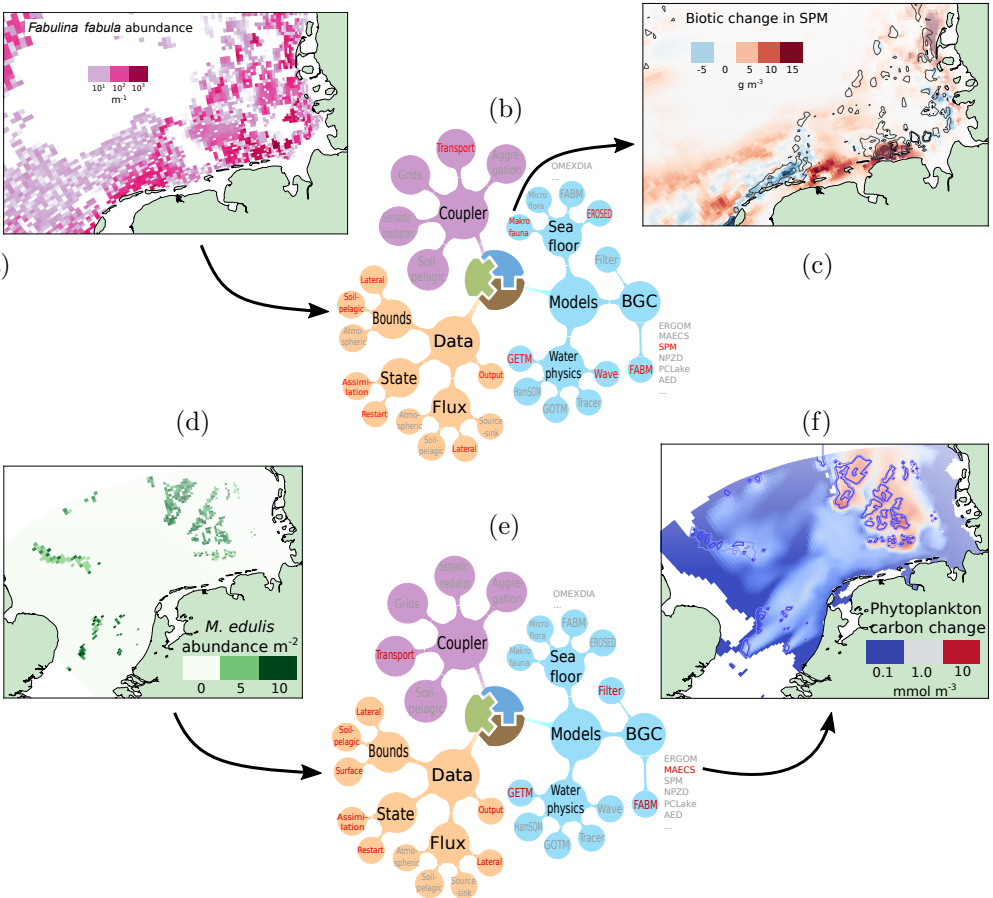

Fabulina fabula abundance
10¹ 10² 10³
m⁻¹
(a)
(b)
Biotic change in SPM
-5 0 5 10 15
g m⁻³
(c)
Transport
Aggre-gation
Grids
Coupler
Semantic mediation
Soil-pelagic
Lateral
Soil-pelagic
Bounds
Atmo-spheric
Data
State
Assimi-lation
Restart
Flux
Atmo-spheric
Soil-pelagic
Lateral
Source -sink
Output
OMEXDIA
...
Micro flora
FABM
EROSED
Makro fauna
Sea floor
Filter
Models
BGC
ERGOM
MAECS
SPM
NPZD
PCLake
AED
...
GETM
Water physics
Wave
FABM
HamSOM
GOTM
Tracer
(d)
(e)
(f)
M. edulis abundance m⁻²
0 5 10
Phytoplankton carbon change
0.1 1.0 10
mmol m⁻³
Surface