Part 1a - Depth transect - Atlantic

[A] LIBRARY PREP:

12S: 1x MiSeq V3 run using MiFish-U 12S primers

COI: 1x MiSeq V3 run using Leray COI primers

[B] DATA FILE OVERVIEW:

1. METADATA

Vector\_metadata\_MAL\_Feb3,2023.csv -> Metadata for all samples and controls included in the sequencing run

2. 12S

DATA PENDING

3. COI

sequence\_table.CO1.merged.w\_ASV\_names.txt -> 12S ASV table (raw, not filtered, not QCed)

CO1\_ASV\_sequences.no\_blast\_hit.fasta -> List of all COI ASV sequences

taxonomy\_table.CO1.NCBI\_NT+customDB.iterative\_blast.LCA+best\_hit.txt -> Annotation of COI ASVs using hybrid approach of LCA + best hit

taxonomy\_table.CO1.NCBI\_NT+customDB.iterative\_blast.LCA\_only.txt -> Annotation of COI ASVs using LCA only

CO1\_ASV\_sequences.blast\_90.out -> Full blast output from all COI ASVs (minimum identity = 90%)

CO1\_ASV\_sequences.blast\_96.out ->Full blast output from all COI ASVs (minimum identity = 96%)

eastcoast\_Run20230127.CO1.tar.gz -> Full, raw, bioinformatics output from Evan