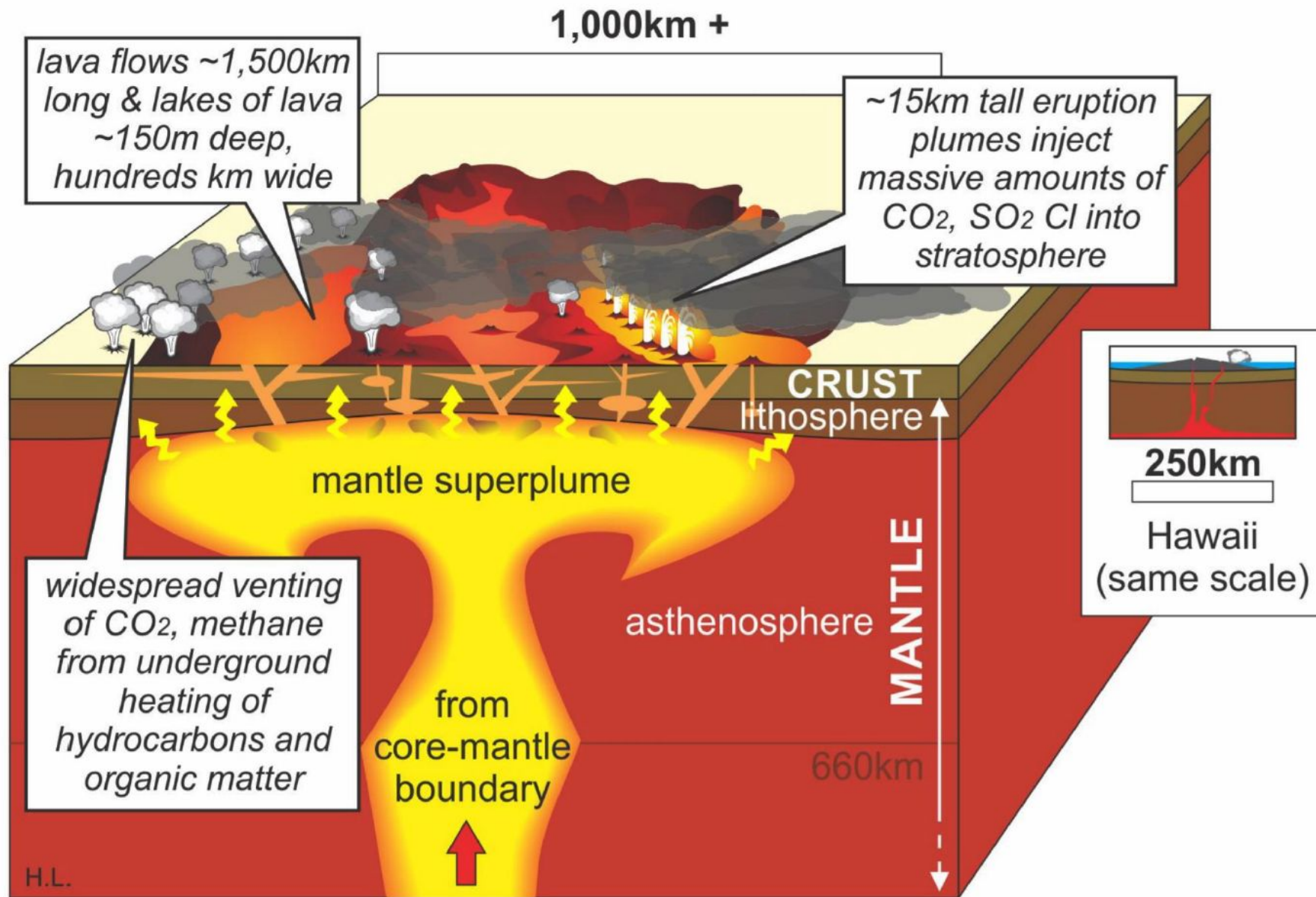
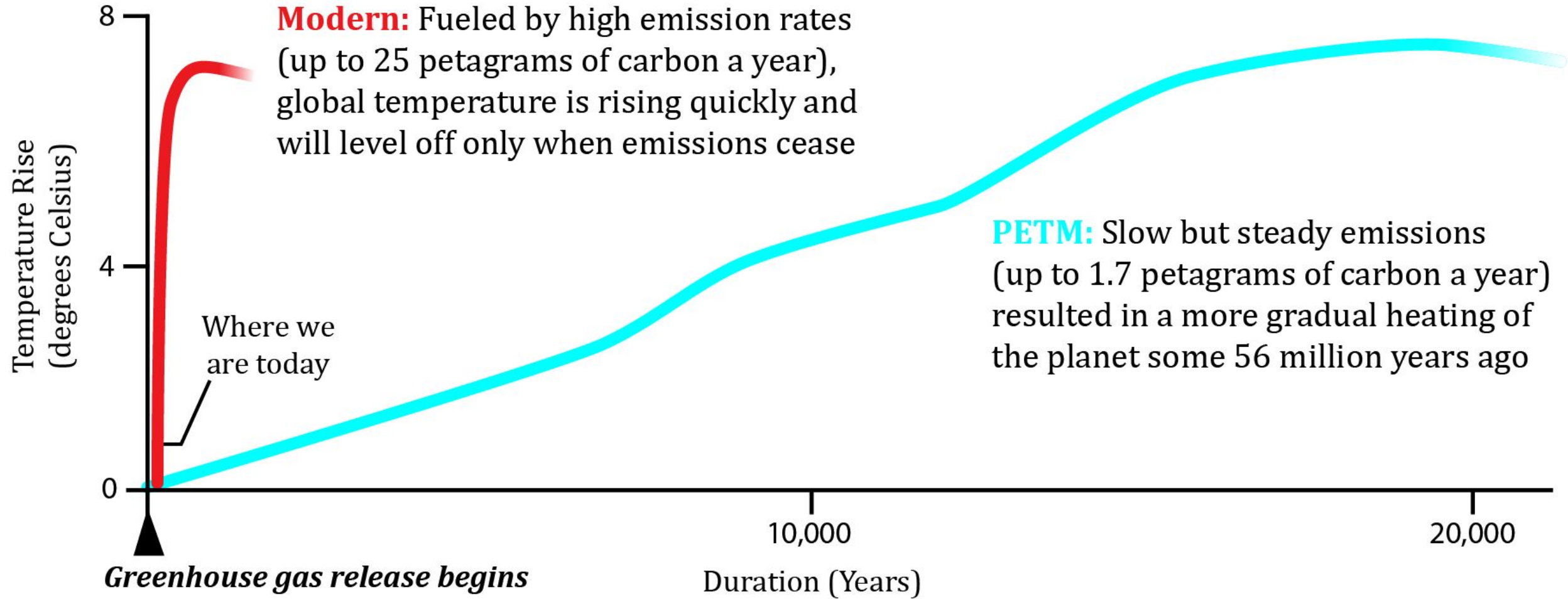


