## West Coast Data Figures

Overlap of Quantity of Non-Missing Data

Between Selected Variables

## # of Data Points Shared Between Selected Variables

	nh4-	1.3277e+05	1.3224e+05	1.3222e+05	9.0156e+04	1.2371e+05	1.0067e+05	1.0763e+05	1.1484e+05	1.1410e+05	1.3277e+05
	po4 -	4.8181e+05	4.7770e+05	4.7484e+05	2.6258e+05	4.5697e+05	3.9239e+05	4.0377e+05	4.3516e+05	4.8181e+05	1.1410e+05
	sio2-	4.4419e+05	4.4007e+05	4.3724e+05	2.6494e+05	4.1533e+05	3.9419e+05	4.1007e+05	4.4419e+05	4.3516e+05	1.1484e+05
	no3-	4.1158e+05	4.0790e+05	4.0578e+05	2.5088e+05	3.8968e+05	3.8230e+05	4.1158e+05	4.1007e+05	4.0377e+05	1.0763e+05
Variable 2	no2-	3.9613e+05	3.9289e+05	3.9072e+05	2.4302e+05	3.7991e+05	3.9613e+05	3.8230e+05	3.9419e+05	3.9239e+05	1.0067e+05
Varia	o2 <i>-</i>	6.8107e+05	6.7995e+05	6.8055e+05	4.3358e+05	6.8107e+05	3.7991e+05	3.8968e+05	4.1533e+05	4.5697e+05	1.2371e+05
	chl-	4.5773e+05	4.5420e+05	4.5078e+05	4.5773e+05	4.3358e+05	2.4302e+05	2.5088e+05	2.6494e+05	2.6258e+05	9.0156e+04
	salt-	7.1159e+05	7.1051e+05	7.1159e+05	4.5078e+05	6.8055e+05	3.9072e+05	4.0578e+05	4.3724e+05	4.7484e+05	1.3222e+05
	temp-	7.1594e+05	7.1594e+05	7.1051e+05	4.5420e+05	6.7995e+05	3.9289e+05	4.0790e+05	4.4007e+05	4.7770e+05	1.3224e+05
(	depth -	1.1607e+06	7.1594e+05	7.1159e+05	4.5773e+05	6.8107e+05	3.9613e+05	4.1158e+05	4.4419e+05	4.8181e+05	1.3277e+05
		depth	temp	salt	chl	02	no2	no3	sio2	po4	nh4

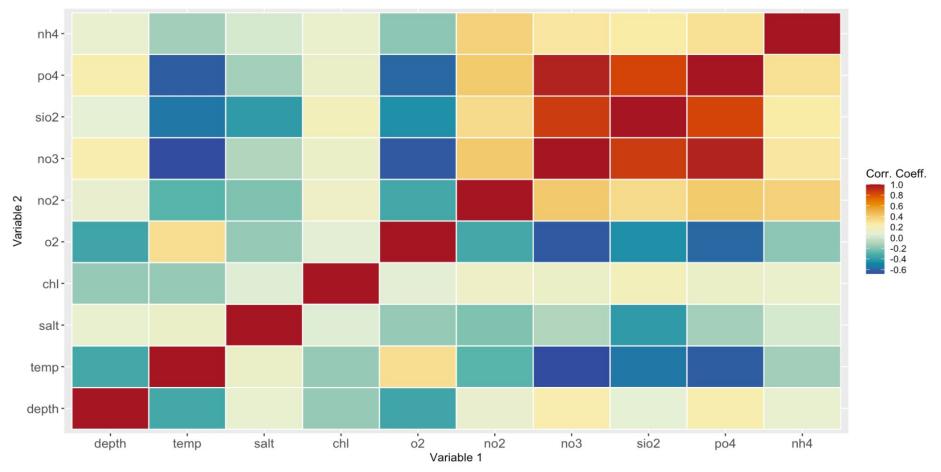
Variable 1

Overlap Count

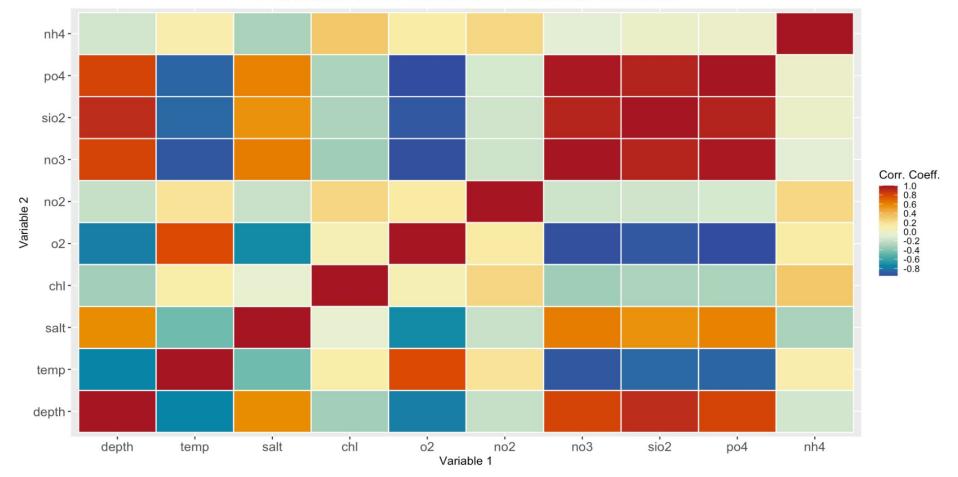
1e+06 9e+05 8e+05 7e+05 6e+05 5e+05 4e+05 3e+05 2e+05 1e+05

## Correlation Between Selected Variables

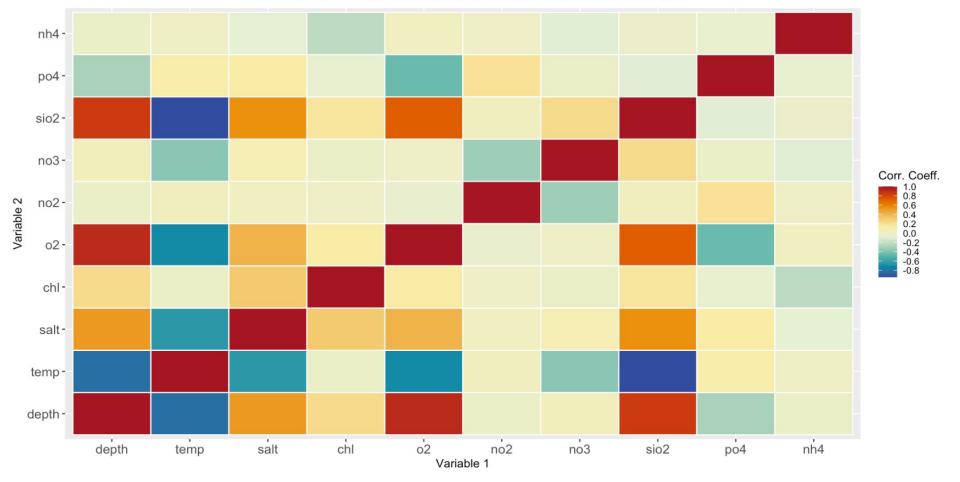
## Correlation R for Selected Variables for 0-50m



