HAKAI DATA READ-ME

Data files

I've included four data files. The first, "raw_data.csv," has all of the size-sorted community composition data and sample information, as well as some notes on the processing procedure and species IDs. Species have been loosely grouped taxonomically or functionally, e.g., all of the amphipods are together, all filter feeders are together, etc. I was able to identify 41 of the 48 taxonomic groups to genus or species. Many of the species that I was not able to identify to the genus level were very rare. However, I have been working on a taxonomic key of eelgrass-dwelling invertebrates for our lab, so if I am able to improve any of my identifications while I work on it I'll be sure to let you know so you can update the data. I'll also send you a copy of the key once it's done, if you'd like.

The second and third data files are labelled "analysis_data.csv" and "env_data.csv." I tried to optimize these files for most community analyses you would do in R. All of the samples have been left in the same order, but the size classes have been summed and all sample-identifying information removed. "env_data.csv" has the corresponding site labels.

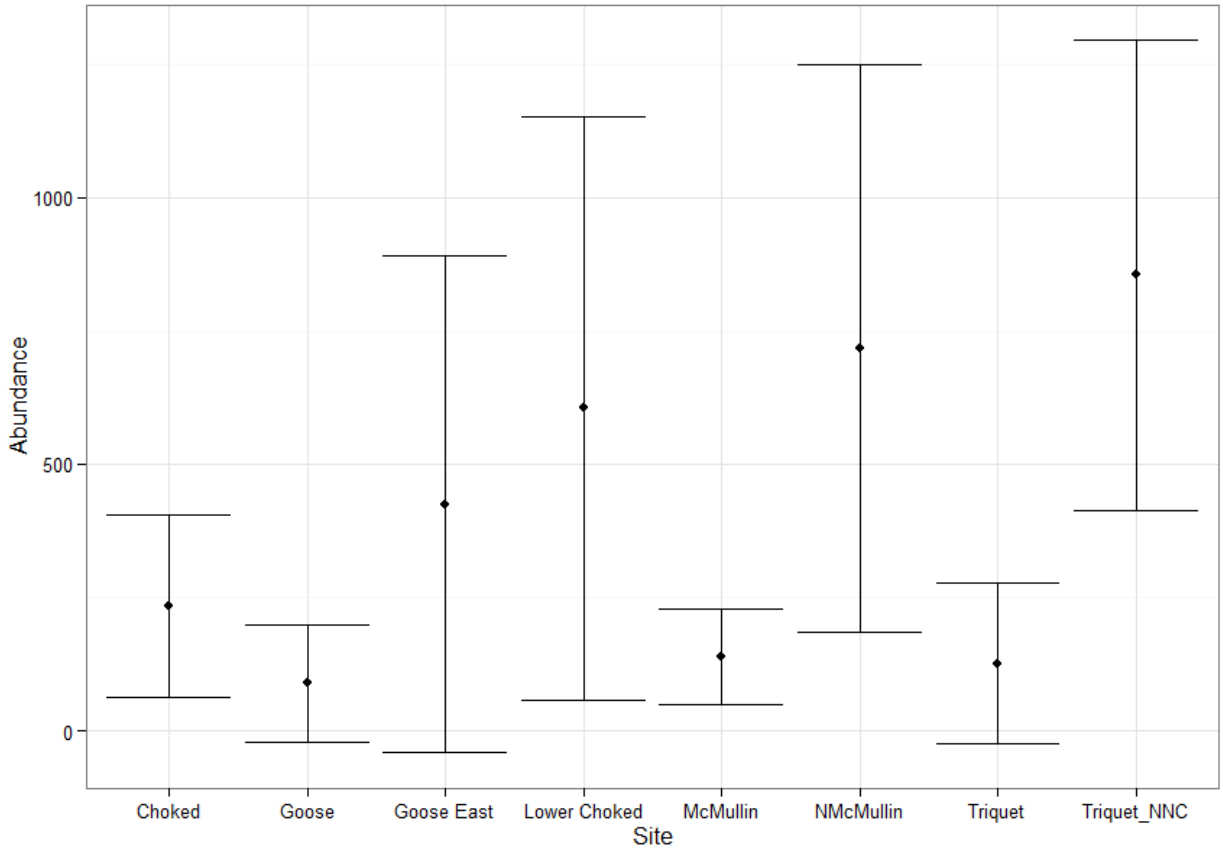
The third data file is labelled "summary_stats.csv." It includes fairly simple community composition data, such as diversity, species richness, etc., and the associated standard deviations.

