Mining for gold
Exploring the Fleet’s lobster data
What can we get from this data gold mine?

• Stock assessment
  – Characterize commercial catch
    • Sex ratio
    • Size
  – Characterize discards
    • Eggers
    • V-notched females

• Contribute to understanding of the resource
  – Particularly for offshore
  – Basic biology
    • When do females have eggs?
      – When/where does spawning happen
      – When/where does egg hatch happen
    • When is the molt?
      – When to assign molt-related mortality in the model
      – Identify “mating season” = female molt
CFRF Research Fleet
Lobster Data
General Sample Locations
July 2016 - July 2018
Eggers

• Who
  – What percentage of females observed have eggs?
  – What size are the eggers?

• When
  – During which months are females egg-bearing?

• Where
  – At what depth are eggers predominantly found?
Molting

- Who
- When
- Where (at what depth)

- Helps us assign growth & molt-related mortality in the assessment model to appropriate season
- Helps us understand some basic biology
  - “Mating season” = female molt
  - Is it concentrated in certain depth ranges?
    - Temperature-related?
Sex ratios

• Patterns in sex ratio
  – By size
  – By depth
  – By area
  – By month
extras