

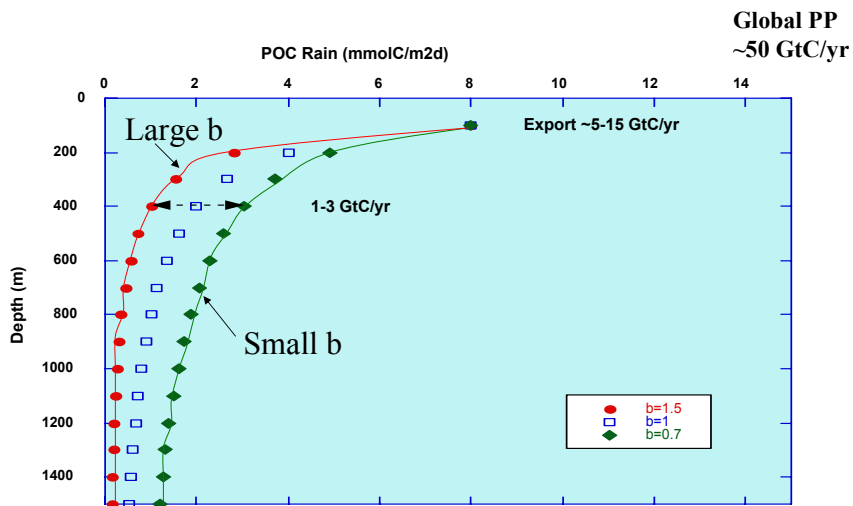
Let's Not add iron to the ocean

Why?

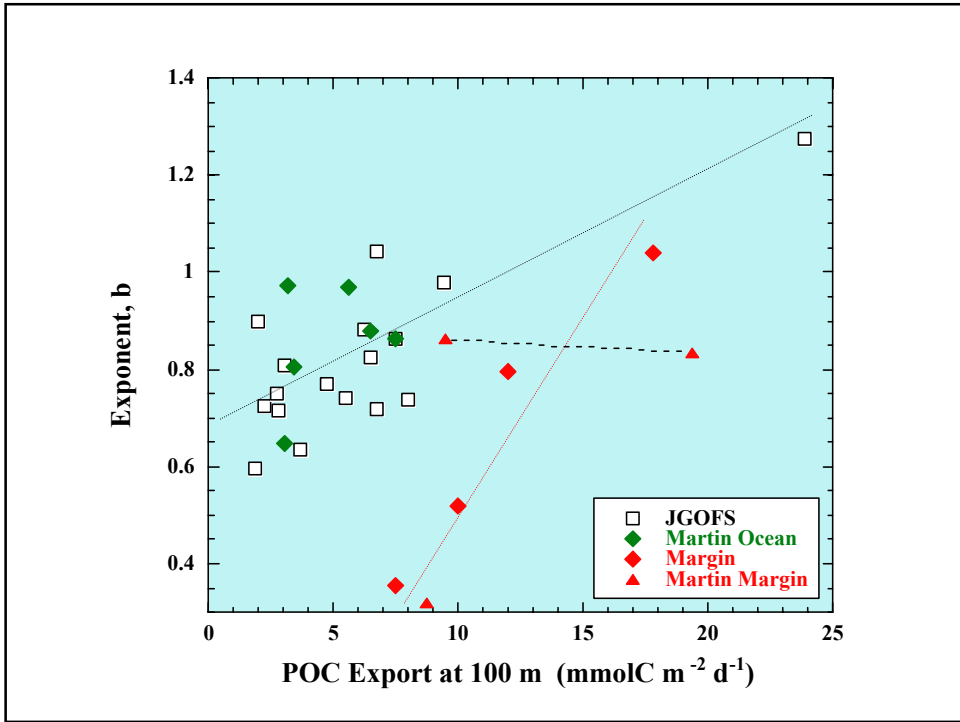
