vess

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of a

up to 300 Vessels

are responsible for

85%

of the total catch (by volume) from inshore fisheries

Vessels using the following methods are proposed to be included in the wider rollout of on-board cameras

Surface longline
All vessels

Bottom longline
All vessels

Trawl
Vessels ≤32m in length except those targeting scampi

Set net
Vessels ≥8m in length

Purse seine
All vessels

Danish seine
All vessels

These 300 vessels pose the greatest risk from New Zealand fisheries to these protected species:

ANTIPODEAN ALBATROSS

HECTOR'S AND MĀUI

BLACK PETREL

HOIHO

Operating model

- Legal requirement
- MPI own footage
- MPI choose technology
- Service provider for
  - Equipment
  - Installation
  - Transfer
  - Storage
  - Fisher support
- MPI review footage
- Industry pay $10m NZD (quota owner not vessel owner)

Version as at 6 October 2023

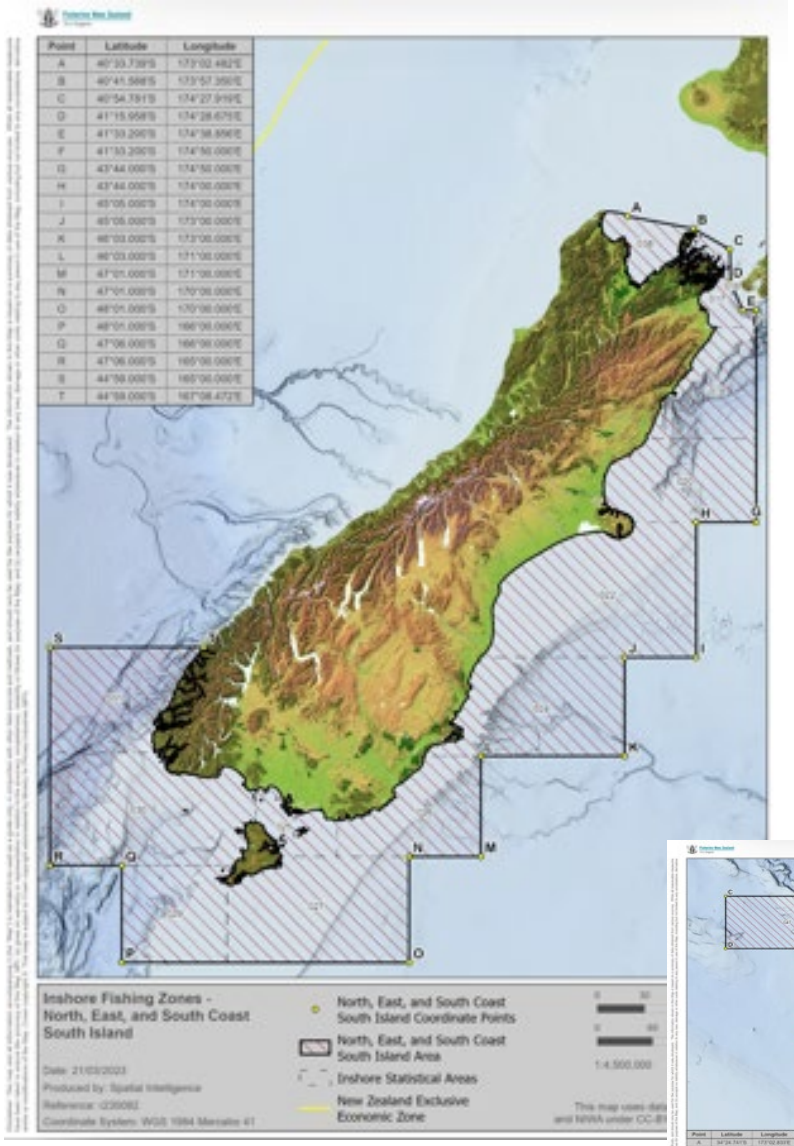
Fisheries (Electronic Monitoring on Vessels) Regulations 2017

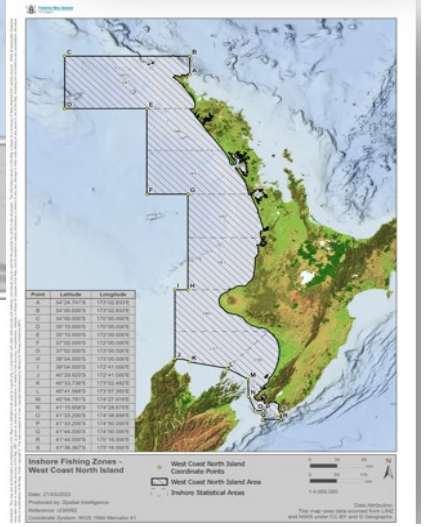
(LI 2017/156)

