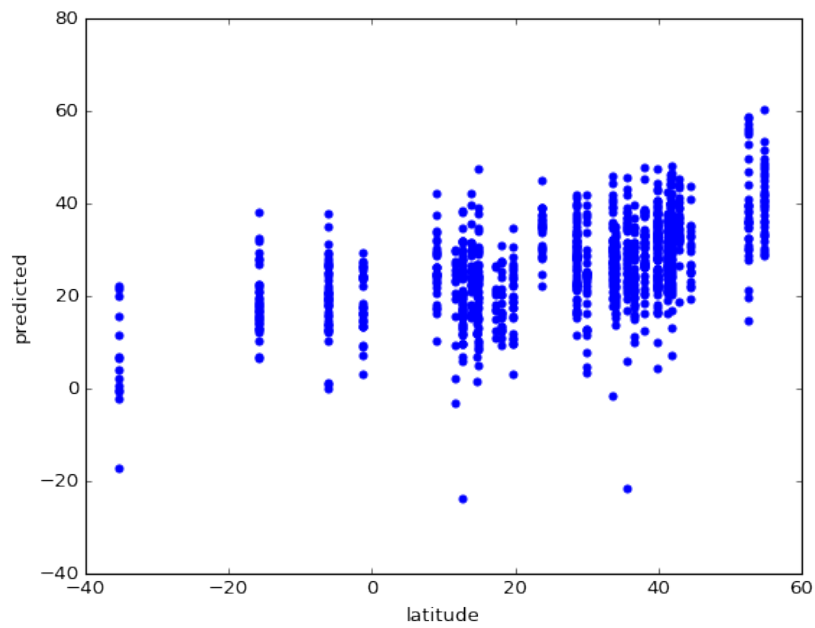
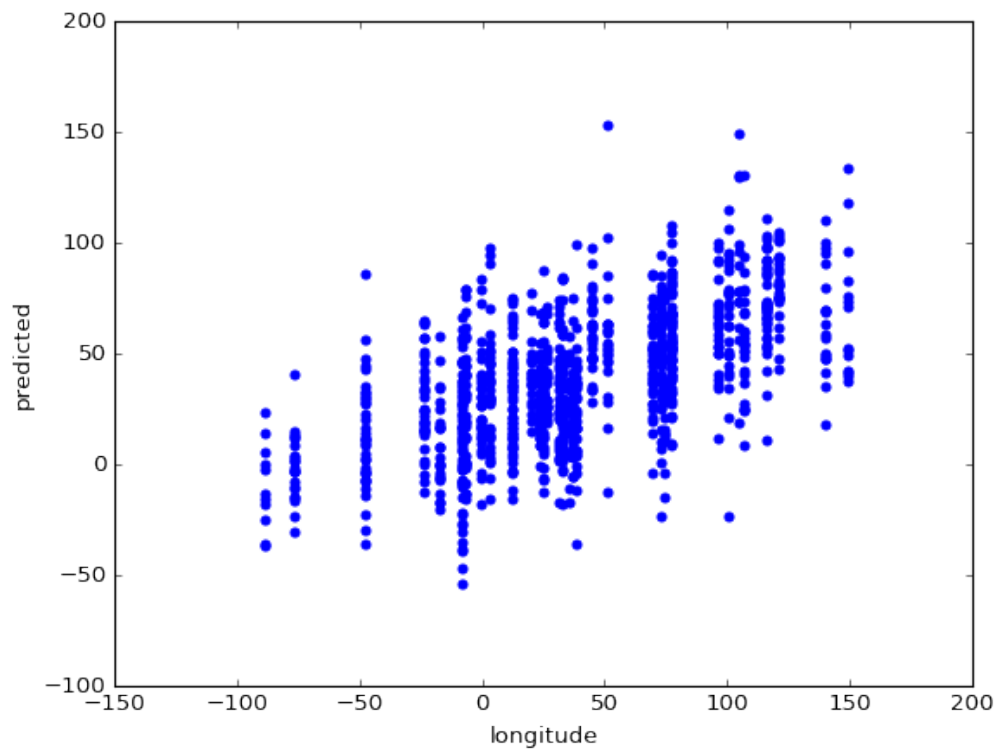


