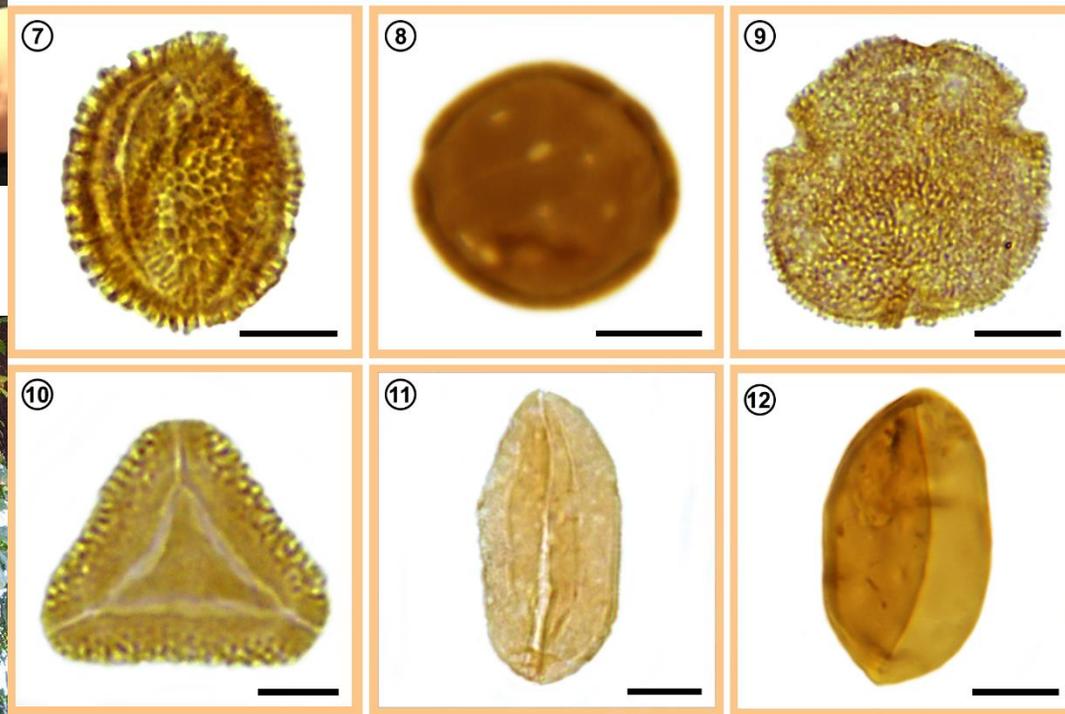
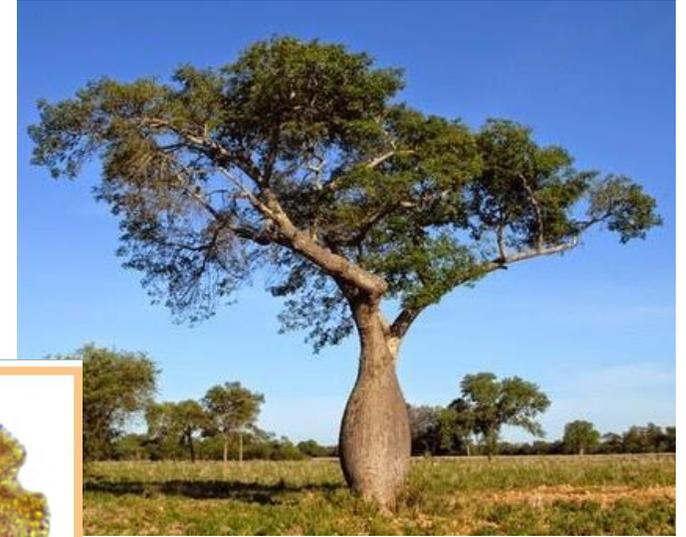


