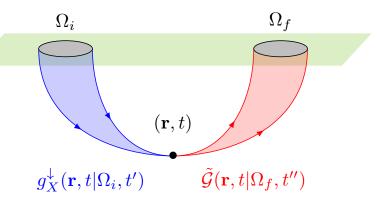
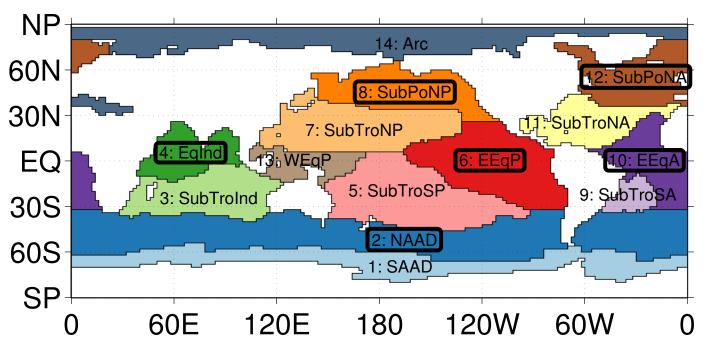
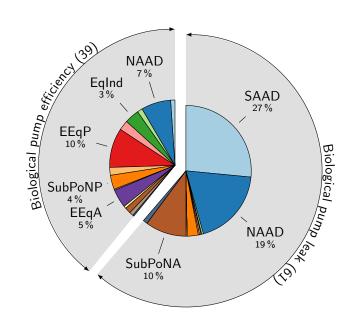
The plumbing of the global biological pump

Benoît Pasquier and Mark Holzer

- Biology strips nutrients from surface
- Tracking phosphorus: Green functions
- Reduced ocean surface to 14 regions
- Paint the plumbing of the pump

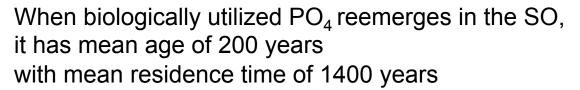


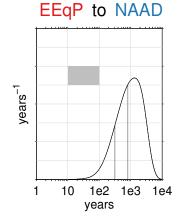


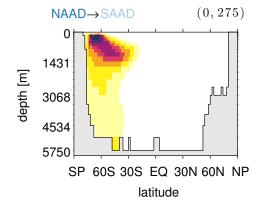


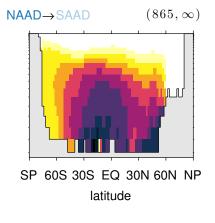
75% of the biological pump leak is due to the Southern Ocean

The SO is the destination of 67% of nutrients









The SO → SO biological teleconnection is via deep, slow, eddy-diffusive paths