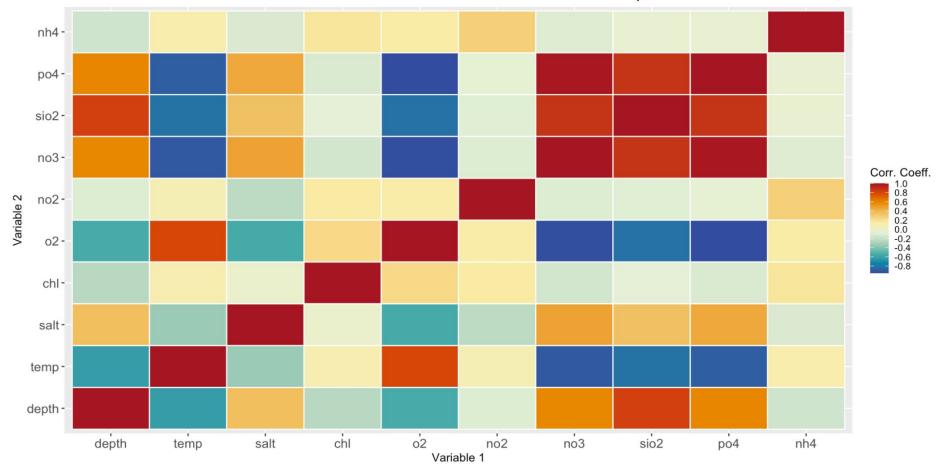
## Correlation R for Selected Variables for 50-500m



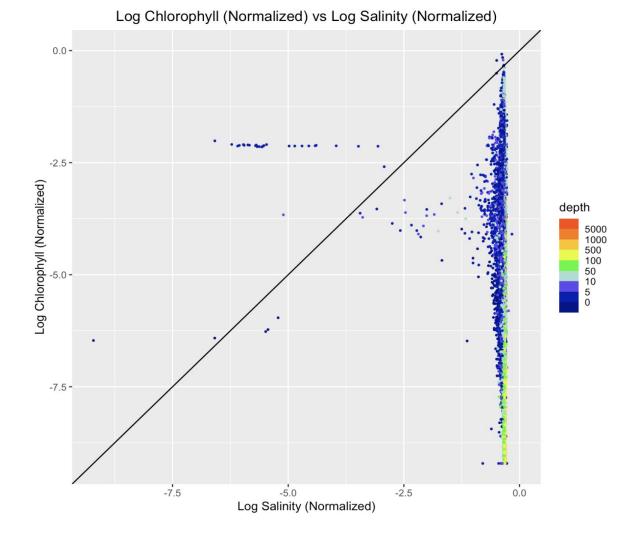
## Correlation R for Selected Variables for 500-5200m

