



UK Ocean Acidification
Research Programme



Modelling future benthic sensitivities to high CO₂

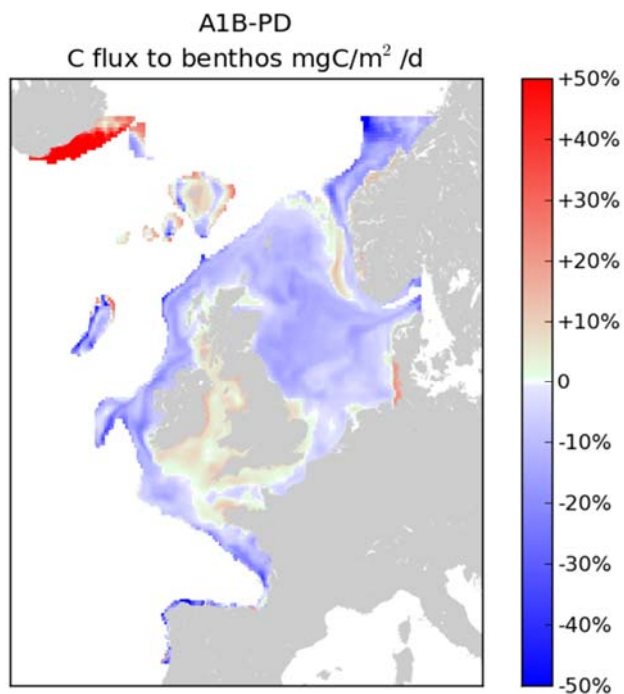
Nick Stephens, Yuri Artioli
and Jerry Blackford

