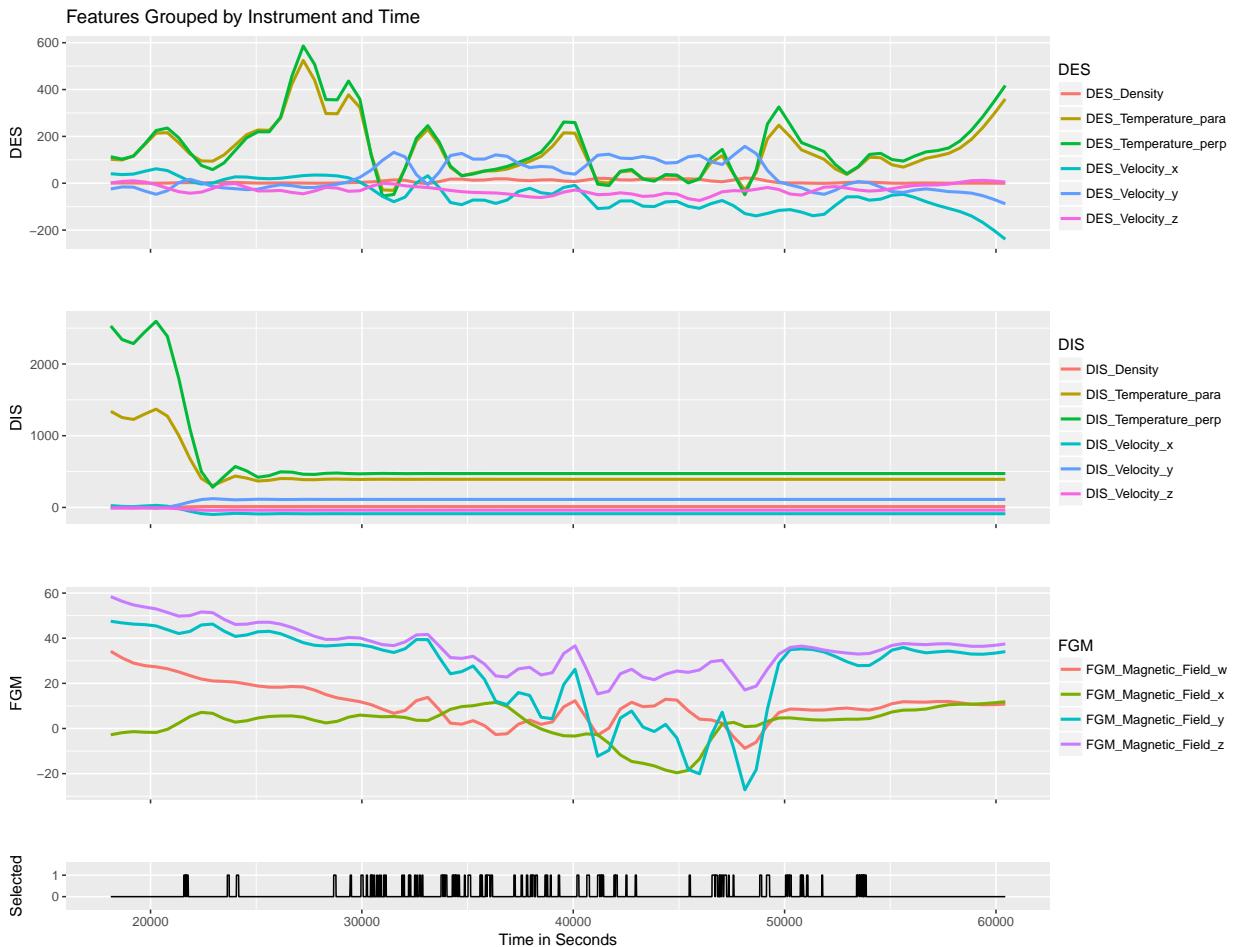


Project Pieces: Data Exploration and Visualization

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Data Exploration and Visualization

