A
Additional debris
Paleo-BSR pinch-out? (-1°C)
Modelled BGHS pinch-out to seafloor
Compression
Extension
Debris removal
Region of past hydrate dissociation?
BSR
Gas charging
Hydrate dissociation
B
Additional debris
Modelled BGHS pinch-out to seafloor
Impermeable hydrate layer (the hydrate valve)
Compression
Extension
Transient hydrofracturing
Debris removal
BSR
Too deep for hydrofracturing
Pore pressure build up (+ migration)
Gas charging
Hydrate pressure valve
C
Hydrate cement
Sediment grains
mm/y?
Distributed shear
Localized shear
Compression
Extension
Debris removal
BSR
Hydrate glacier