# Laval Basalts | “Igneous Provinces”

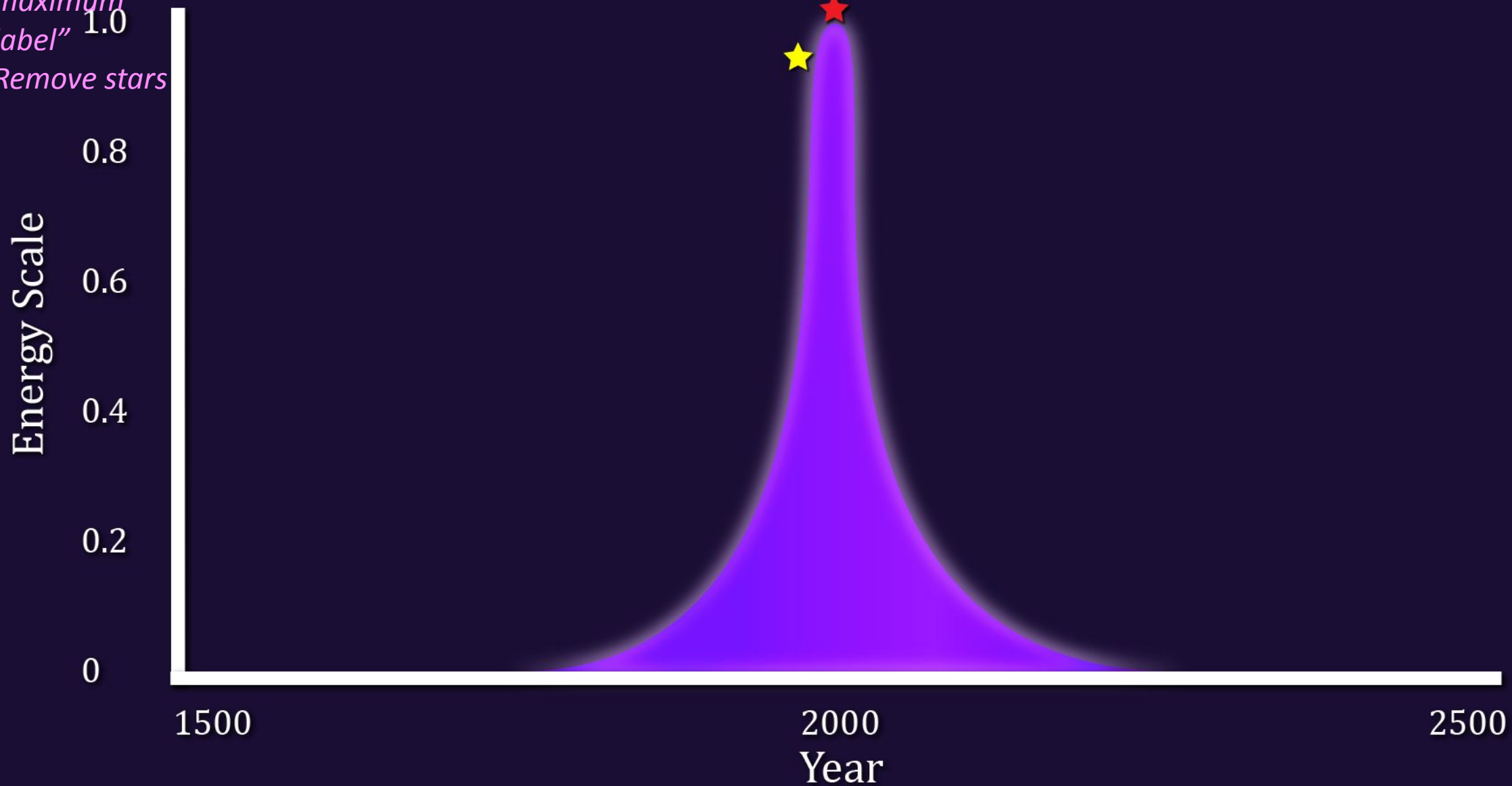


# Global temperature is rising much more quickly today than it did during the PETM



# The Carbon Pulse

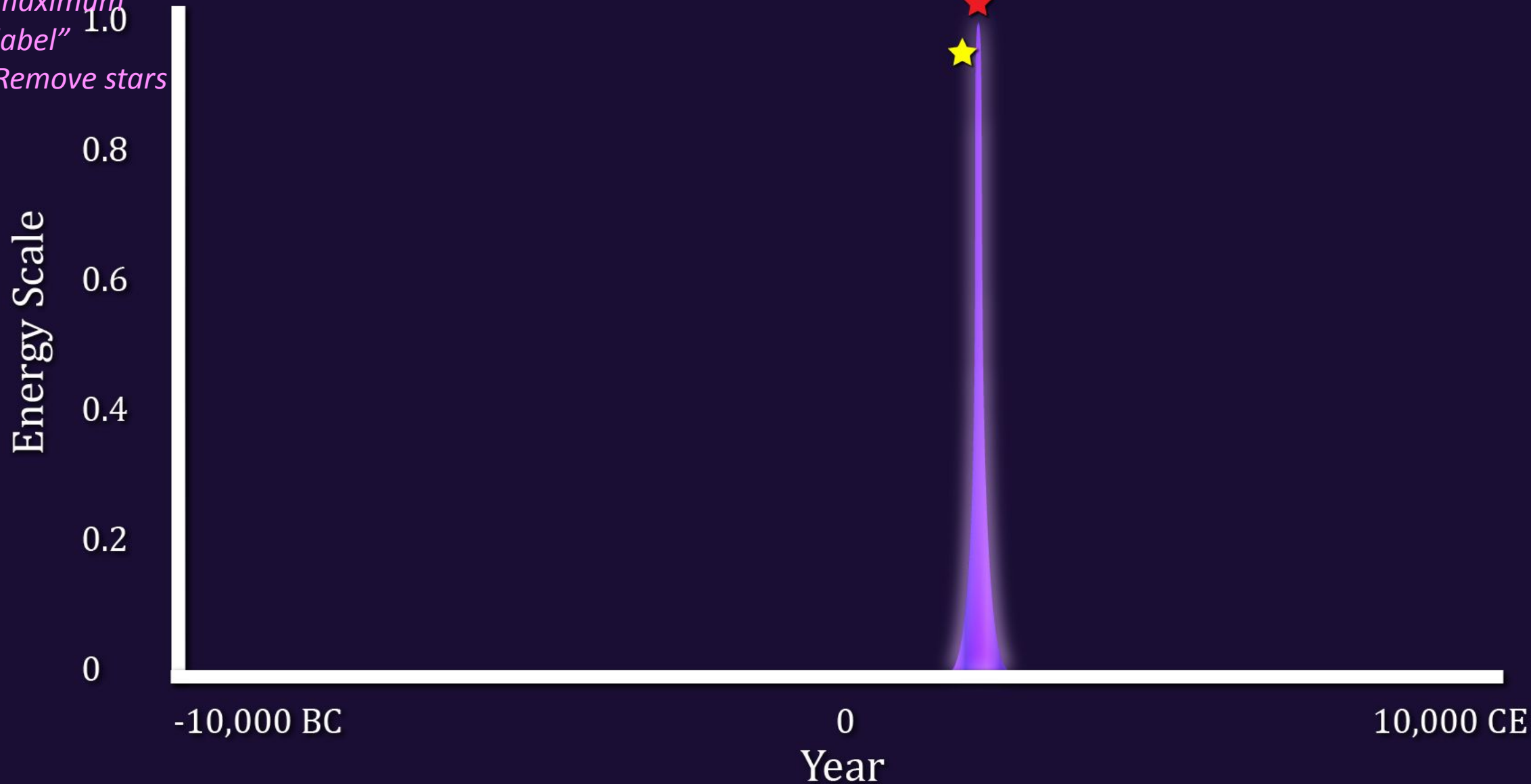
Scale changing  
to %s and “% of  
maximum  
label”  
Remove stars