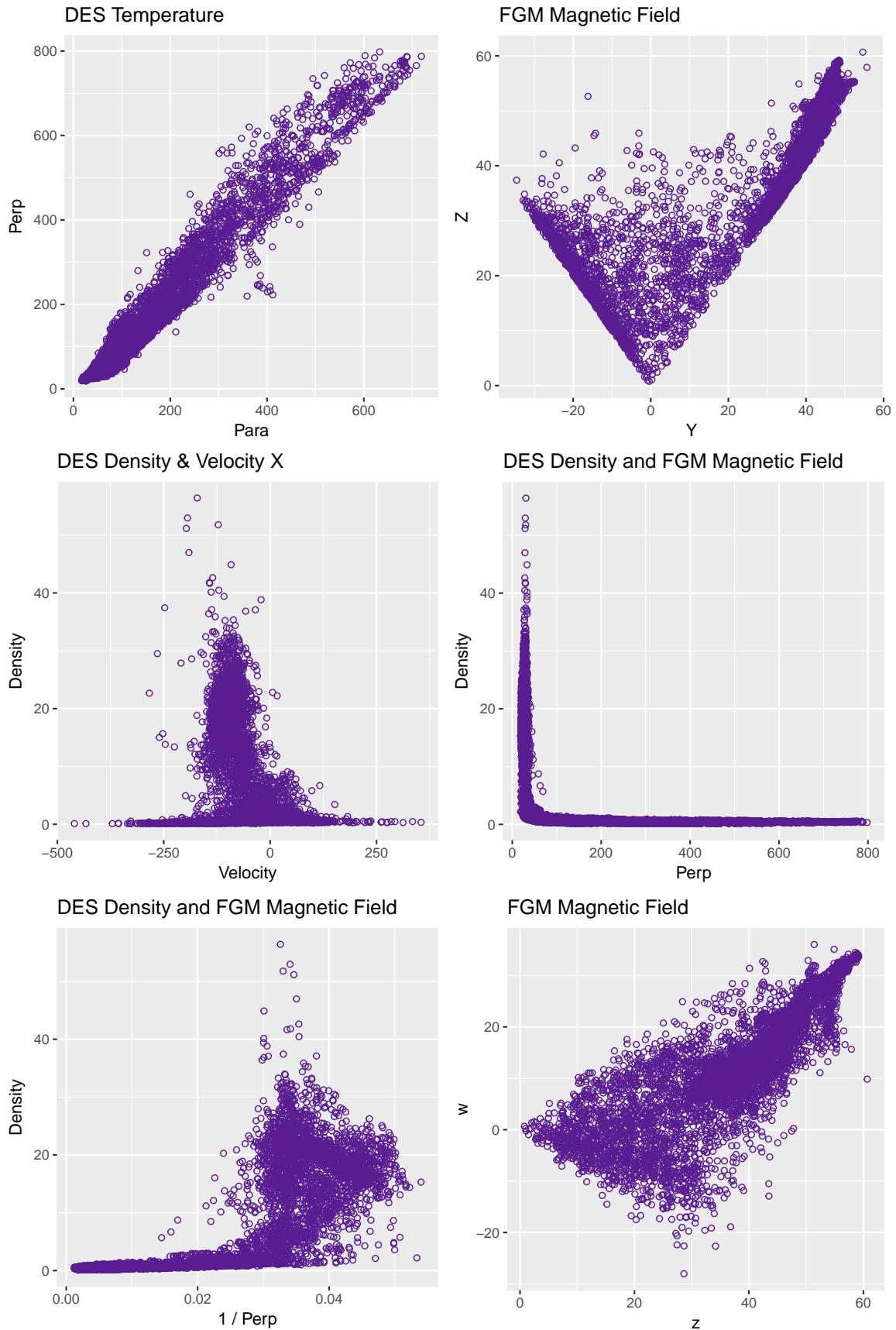


Looking at these plots, the DIS values don't seem to influence whether or not the SITL selected that time point. So we can likely leave it out, or it will get excluded in reduction automatically.

Another note, DES_Temperature para & perp seems to have a linear relationship.