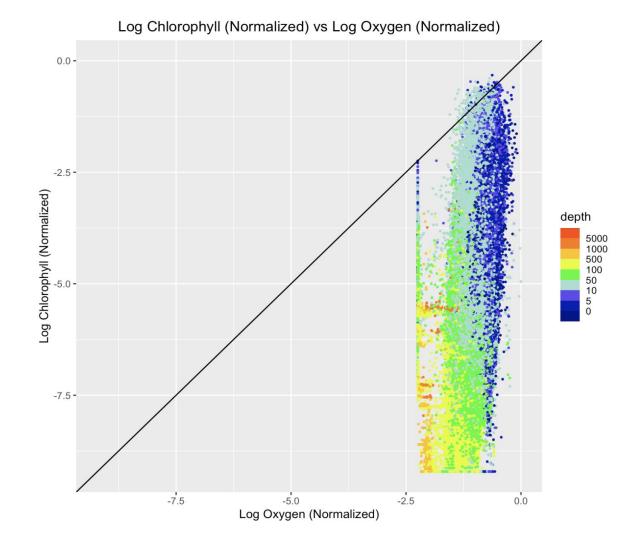


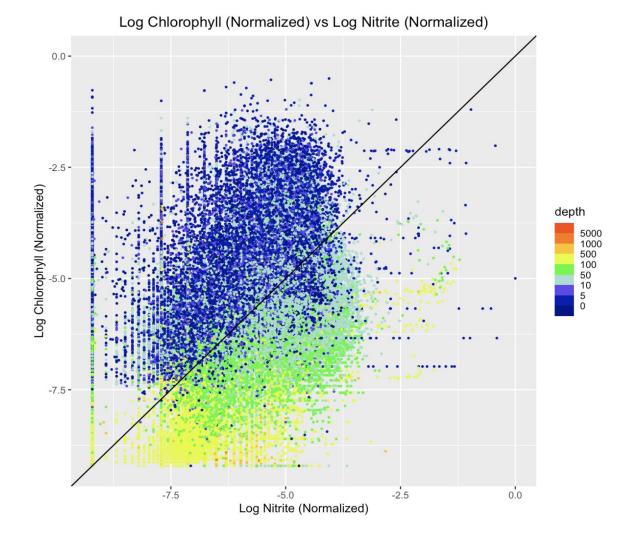
## Correlation R for Selected Variables for all Depths

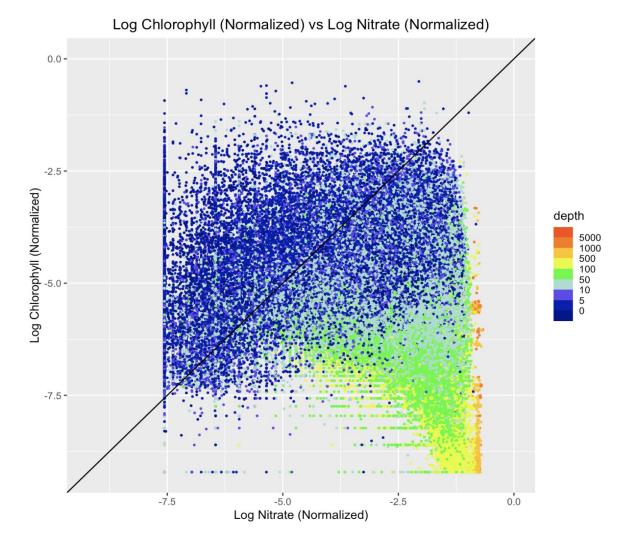


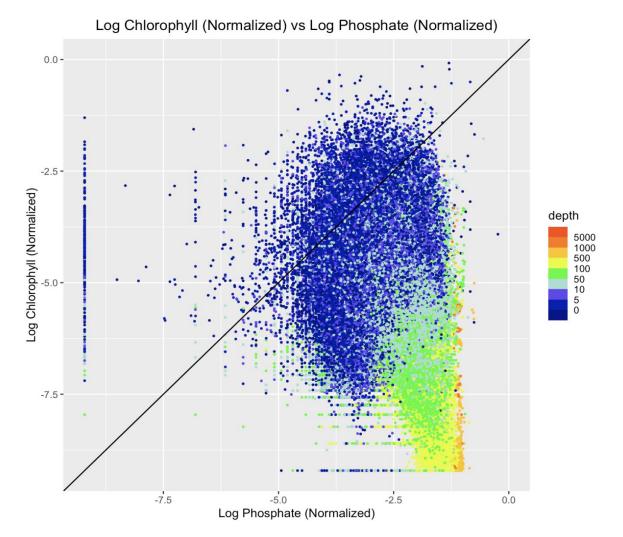
# Scatterplots of the Log Transformation of Selected Variables vs Chlorophyll