# The Carbon Pulse

Scale changing  
to %s and “% of  
maximum  
label”

Remove stars



# The Carbon Pulse

Scale changing  
to %s and “% of  
maximum  
label”

Remove stars

Widen line

Energy Scale

1.0

0.8

0.6

0.4

0.2

0

-500,000 BC

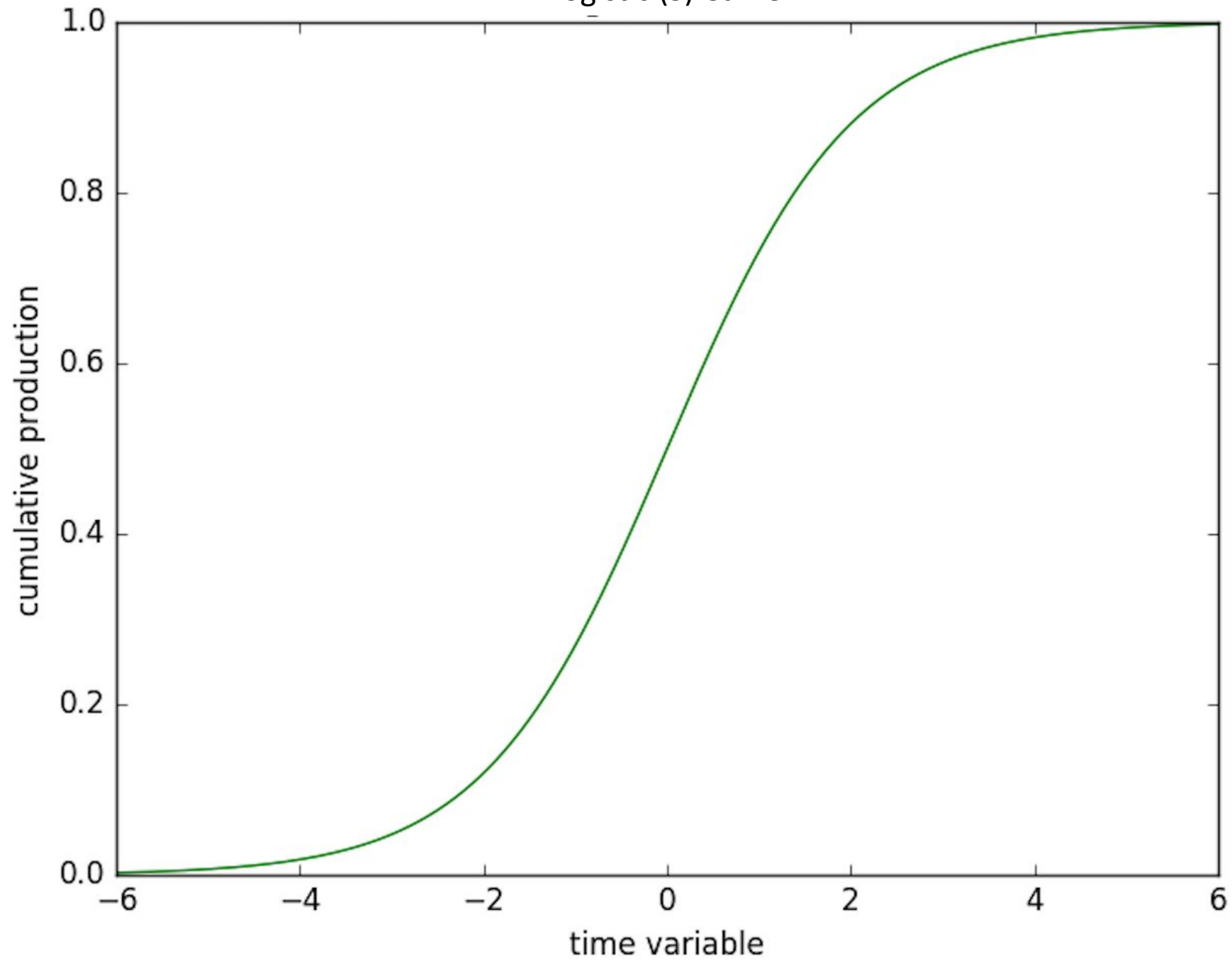
0

500,000 CE

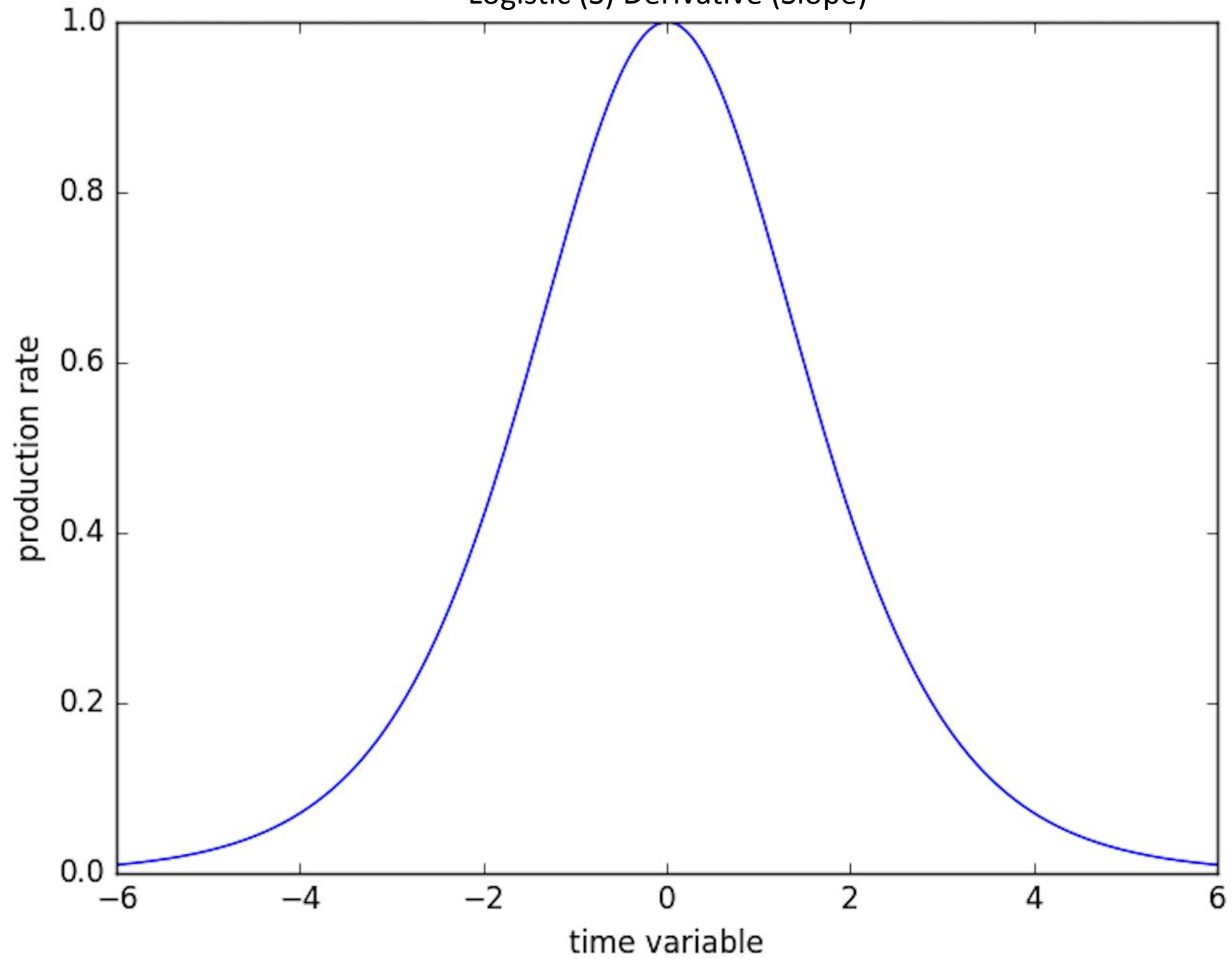
Year



Logistic (S) Curve

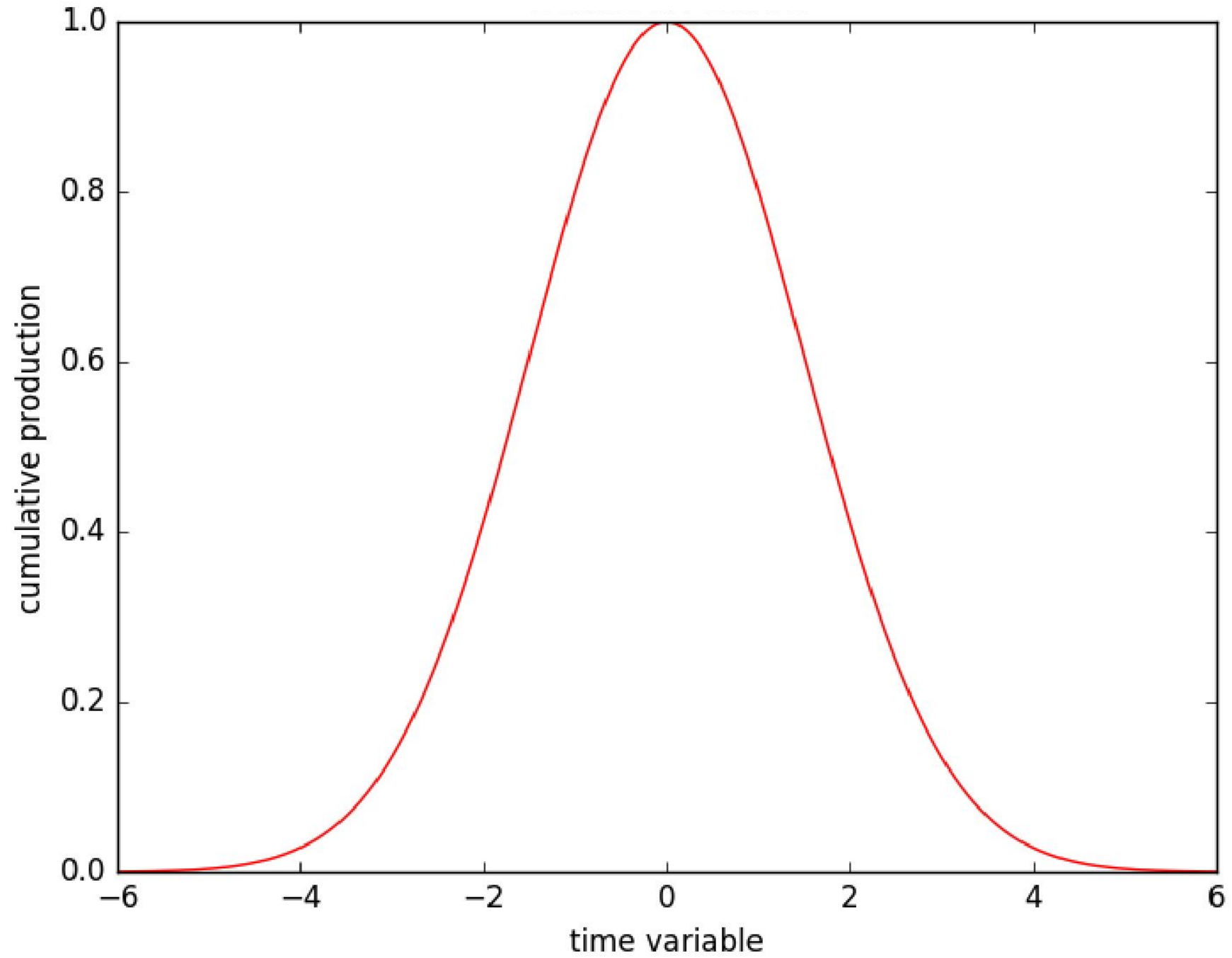


Logistic (S) Derivative (Slope)

