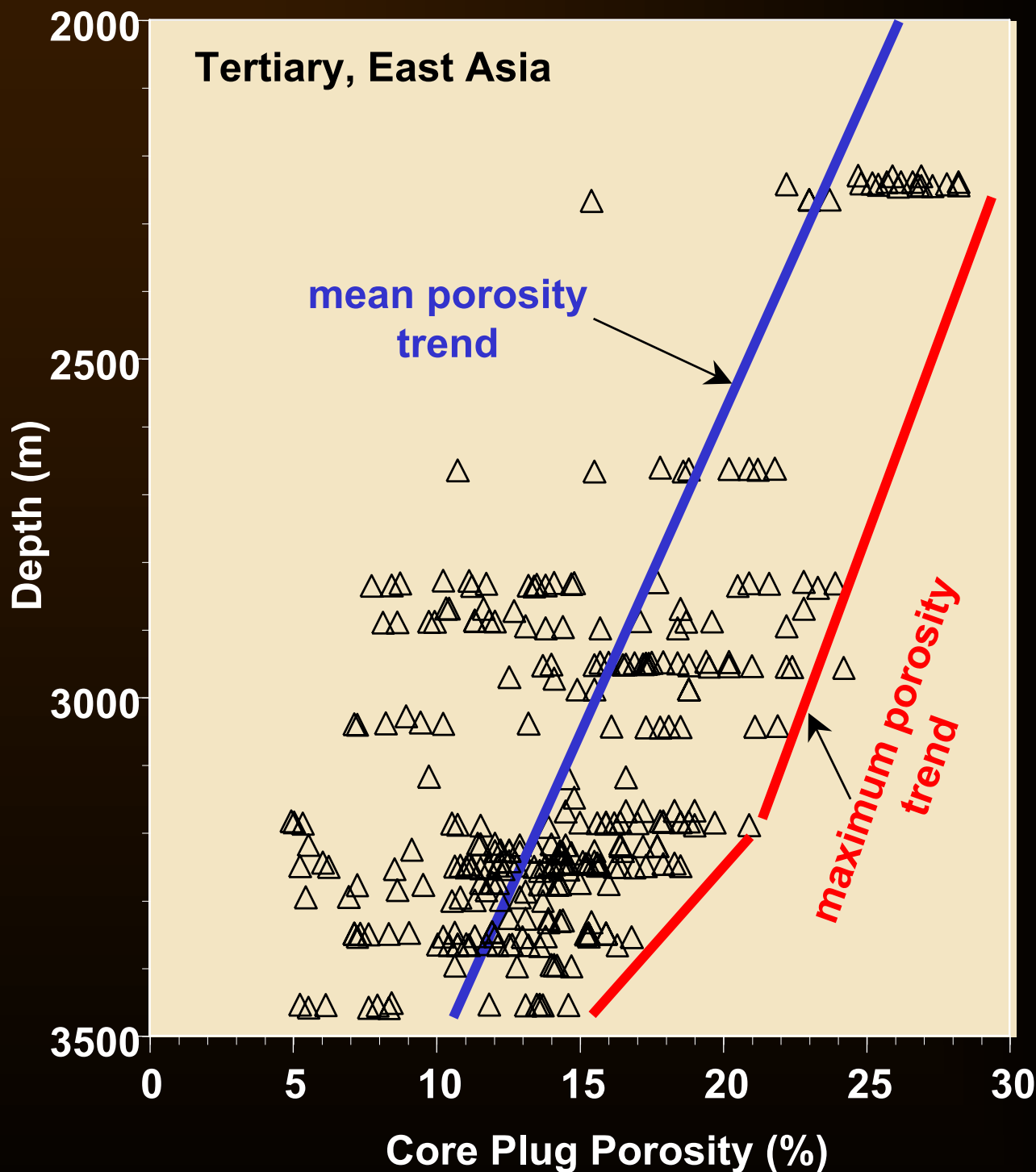


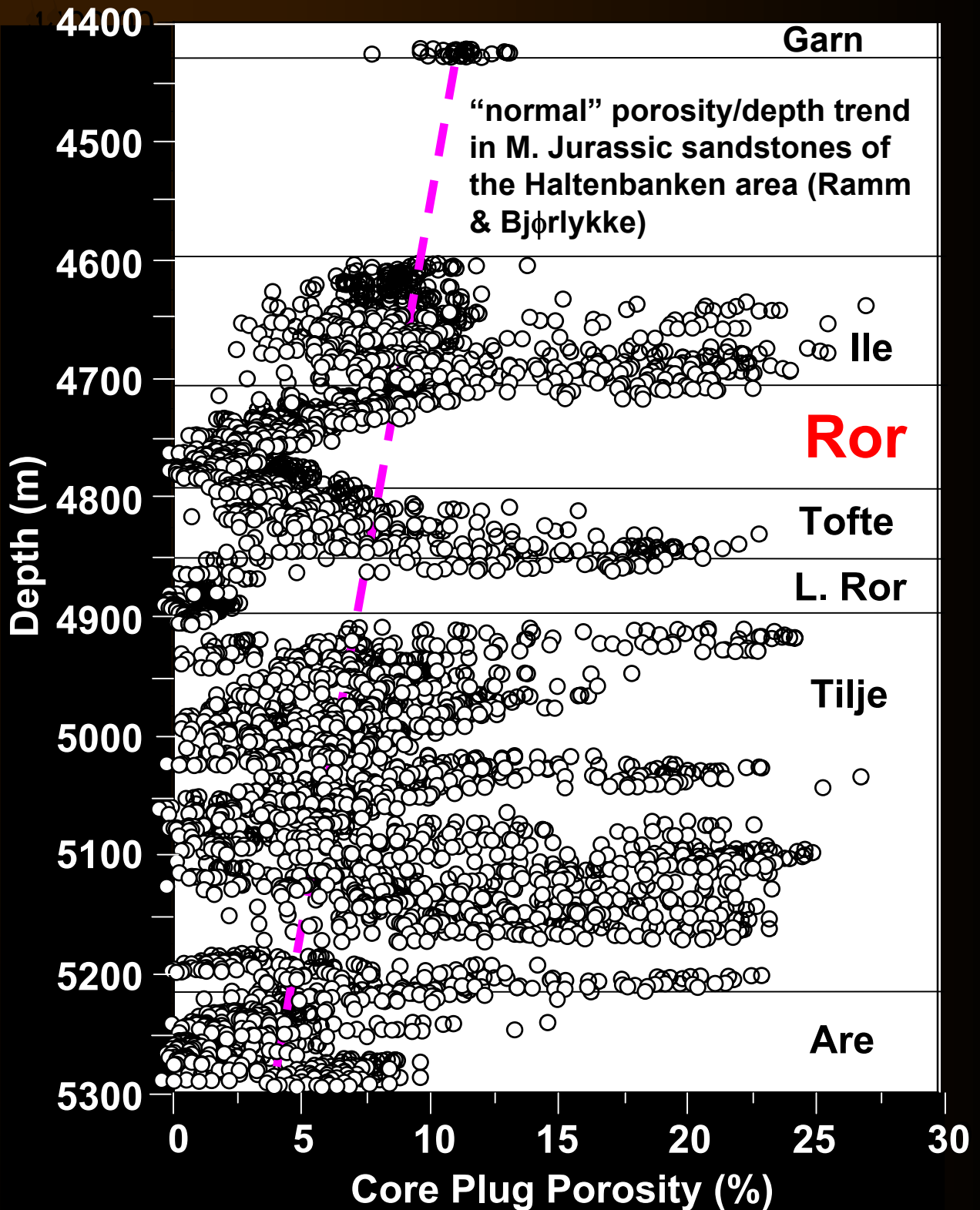
Mean Porosity and Maximum Porosity versus Burial Depth



