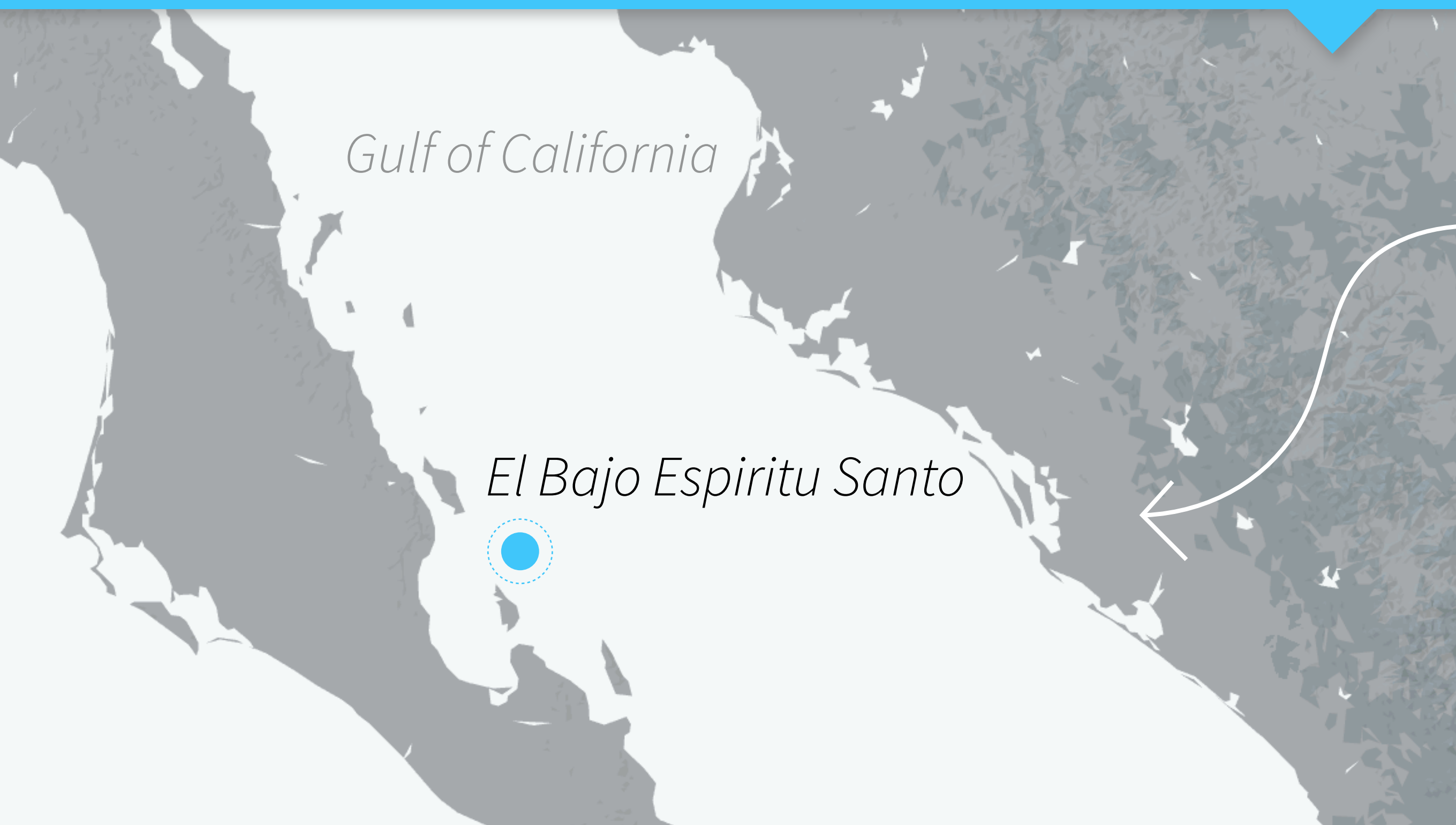


Why do *some* seamounts function as ocean “hotspots” promoting elevated productivity, biomass, and predator diversity?



