Combine stressor sensitivities

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source('https://raw.githubusercontent.com/oharac/src/master/R/common.R')  
  
source(here::here('common\_fxns.R'))  
library(flextable)

# Summary

Stressor sensitivity is a very simplified version of stressor weights (see draft1 folder for complicated version). Here, we will simply note whether a given species is sensitive to a given stressor, using the IUCN impact weights (i.e. non-negligible impact score), ranked as 0-3 (no, low, medium, high impact) for later differentiation if necessary. For species with NA impact scores, we can imply sensitivity based on other fields, e.g. severity. This version of sensitivity is not related to the range of exposure, as the weight calculation was doing.

Sensitivity will denote whether a species range overlapping a stressor range constitutes an impact.

# Methods

Gather processed sensitivity dataframe.

## Match threat codes to stressors

| **Threat category** | **Threat subcategory** | **Stressor** | **n spp** |
| --- | --- | --- | --- |
| 1. Residential & commercial development | 1.1. Housing & urban areas | direct\_human | 501 |
| 1.2. Commercial & industrial areas | 468 |
| 1.3. Tourism & recreation areas | 451 |
| 2. Agriculture & aquaculture | 2.4. Marine & freshwater aquaculture | nutrient | 36 |
| 4. Transportation & service corridors | 4.3. Shipping lanes | shipping | 438 |
| 5. Biological resource use | 5.4. Fishing & harvesting aquatic resources | art\_fish | 747 |
| dem\_dest | 265 |
| dem\_nondest\_hb | 243 |
| dem\_nondest\_lb | 66 |
| pel\_hb | 193 |
| pel\_lb | 68 |
| 6. Human intrusions & disturbance | 6.1. Recreational activities | direct\_human | 460 |
| 6.3. Work & other activities | 20 |
| 9. Pollution | 9.6. Excess energy | light | 20 |
| 9.1. Domestic & urban waste water | nutrient | 19 |
| 9.3. Agricultural & forestry effluents | 9 |
| 9.1. Domestic & urban waste water | organic | 7 |
| 9.2. Industrial & military effluents | 74 |
| 9.3. Agricultural & forestry effluents | 7 |
| 11. Climate change & severe weather | 11.1. Habitat shifting & alteration | oa | 2 |
| 11.3. Temperature extremes | 406 |
| 11.5. Other impacts | 2 |
| 11.1. Habitat shifting & alteration | slr | 3 |
| 11.5. Other impacts | 1 |
| 11.1. Habitat shifting & alteration | sst | 61 |
| 11.3. Temperature extremes | 442 |
| 11.5. Other impacts | 6 |