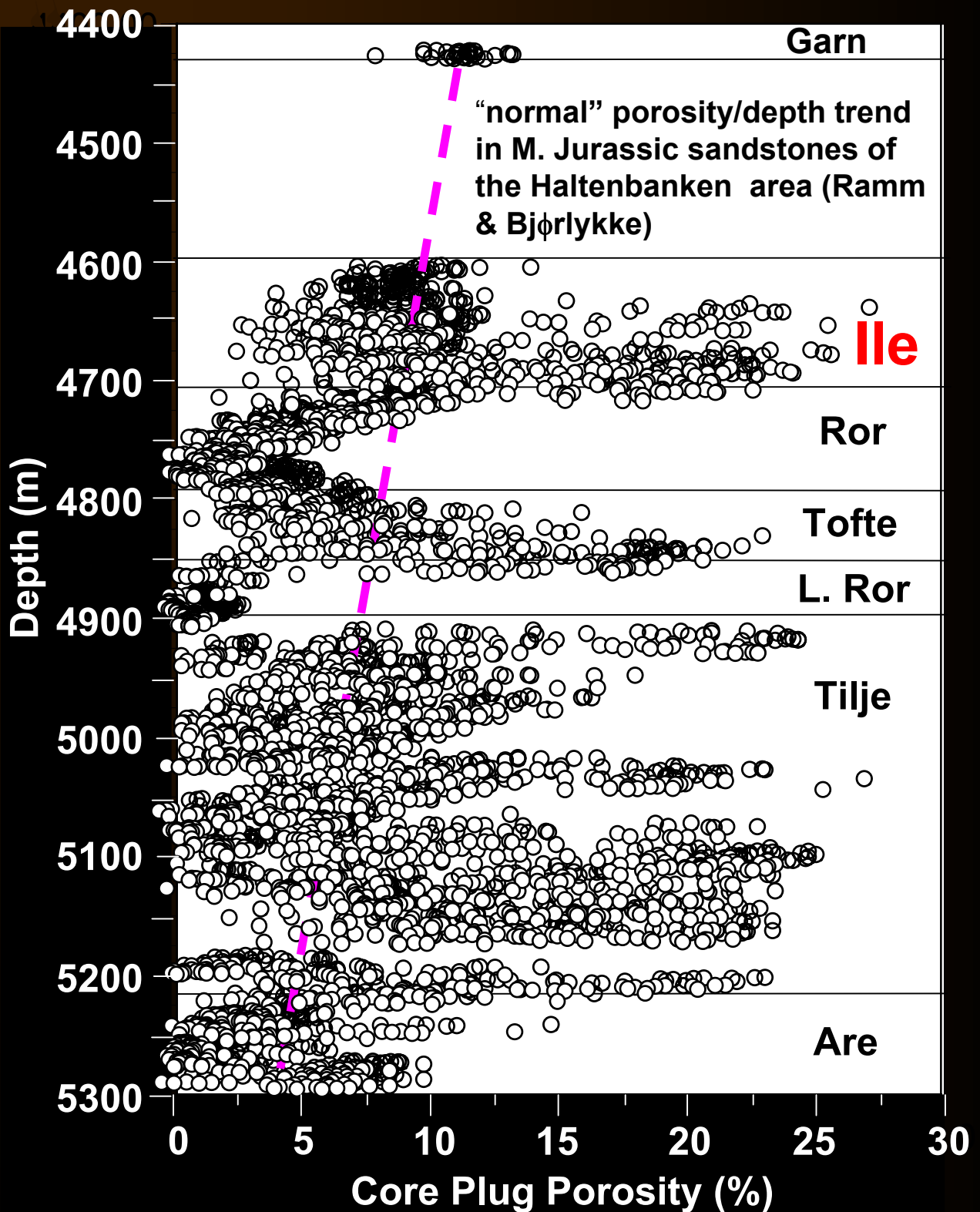
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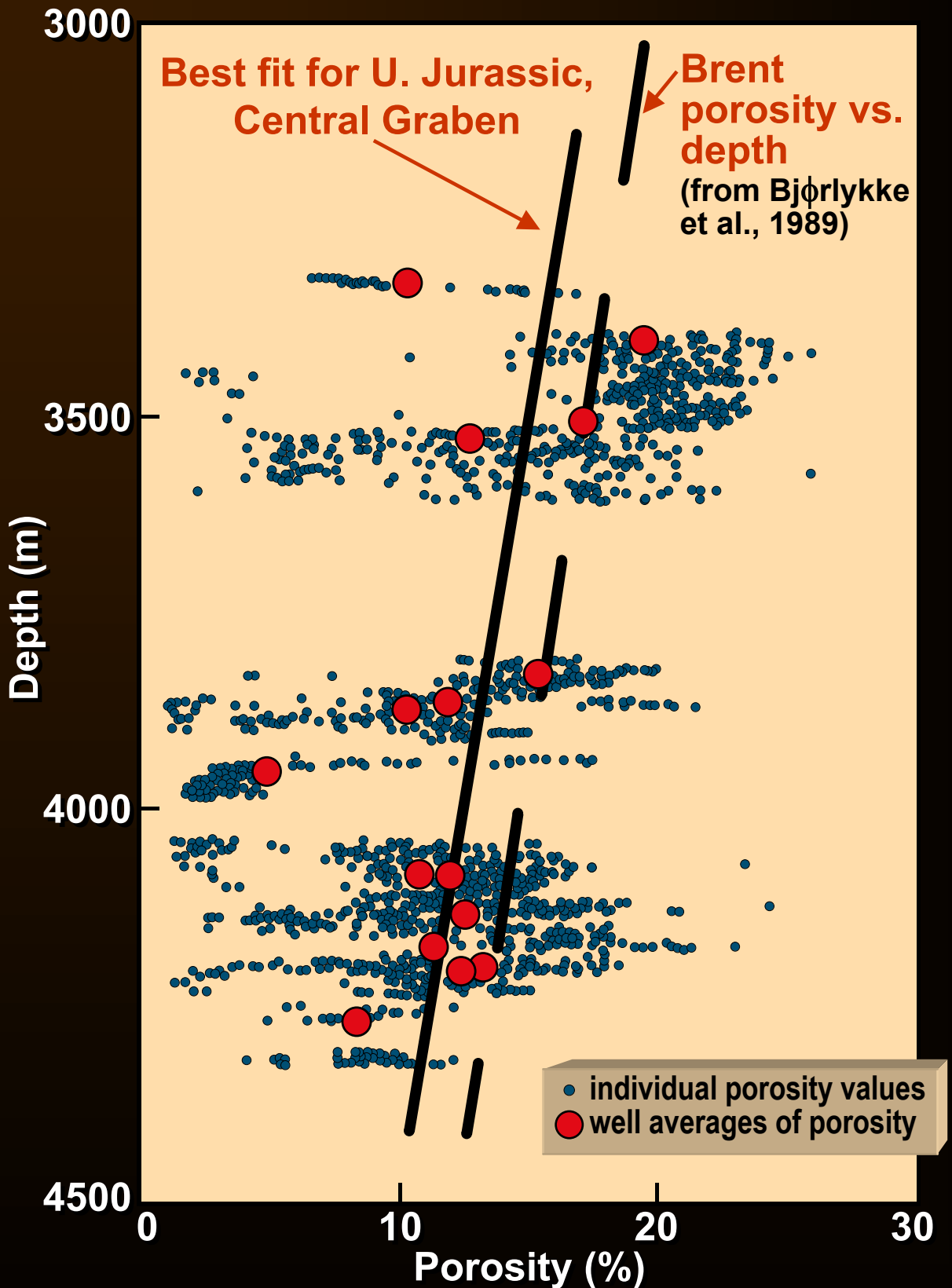
Distribution of Porosity in Chlorite-Coated and Uncoated Sandstones



