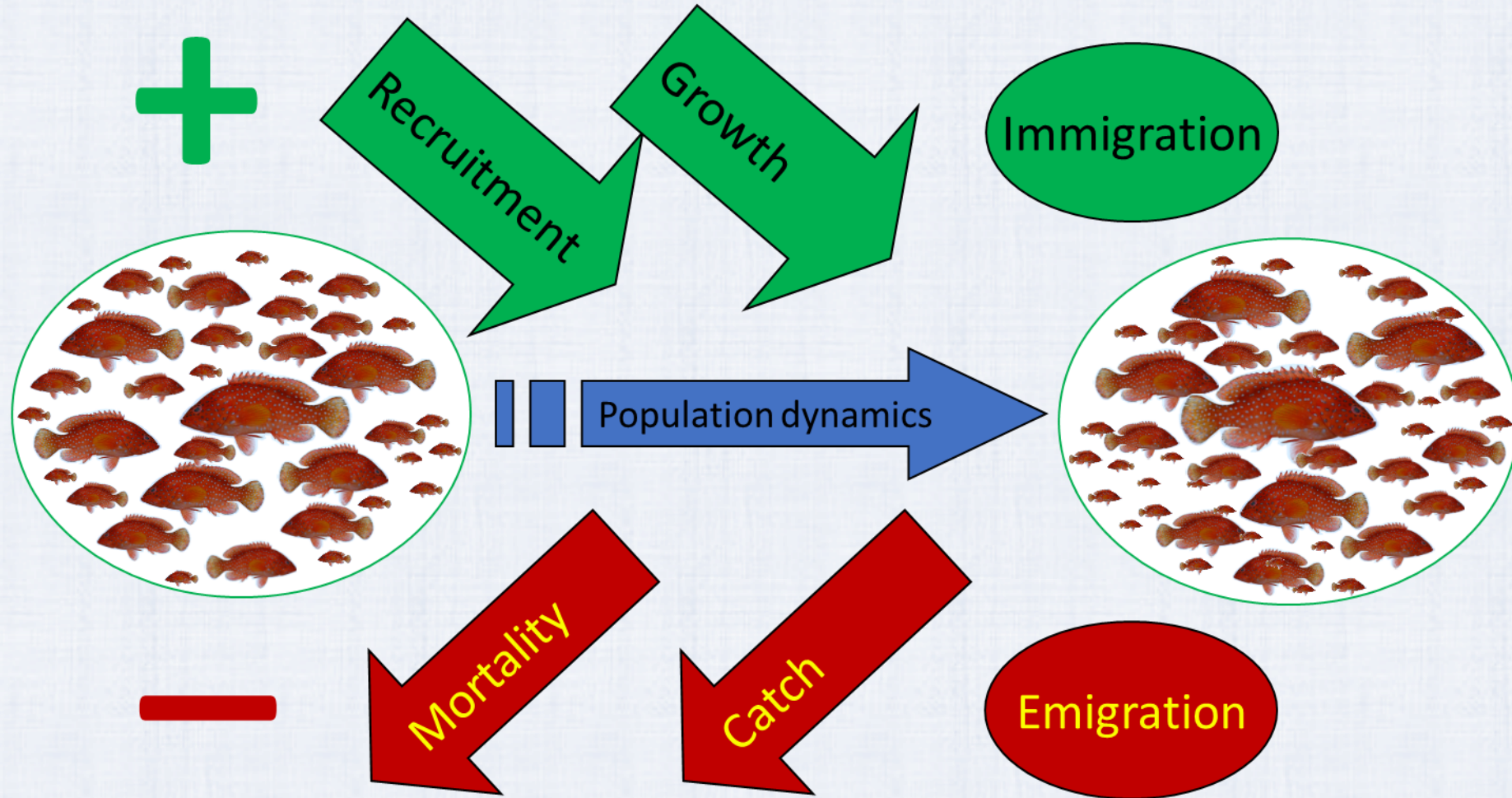


Fisheries Data



Fisheries Data

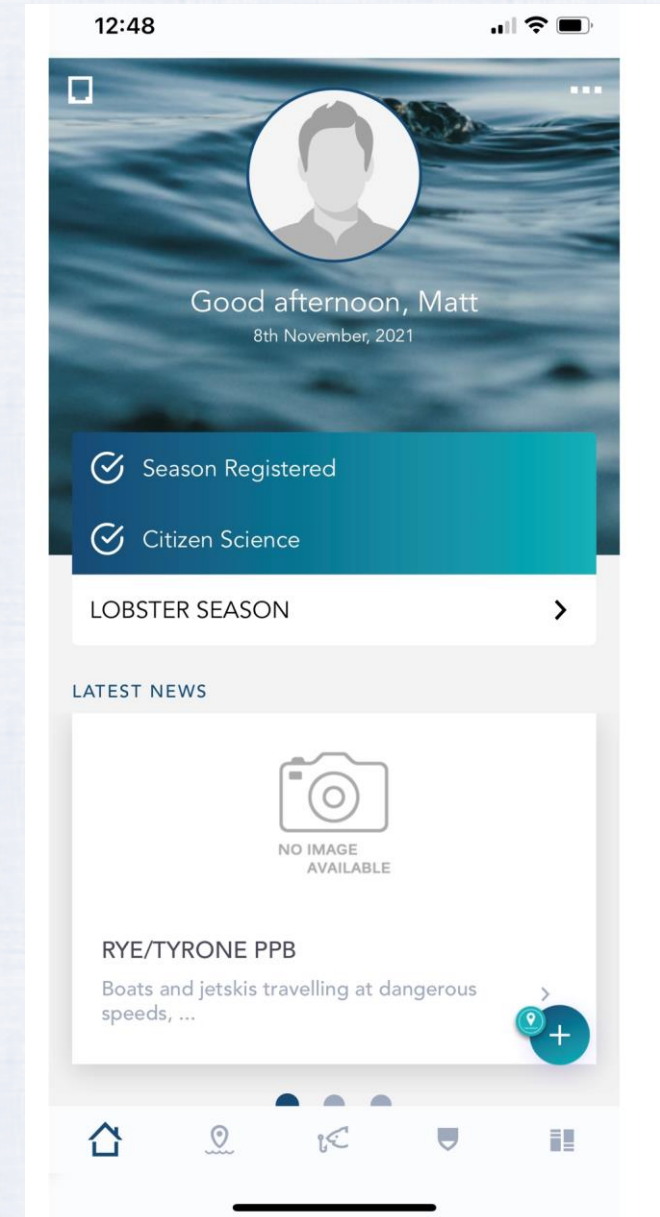
- What you will learn
- Fishery dependent
- Fishery independent
- How it's collected
- How it's used (in stock assessments)

Fisheries Data

- Two types of data
- Fishery-dependent
 - Collected from the fishery
 - Angler diaries
 - Mobile apps
 - Creel surveys
 - Logbooks
 - Observers
 - VMS
 - Cameras
 - Tagging
- Fishery-independent
 - Collected while not fishing
 - Surveys
 - Interviews
 - Experiments

Fishery-dependent data

- Angler diaries
- Mobile apps
- Creel surveys



Fishery-dependent data

- Logbooks

Australian Fisheries Management Authority
PO Box 376 Thursday Island QLD 4875

Torres Strait Daily Tropical Rock Lobster Log – TRL04

Original Copy – Send to AFMA

Vessel Name: Dist. Symbol: Log No: Page No:

Extended Non-Fishing I did not work between / / and / / Non-Fishing Code NON-FISHING CODES 1 Bad Weather 2 In Port 3 Broken down 4 Steaming 5 Other fishery

Trip Details Departure Date / / Port of Departure Landing Date / / Port of Landing

Date	Location	Latitude (degrees & min.)	Longitude (degrees & min.)	Fishing code	TS		EC		TS		EC		TS		EC		TS		EC	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Catch Details

		Hookah	Free	Hookah	Free	Hookah	Free	Hookah	Free	Hookah	Free	Hookah	Free	Hookah	Free
Dinghy 1	Total hours fishing														
Diver:	Lobster tails (kg)														
Diver:	Lobster live (kg)														
	Number Lobster (voluntary)														
Dinghy 2	Total hours fishing														
Diver:	Lobster tails (kg)														
Diver:	Lobster live (kg)														
	Number Lobster (voluntary)														
Dinghy 3	Total hours fishing														
Diver:	Lobster tails (kg)														
Diver:	Lobster live (kg)														
	Number Lobster (voluntary)														
Dinghy 4	Total hours fishing														
Diver:	Lobster tails (kg)														
Diver:	Lobster live (kg)														
	Number Lobster (voluntary)														
Dinghy 5	Total hours fishing														

