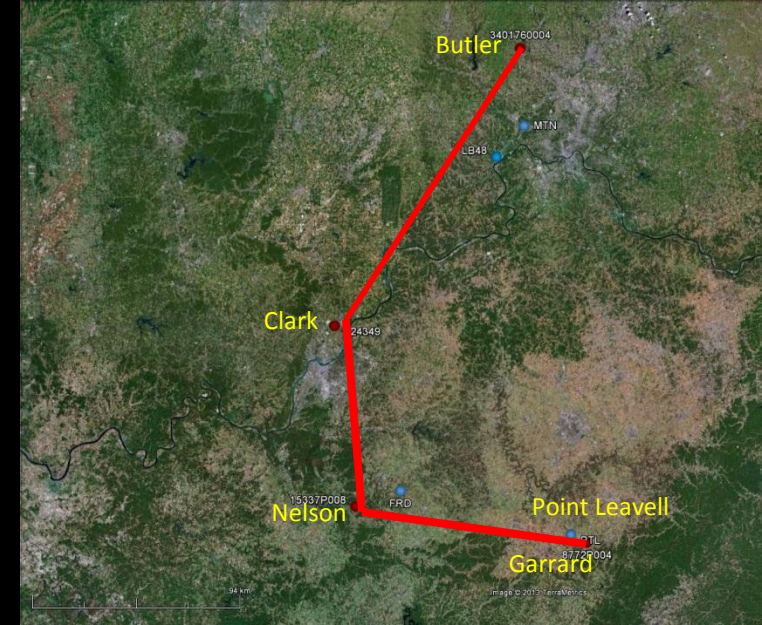
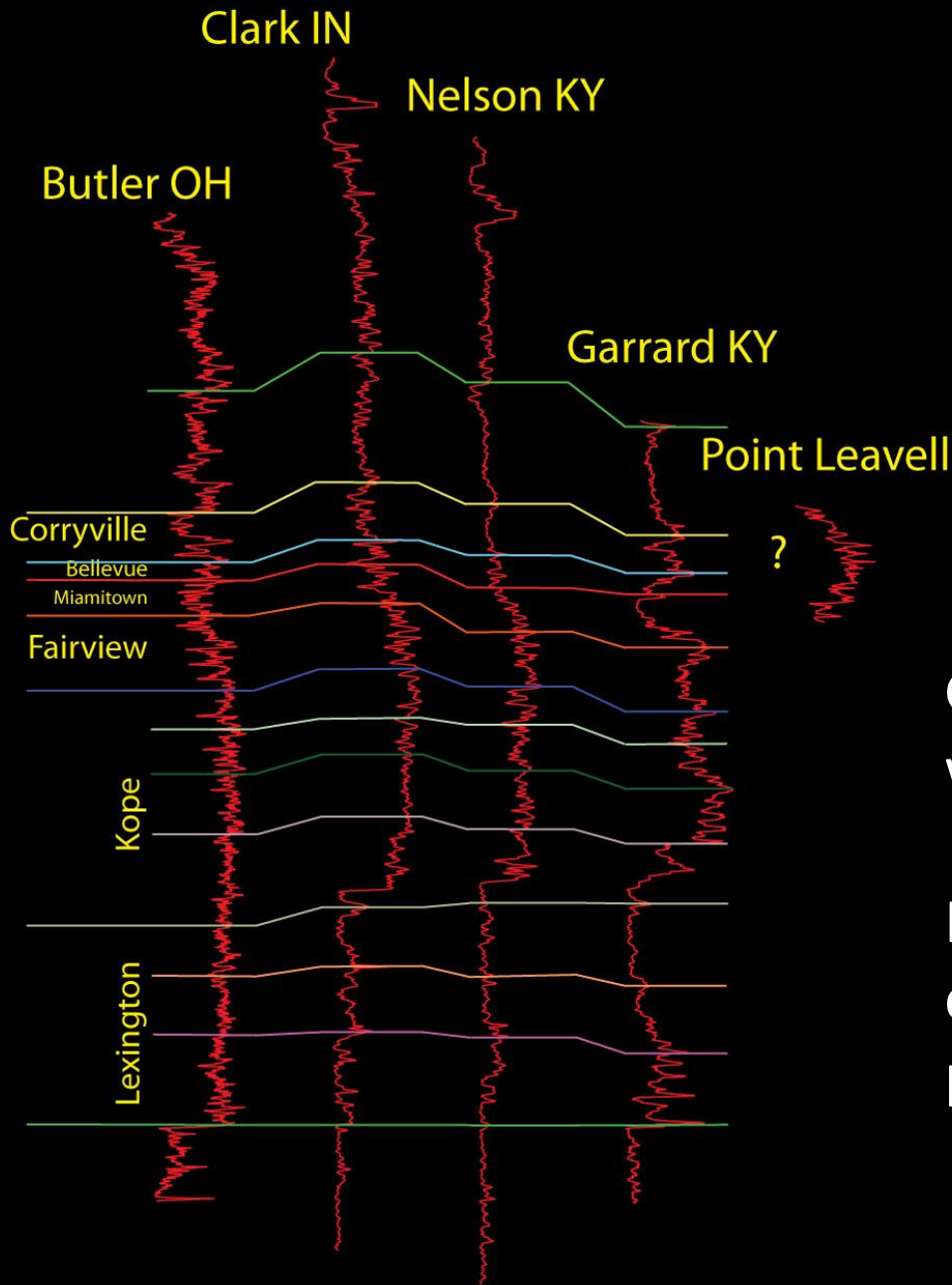