Distribution of Porosity in Chlorite-Coated and Uncoated Sandstones

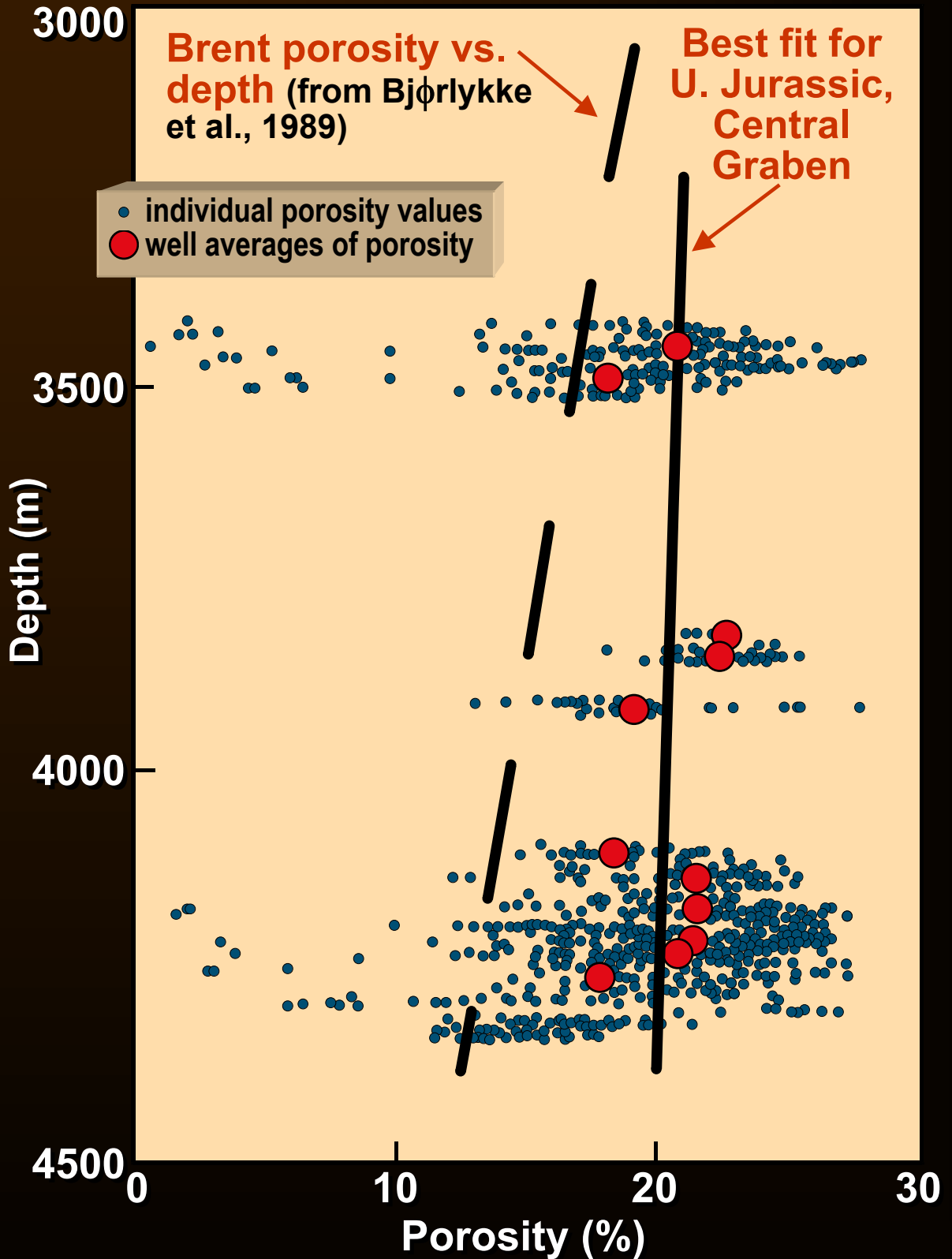


Porosity Trends in Sandstones with no Microquartz Coatings

