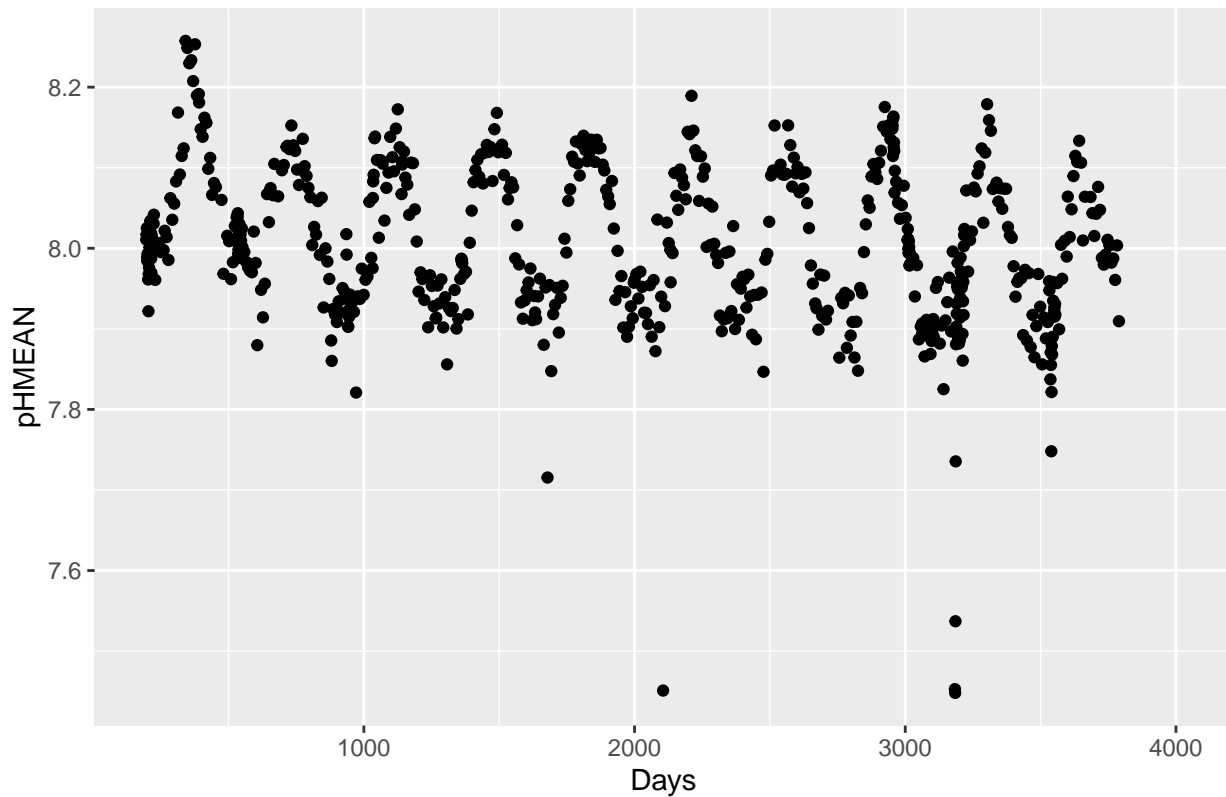


EDA

```
## Warning: Removed 48 rows containing missing values (geom_point).
```

pHMEAN Plotted against Days



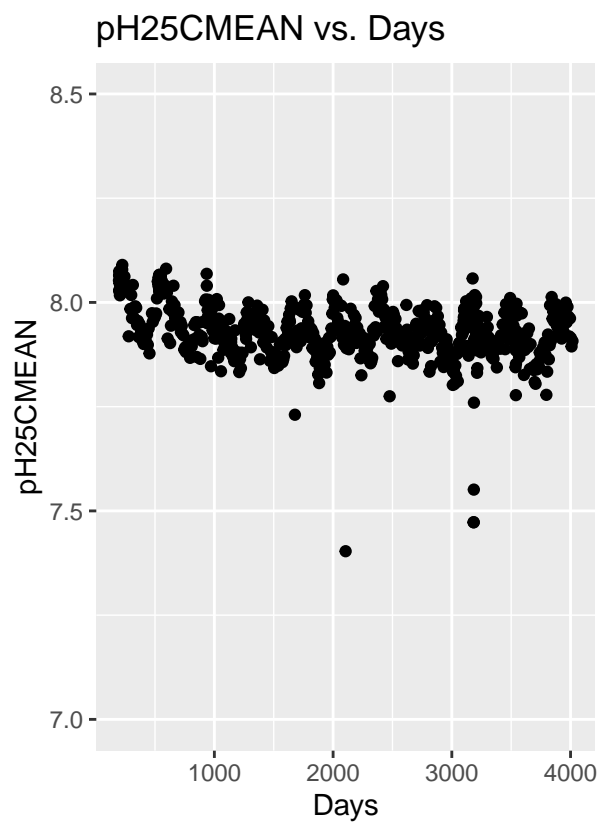
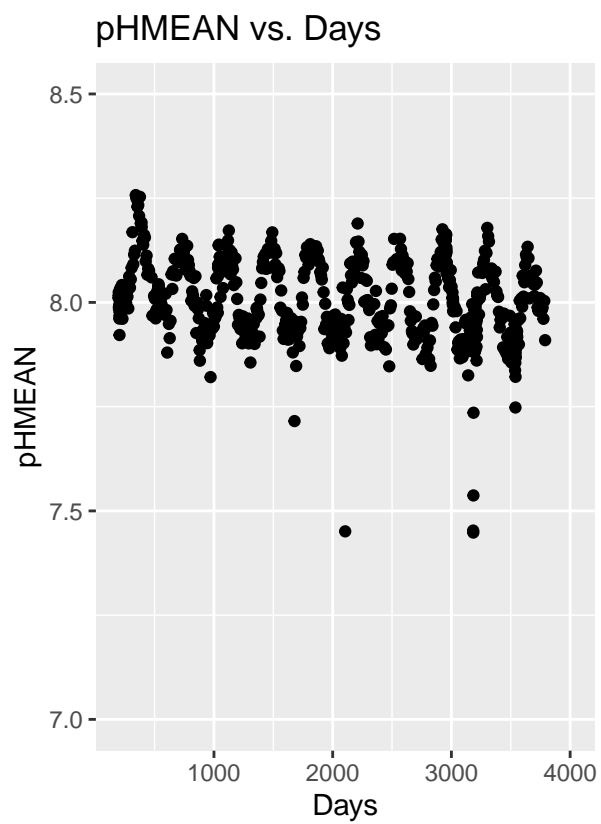
```
##      pHMEAN      Date
## 1 7.448091 9/20/2018
```

The smallest pH value was 9/20/2018 – About a week after Hurricane Florence hit NC

All pH Recordings

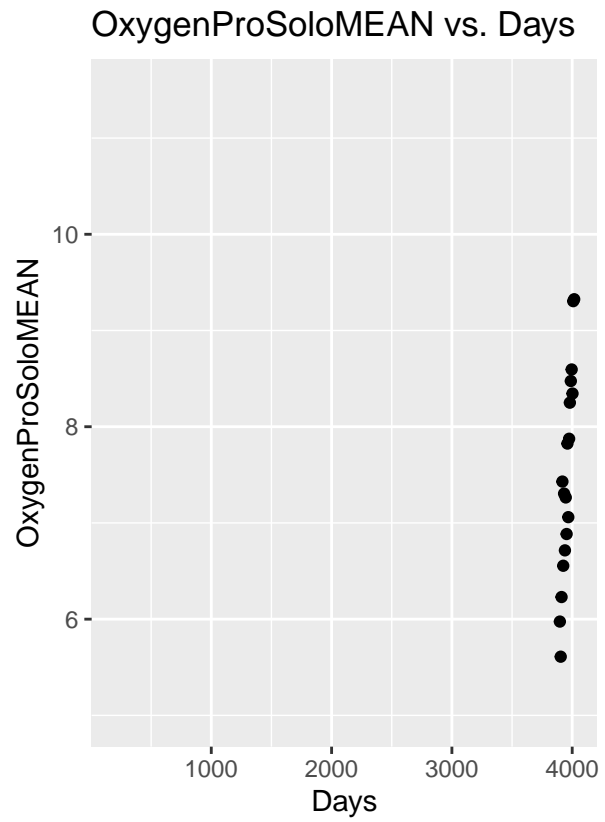
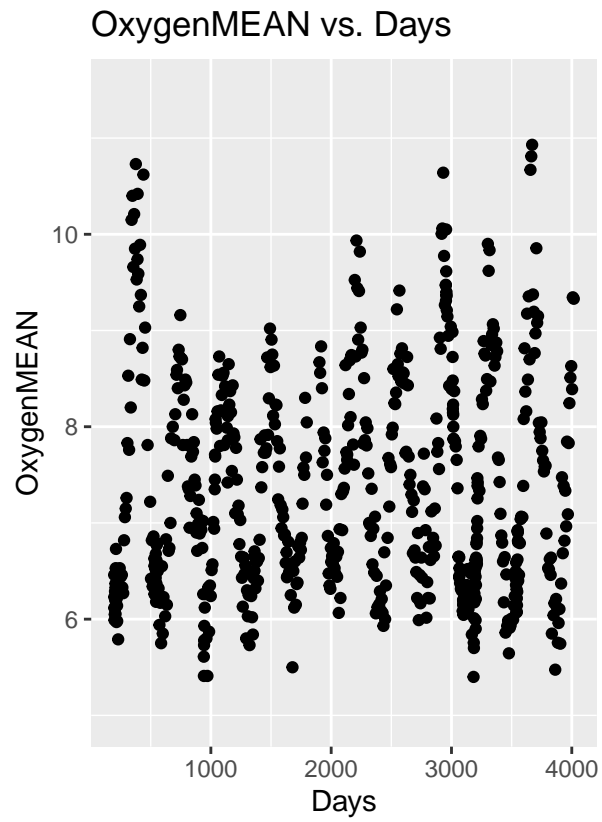
```
## Warning: Removed 48 rows containing missing values (geom_point).
```

```
## Warning: Removed 10 rows containing missing values (geom_point).
```



