Q1: Are lake and terrestrial primary productivity coherent?

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This document organizes for openness and reproducibility analyses of the temporal coherence of interannual variation in lake primary productivity with terrestrial primary productivity in the landscape surrounding the lake

Data important and formatting

```
lakes to get<-read.csv("~/GitHub/AquaTerrSynch/AnalysisCode/lakes20yrs chla.csv") $x
lagoslakes.raw<-makeLAGOSannualts(lakes_to_get, infovars=c("lake_area_ha", "lake_perim_meters", "nhd_ft
                                  minmos=3, minobs=3, timespan=c(1989,2018))
##
## Attaching package: 'lubridate'
## The following object is masked from 'package:base':
##
##
lagoslakes.cln<-cleanAnnualts(lagoslakes.raw)
rm(lakes_to_get)
MNMPCAlakes.raw <- makeMNMPCAannualts (dir="/Users/jonathanwalter/Box Sync/NSF EAGER Synchrony/Data/LAGOS )
                                    infovars=c("lake_area_ha", "lake_perim_meters", "nhd_ftype", "hu4_z
MNMPCAlakes.raw<-fixNamestoLAGOS(MNMPCAlakes.raw, "Minnesota MPCA")
MNMPCAlakes.cln<-cleanAnnualts(MNMPCAlakes.raw)
WIDNRlakes.raw<-makeWIDNRannualts(dir="/Users/jonathanwalter/Box Sync/NSF EAGER Synchrony/Data/LAGOS Ex
                                  infovars=c("lake_area_ha", "lake_perim_meters", "nhd_ftype", "hu4_zon
WIDNRlakes.raw<-fixNamestoLAGOS(WIDNRlakes.raw, "Wisconsin DNR")
WIDNRlakes.cln<-cleanAnnualts(WIDNRlakes.raw)
analysislakes<-list(lakeinfo=rbind(lagoslakes.cln$lakeinfo,MNMPCAlakes.cln$lakeinfo,WIDNRlakes.cln$lake
                    lakedata=c(lagoslakes.cln$lakedata, MNMPCAlakes.cln$lakedata, WIDNRlakes.cln$lakeda
any(duplicated(analysislakes$lakeinfo$lagoslakeid)) #no duplicates
## [1] FALSE
```