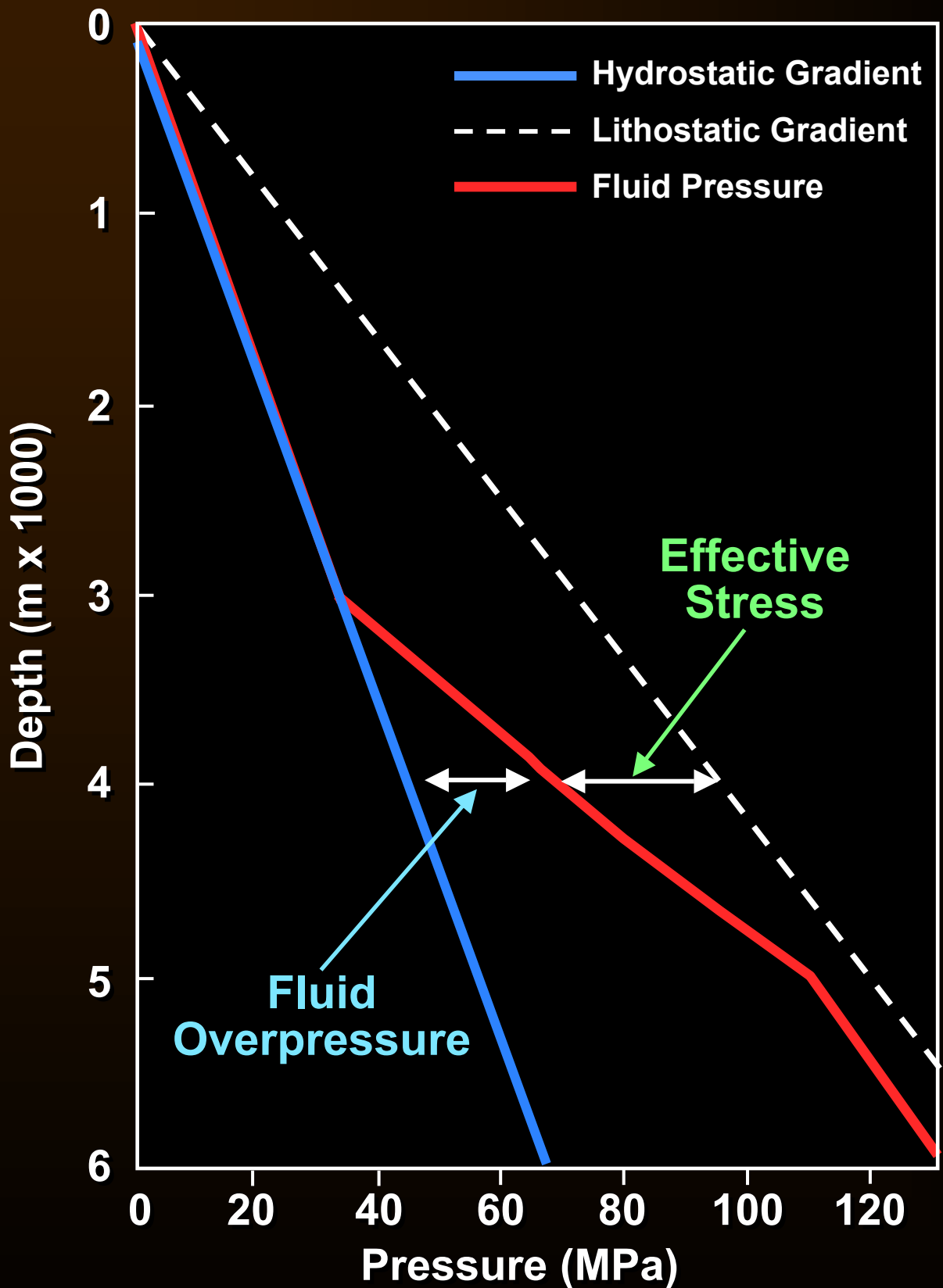


from Aase et al., 1996

Effect of Microquartz Coatings on Porosity Preservation

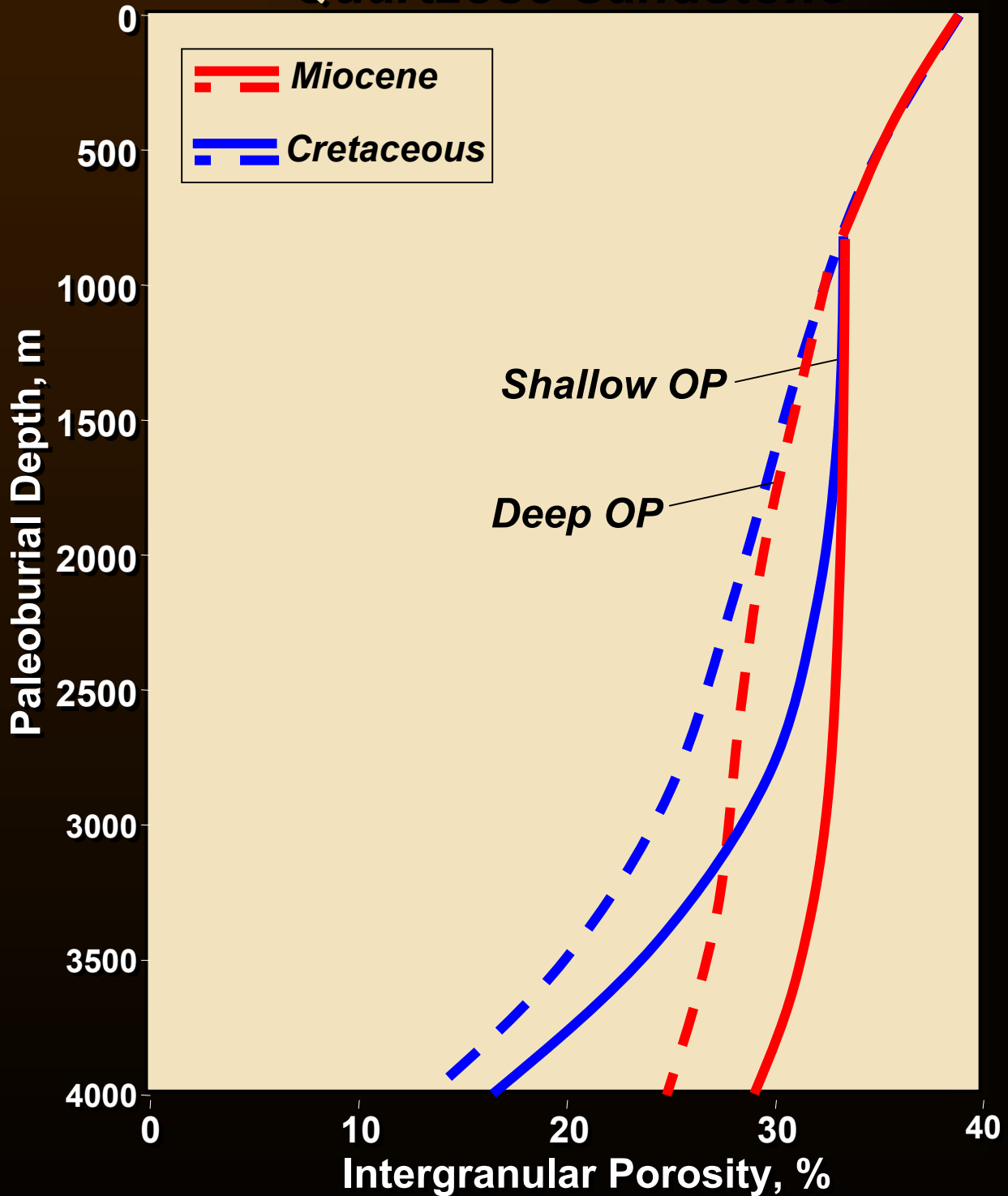