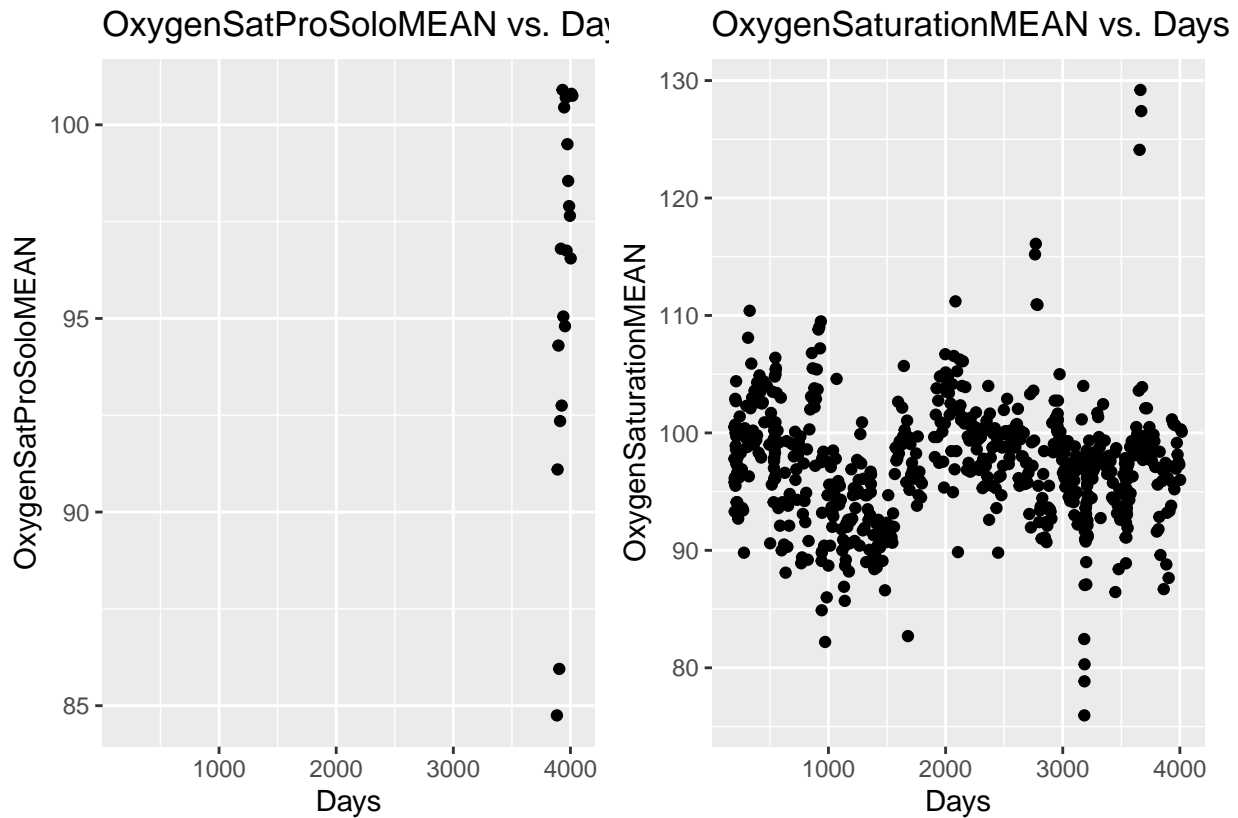
```
## Warning: Removed 31 rows containing missing values (geom_point).
```

```
## Warning: Removed 661 rows containing missing values (geom_point).
```



```
## Warning: Removed 659 rows containing missing values (geom_point).
```

```
## Warning: Removed 30 rows containing missing values (geom_point).
```