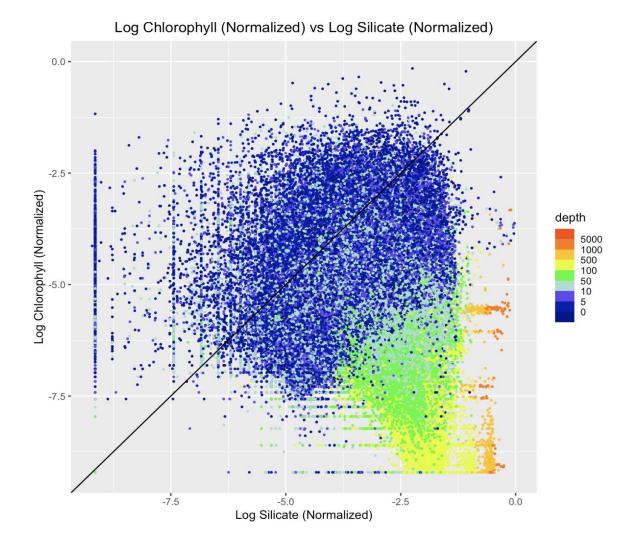




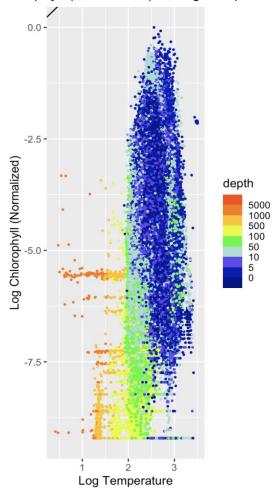


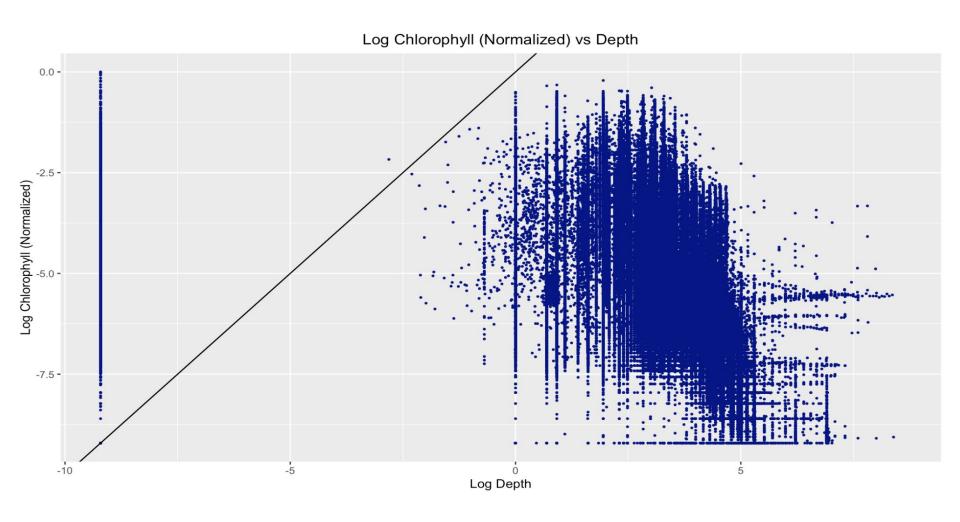






Log Chlorophyll (Normalized) vs Log Temperature

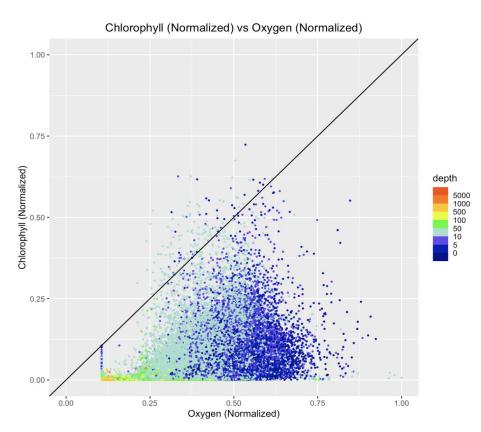




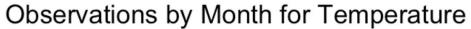
Note: The Plots Were Much Worse Without the

