

# Lagrangian Float Data Visualization Transcription

These are some of the results from the mixed layer Lagrangian float. The float bobs up and down. It floats along with the water, then it bobs up and down at the same time. You can see a couple of things going on here. First of all you can see the salinity decreasing over time from when we deployed it in September off into December and January. You can also see these little very short-term rain events going on at the surface right here and right here. You can see those with the surface salinity too. We think these short-term rain events have some impact on the surface salinity and the evolution of it, and the changes of it over time.

You can also see the boundary between the yellow and the green. It would be what we would call the mixed layer, the depths of the mixed layer. The mixed layer is a homogenous layer at the surface which is generally completely well mixed in terms of salinity and temperature. You can see that the mixed layer over time from September into December and January gets deeper and deeper. This indicates mixing of the surface waters with the waters below, which probably has a large impact on the salinity within the mixed layer as well. We're balancing both input of fresh water from the surface and the input of lower salinity water through the base of the mixed layer. We're trying to find out what that balance is.

This is just a quick look at some of the short-term rain events that occurred. The ocean tends to equilibrate itself fairly rapidly. This is 4 hours after a rain event, and this is 8 hours after a rain event, and then 28 hours after a rain event. So the ocean comes back into equilibrium and back to its previous state within a day or two.