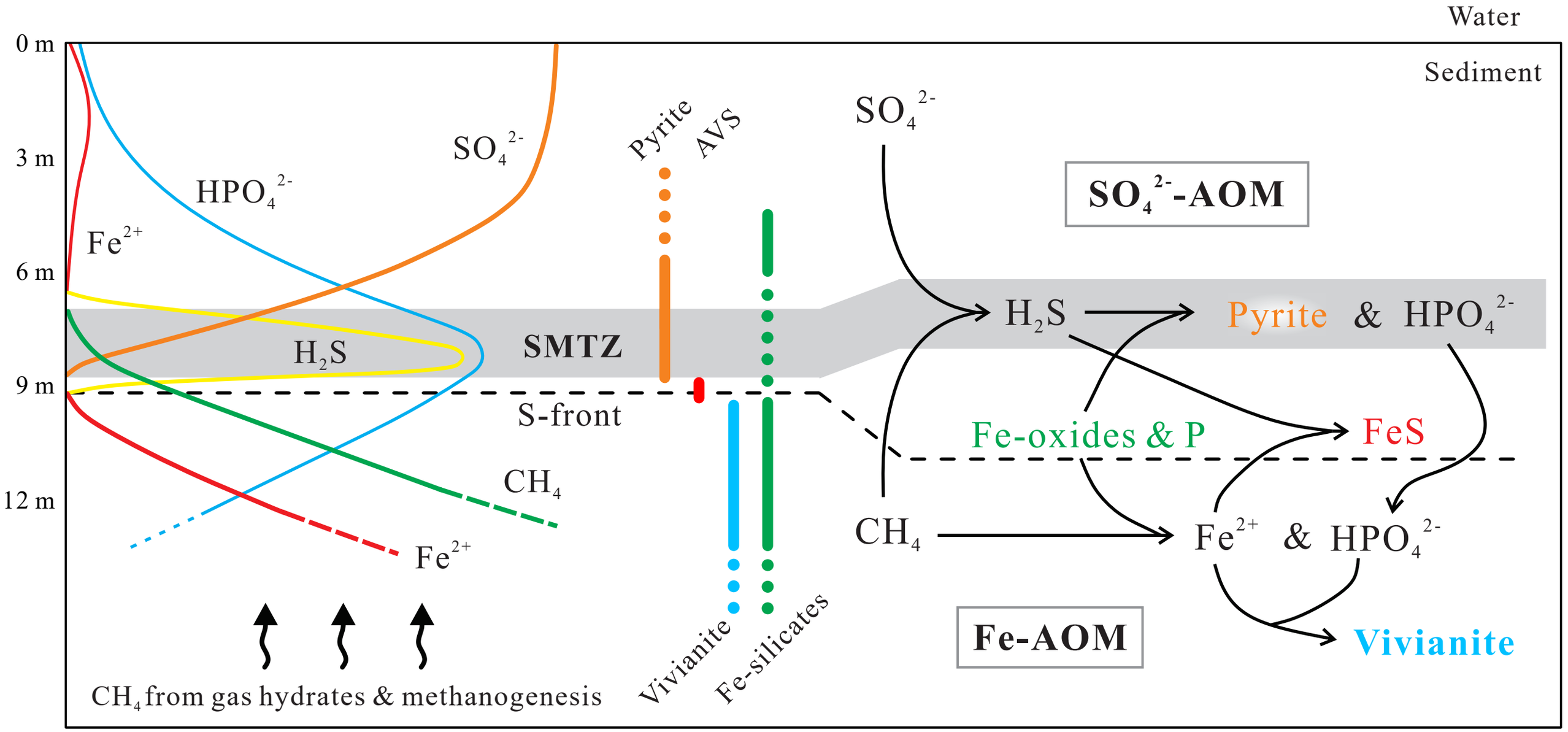
Water
Sediment
0 m
3 m
6 m
9 m
12 m
SO_4^{2-}
HPO_4^{2-}
Fe^{2+}
H_2S
CH_4
Fe^{2+}
SMTZ
S-front
Pyrite
AVS
Vivianite
Fe-silicates
CH_4 from gas hydrates & methanogenesis
SO_4^{2-}
SO_4^{2-}-AOM
H_2S
Pyrite & HPO_4^{2-}
Fe-oxides & P
FeS
CH_4
Fe^{2+} & HPO_4^{2-}
Fe-AOM
Vivianite