Winter:
Surface heat loss and advective cooling create initial cold anomaly.

Spring:
Cold anomaly is trapped beneath mixed layer.

Summer:
Re-emergence via diffusion.

Autumn:
Re-emergence via entrainment.

Mixed layer depth shallows seasonally.

Surface heating of shallow mixed layer.

Strong temperature gradient drives diffusion.

Mixed layer deepens and entrains cold water.

Surface heat loss.

Advective cooling.

Mixed layer depth.