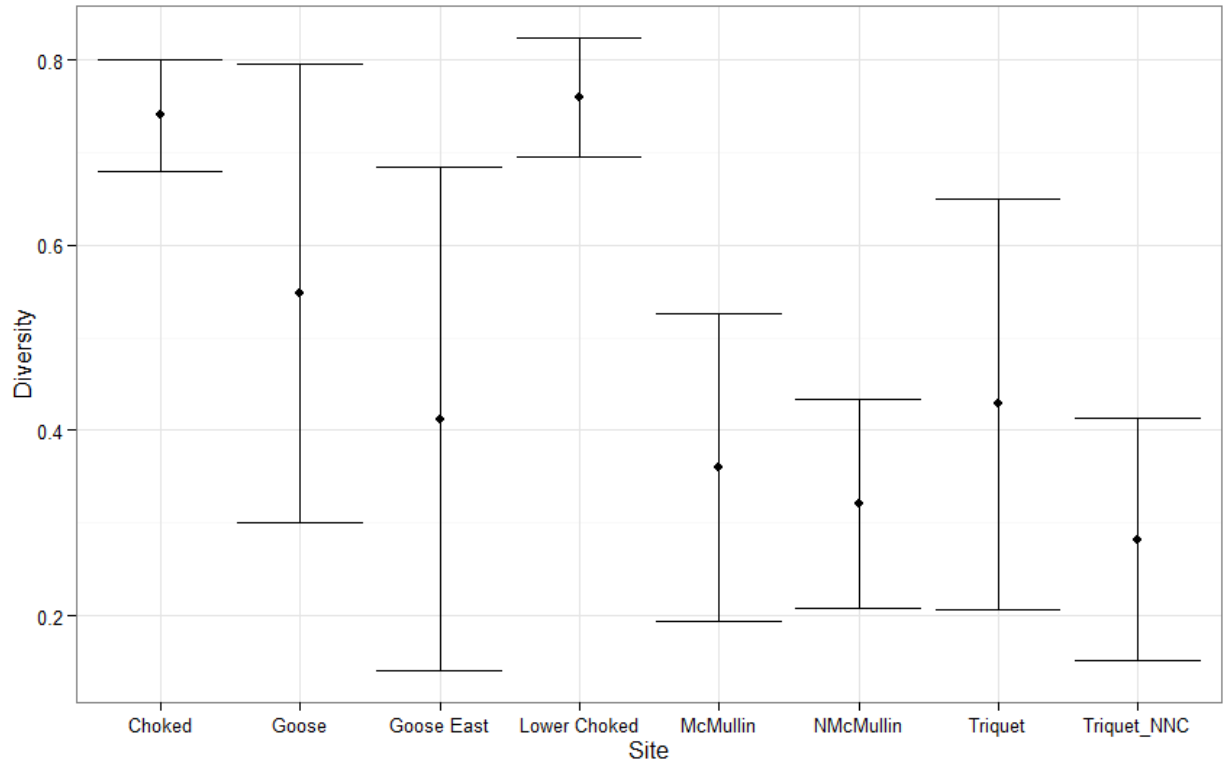
If you have any questions for me, or if you see anything weird in the data set, please let me know. My e-mail is nicoleknight0@gmail.com.