seamount (n).
a submarine mountain

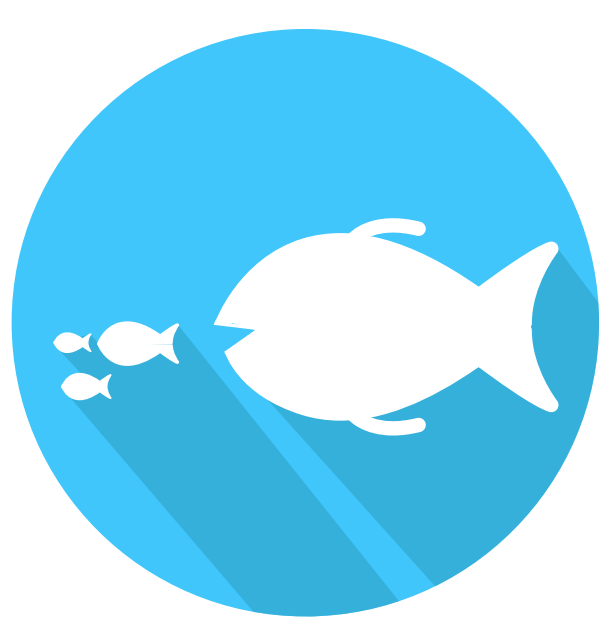


At a shallow seamount, *Espiritu Santo* in the Gulf of California, a unique mix of open-ocean and reef-dwelling fish species co-occur.

Why are they here?



spawning



foraging

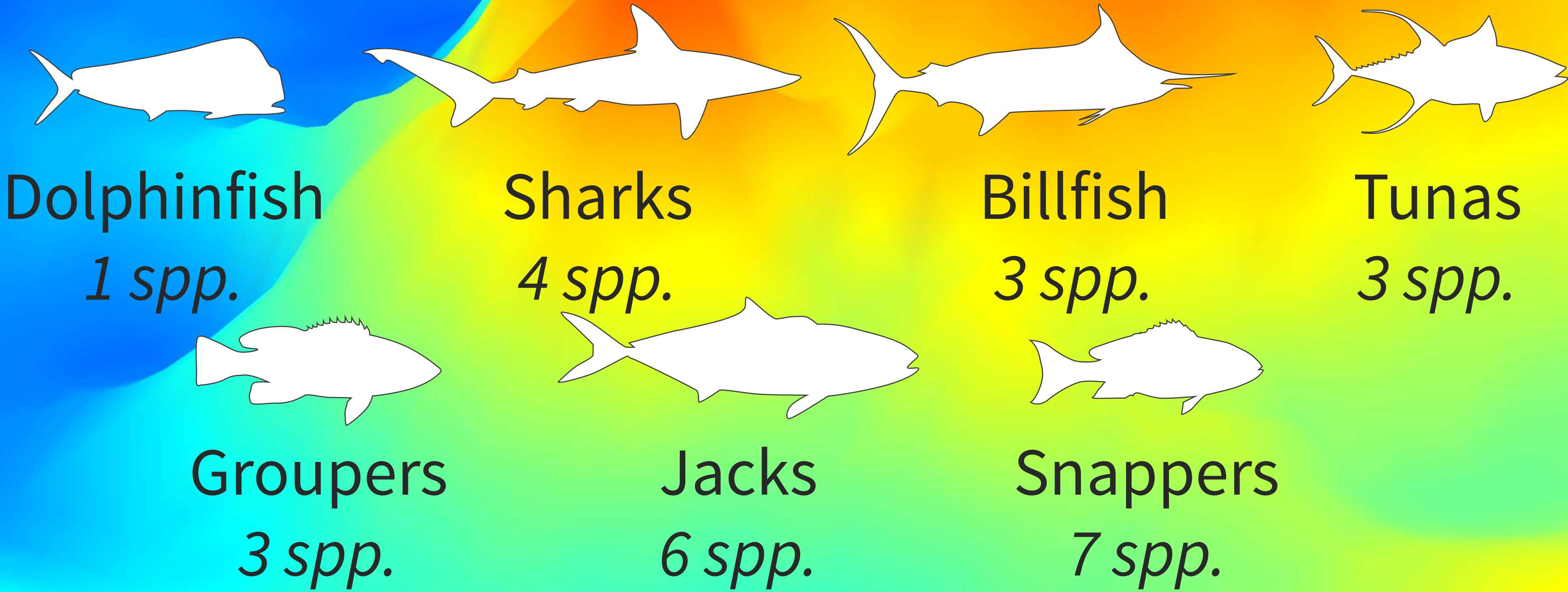


refuge



navigation

Warm and cold water pulses attract different species groupings from these families:



RESULT

The number of species (richness) is greatest when **both** cold and warm water masses surround *Espiritu Santo*.

CONCLUSION

The physical shape of a seamount *and* local patterns of ocean water masses can combine to create a greater range of habitat types where more fish species can co-occur exploiting a greater breadth of resources.