Fluid Overpressure: Definition



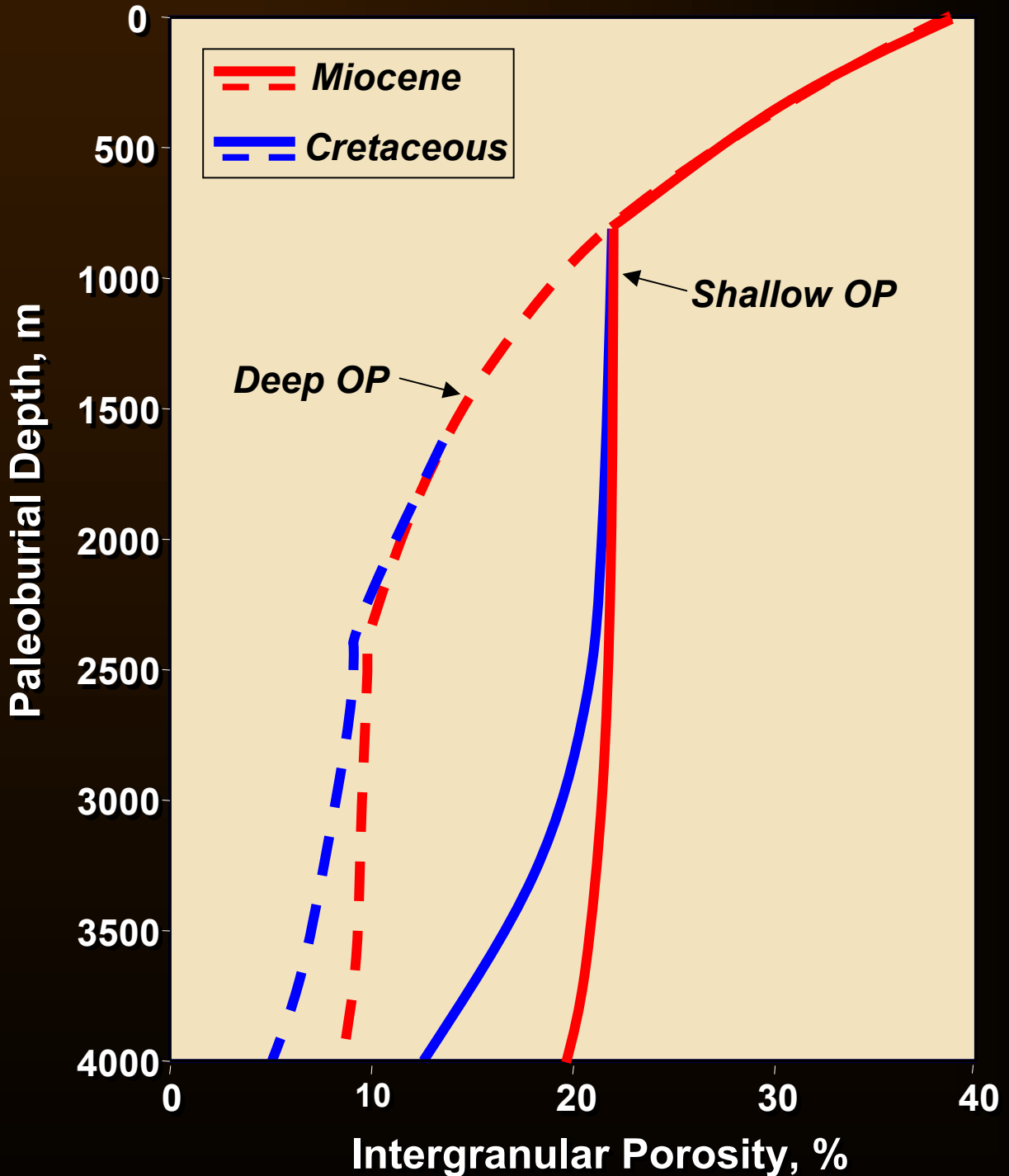
Effect of Overpressure on Porosity Preservation, Diagenetic Models