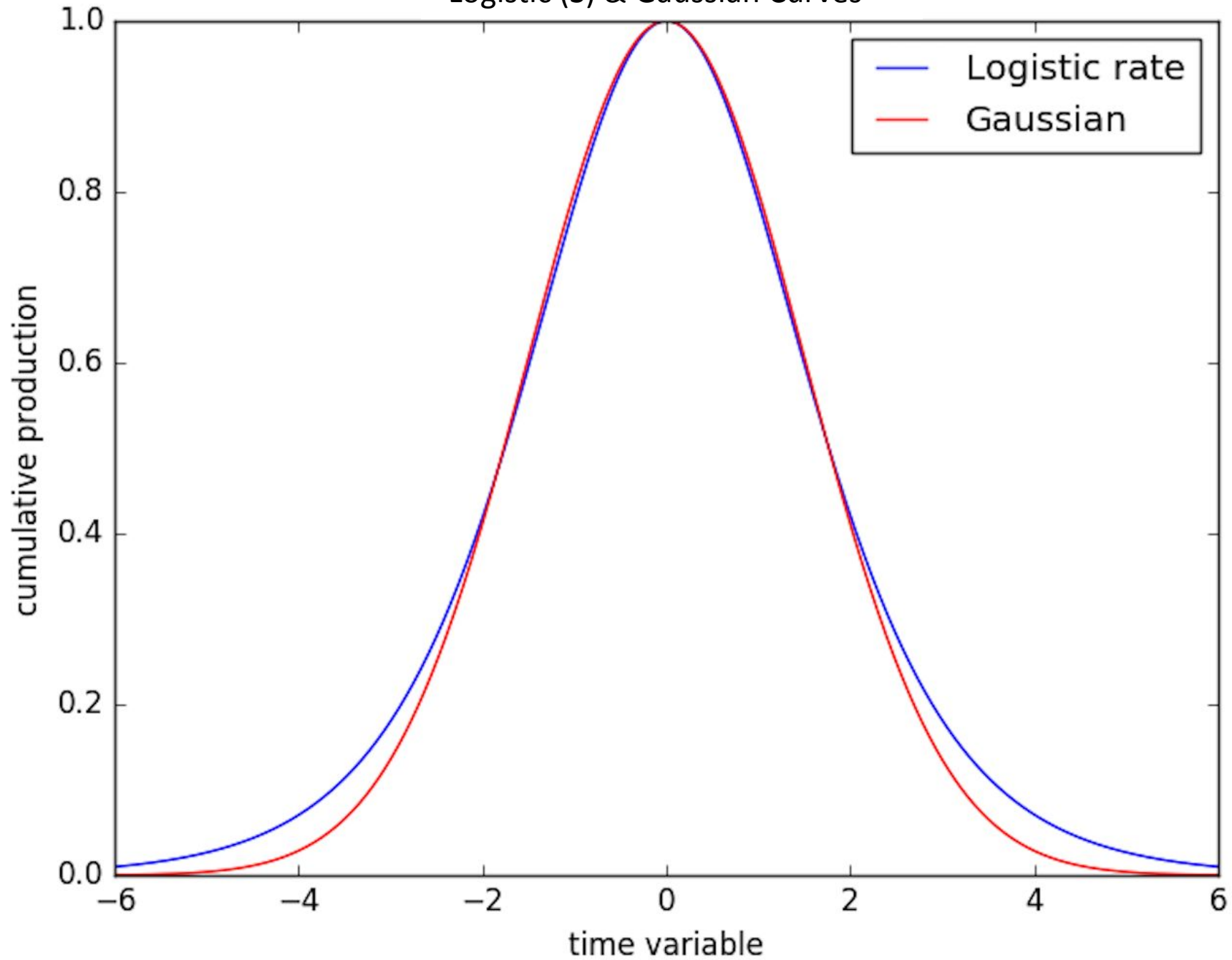




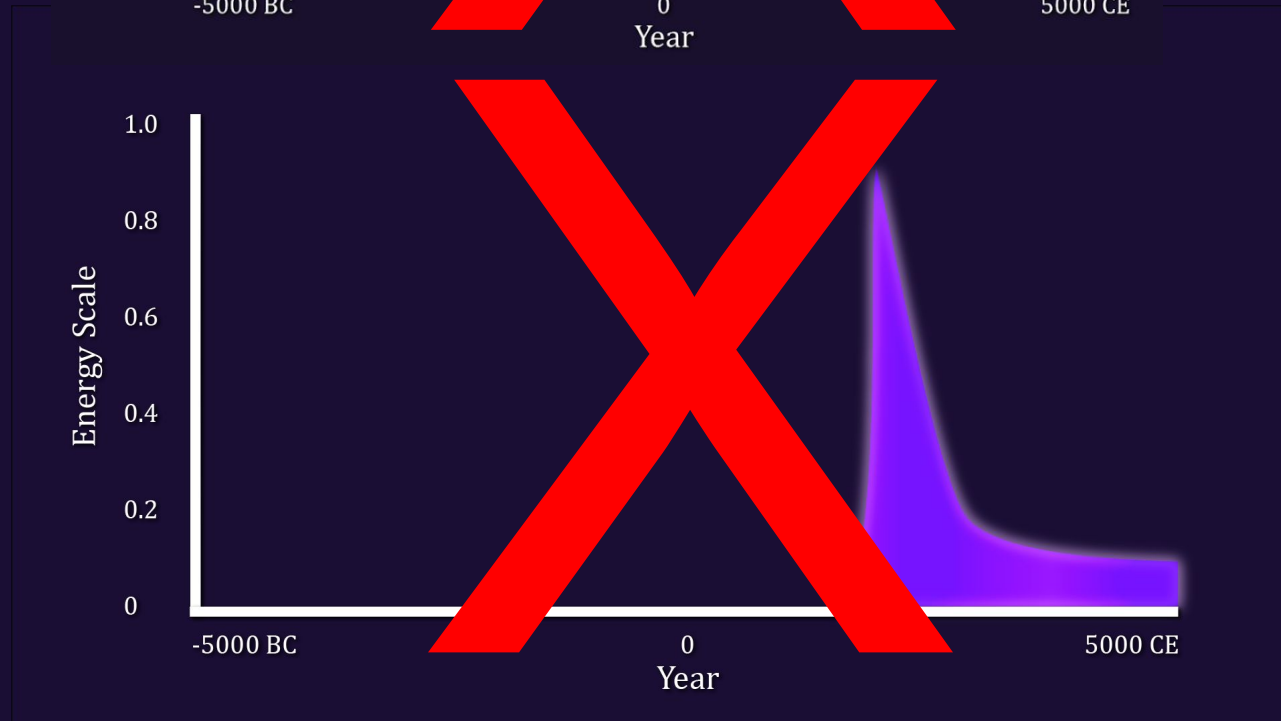
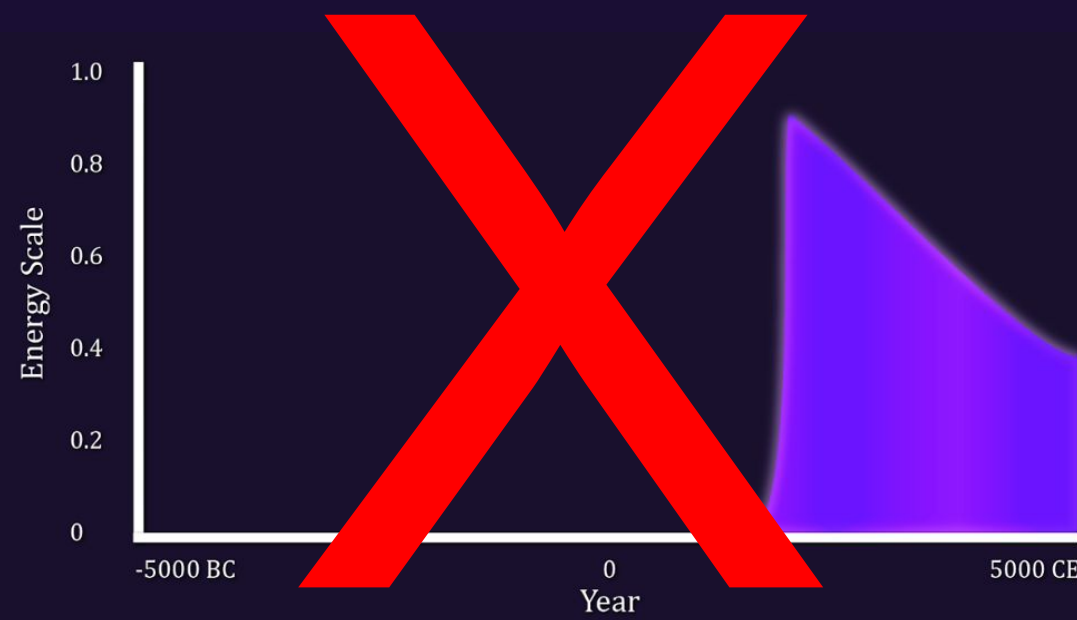
