

Associations between Chlorophyll *a* and various Microcystin-LR Health Advisory Concentrations

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1 Introduction

EPA just released HA for MC

MC requires lab work

MC associated with Chl *a*

Use association and cpa to id chl *a* concentration that indicative of exceeding HA

2 Methods

Source	Type	Concentration
WHO	Drinking	1 ug/l
U.S. EPA	Drinking	0.3 ug/l
U.S. EPA	Drinking	1.6 ug/l
WHO	Recreational	2-4 ug/l
WHO	Recreational	10-20 ug/l
WHO	Recreational	20-2000 ug/l
WHO	Recreational	>2000 ug/l

We evaluated associated chlorophyll *a* concentrations for an effect for each of the WHO and EPA levels. These were 0.3, 1, 1.6, 2, 4, 10, and 20 ug/l.

2.1 Data and Study Area

3 Results

```
##
## -----
## Source      Microcystin  Chlorophyll
## -----
## EPA_Child 0.3          23.68
##
## WHO        1           65.2
##
## EPA_Adult 1.6          79.8
##
## WHO        2           113.1
##
## WHO        4           273.6
##
## WHO        10          338.4
##
## WHO        20          338.4
## -----
```

4 Discussion

5 Figures

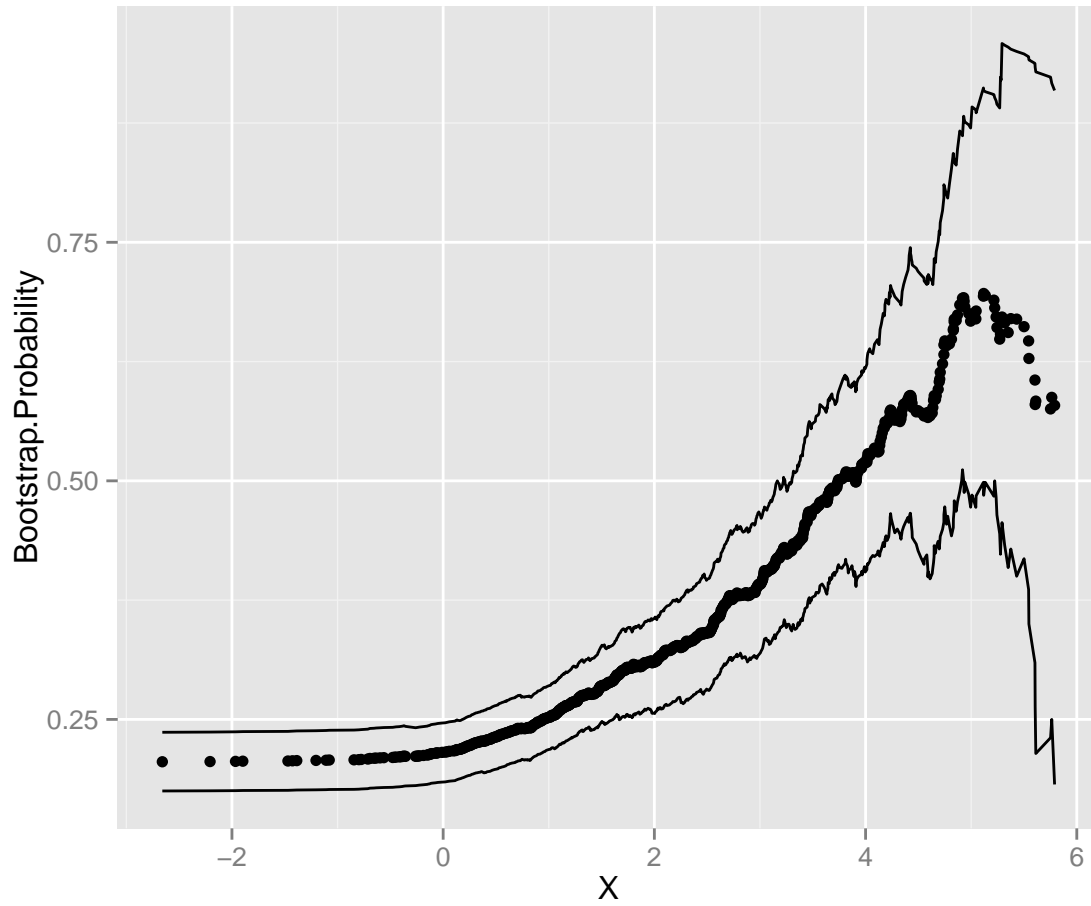


Figure 1

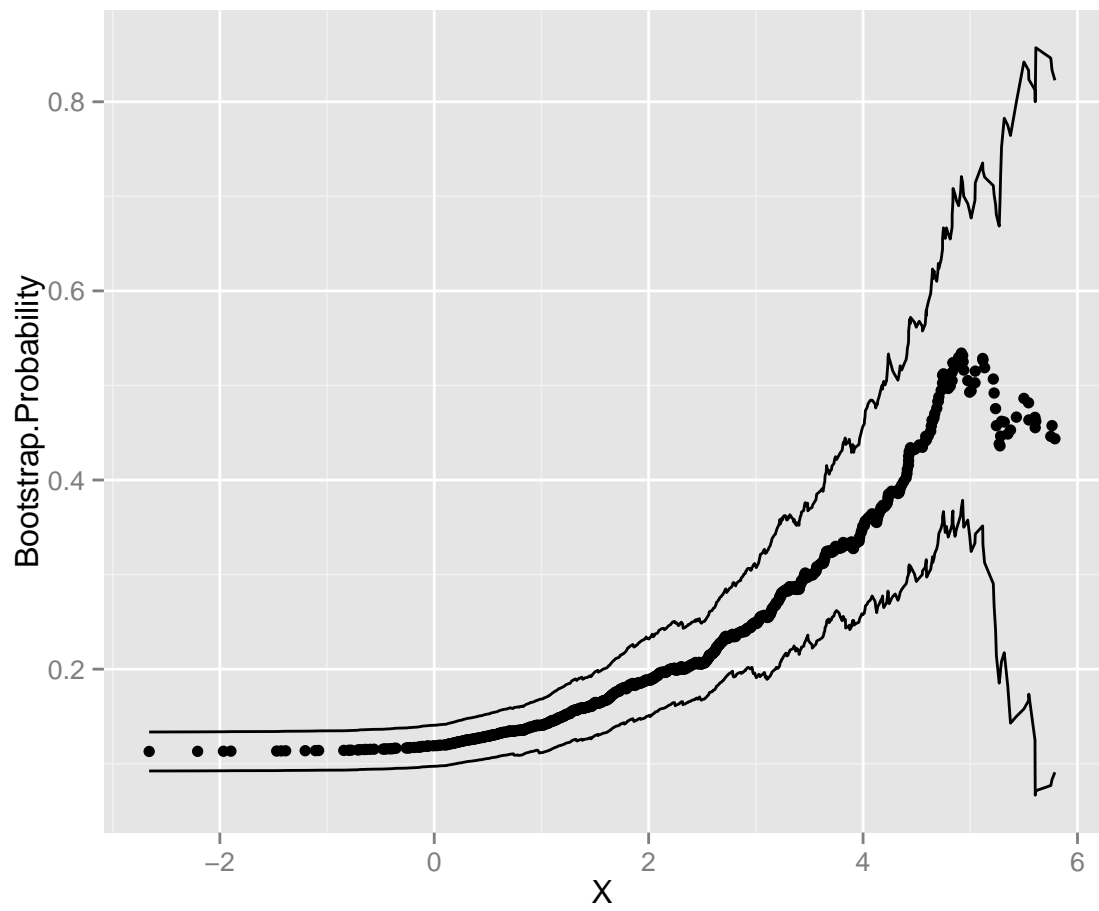


Figure 2