Quartzose Sandstone



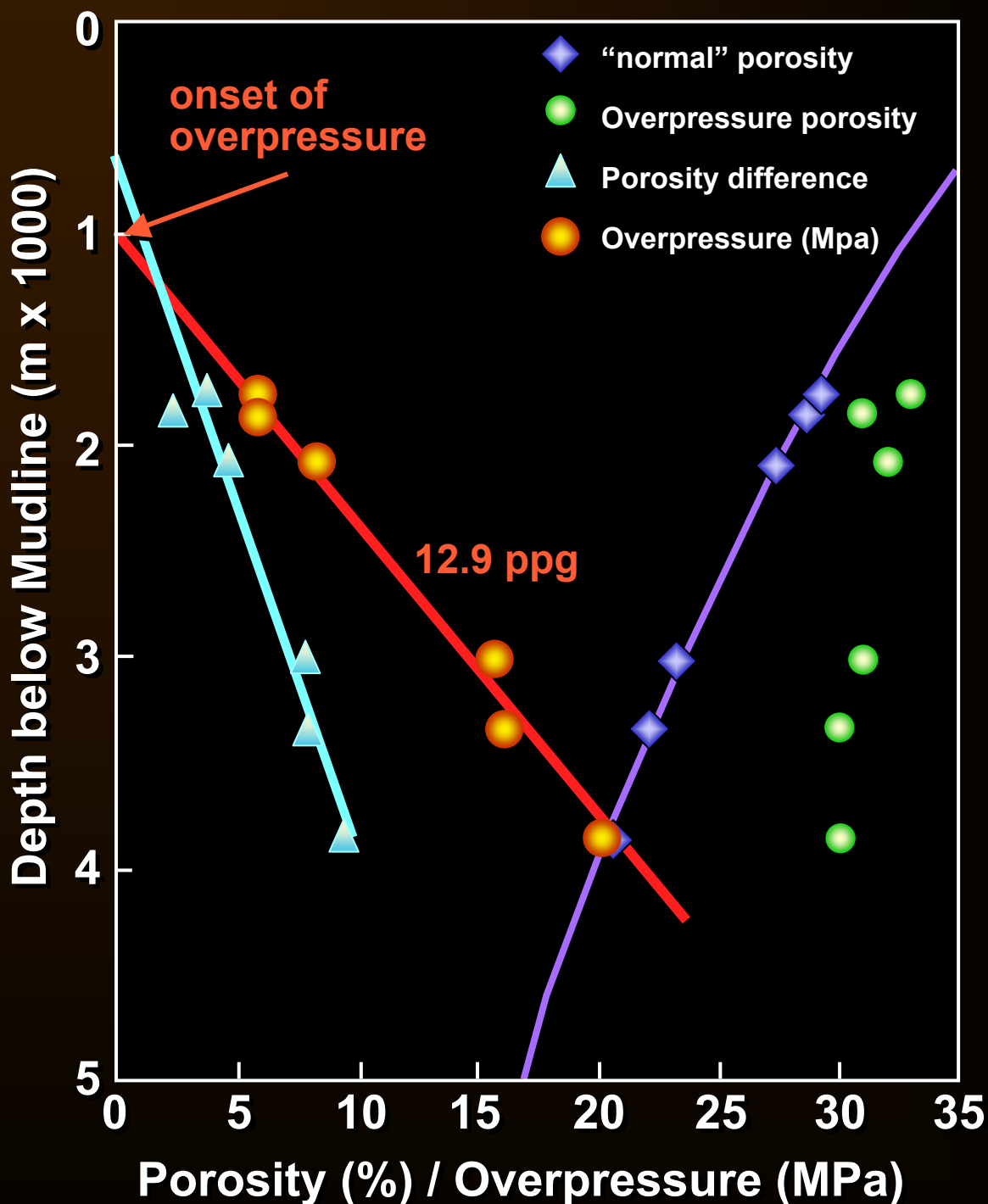
Effect of Overpressure on Porosity Preservation, Diagenetic Models

