Timestamps\_From\_ANABAT\_Filenames

# The following code is designed to decode ANABAT filenames into timestamps. It can also be easily altered to

# retain the file extension if one wishes to rename files based on the recording time.

# INSTALL AND LOAD REQUIRED PACKAGES

install.packages(“stringr”)

install.packages(“stringi”)

library(stringr)

library(stringi)

# READ IN METADATA CSV THAT INCLUDES FILENAMES (BY PROVIDING THE FILEPATH AND FILENAME) AND RENAME

# THE FILE WHATEVER YOU WISH

# In this example, the original file is named “Site\_1.csv” and

# is renamed as “ana.files”

ana.files<-read.csv(“E:/Acoustic\_Files/Site\_1.csv”)

# CREATE A LIST THAT CONTAINS ONLY THE ORIGINAL FILENAMES

# In this example, the matrix containing data is “ana.files” and the column with

# filenames is “Audio.Recording.Name”

Timestamps<-as.character(ana.files$Audio.Recording.Name)

# REPLACE THE LETTER REPRESENTING THE YEAR WITH THE NUMERIC YEAR AND ADD 0 BEFORE THE NUMBER

# OF THE MONTH

# IF SURVEYS WERE COMPLETED BETWEEN OCT-DEC, CODE WILL NEED TO BE ALTERED TO REMOVE THE

# O FROM “-0”

Timestamps<-str\_replace(Timestamps,“L”,“2011-0”) Timestamps<-str\_replace(Timestamps,“M”,“2012-0”) Timestamps<-str\_replace(Timestamps,“N”,“2013-0”) Timestamps<-str\_replace(Timestamps,“O”,“2014-0”) Timestamps<-str\_replace(Timestamps,“P”,“2015-0”) Timestamps<-str\_replace(Timestamps,“Q”,“2016-0”) Timestamps<-str\_replace(Timestamps,“R”,“2017-0”) Timestamps<-str\_replace(Timestamps,“S”,“2018-0”) Timestamps<-str\_replace(Timestamps,“T”,“2019-0”)

# ADD DASH BETWEEN MONTH AND DATE

stri\_sub(Timestamps,8,7)<- “-” # ADD “T” BETWEEN DATE AND TIME stri\_sub(Timestamps,11,10)<- “T” # ADD COLON BETWEEN HOURS AND MINUTES stri\_sub(Timestamps,14,13)<- “:” # ADD COLON BETWEEN MINUTES AND SECONDS stri\_sub(Timestamps,17,17)<-“:” # REMOVE “.zc” FROM END OF FILENAME # FOR # FILE EXTENSIONS, SKIP THE FIRST LINE OF CODE AND # USE THE SECOND LINE OF CODE (20,20) BY REMOVING THE # BEFORE THE COMMAND # THE “stri\_sub” COMMAND SUBSITUTES CHARACTERS BASED ON POSITION. IN THIS EXAMPLE, “Timestamps” # is the list containing the names, 20 is the position to begin subsitution, 22 is # the position to stop the substitution, and the text to be subsituted is between the quotation # marks (nothing in this case). stri\_sub(Timestamps,20,22)<-“” #stri\_sub(Timestamps,20,20)<-“”

# CREATE A DATA FRAME CONTAINING THE ORIGINAL FILENAMES AND NEW TIMESTAMPS

# In this example, the original filenames were contained in the matrix “ana.files” and the column

# “Audio.Recording.Name” while the new filenames are contained in the list “Timestamps”

Timestamps.df<-data.frame(MT\_Data$Audio.Recording.Name,Timestamps)

# EXPORT DATA FRAME CONTAINING ORIGINAL FILENAMES AND NEW TIMESTAMPS AS .CSV

# In this example, “Timestamps.df” is the data frame we’re exporting (created in the previous line),

# “E:/Acoustic\_Files/” is the filepath where we wish to save the CSV, and “Timestamps.csv”

# is the filename we wish to use

write.csv(Timestamps.df,“E:/Acoustic\_Files/Timestamps.csv”)