Time

a

Detrital grains · Diatoms
Detrital clays
Seafloor

b

Seafloor
HV
Metamorphic aureole
Sill
Opal-A / Opal-CT transition
B1 B2
Opal-A
Opal-CT transition

c

HV
Sill
Opal-A / Opal-CT transition affected by the sill
Paleo Opal-A Opal-CT transition
C1

d

Paleo Opal-A / Opal-CT transition affected by the sill
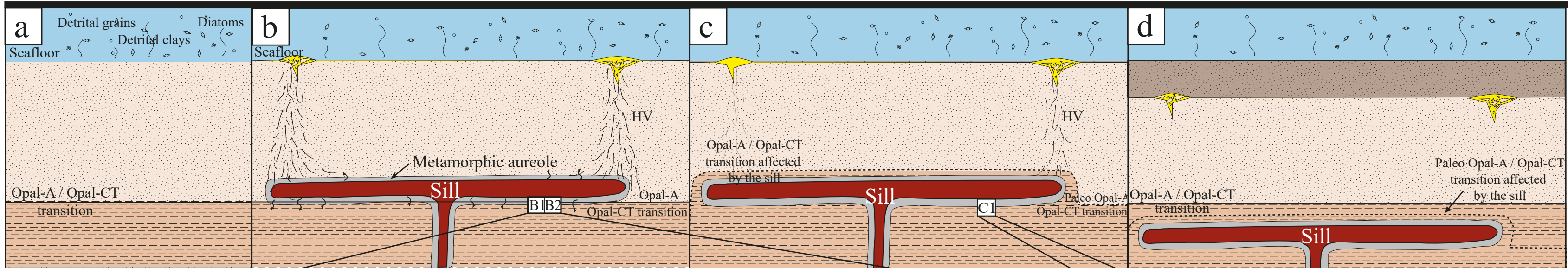Opal-A / Opal-CT transition
Sill

Legend:
- Quartz
- Plagioclases
- Pyroxenes
- Calcite
- Ankerite
- Pyrrhotite
- Chalcopyrite
- Galena
- Clay minerals

B1
Metasomatic fluids
+ Fe, S
Po
Pl
Qtz
Crystallization of plagioclases rims
Pl
100 μm

B2
Hydrothermal fluids
Ga
Cal
Ccp
Px
+ Cu, Pb
+ Ca, Fe, Mg, CO_2
100 μm

C1
Post hydrothermal alteration
100 μm