**Table of Contents for folder HSDM**

-This folder contains species-specific RDS files with brt calibrations, parameter estimates for all species, environmental data, distance matrix, and basin information to use in the R file “HSDM\_function”.

Folder Contents:

1. *HSDM\_functions* contains the script for running the hybrid species distribution model for each species
2. Brt calibrations; tc1 = not testing interactions; No Nile = removed the Nile river
   1. Alosa alosa: *Alosa\_tc1\_NoNile.RDS*
   2. Anguilla Anguilla: *Anguilla\_tc1\_NoNile.RDS*
   3. Alosa fallax: *Fallax\_tc1\_NoNile.RDS*
   4. Lampetra fluviatilis : *Lampetra\_tc1\_NoNile.RDS*
   5. Liza ramada: *Liza\_tc1\_NoNile.RDS*
   6. Osmerus eperlanus: *Osmer\_tc1\_NoNile.RDS*
   7. Petromyzon marinus : *Petro\_tc1\_NoNile.RDS*
   8. Platichthys flesus : *Platich\_tc1\_NoNile.RDS*
   9. Salmo salar: *Salar\_tc1\_NoNile.RDS*
   10. Acipenser sturio: *Sturio\_tc1\_NoNile.RDS*
   11. Salmo trutta: *Trutta\_tc1\_NoNile.RDS*
3. Parameter estimates for all species from both the survey and FishBase
   1. *Species\_Parameters.xlsx*
4. Environmental data
   1. Historical observed data averaged for 10 years from 1901-1911:
      1. *Yr10\_Ann.R*
   2. Modelled climate data projected from 1951-2100 for two rcp scenarios
      1. *Enviro\_all\_models\_rcp45.RDS*
      2. *Enviro\_all\_models\_rcp85.RDS*
5. Distance matrix for all basins in the Atlantic Area
   1. *distanceMatrix15march.R*
6. Basin-specific information downloaded from EuroDiad v4.0
   1. *Info\_All\_Basins.RDS*