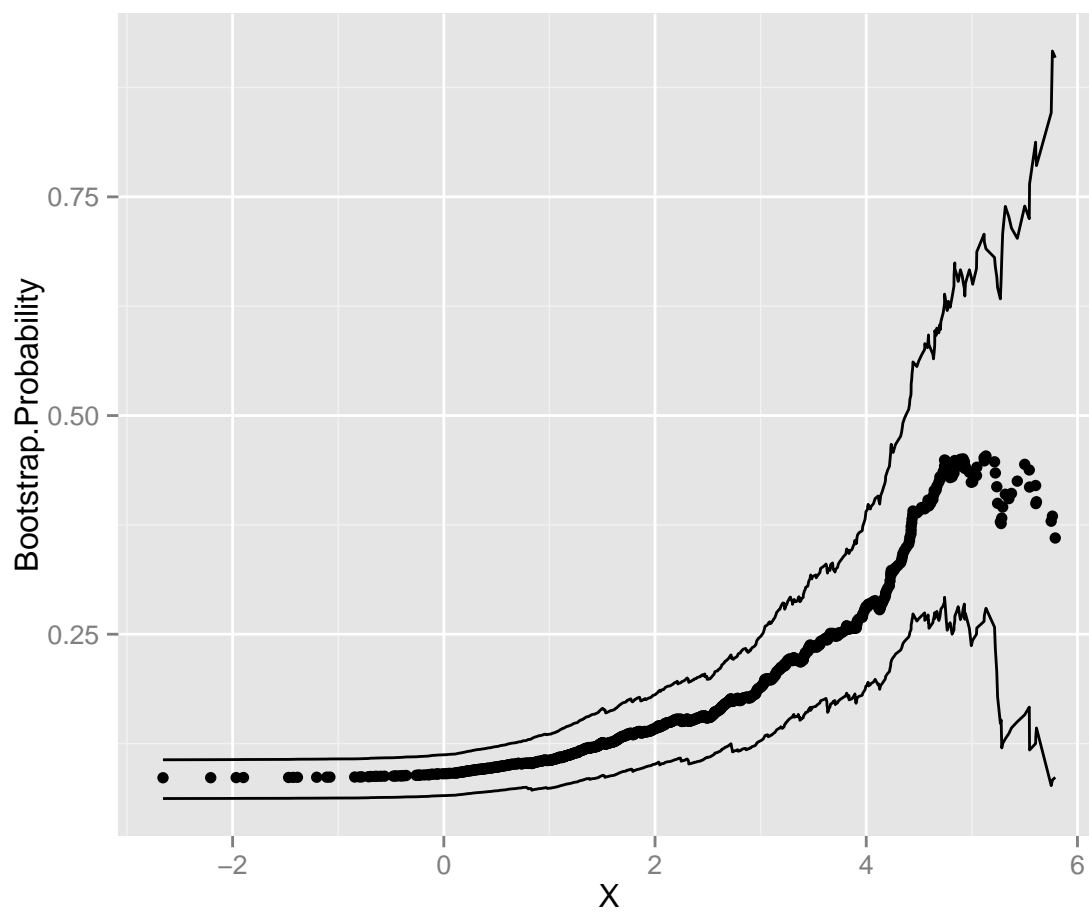


Figure 3

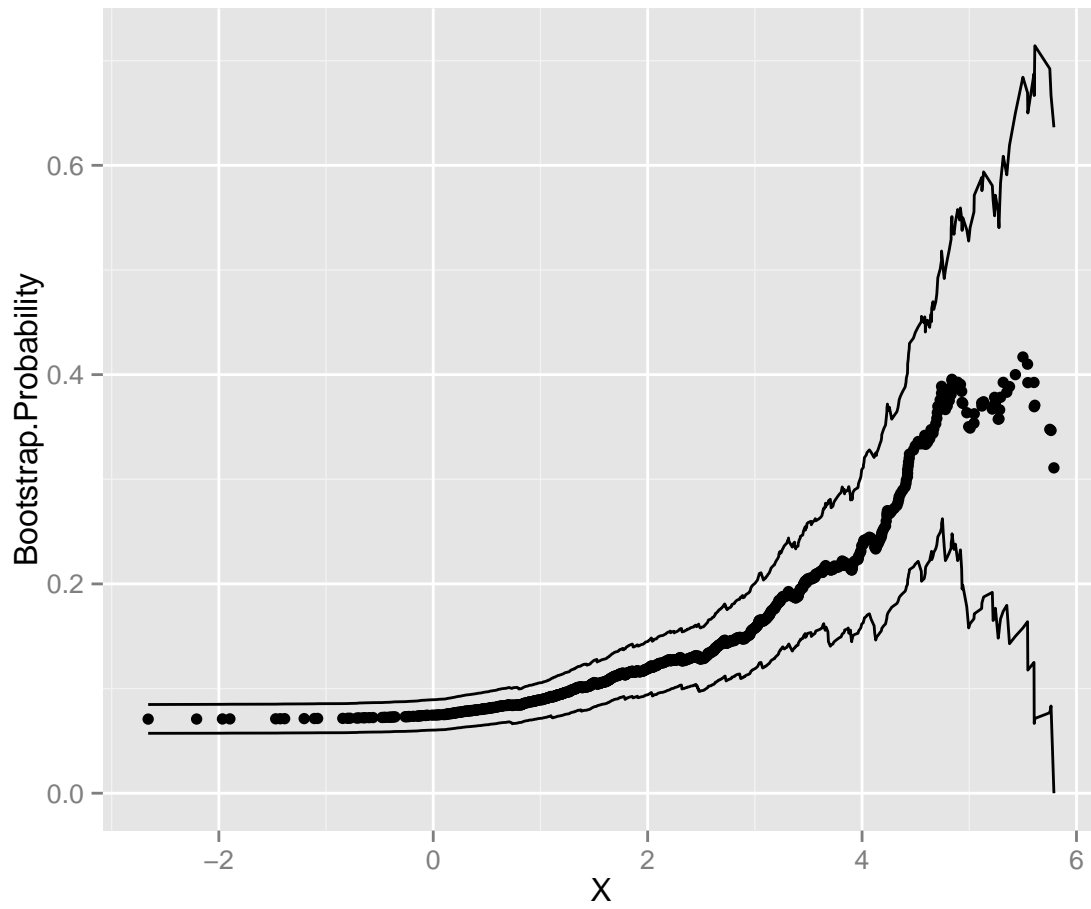
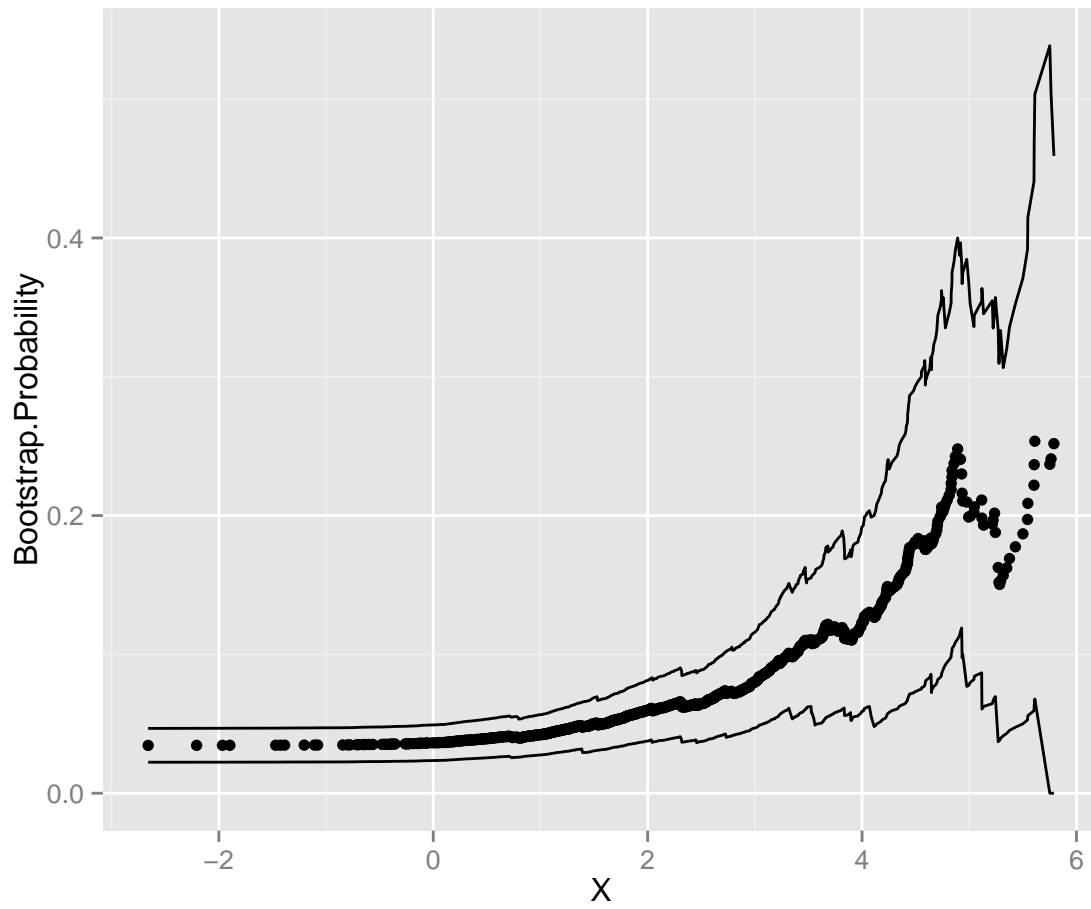
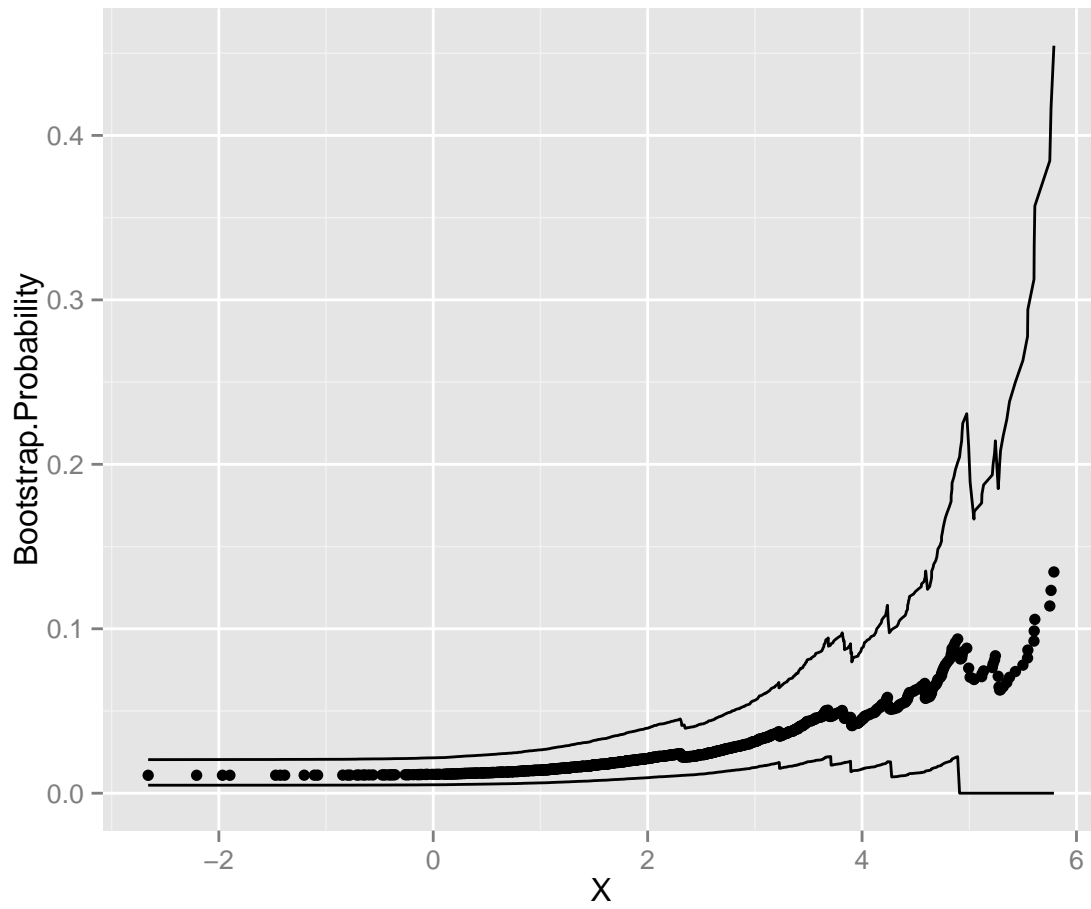
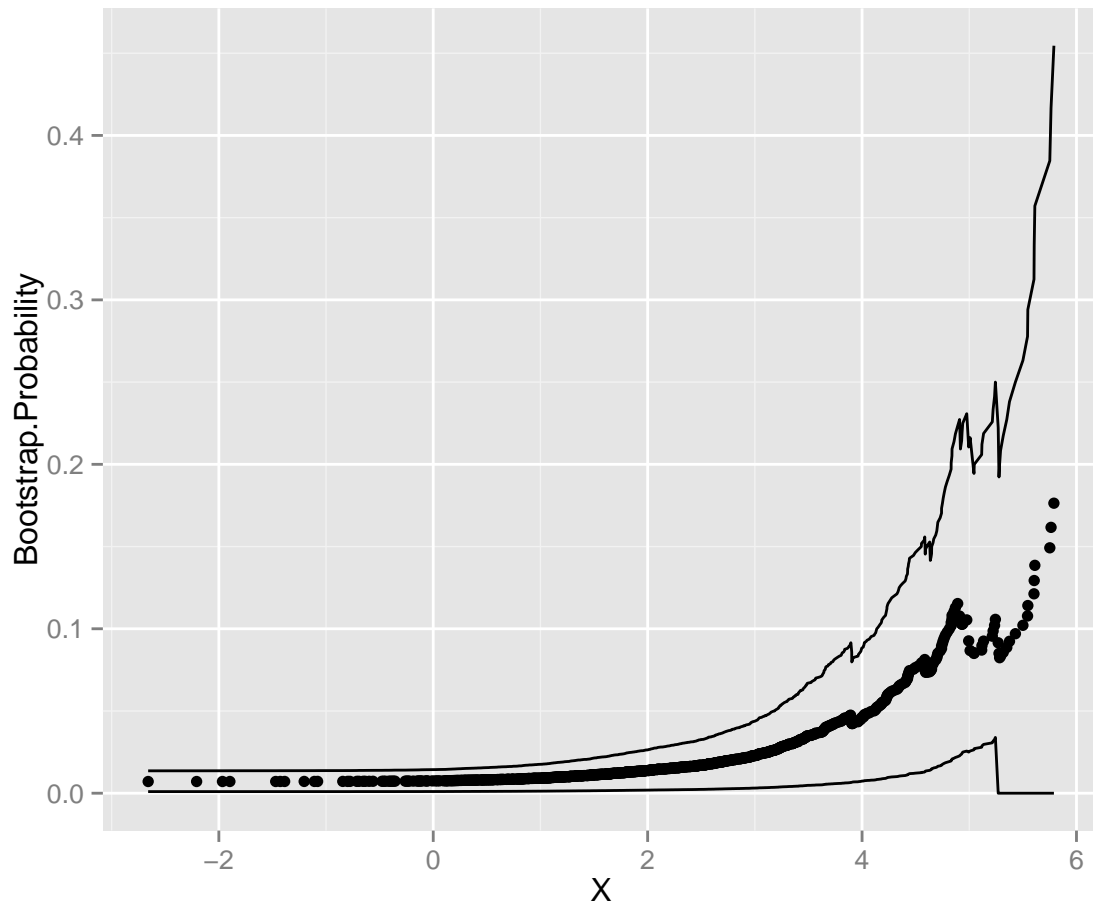


Figure 4







References