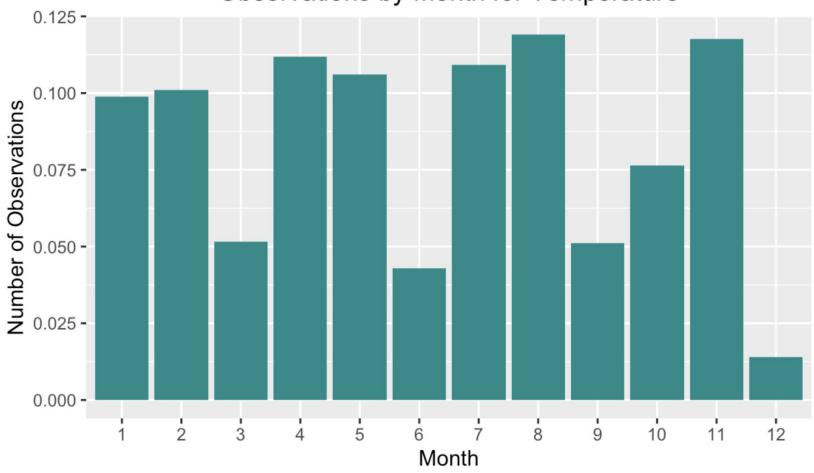
Log Transformation

## Best of the plots without the transformation:

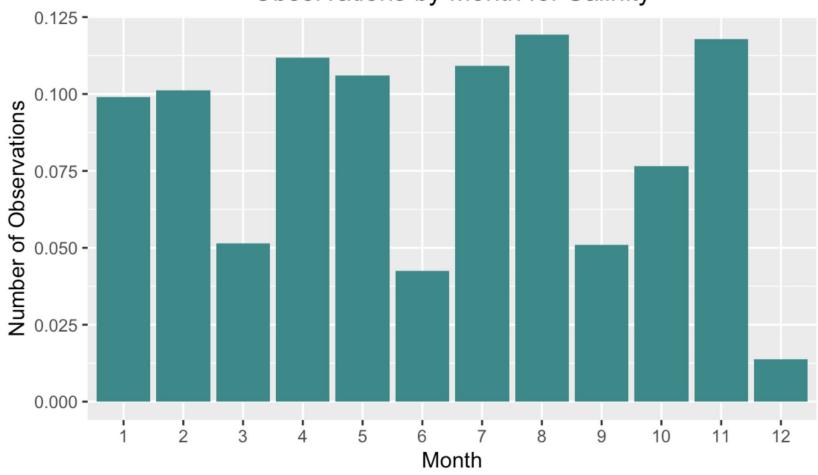


## Relative Frequency Barplots of Non-Missing Data for Selected Variables by Month

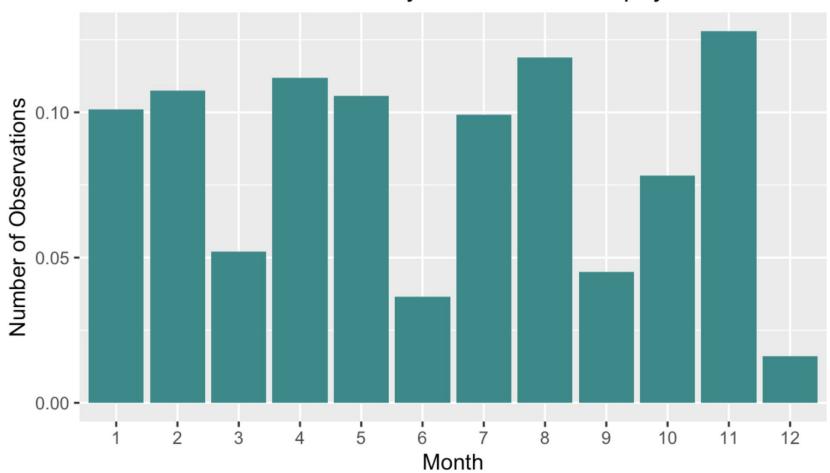




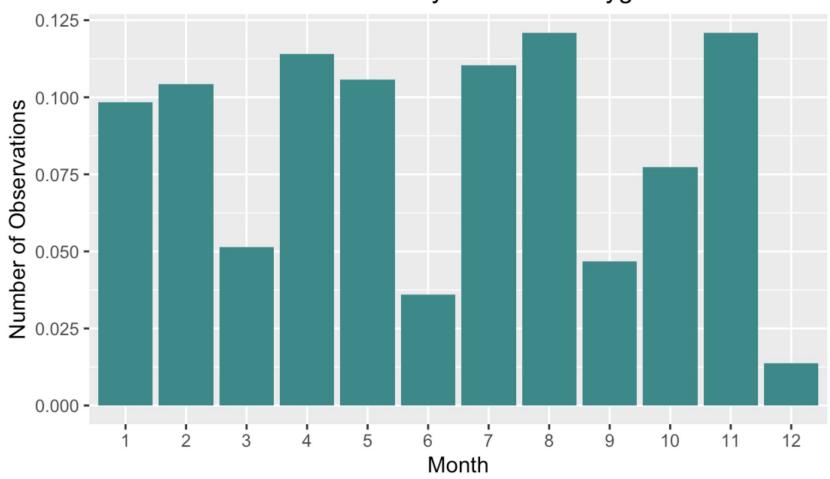