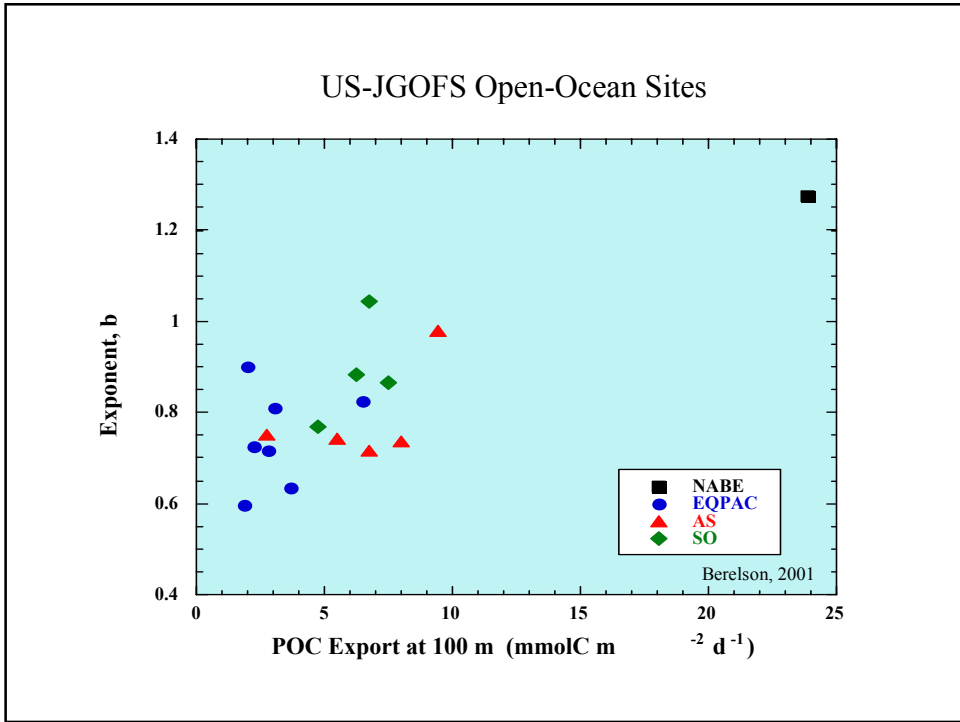
Opal-rich particles sink slowly, Corg recycles quickly