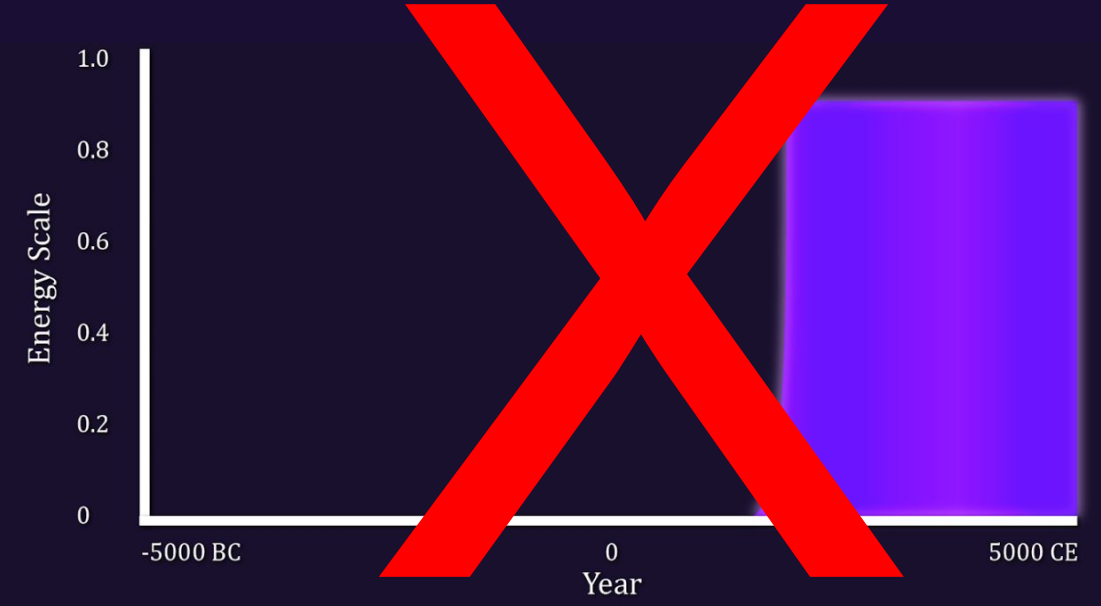
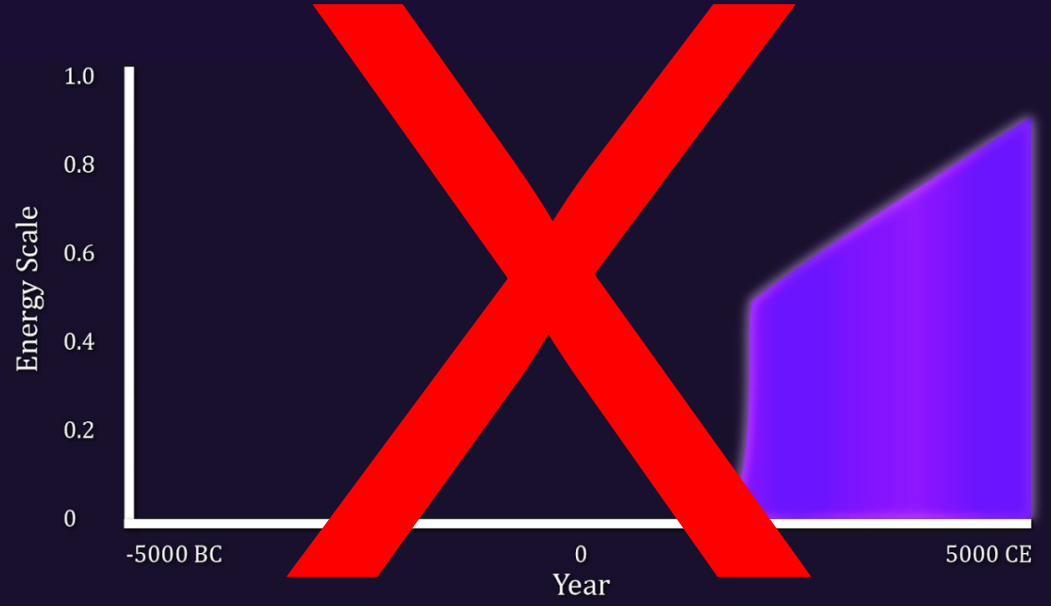
Gaussian Curve

