



Oregon Shelf Marine Connectivity

Particle tracking using ROMS circulation (1 km resolution) of 2002 reveal seasonal and spatial patterns of connectivity among proposed Oregon territorial sea marine reserves.

Shown: Connectivity (% of released particles) reaching another reserve.

Period	1-10%	10-40%	>40%
Downwelling	←	←	←
Upwelling	←	←	←

Alongshore connectivity is highly seasonal; upwelling periods have high N→S connectivity; downwelling periods have high S→N connectivity. Alongshore connectivity is greater in winter downwelling. Cape Blanco is a barrier to connectivity, esp. in summer. Larger reserves are more connected than small reserves.

