

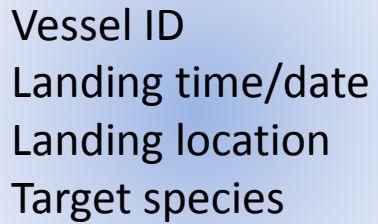





Charter/Headboat Electronic Reporting



Flow chart and description
of reporting steps

Fishing with Electronic Reporting

Hail-out before leaving



Vessel ID
Landing time/date
Landing location
Target species



Hail-out

- Indication that a trip will be taken
- Creation of a unique trip identifier
- Enforcement and validation
 - Approved landing locations ensure site exists and is accessible
 - Estimated return time in hail-out
 - Typically known in advance for charter trips
 - Helps plan validation activities for enforcement and port agents
 - Decreases data needed if hail-in required





Fishing with Electronic Reporting



Hail-out before leaving

Fishing

Hail-in



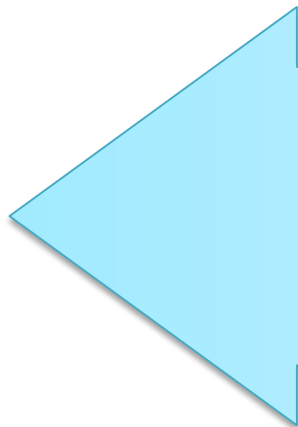
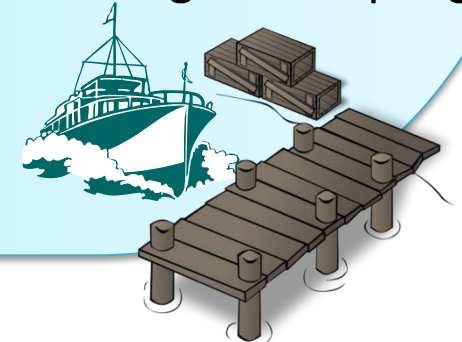
Vessel ID
Landing time/date
Landing location
Target species



Retained catch*
of Anglers
Actual time in
*May be species specific



Validation &
biological sampling



At-Sea Data and Hail-in

- At-sea data collection
 - Location information automatically collected
 - Depending on hardware, may be able to enter catch information at sea
- Hail-in
 - May not be viable option for all hardware choices
 - E.g., cell phone or WiFi service coverage areas limited in some geographic areas
 - Allows for comparative validation of reported catch by port agents and enforcement



Hail-in

- May be used solely as validation tool or part of final logbook
 - Species specific reporting (validation tool)
 - All catch reporting required (part of final logbook)
- Unique trip identifier
 - Links hail-out to hail-in to final logbook record
- Updated landing time
 - May vary due to weather conditions, etc.




Fishing with Electronic Reporting


Hail-out before leaving

Fishing

Hail-in



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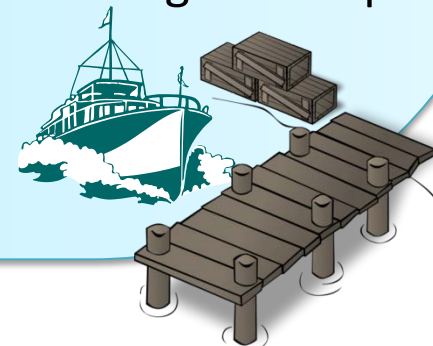



Final trip submission

Validation &
biological sampling



Released catch
Hours fished
Socio/economic



Logbook Completion

- Remaining data entered
 - Some data elements may not be available to captain (e.g., fuel costs, charter fee, socio/economic data)
- Time frame to complete
 - Recall bias
 - Mixing trips, especially when 2 trips taken per day
 - Suggestion: minimize reporting timeframe to reduce recall bias



West Coast Charter Example

- Logbook has 4 sections
- Pre-departure: vessel information, port, operator, or declaration of no fishing activity
- Trip Info: trip length, target species, bait, gear
- Trip Catch: Species caught (kept, discarded, and lost to predation)
- Post Trip: departure and return time, hours fished, depth fished, # fishers, # crew, location fish primarily caught



Questions?