N-Subtidal

S-Peritidal



Gamma Rays correlate surface with subsurface.

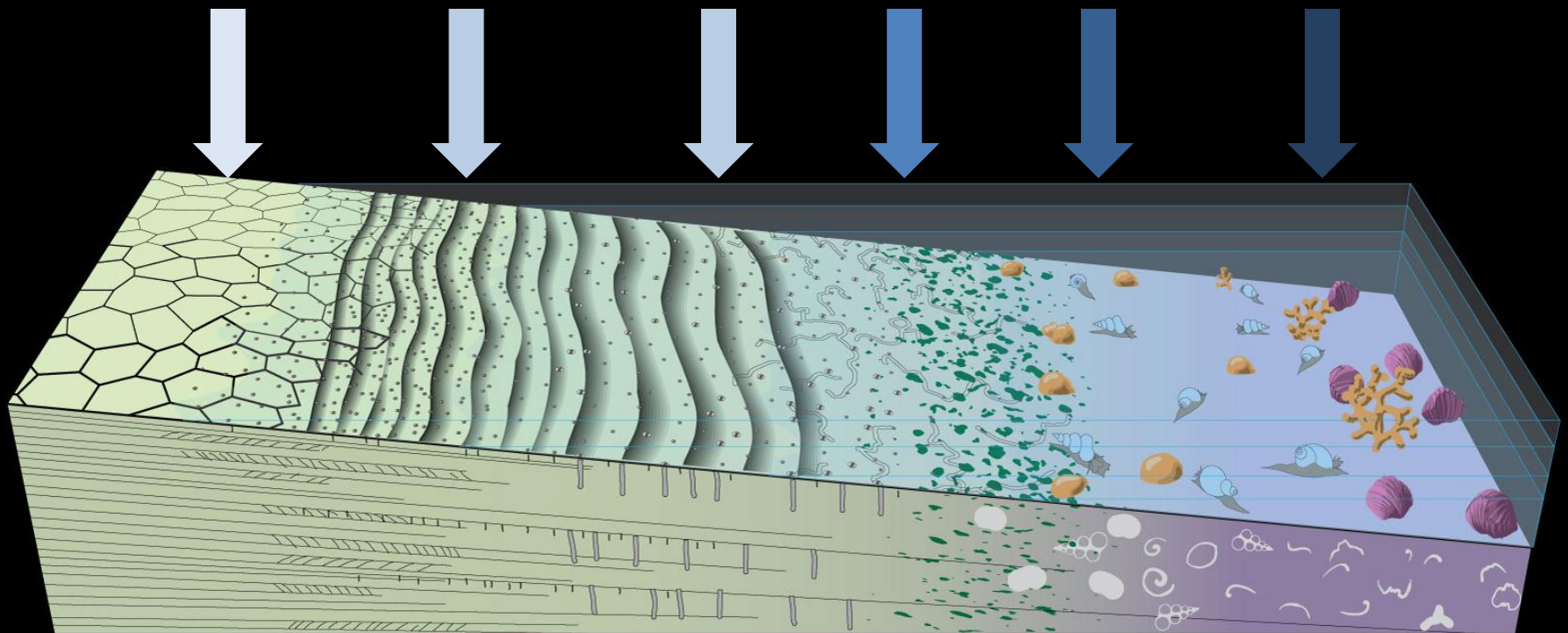
High-frequency fluctuations cross from subtidal to peritidal facies.



Cincinnati peritidal facies show
considerable variation in
microfacies

Peritidal microfacies demarcate a depth gradient

- 1- High-diversity limestone and silty shale – shallow marine
- 2- Low-diversity limestone and dolomitic siltstone—restricted subtidal
- 3- Glauconite-rich dolomitic siltstone-lowest intertidal
- 5- Dolomitic siltstone with vertical burrows and lingulates –low intertidal
- 6- Laminated green dolomitic siltstone-intermediate intertidal
- 7- Laminated mud-cracked dolomitic siltstone-high intertidal



High-frequency stratigraphic variation in **microfacies**, correspond to those of **magnetic susceptibility** and **gamma radiation**. This suggests that through-going gamma ray cycles are eustatic.