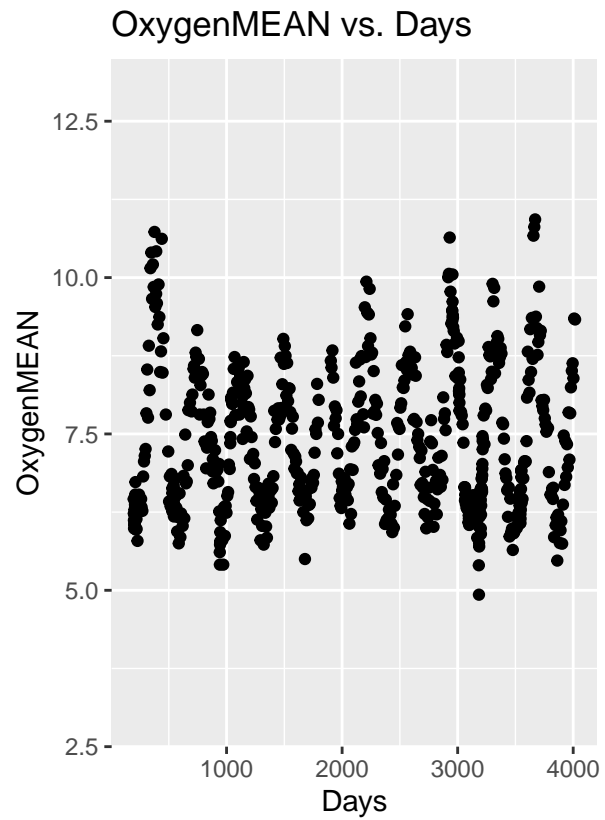
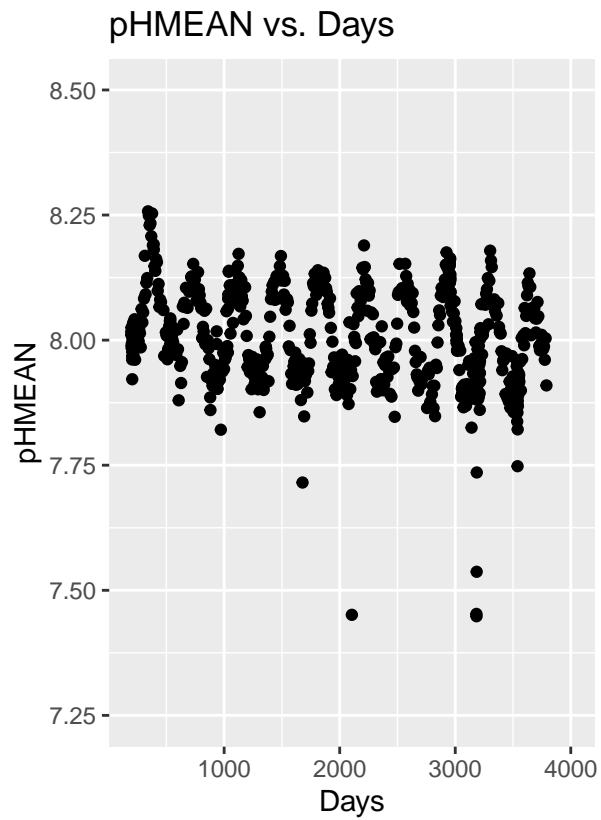


```
##   OxygenSaturationMEAN      Date OxygenMEAN TemperatureMEAN
## 1          75.95 9/20/2018         4.93         27.15
## 2          129.20 1/12/2020        10.81         14.10
```

