



Dirty Data-Clean Maps

Computational skills workshop

by

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LaTreeese



Alex



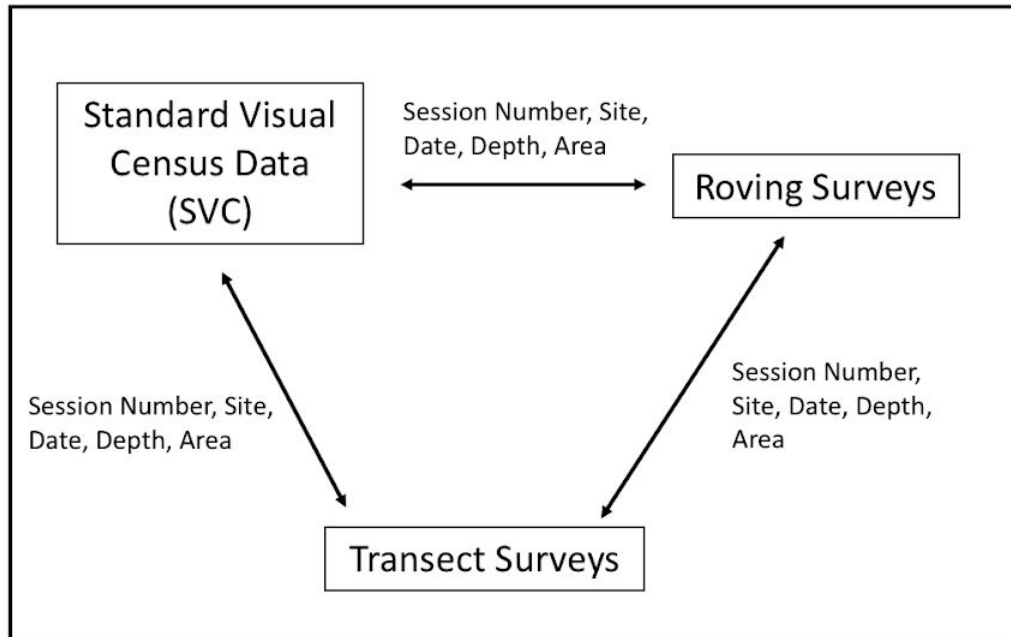
Data collection can be messy



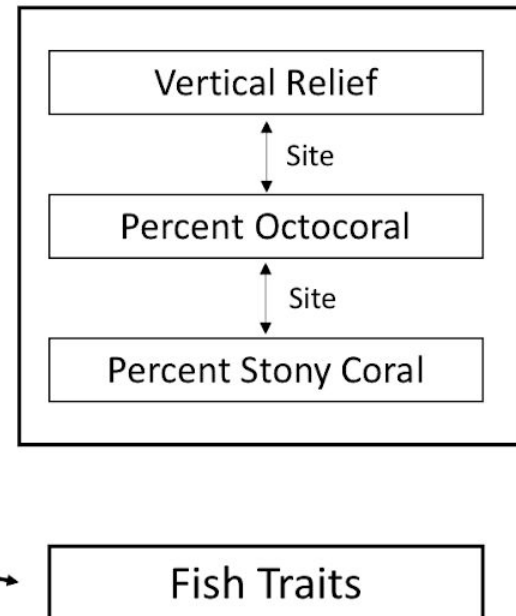
...and so can data entry

Species Surveys

(Sept 2014, Mar 2015,
Oct 2015)