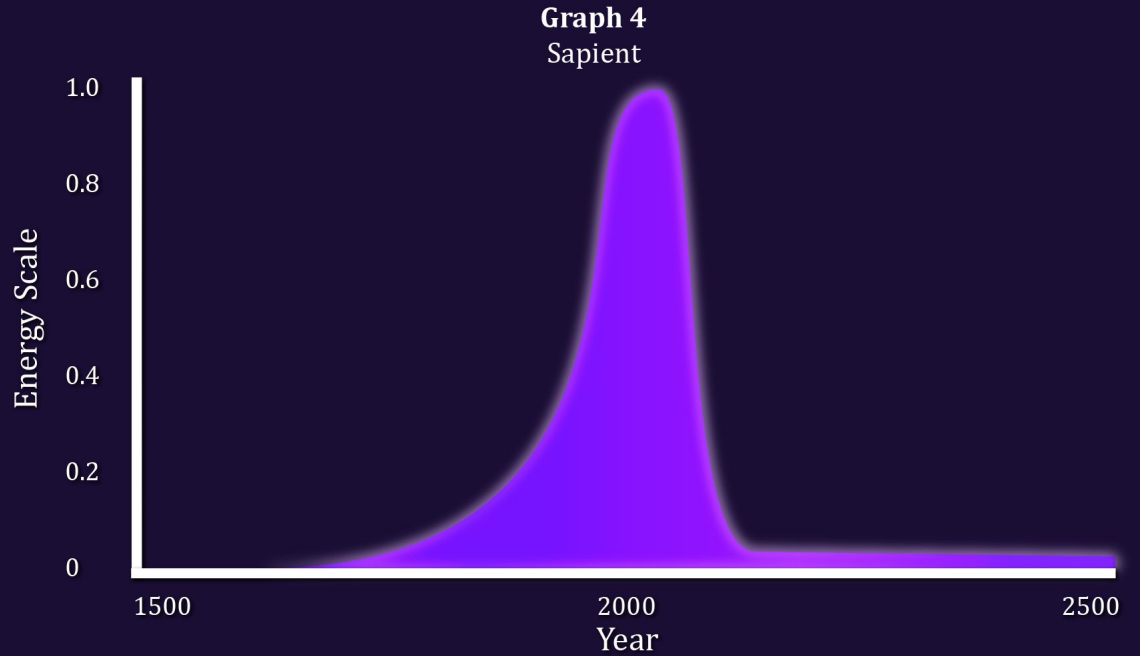
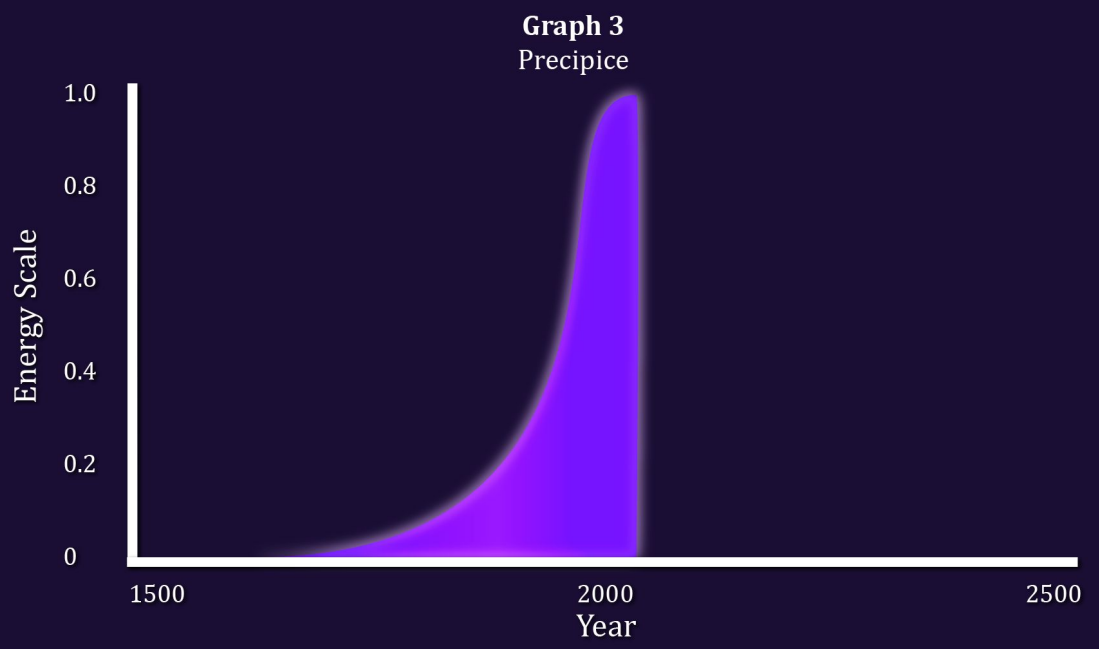
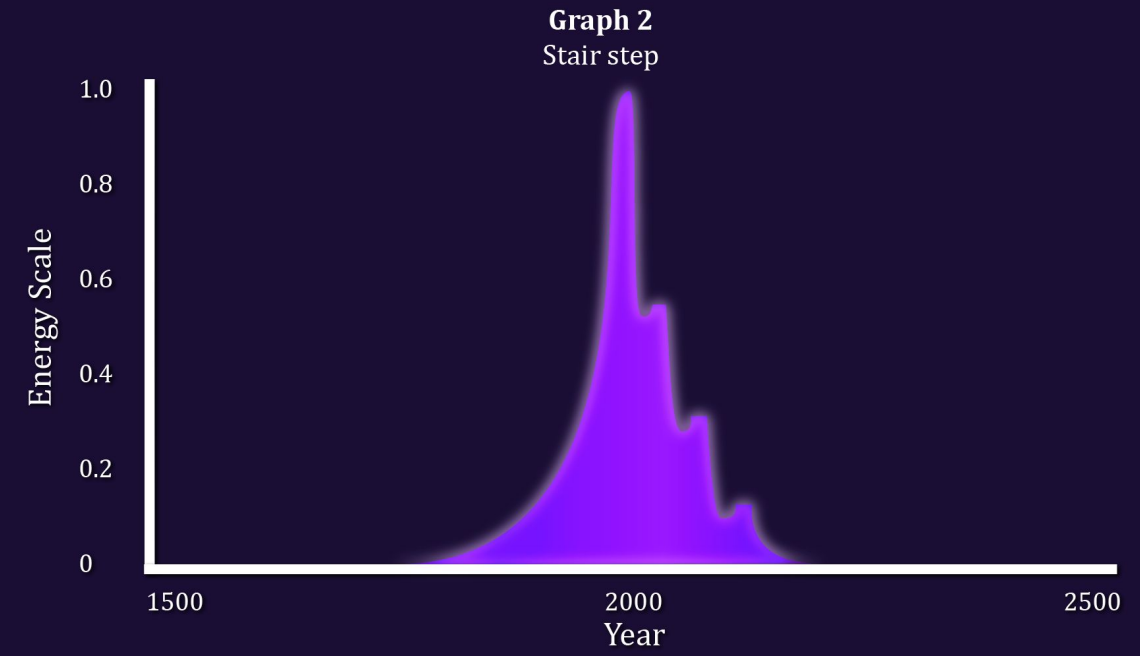
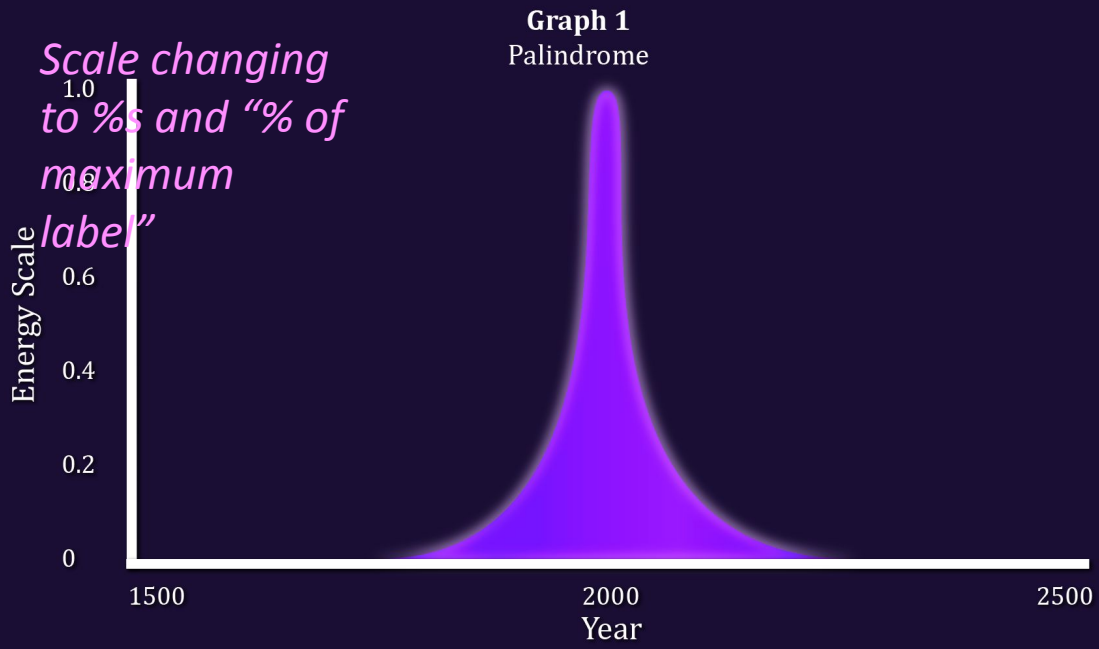