*Cupania vernalis*



*Janusia guaranítica*

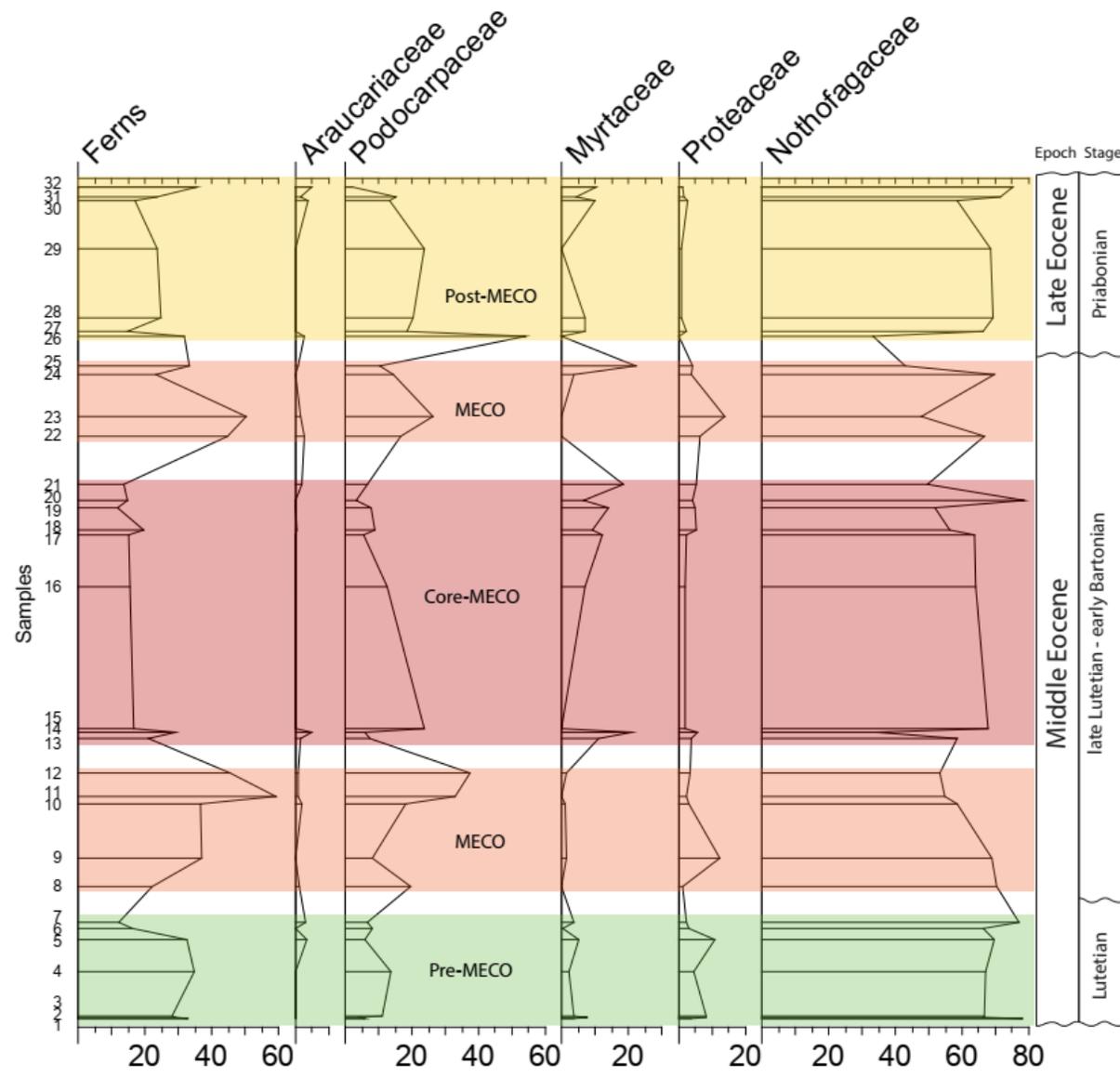