The plots for linear regression without boxcox are :

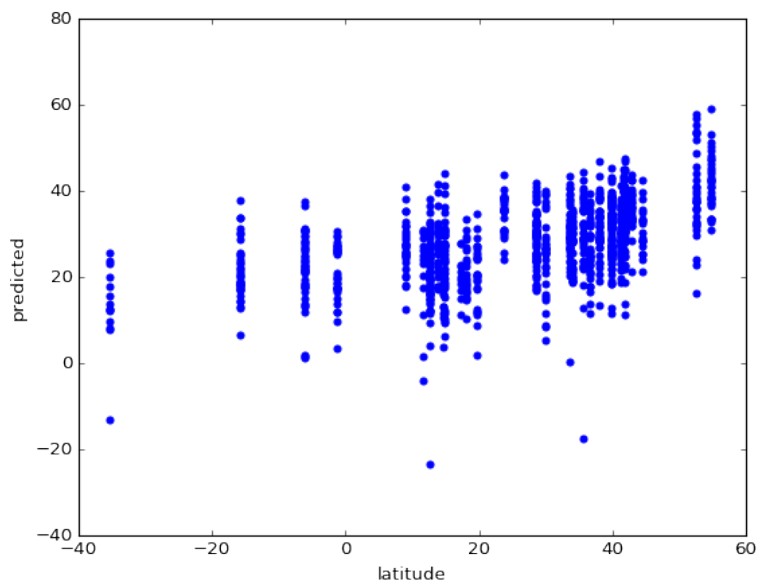


R-square: 0.292809200484



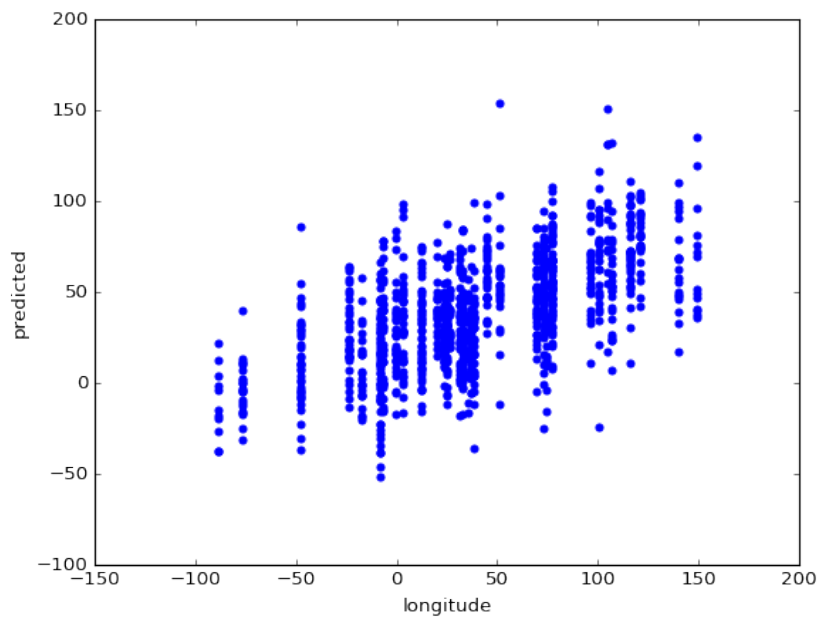
R-square: 0.364576702965

Boxcox Transformation for linear regression:



Best lambda: 1.71674482126

R-square: 0.250766639809



Best lambda: 0.93937926715

R-square: 0.368570724885

The boxcox transformation does not necessarily increase the R-square value. It fluctuates in the normal range. Because boxcox is no the most optimal tool for producing reliable high-dimensional data, so it may produce fluctuation.