Logistic (S) & Gaussian Curves

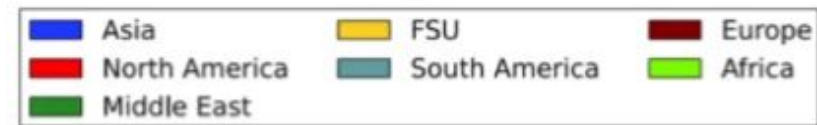
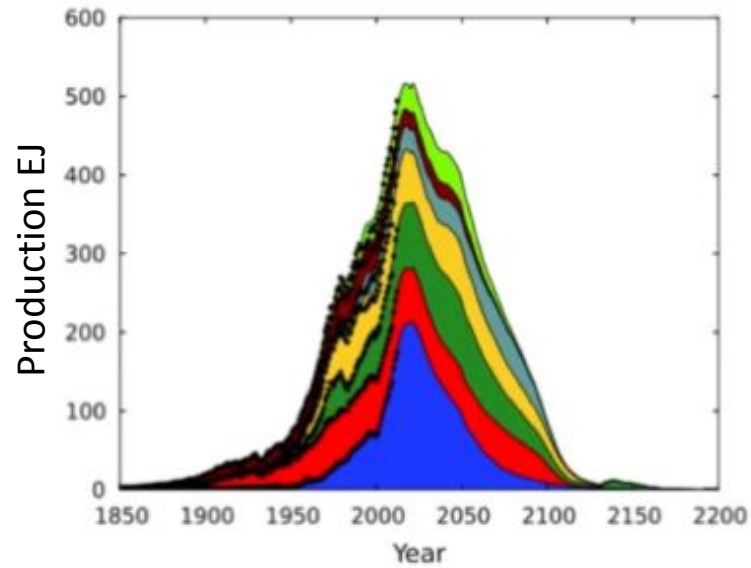


# Four Shapes of the Carbon Pulse which are *Not Possible*...



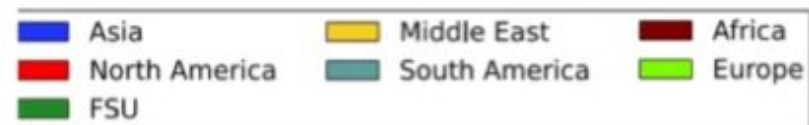
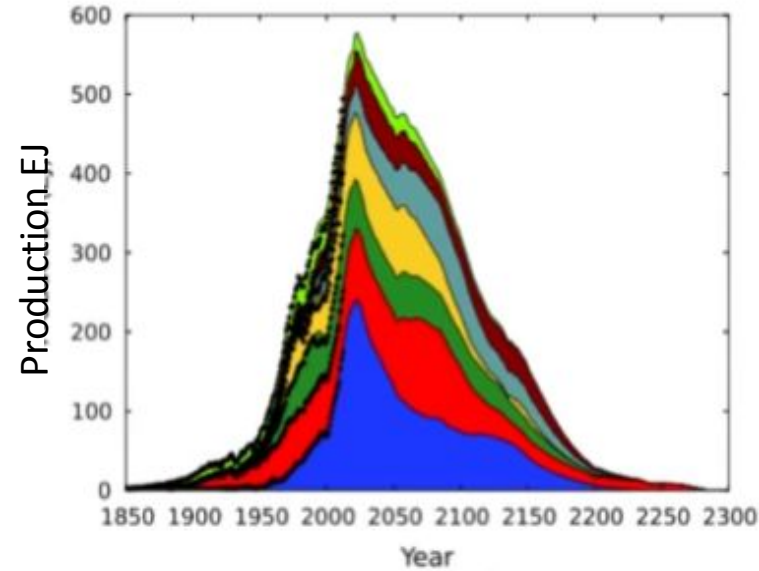


# Low scenario



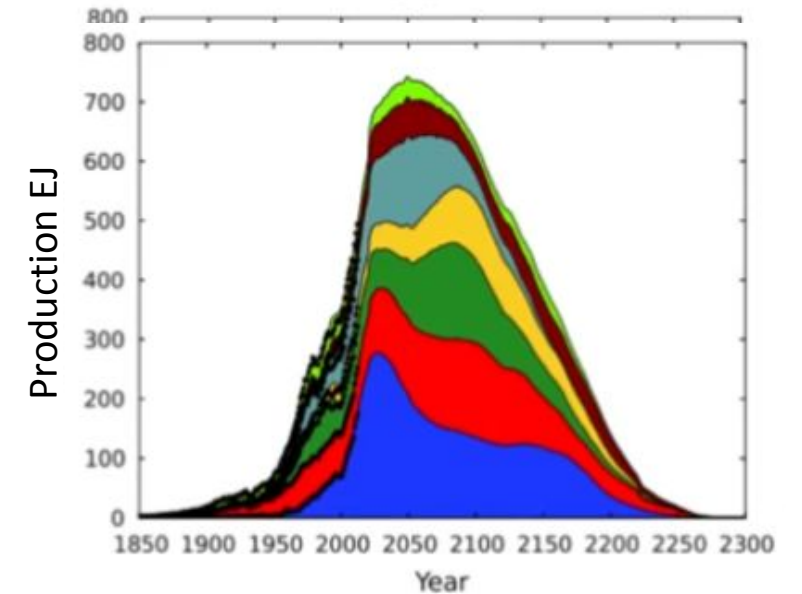
(d) Fossil Fuels

# Base scenario



(d) Fossil Fuels

# High scenario



(d) Fossil Fuels