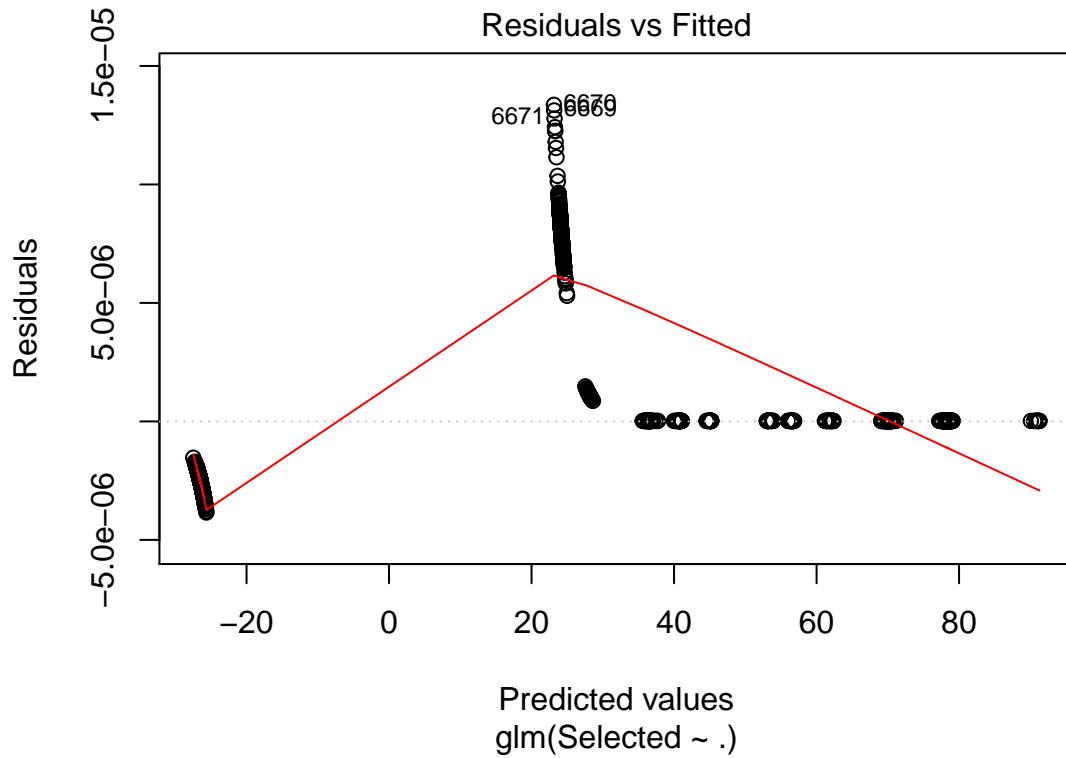
It also looks like FGM_Magnetic_Field positional variables (like x, y, z) seem to have a relationship of sorts, which makes sense, but the relationship is not clear (to me).

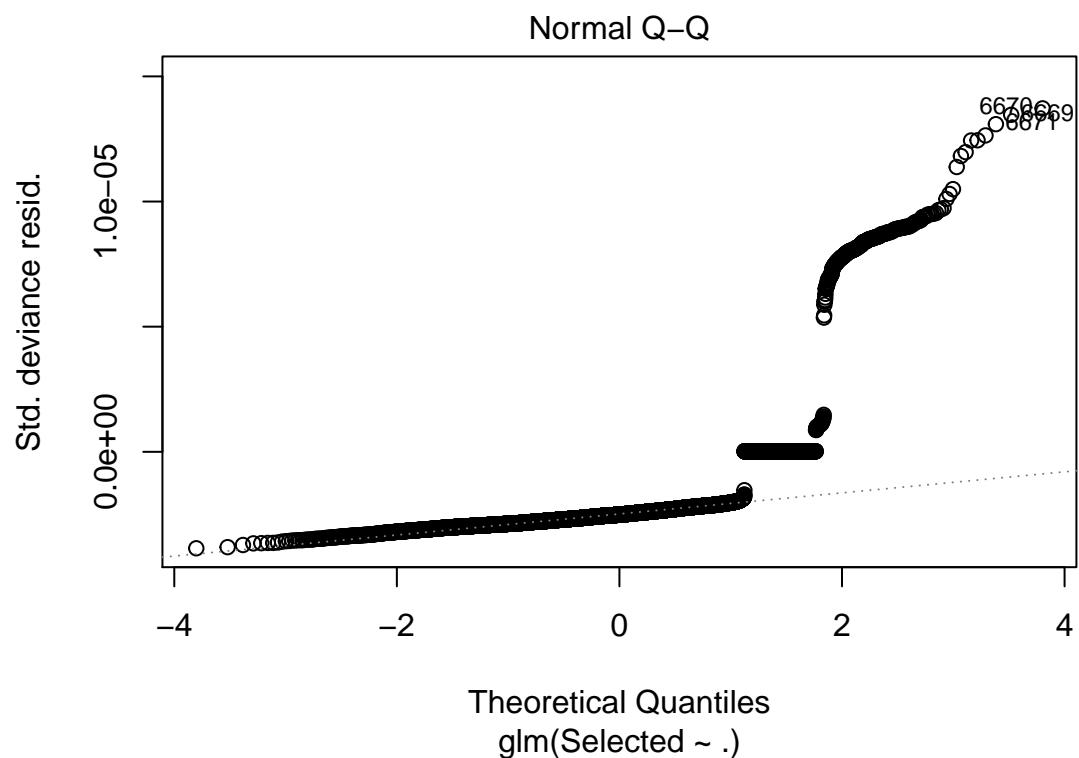
DES Density and FGM Mag. Field para/perp have a relationship that looks similar to $1/x$.