Max mean oxygen saturation: 129.20% on 1/12/2020 – cooler temp than min Min mean oxygen saturation: 75.95% on. 9/20/2018

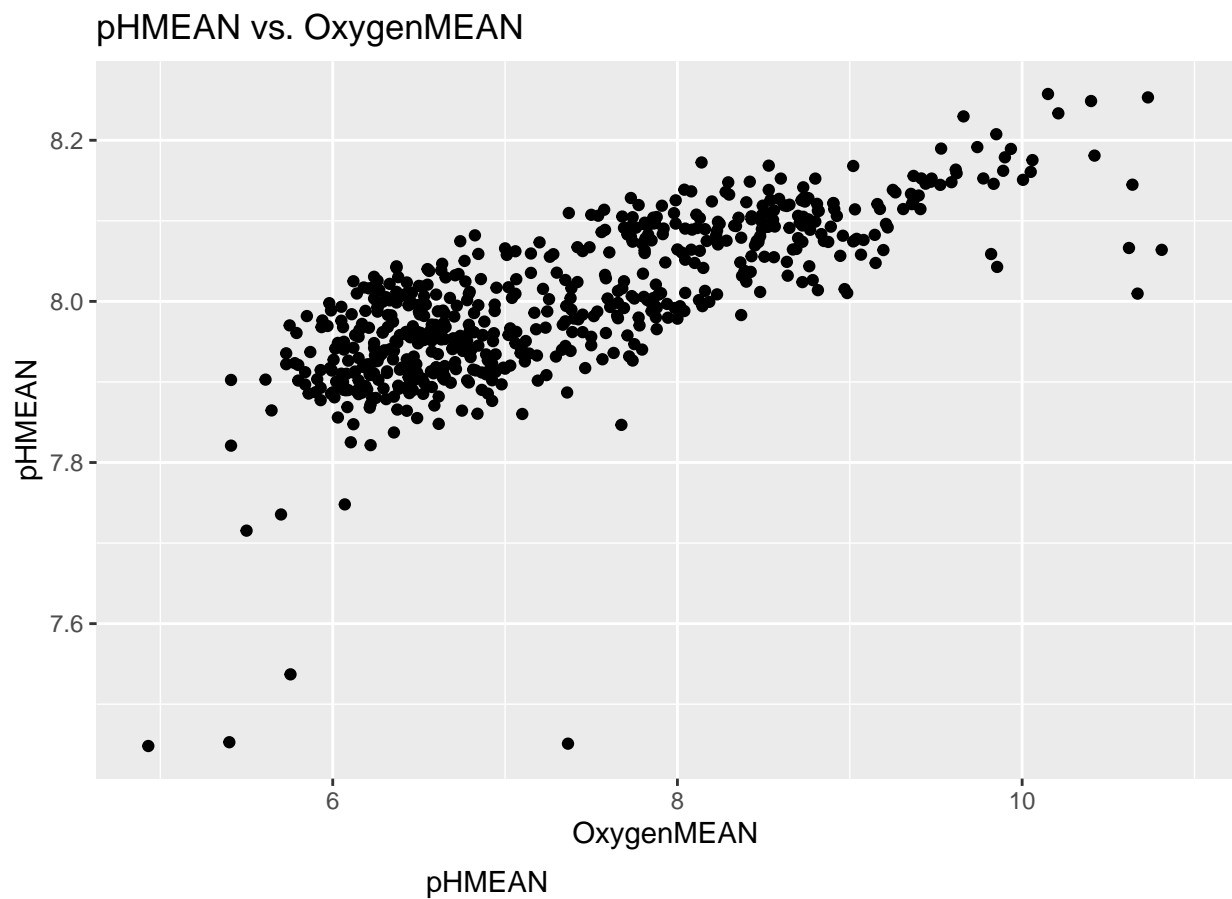
```
## Scale for 'y' is already present. Adding another scale for 'y', which will
## replace the existing scale.
## Scale for 'y' is already present. Adding another scale for 'y', which will
## replace the existing scale.

## Warning: Removed 48 rows containing missing values (geom_point).
## Warning: Removed 30 rows containing missing values (geom_point).
```



The mean oxygen measured by ProODO appears to follow a similar pattern of peaks as the mean pH calculated using CO2SYS.

