Petroleum systems VI: Reefal trap VI

This is the last of six pages using sketches of a potential reefal trap to illustrate the concept of petroleum systems. Further pages will use other reservoirs and traps as examples illustrating the concept of petroleum systems.

Upwelling on east side of basin induces deposition of organic-rich potential source rock. Reef develops on shelf edge during a pause in siliciclastic flux from land with drier climate there.

Reverse faulting juxtaposes reefal talus against sandstones to give migration pathway; drape of siliciclastics over reef gives small trap.

Reverse faulting juxtaposes reefal talus against shale to give a fault trap for an accumulation in the reefal talus.