**Transdisciplinary Academy in Marine Resource Sustainability**

**Case Study Descriptions**

Case Study: West Coast Drivers

Drivers of fishing effort in West Coast Catch Share fisheries

Contact:

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Topic:

What drives fishing effort in coastal Oregon and Washington?

Background:

Reporting from the West Coast Limited Entry Trawl groundfish fishery permit holders along the Pacific Coast of the US allows for understanding of fishing behavior through the analysis of aggregated data. Using data from 14-reporting areas along the coast, this project will use metrics derived from the fishery (e.g., # of vessels, landings by species, economic variable, etc.) and trawl survey data to examine how the fishery responds to multiple socio-ecological drivers, including fish availability and distribution, and policy. Of interest are the changes which occurred after the inception of the IFQs in 2011. The analysis will be done for species with contrasting life history strategies, such as hake and the groundfish complex.

Existing Data:

Economic/fishery data from vessels fishing in each of the 14 areas as well as port data on landings:

* # vessels in area
* Average price by species
* Landings by species
* Average revenue by species
* Average vessel characteristics
* Average costs (variable and fixed)
* Average net revenue
* Hake data is not necessarily in the study, but it could be a driver so it is included in the supplied data.

Data Needs:

Trawl survey data (POC: Aimee Keller, NWFSC) aggregated to 14 areas.

Desired Area(s) of Expertise for Students:

Analytical skills

Other changes in the system that happened

* Environmental
* Economic status
* Participation
* MSC certification

Look into how the fishery was before ITQ

Where are co-ops located