



Exploring the Potential of Citizen Science "Catch U Later" Smartphone Application Update

DEPARTMENT OF ENVIRONMENTAL QUALITY

Marine Fisheries

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MRIP and Southern Flounder

 Harvest Estimates are precise

Estimate Status	Year	Common Name	Total Harvest (A+B1)	PSE	Harvest (A+B1) Total Weight (Ib)	PSE
FINAL	2018	SOUTHERN FLOUNDER	217,805	19.3	495,289	18.5
FINAL	2019	SOUTHERN FLOUNDER	163,045	19.1	387,203	23.3
FINAL	2020	SOUTHERN FLOUNDER	152,244	19	398,769	20.7

Discard Estimates are severely limited

- Field Staff do not physically see discarded catch
- Discarded flounder are recorded to the genus level
- ➢No Biological Data: Length/Weight











Catch U Later Research Objectives

1. What are the species specific contributions to generic flounder discards?

Benefit: Accurately classify generic discards





Catch U Later Research Objectives

2. What is the species specific length distribution of discarded flounder?

Benefit: Evaluation of catch at size





Catch U Later Research Objectives

3. Can anglers tell the difference between North Carolina's Flounder species?

Benefit: Evaluate the feasibility of single species management

What about spots?



Ocellated or "eye" spot (Summer & gulf flounder)



Non-ocellated spot (Southern flounder)















Progress to Date: App Development

Launched Application August 23, 2021









Progress to Date: App Development









Preliminary Data: Sampling Representation





T =TrainedUT =Untrained



Preliminary Data: Unusable Records

Of 288 records submitted 26 or (11%) could not be used due to a lack of picture or unusable picture











Preliminary Data: Species Specific Discard Contributions





66%







Preliminary Data: Species Specific Discard Length Frequency





Preliminary Data: Can Anglers Identify Flounder to Species?



Questions, Comments, Concerns