PML | PLYMOUTH MARINE
LABORATORY

Benthic system sensitivities

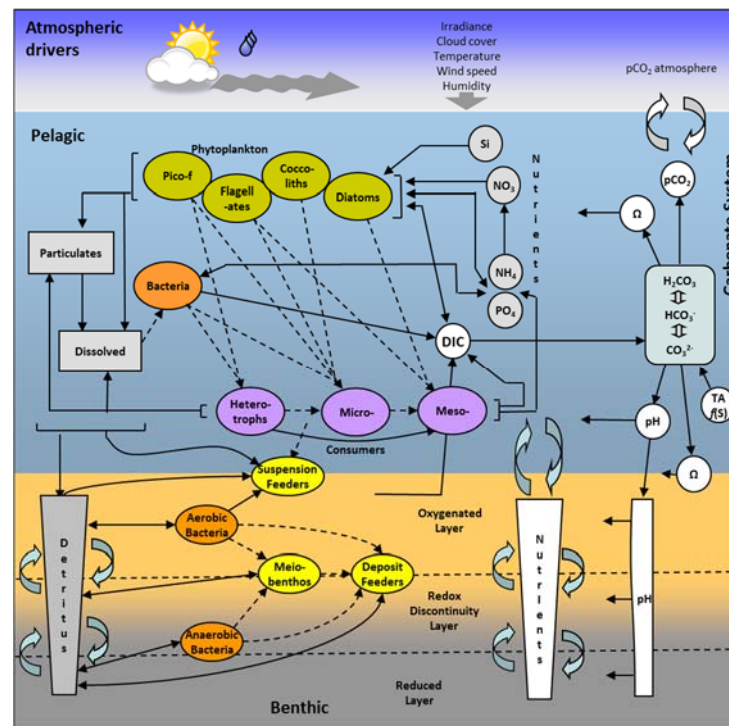
Indirect effects

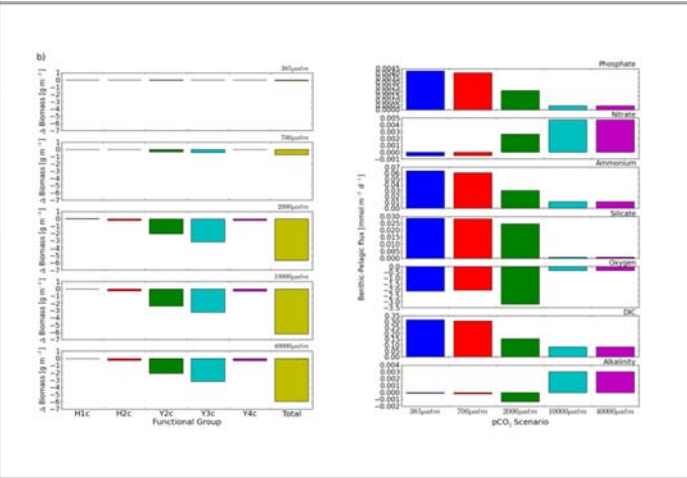
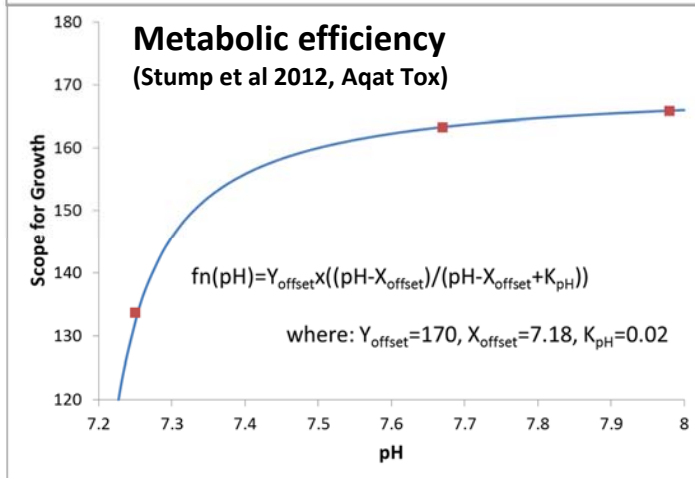
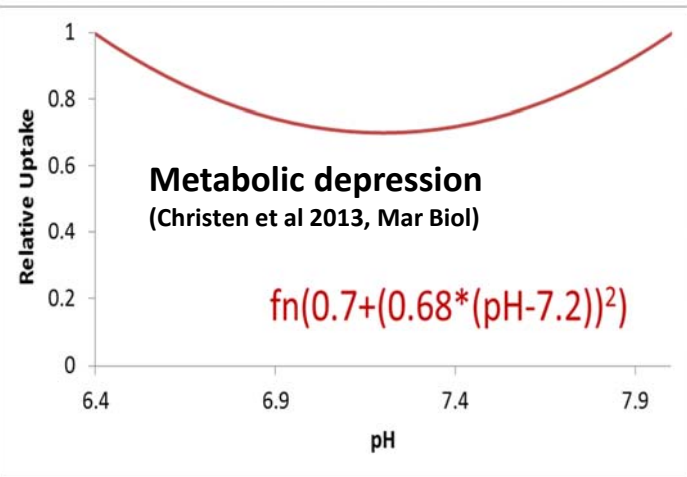
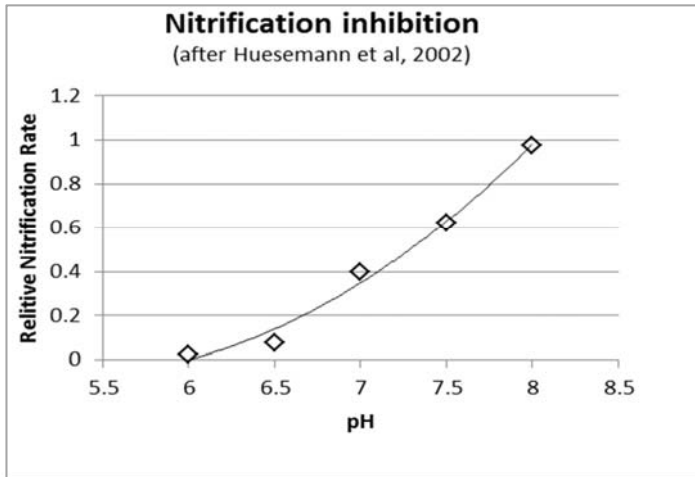
(i.e. pelagic – benthic coupling)
Easier to model
Very little data



Direct effects

(i.e. physiology)
Lots of data
Hard to model





direct physiological responses used so far