**Data**

* Raw counts, taken from submersible dives in Curacao, Roatan, St. Eustatius, and Bonaire

Roving surveys, where identified species and their depth were recorded on a video camera inside the sub, and transcribed later to excel. Collected specimens were added to this list later.

* Coefficients to correct for location-specific sampling biases

Thoughts for analysis:

* In the past, we binned our community fish observations into 10 m bins, creating 10 m “sites”
* Abundances should be adjusted in two ways
  + First, for each island, we added a correction factor to adjust for the fact that we spent an uneven amount of time at different depths. This was simply a coefficient we multiplied against fish count totals in all depth bins (except the most heavily sampled depth bin, which got a multiplier of 1), to standardize things for more even sampling effort.

For example, if our most heavily sampled depth bin was 100-109 m, with 300 minutes of observations, and another depth bin, 200-209 m was sampled for only 100 minutes, abundances for all species in that depth bin would get multiplied by 3.

* + After correcting for sampling effort, abundances should be square root transformed.

**Notes**

**- Bonaire:**  No fish observation at the 240m depth bin. Needs to be added as “0” for species richness before running models (otherwise, this data is just absent because this depth bin does not appear in the dataset). Total hours = 10\*3.5 ~ **35 hours.**

- **Roatan**: from 10 to 480m, with no time spent at 340, 370, 380 m (so these are not “0”s, these are non-observations). Total hours = 17\*4.5~ **76 hours.**

**- Statia:** 5.5\*11= **55 hours.** Need to add lack of fish observation at 250m.

**- Curacao**: difficult to determine nb of hours because observation time was opportunistically taken during many dives (>100) that were often only partially dedicated to fish observations.