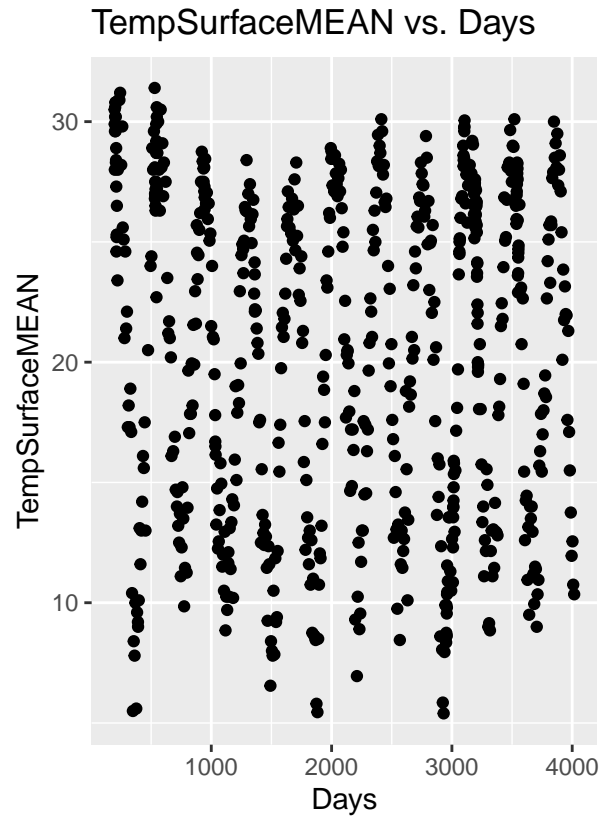
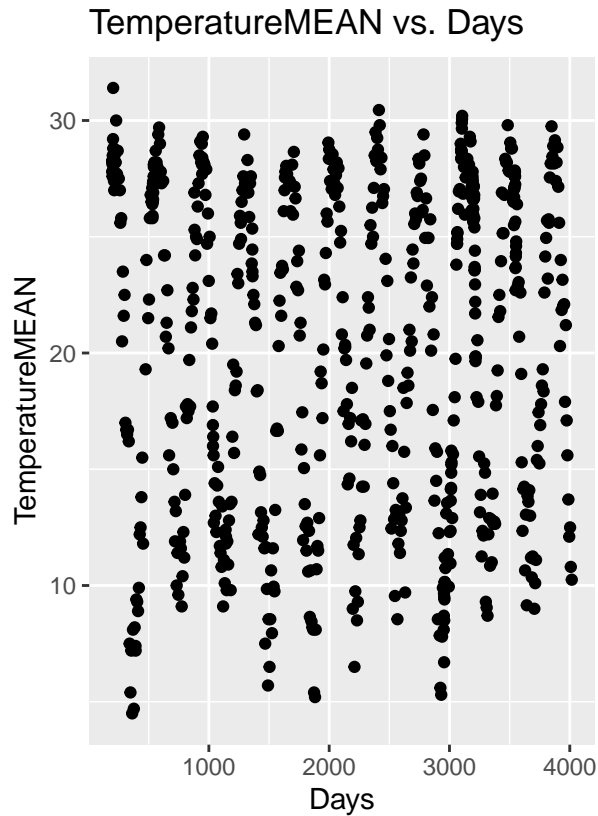
```
## Warning: Removed 68 rows containing missing values (geom_point).
```



There appears to be a pretty strong positive correlation between the mean oxygen and pH levels.

```
## Warning: Removed 8 rows containing missing values (geom_point).
```

```
## Warning: Removed 13 rows containing missing values (geom_point).
```



```
## Warning: Removed 30 rows containing non-finite values (stat_density).
## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 68 rows containing missing values
## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 30 rows containing missing values
## Warning: Removed 68 rows containing missing values (geom_point).
## Warning: Removed 48 rows containing non-finite values (stat_density).
## Warning in ggally_statistic(data = data, mapping = mapping, na.rm = na.rm, :
## Removed 48 rows containing missing values
## Warning: Removed 30 rows containing missing values (geom_point).
## Warning: Removed 48 rows containing missing values (geom_point).
## Warning: Removed 8 rows containing non-finite values (stat_density).
```