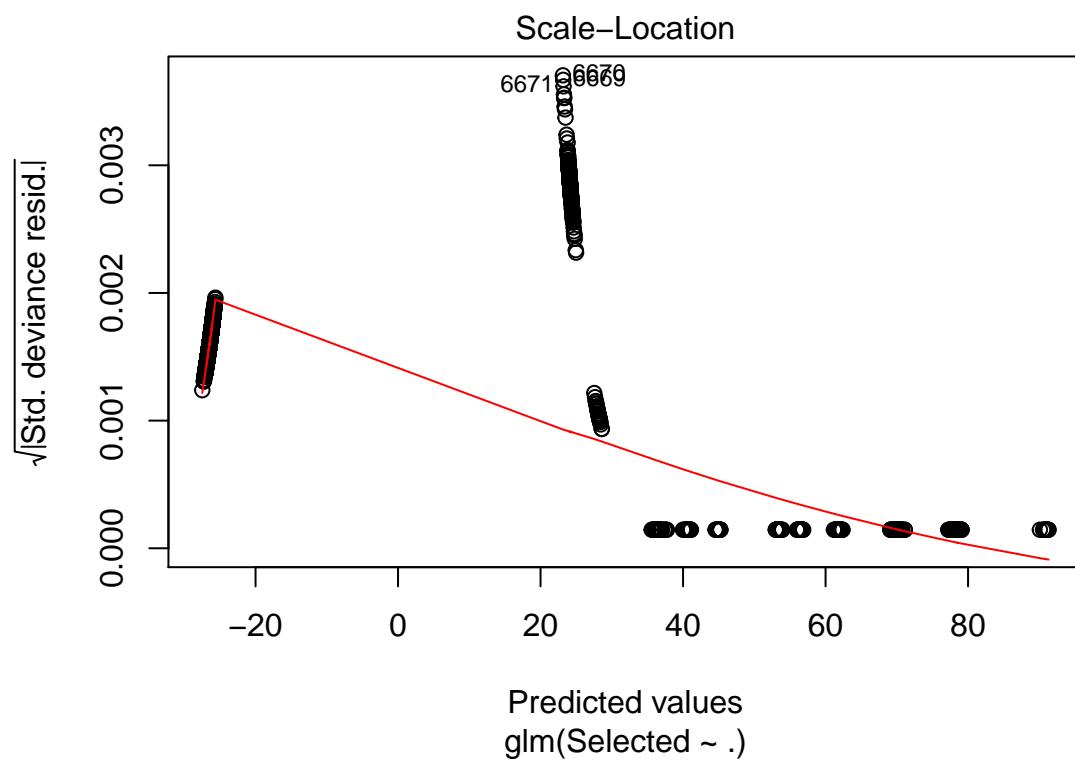


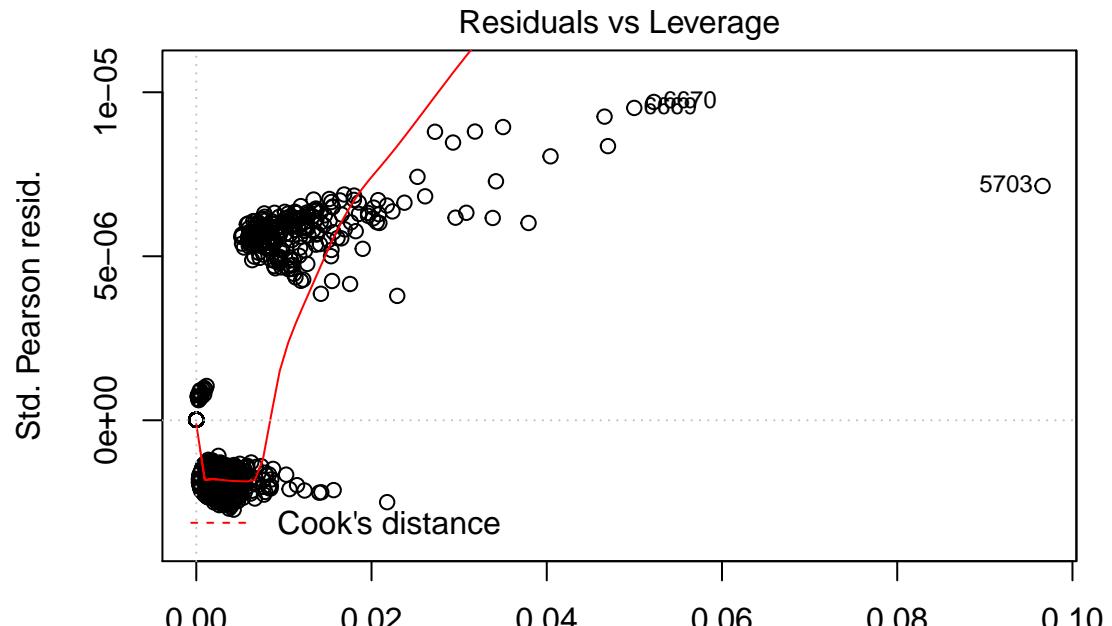
Time Series Exploration

```
## Warning: glm.fit: algorithm did not converge  
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
```