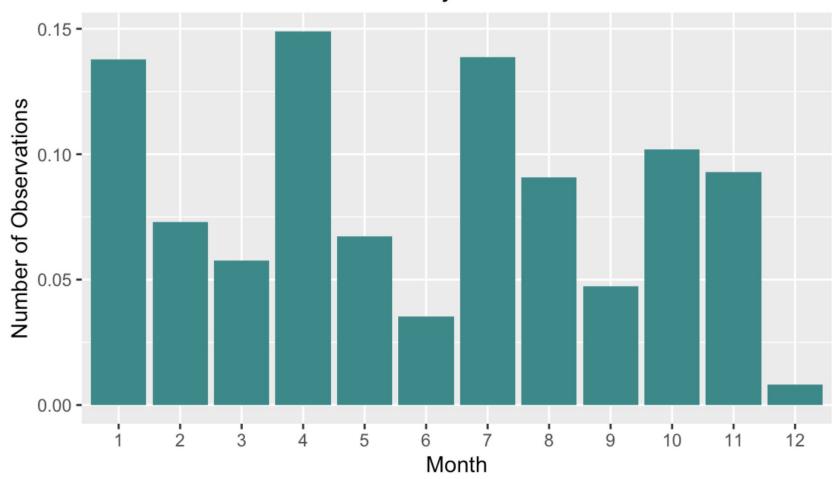
## Observations by Month for Chlorophyll



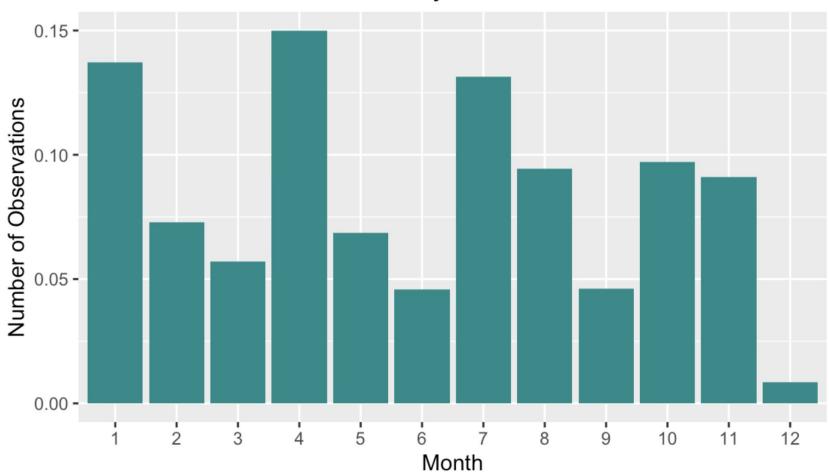
## Observations by Month for Oxygen



## Observations by Month for Nitrite



## Observations by Month for Nitrate



## Observations by Month for Silicate

