Statistic log (parameter estimation):

Starting on April 29th , 2019. Some parameter estimation has already begun.

1. Estimate chlorophyll (chl) and ammonium (nh4) simultaneously:

Where C1 is the constant loss of nh4 to air and C2 is the constant nh4 lost to nitrate. These are estimated in “nutrient\_air.R”.

Parameters to be estimated are *t,h,v,s* and *death*.

is the growth rate of chl based on nh4 availability, written as a saturating curve based on nh4 in the system and is multiplied by chl because growth is proportional to how much algae is in the system.

is the uptake rate of nh4, written as a saturating curve based on nh4 in the system and is multiplied by chl because uptake is proportional to how much algae is in the system.

To fit: