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setwd("insert_path_where_metadata_is_located.csv")

# Read in the data and create a dataframe
data <- read.csv("insert_name_of_metadata_file.csv")
df <- as.data.frame(data)

# Subset data
data_subset <- df[, -c(13:14,17,23:32)]

# Update the names of specific headers
names(data_subset)[names(data_subset) == "Location.Name"] <- "Site.Name"
names(data_subset)[names(data_subset) == "Species.List"] <- "Name.of.Species.List.for.Auto.Id"
names(data_subset)[names(data_subset) == "Software.Type"] <- "Auto.Id.Software"
names(data_subset)[names(data_subset) == "Audio.Recording.Name...wav..zc."] <-
"Audio.Recording.Name"
names(data_subset)[names(data_subset) == "Detector"] <- "Detector.Model"
names(data_subset)[names(data_subset) == "Microphone"] <- "Microphone.Model"
names(data_subset)[names(data_subset) == "Weather.Proofing"] <- "Microphone.Weather.Proofing"

# Add in new fields from the updated template. If you would like to add in data to the metadata fields,
replace the "NA" values with said data.
new_columns <- data.frame('Grid Cell Quadrant' = NA,
                          'Surveyor(s)' = NA,
                          'Manual Id Vetter' = NA,
                          'Name of Species List for Manual Id' = NA,
                          'USNVC Habitat Code' = NA)

# Combine the new columns to the original data frame
data_combined <- cbind(data_subset, new_columns)

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# Reorder the columns in the order of the updated template
data_reordered <- data_combined[c("X.GRTS.Cell.ID", "Grid.Cell.Quadrant", "Surveyor.s.", "Latitude",
  "Longitude", "Site.Name", "Survey.Start.Time", "Survey.End.Time",
  "Unusual.Occurrences", "Auto.Id.Software", "Auto.Id", "Manual.Id",
  "Manual.Id.Vetter", "Name.of.Species.List.for.Auto.Id",
  "Name.of.Species.List.for.Manual.Id", "Audio.Recording.Name",
  "Audio.Recording.Time", "Detector.Model", "Detector.Serial.Number",
  "Microphone.Model", "Microphone.Serial.Number", "Microphone.Weather.Proofing",
  "Microphone.Orientation", "Microphone.Height..meters.",
  "Distance.to.Nearest.Water..meters.", "Water.Type", "Broad.Habitat.Type",
  "USNVC.Habitat.Code", "Land.Unit.Code")]

# Clean up the headers
colnames(data_reordered) <- gsub("\\.", " ", colnames(data_reordered))
colnames(data_reordered) <- gsub(" x", " ", colnames(data_reordered))
colnames(data_reordered) <- gsub("X.", "|", colnames(data_reordered))
colnames(data_reordered) <- gsub("_", " ", colnames(data_reordered))
colnames(data_reordered) <- gsub("meters", "(m)", colnames(data_reordered))
colnames(data_reordered) <- gsub(" s", "(s)", colnames(data_reordered))

# Write a new .csv. This metadata.csv will be available wherever it is saved to your computer.
write.csv(data_reordered, "insert_path_to_save_folder/insert_name_of_metadata_file.csv", na =
"", row.names=FALSE)

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