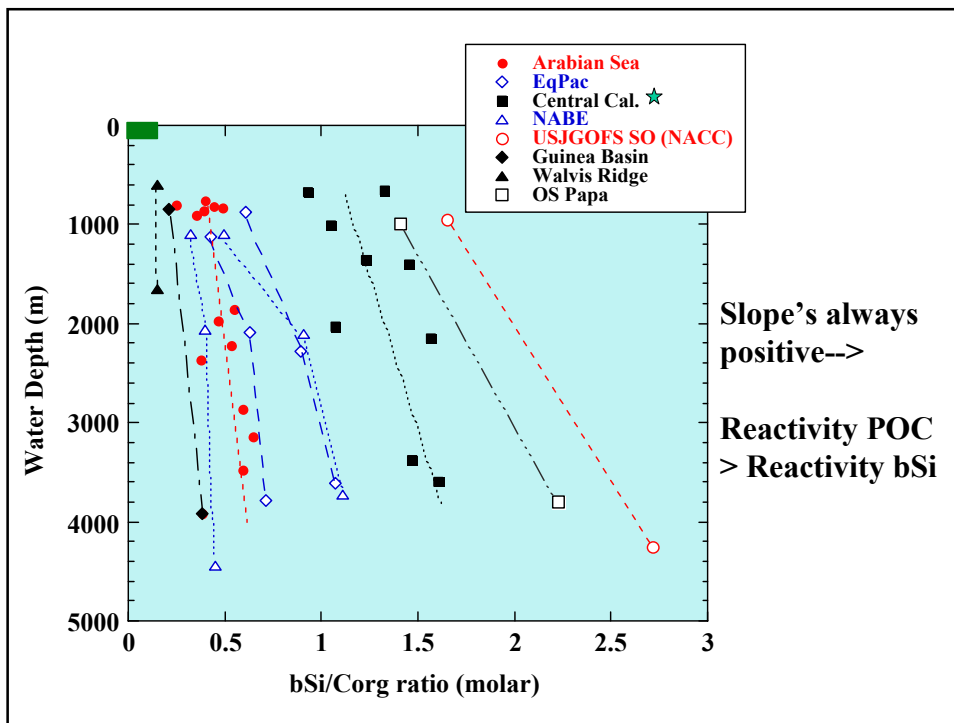
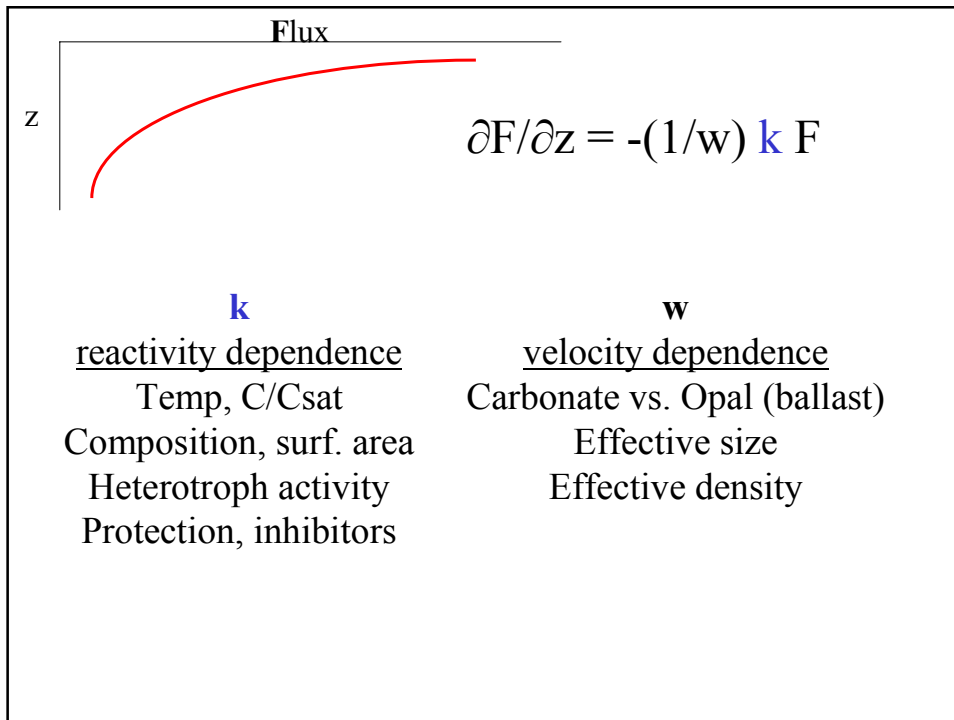
Will Berelson
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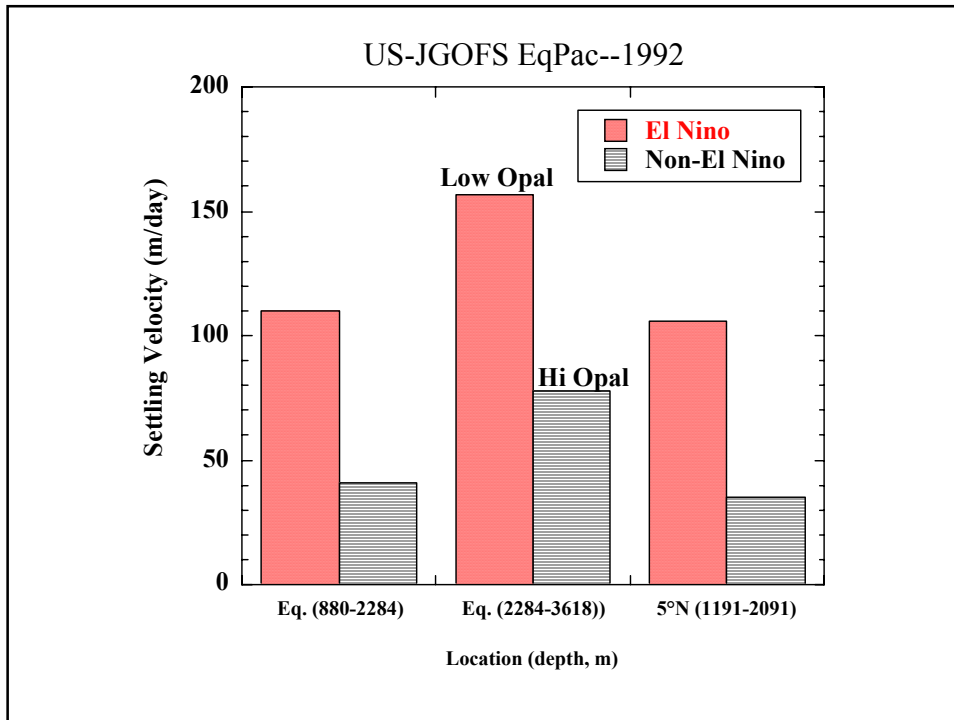
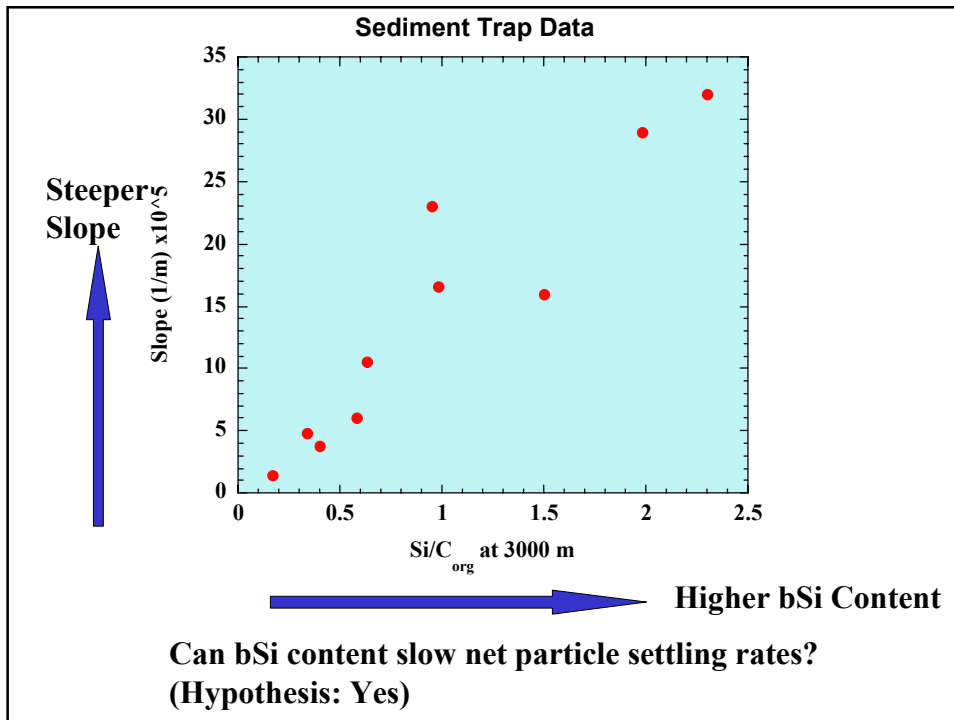
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K. Johnson, N. Fraser and many others.



Larger b value, more POC is recycled in upper ocean
Smaller b value, more POC gets to deep ocean







Summary:

- Martin Function is too sensitive to export value
- Export depth on margins is shallower than 100 m
- Si/POC ratio is indicative of particle settling velocity
(this implies a huge variability in settling rates)
 - explains why opal burial is often decoupled
from POC burial