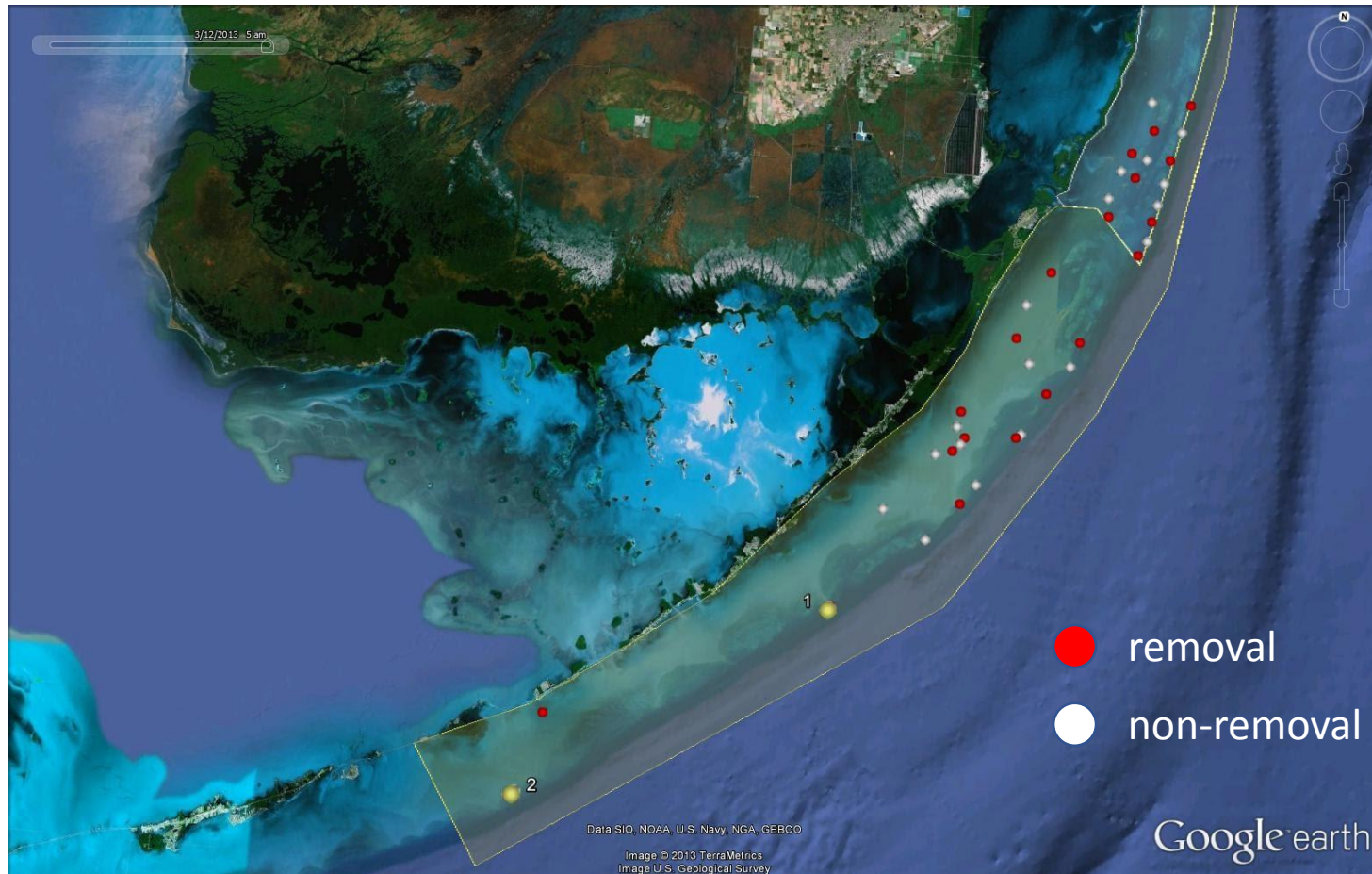


Habitat Surveys



Lionfish control studies

South Florida



Site Metadata

Region	Location	Site_name	Treatment	Lat	Long	Type	Site Length (m)	Site Width (m)
Florida	Biscayne	Biscayne1	non-removal	25.38374	-80.1593	patch	48	34
Florida	Biscayne	Biscayne2	Removal	25.3891	-80.1749	patch	56	39
Florida	Biscayne	Biscayne3	non-removal	25.37149	-80.1853	patch	29	26
Florida	Biscayne	Biscayne4	Removal	25.36596	-80.1703	patch	88	70
Florida	Biscayne	Biscayne5	non-removal	25.34455	-80.1968	patch	56	35
Florida	Biscayne	Biscayne6	Removal	25.32747	-80.1959	patch	43	42
Florida	Biscayne	Biscayne7	non-removal	25.4388	-80.1565	patch	48	35
Florida	Biscayne	Biscayne8	Removal	25.41211	-80.1529	patch	50	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 OfficialBweems GitHub. <https://officialbweems.github.io/DirtyData-CleanMaps/>