# Supplemental Material

Fournier, A.M.V., Wilson, R.R., Lyons, J.E., Gleason, J.S., Adams, E.M., Barnhill, L.M., Brush, J.M., Cooper, R.J.,DeMaso, S.J., Driscoll, M.J.L., Eaton, M.J., Frederick, P.C., Just, M.G., Seymour, M.A., Tirpak, J.M, and Woodrey,M.S., 2021, Structured decision making and optimal bird monitoring in the northern Gulf of Mexico: U.S. GeologicalSurvey Open-File Report 2020-1122, 62 p., <https://doi.org/10.3133/ofr20201122>.

# Using Deepwater Horizon Project Tracker Database

R code to determine the number of occurrences in the Deepwater Horizon Project Tracker database for management actions.

library(tidyverse)

library(readxl)

dat <- read\_excel("DeepwaterHorizonProjectTracker\_ProjectAttributes\_December2017.xlsx",

 sheet=2, skip=4) %>%

 select(PRJ\_ACTPRIME, PRJ\_ACT2, PRJ\_ACT3) %>%

 gather("column","action")

keep <- c("Erosion Prevention or Control",

 "Habitat Restoration and Enhancement",

 "Species Restoration",

 "Water Quality Restoration and Maintenance")

sumdat <- dat %>%

 group\_by(action) %>%

 summarize(count = n()) %>%

 filter(action %in% keep)

sumdat

write.csv(sumdat,

 file=paste0(Sys.Date(),"\_dwh\_tracker\_summary.csv"),

 row.names = FALSE)

maction <- read.csv("management\_actions.csv")

joinedsummary <- full\_join(sumdat, maction, by=c("action"="dwh\_action"))

joinedsummary

write.csv(joinedsummary,

 file=paste0(Sys.Date(),"gomman\_dwh\_tracker\_joined\_summary.csv"),

 row.names = FALSE)