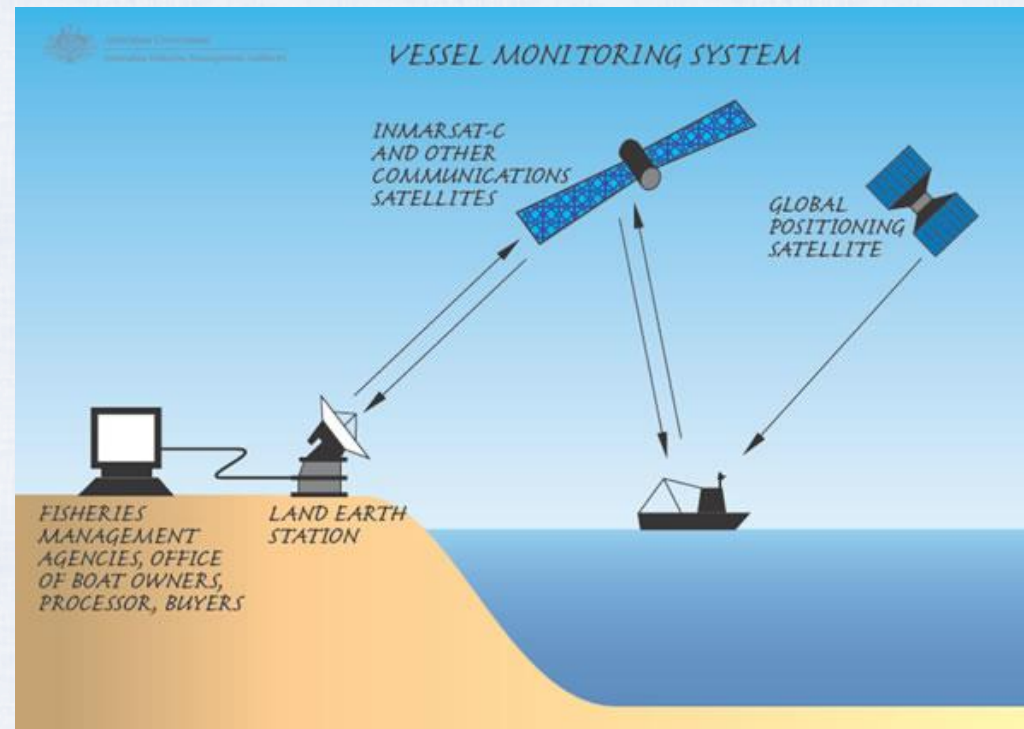
Information I have provided on this form is a true and accurate record.

Date: / /

Signature:

Fishery-dependent data

- Vessel Monitoring Systems (VMS)
- Used mostly for compliance
- Position, date, time, speed



Fishery-dependent data

- Observers
- Usually low percent of effort
- Collect information on
 - Retained and discarded catch
 - Length structure
 - Age structure
 - TEP interactions
 - Composition of species



Fishery-dependent data

- Tagging
- Can be used for
 - Movement
 - Mortality
 - Abundance
 - Behaviour
 - Growth
 - Age validation (dye)

Standard T-bar / Dart tags



Pop-off archival transponding



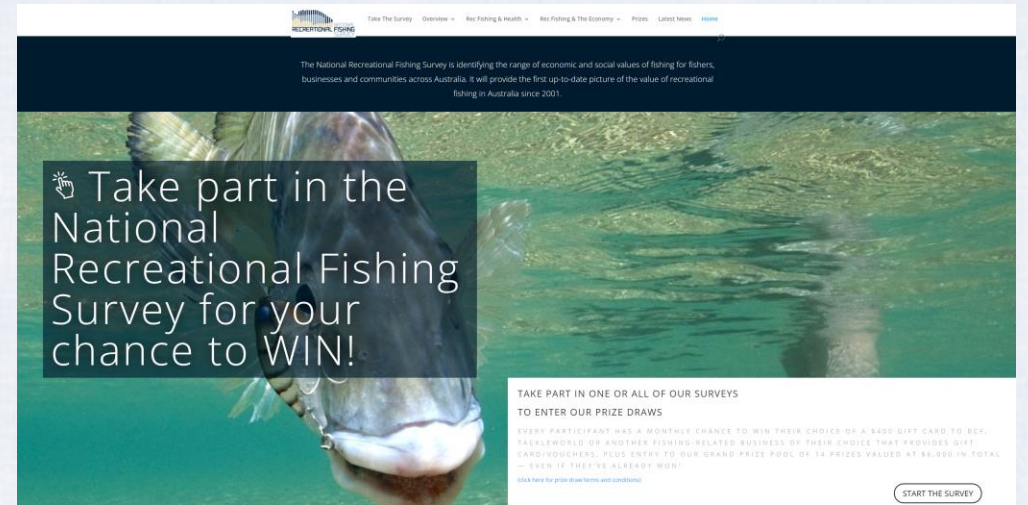
Archival



Acoustic

Fishery-independent data

- Fishing surveys
 - Phone interviews
 - Internet
- Fishery-independent biomass/abundance surveys
 - Relative or absolute index of abundance
 - Removes some problems with commercial CPUE



Fisheries data

- Traditional knowledge
- How can it best be used?
- Contemporary management focused on data

- Information of local spatial scales?
- Locally relevant management and conservation?



Ian Knuckey

ian@fishwell.com.au

www.fishwell.com.au

<http://www.youtube.com/user/FishwellConsulting>