Lithic Sandstone

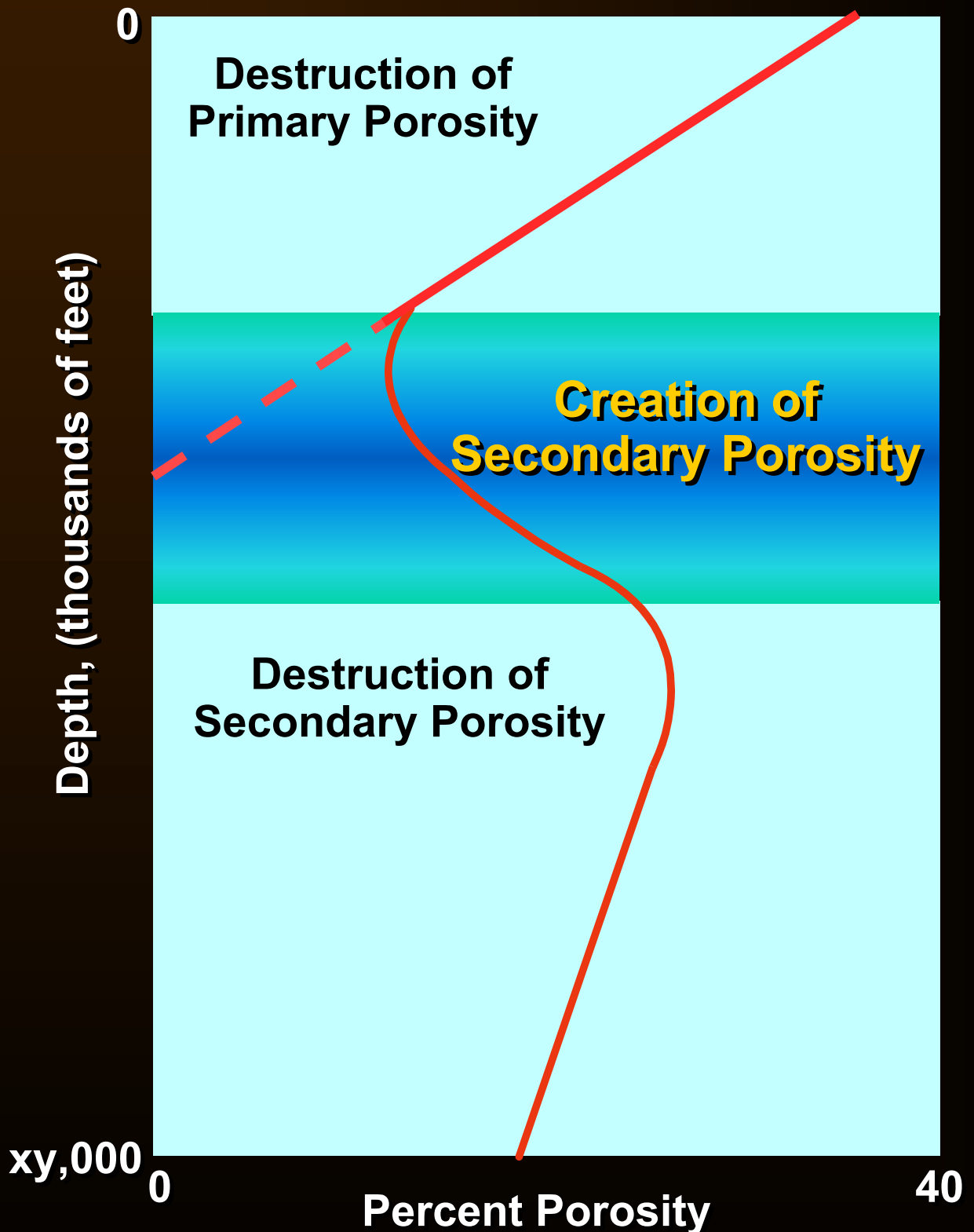


Plio-Pleistocene of GOM (6 wells)