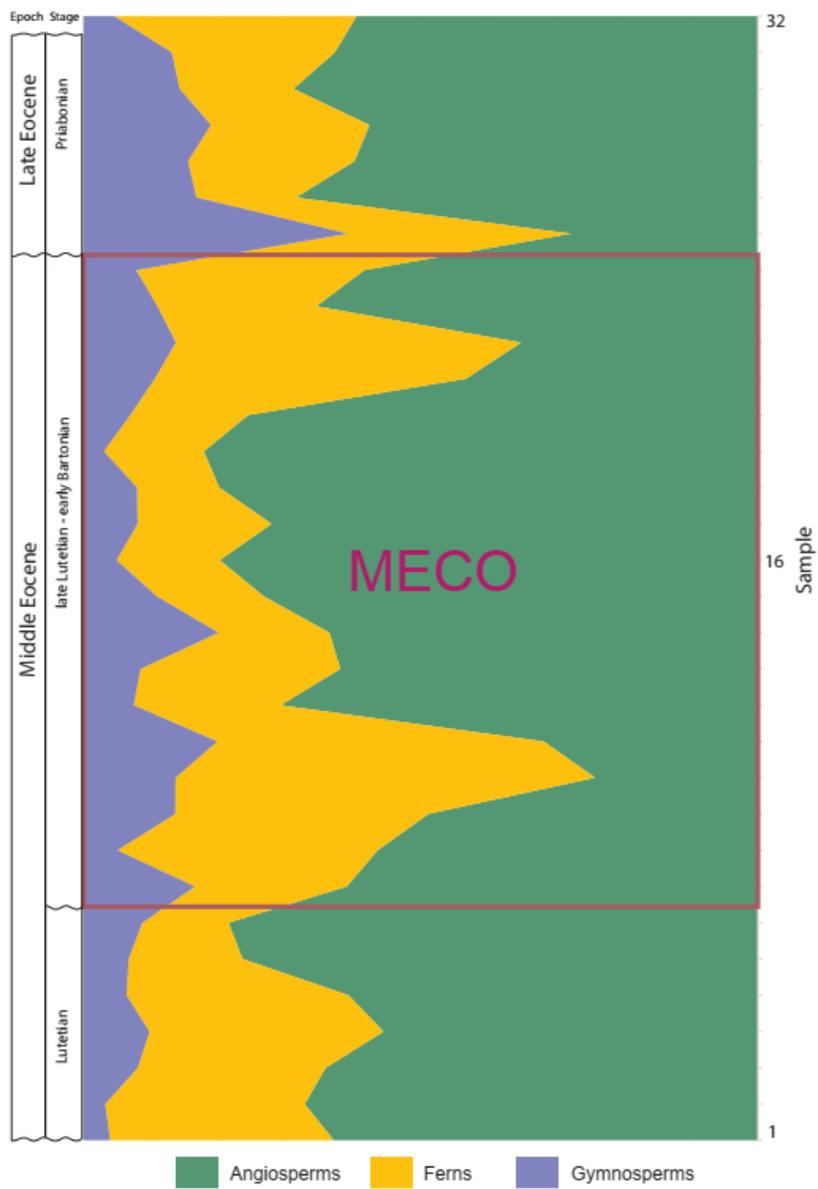
*Ceiba speciosa*