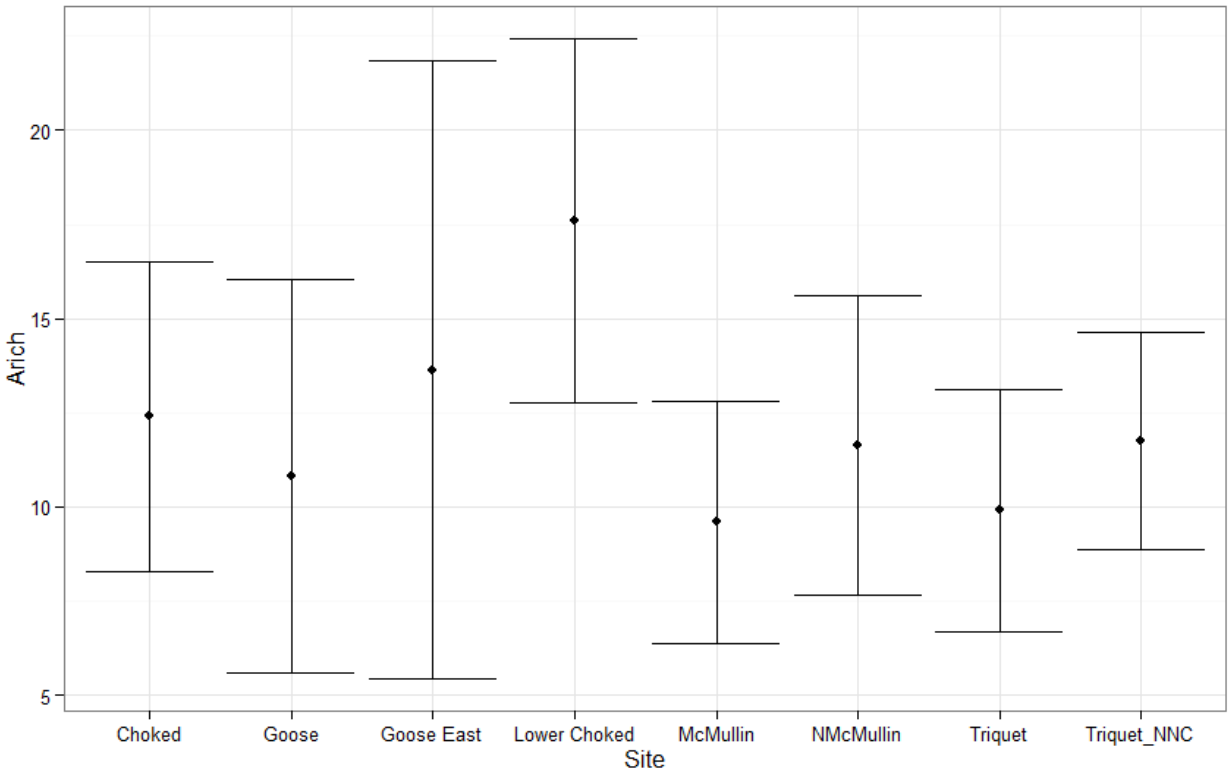
Community characteristics

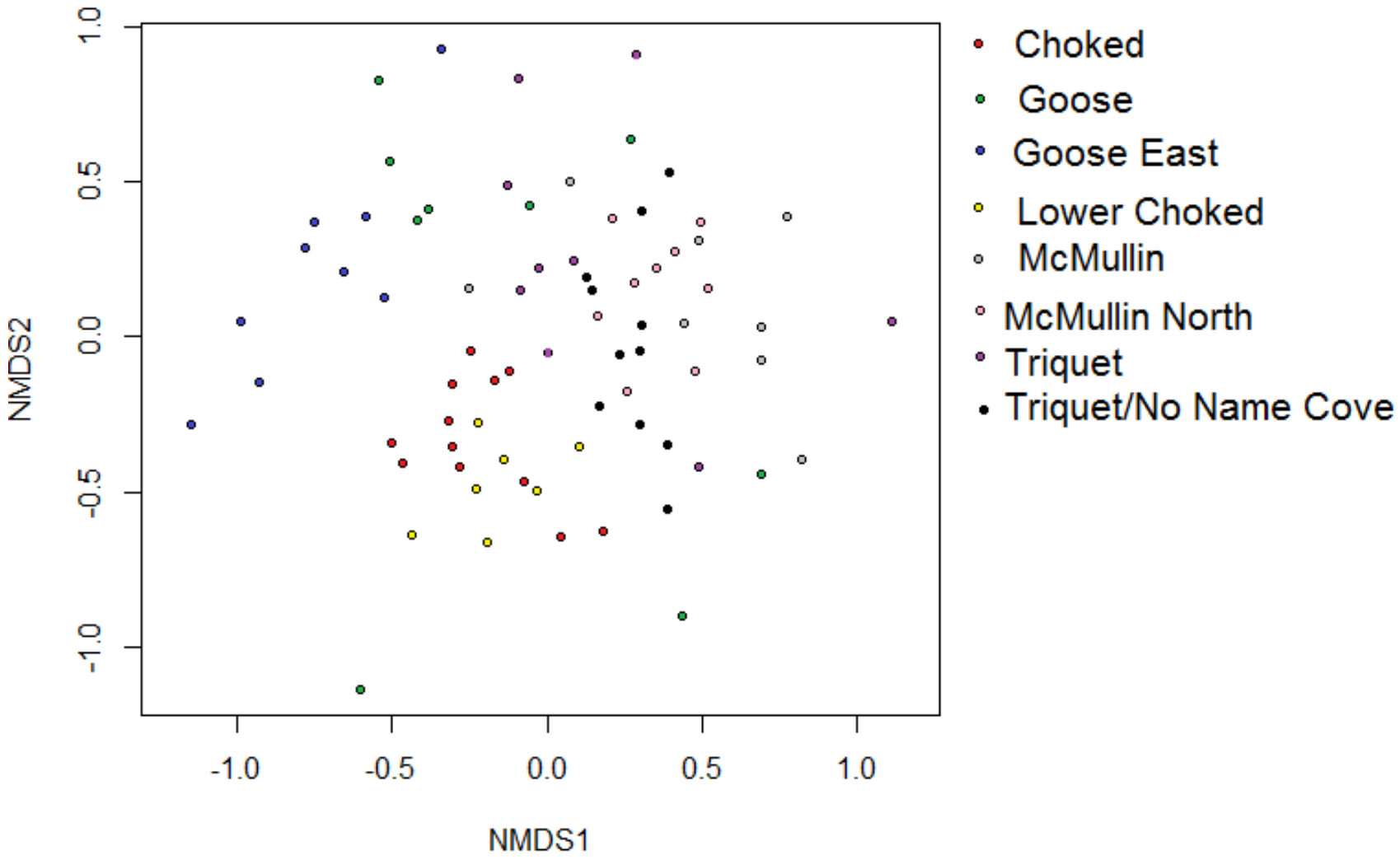
I've put together a few simple (not especially pretty) graphs so you can get a basic idea of what the different communities look like.

Notes: Arich is adjusted species richness measure (using a chao1 index), error bars in all graphs represent standard deviations. The nmds plot is based on Bray-Curtis ordination.




0.8
0.6
0.4
0.2
Diversity
Choked
Goose
Goose East
Lower Choked
McMullin
NMcMullin
Triquet
Triquet_NNC
Site


20
15
10
5
Arich
Choked
Goose
Goose East
Lower Choked
McMullin
NMcMullin
Triquet
Triquet_NNC
Site


NMDS2
1.0
0.5
0.0
-0.5
-1.0
-1.0
-0.5
0.0
0.5
1.0
NMDS1
Choked
Goose
Goose East
Lower Choked
McMullin
McMullin North
Triquet
Triquet/No Name Cove