

Dirty Data-Clean Maps

Computational skills workshop by

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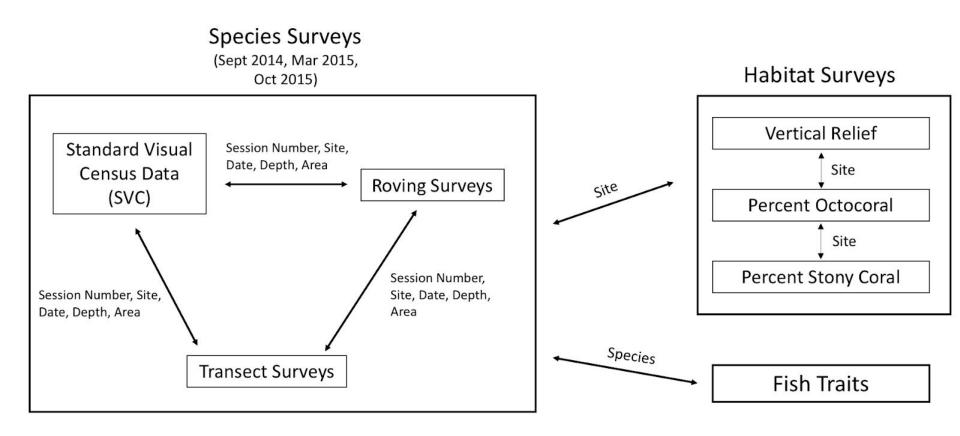


Data collection can be messy





...and so can data entry



Why use R to map?

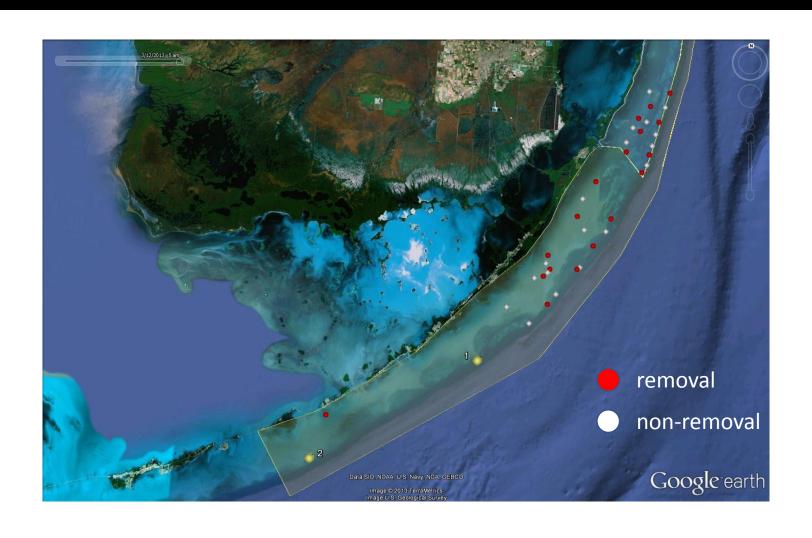
R is free and has TONS of online support/help

Can centralizes your workflow to one program

- Easy way to share code and reproduce exactly
 - Or change things up! But still have everything documented

Lionfish control studies

South Florida



Site Metadata

Region	Location	Site_name	Treatment	Lat	Long	Туре	Site Length (m)	Site Width (m)
Florida	Biscayne	Biscayne1	non-removal	25.38	374 -80.15	93patch	4	8 34
Florida	Biscayne	Biscayne2	Removal	25.3	891 -80.17	49patch	5	6 39
Florida	Biscayne	Biscayne3	non-removal	25.37	149 -80.18	53patch	2	9 26
Florida	Biscayne	Biscayne4	Removal	25.36	596 -80.17	03patch	8	8 70
Florida	Biscayne	Biscayne5	non-removal	25.34	455 -80.19	68patch	5	6 35
Florida	Biscayne	Biscayne6	Removal	25.32	747 -80.19	59patch	4	3 42
Florida	Biscayne	Biscayne7	non-removal	25.4	388 -80.15	65patch	4	8 35
Florida	Biscayne	Biscayne8	Removal	25.41	211 -80.15	29patch	5	0 40

Transect metadata

Transect_id	Site_name	Date
9575	Biscayne15	3/16/2015
9576	Biscayne4	3/16/2015
9577	Biscayne4	3/16/2015
9578	Biscayne3	3/16/2015
9579	Biscayne3	3/16/2015
9580	Biscayne9	3/18/2015
9581	Biscayne9	3/18/2015
9582	Biscayne13	3/18/2015

Study species

White grunt



Redband parrotfish



Species data

Transect_id	Species	TL_cm
9576	redband parrotfish	9
9576	redband parrotfish	10
9576	redband parrotfish	16
9576	white grunt	10
9576	white grunt	15
9576	white grunt	17
9576	white grunt	21
9576	white grunt	23

Workshop Details

Question: What are the densities and distribution of redband parrotfish and white grunt off the coast of South Florida?

Provide maps to help readers visualize the results

Sections:

- Install & Load Packages
- Import & Explore the Data
- Manipulate the Data (simple calculations, joining dataframes, etc.)
- Basic Comparison Graphics
- Mapping!

^{*}All workshop materials (data, tutorial, helper links, etc.) can be found on the OfficalBweems GitHub. https://officialbweems.github.io/DirtyData-CleanMaps/