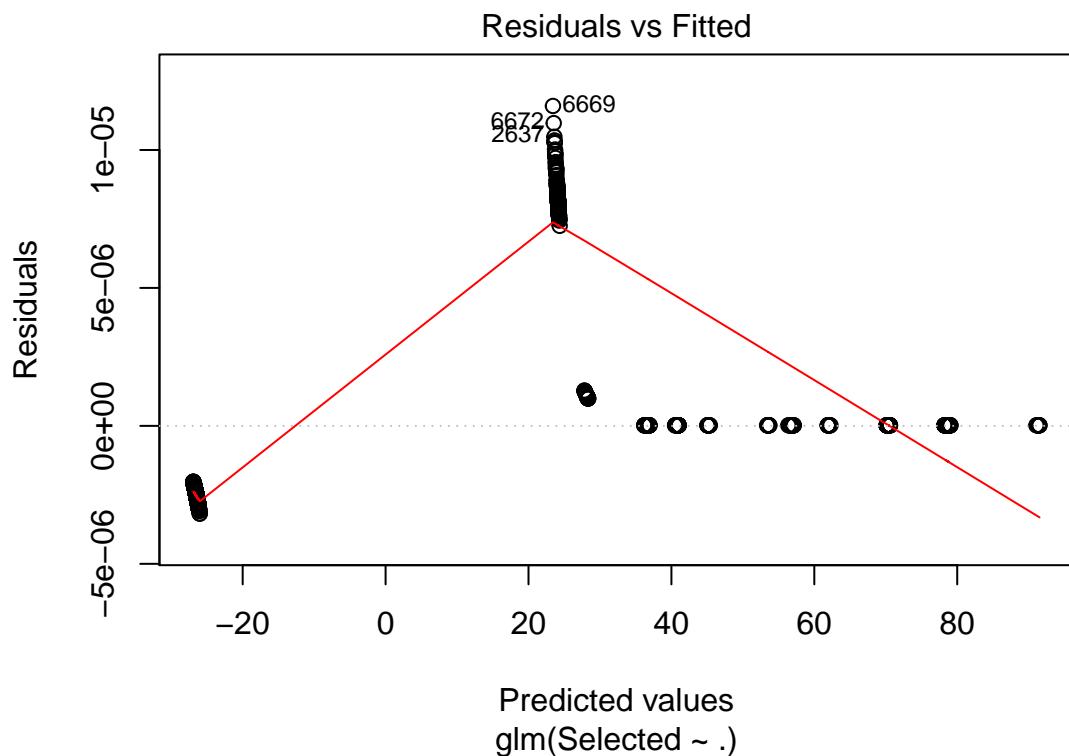


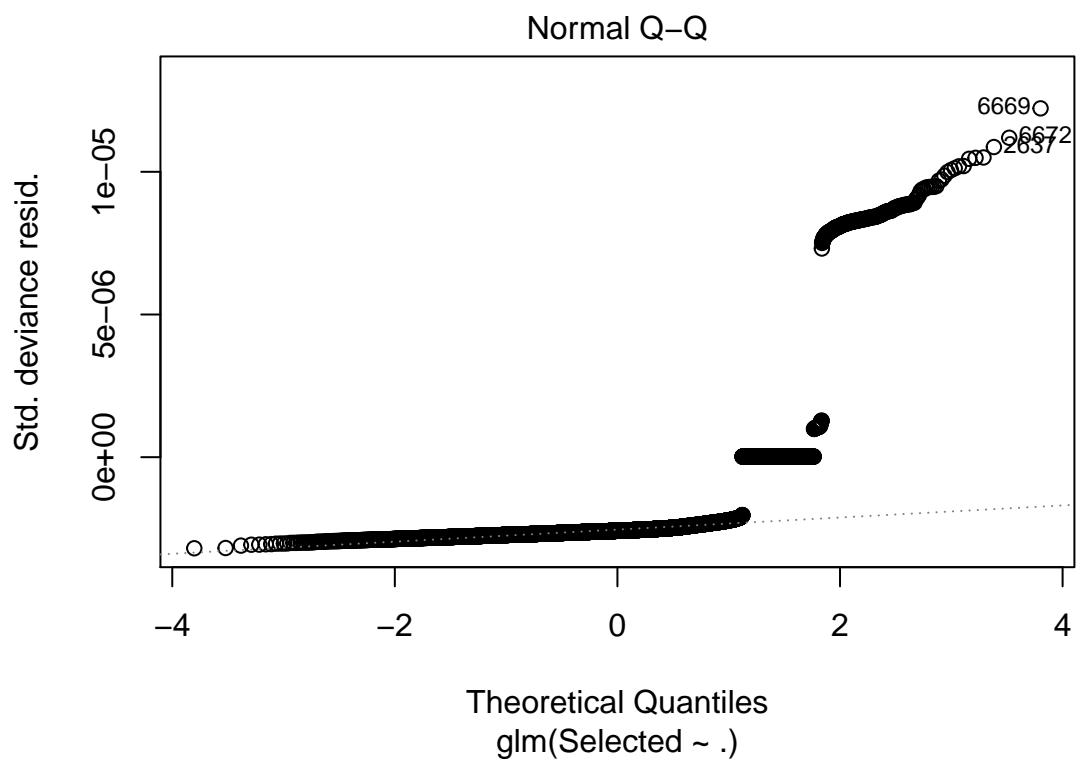


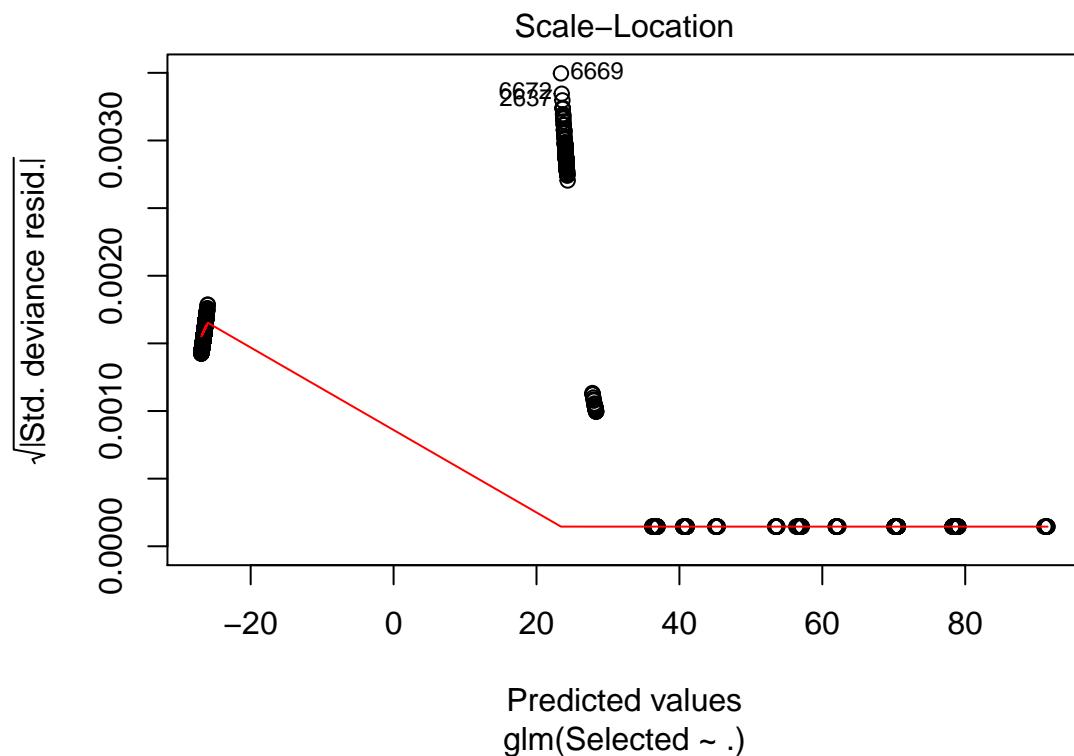


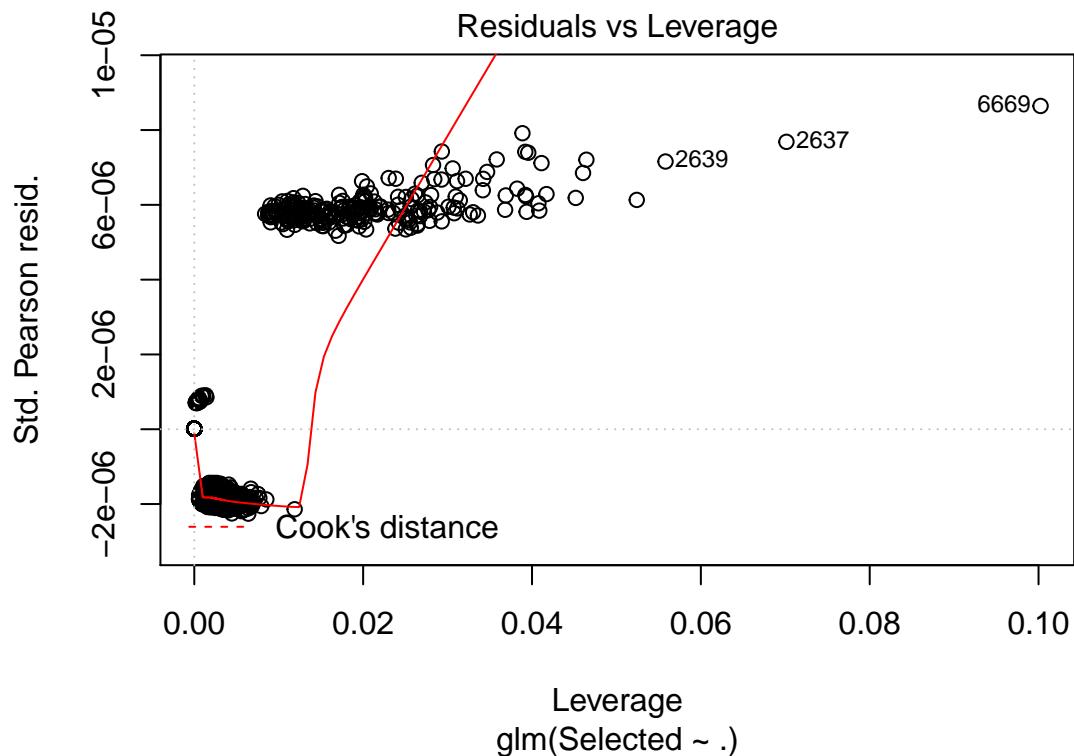
Leverage
glm(Selected ~ .)

```
## Warning: glm.fit: algorithm did not converge  
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
```









doesn't seem to make a difference if we do a 7 frame window (surrounding the data point) on all variables (I also tried a smaller window of 5 frames).

Combination Exploration