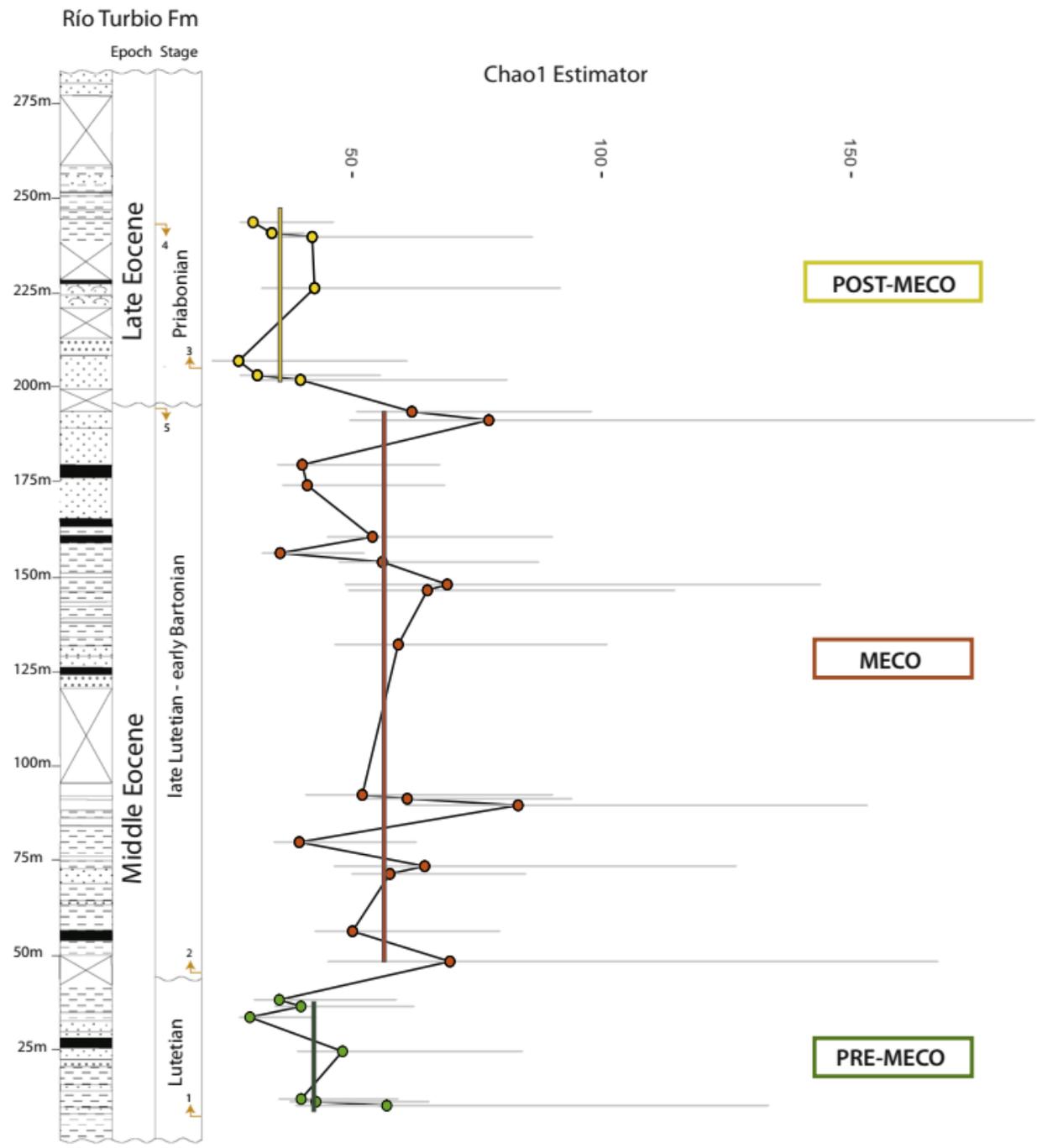


Escala = 10 µm

Palmeras









5

10

15

Number of pooled Samples



A scenic view of Ushuaia at sunset. The sky is a mix of orange, red, and purple. In the background, snow-capped mountains rise above the city. The harbor is filled with boats, and their lights are reflected in the water. In the foreground, several houses with dark roofs and white windows are visible. The overall atmosphere is peaceful and beautiful.

# ¡Gracias!

MARTÍN POCAI

Ushuaia, finales de diciembre, 23 hs.