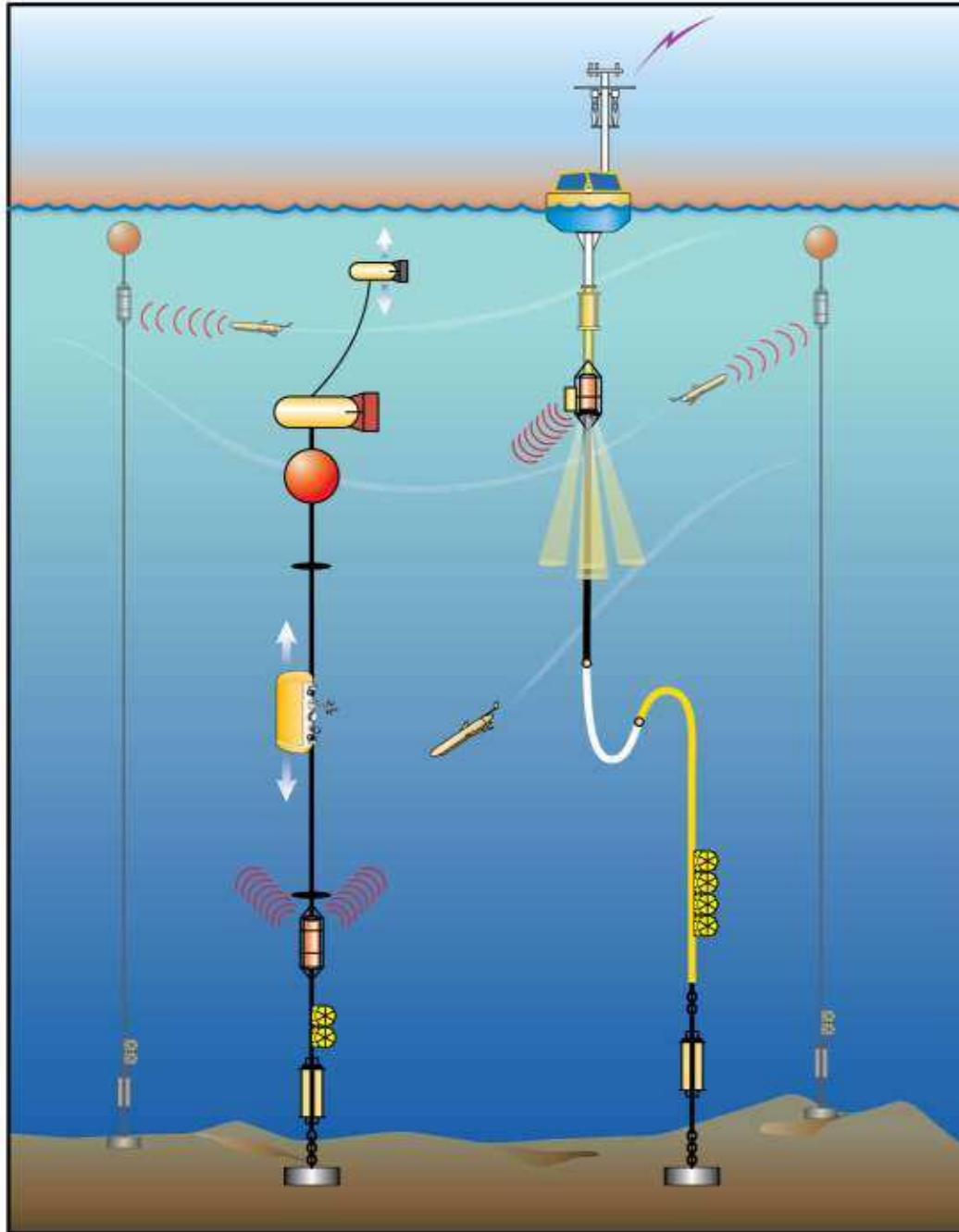


# The Ocean Observatories Initiative





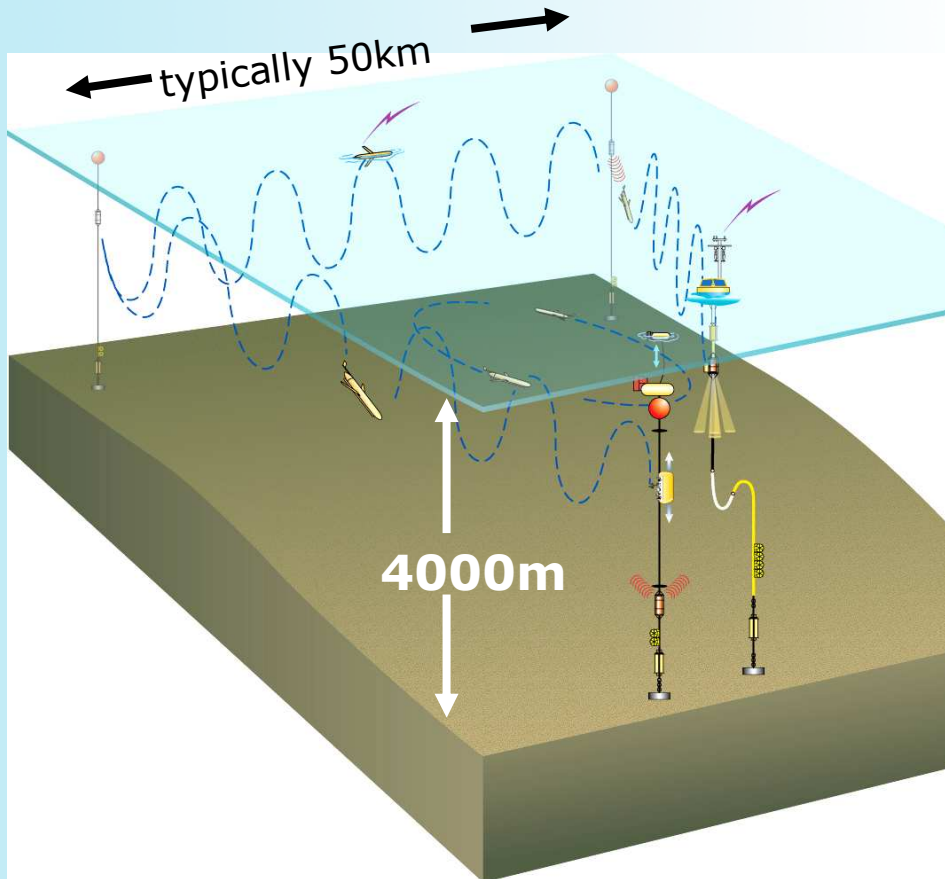
### Surface mooring:

- atmospheric measurements
- surface data like CO<sub>2</sub>
- high-frequency T/S, currents
- can add atmospheric, surface and inductive sensors
- satellite telemetry and power
- acoustic communication to seafloor and profiler mooring

### Profiler mooring:

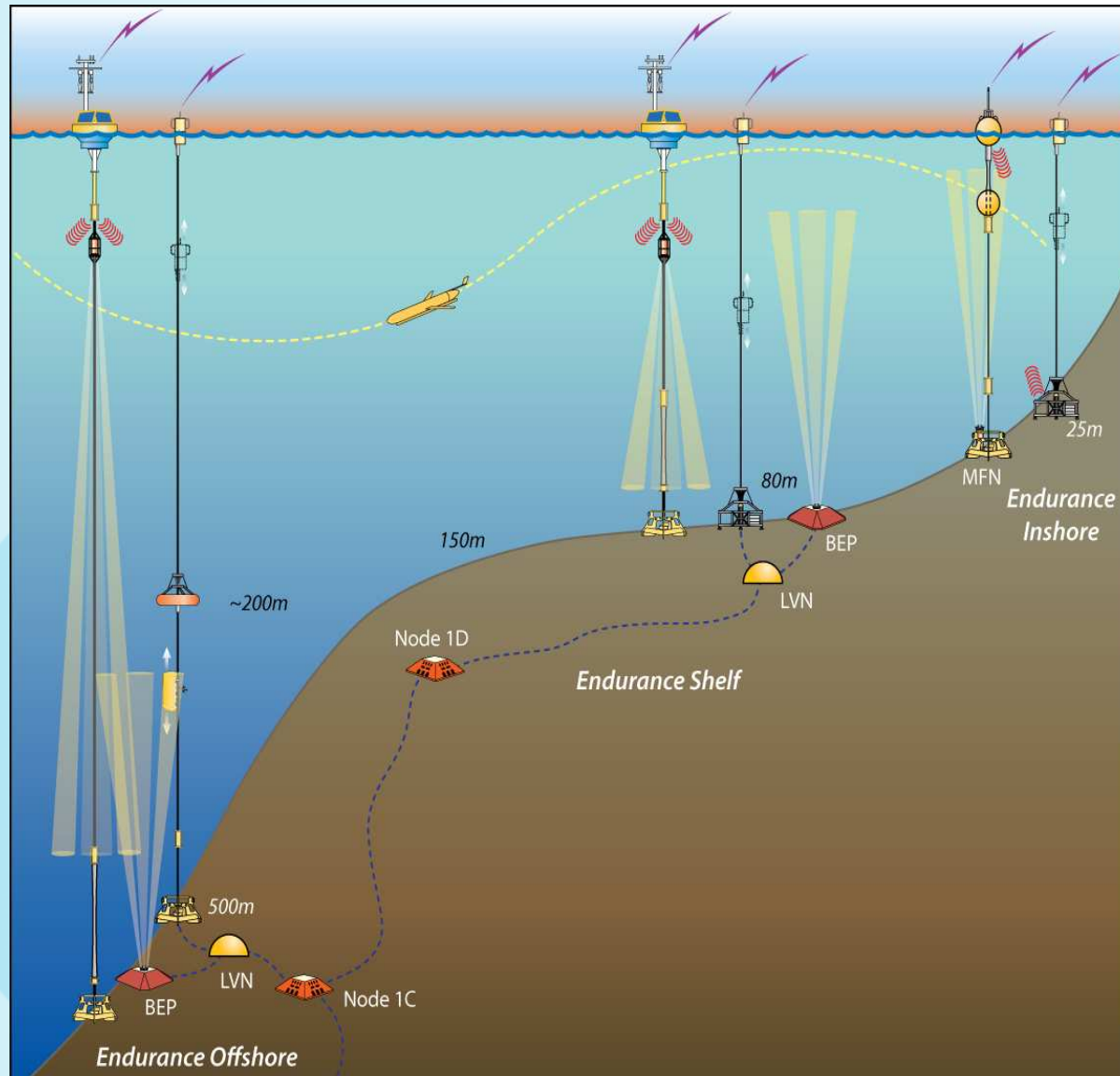
- biogeochemical profiles in productive zone
- reduced fouling and "reef effect"
- physical/chemical profiles to seafloor
- can park at controllable depths for timeseries sampling
- can add user sensors
- inductive communication through entire mooring
- satellite telemetry and
- acoustic communication to surface mooring

## Horizontal meso-scale footprint:



- 3 gliders with phys/chem/biol sensors observe evolution on sections
- 2 moorings with fixed near-surface package resolve rapid changes and processes
- triangle detects directions (advection, gradients) and allows budget studies
- 2 moorings also for heavy fixed-depth sensors
- telemetry via gliders

# Endurance Oregon



# Pioneer New England