1MPa of overpressure = - 80m of effective burial

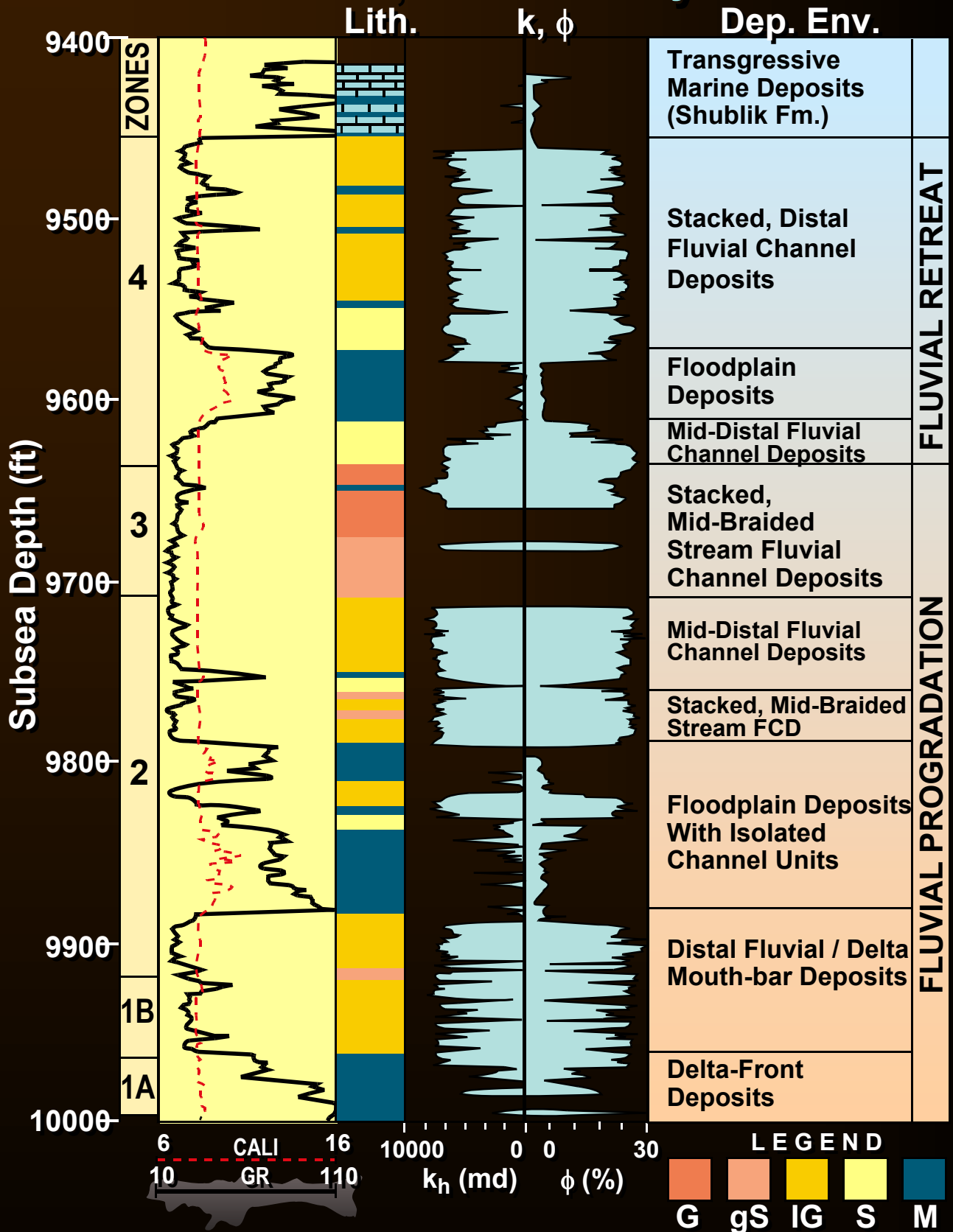


Primary & Secondary Porosity Evolution with Depth



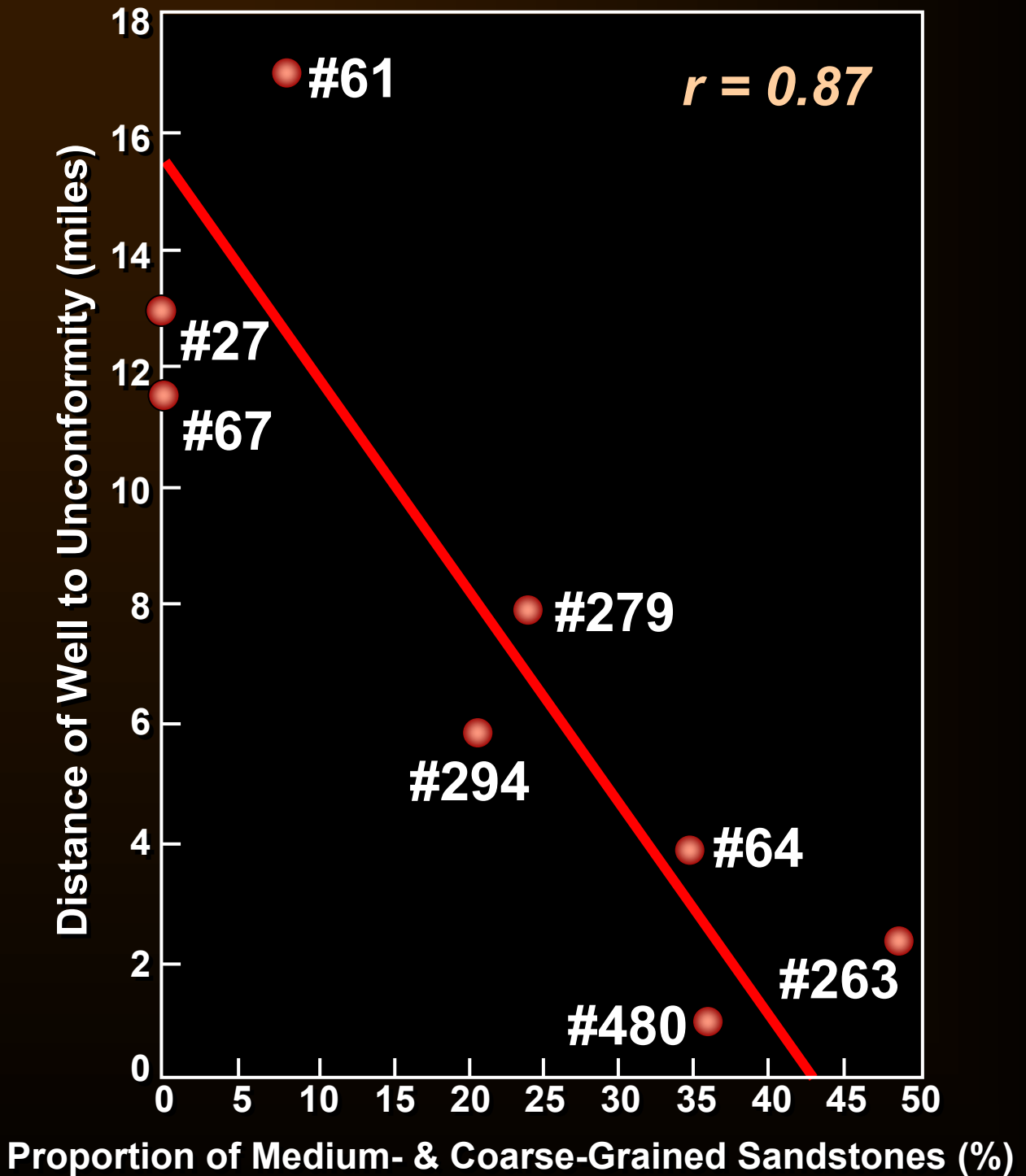
from Hayes, 1979

Petrophysical Zonation of the Ivishak Sandstone, Prudhoe Bay Field



G = conglomerates, **gS** = conglomeratic sandstones,
IG = intraformational conglomerates, **S** = sandstone, **M** = shale

The Proportion of (Coarse Grained + Medium Grained Sandstones) / (Total Sandstones) Decreases with Increasing Distance to the LCU



Porosity of the Ivishak Rises with Increasing Proportion of Medium- and Coarse-Grained Sandstone

