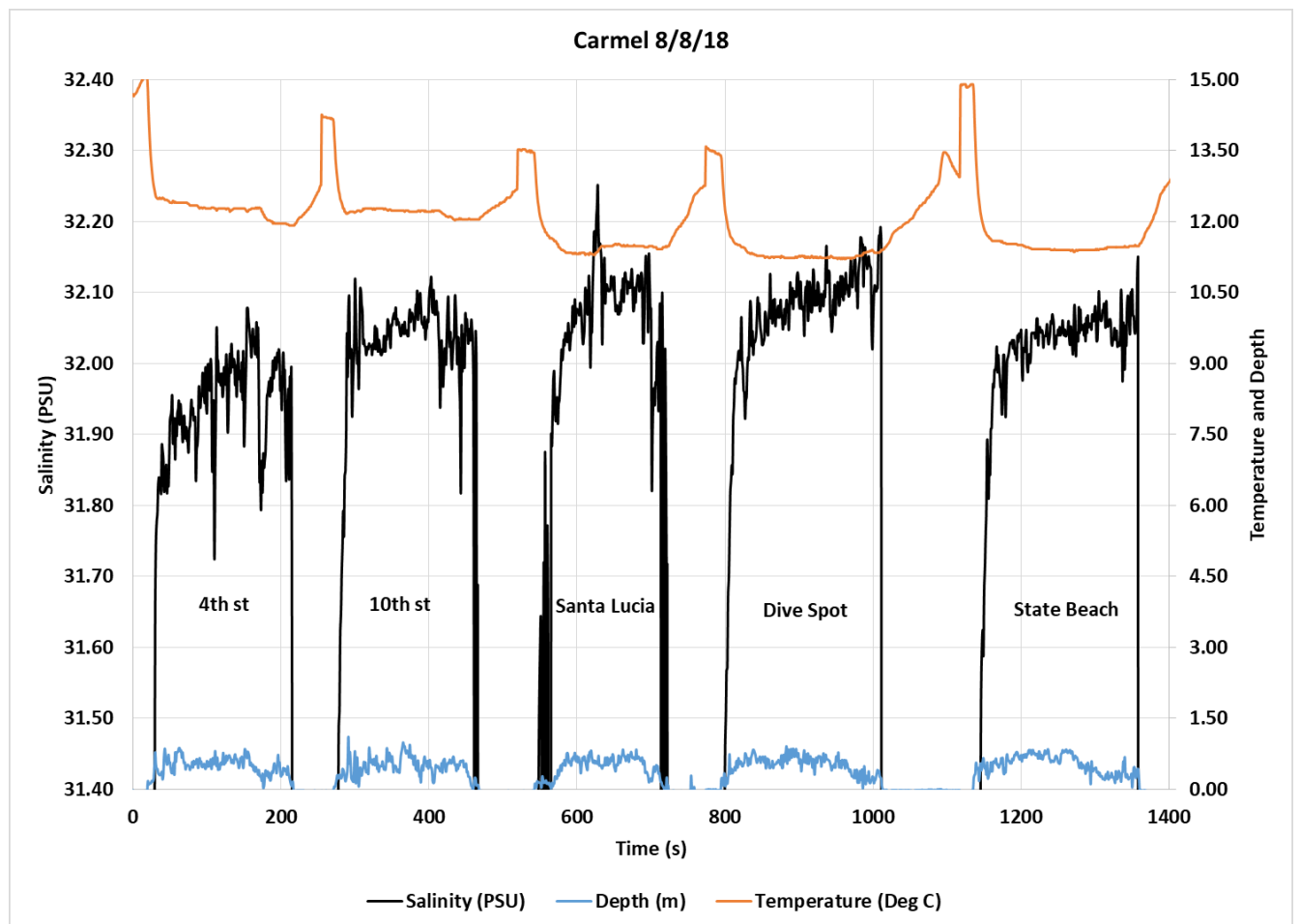


## Carmel Area Ocean Measurements

The CTD sensor was used to sample various points along the Carmel City Beach and around Carmel Point and the Carmel River Lagoon. The region sampled is from 0 to 20 yards out at each location with the sensor hand held and moving about. Turbulence was moderate with breaking waves on the shore at Carmel Beach, but relatively smooth at the State Beach. Santa Lucia and the Dive Spot were heavy with kelp and the Dive spot had considerable surge.

Of note is that 4<sup>th</sup> street is near Pescadero Creek, which is not flowing to the ocean, but has pooled brackish water. 4<sup>th</sup> street is also at the beach along the Pebble Beach 10<sup>th</sup> fairway which is irrigated with reclaimed water. Potential reasons for the slightly lower salinity there.



For fun, the Carmel River Lagoon was also sampled. Water there is not flowing into the ocean, and the surf is not flowing back into the lagoon. The lagoon has been stagnant for 2 months. A steady measurement is shown in the lagoon's still environment vs. the beach's breaking waves.