Patsy Reddy, Governor-General

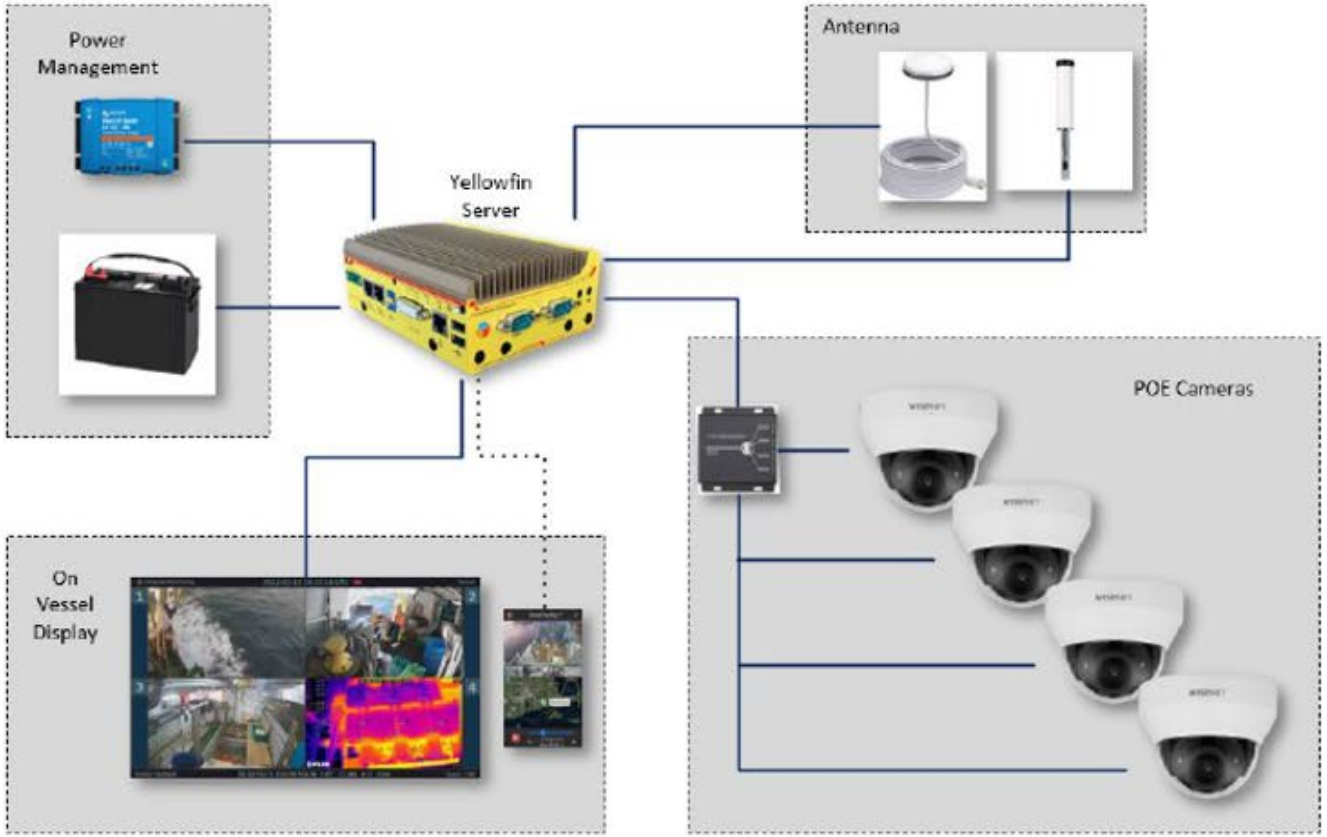
Order in Council

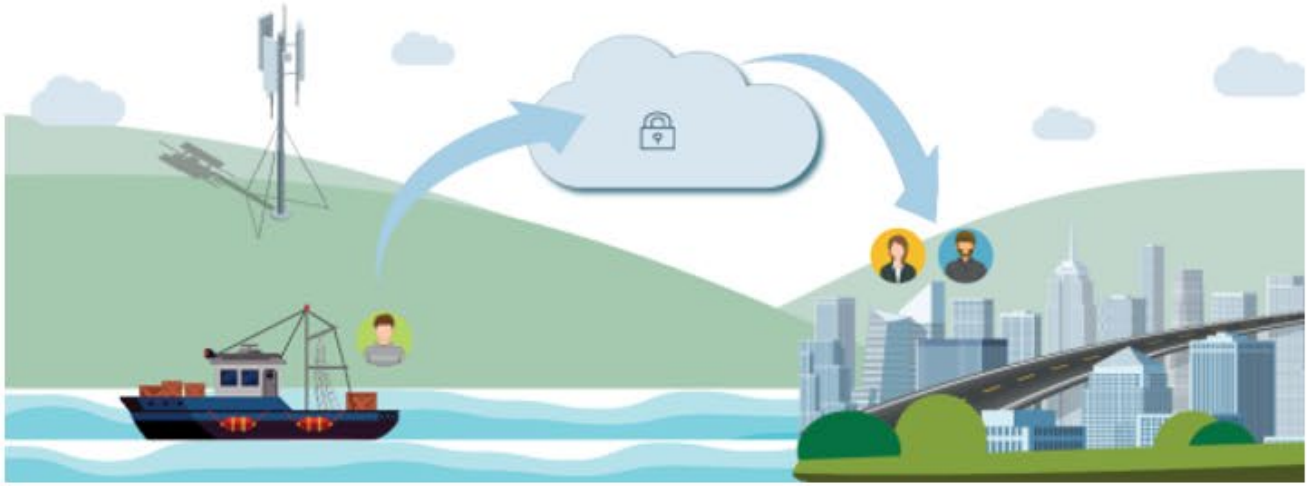
Priority Group	Fishery	Go-live date
1	West Coast North Island trawl & set net	November 2019 (POC) 1 August 2023 (non-POC)
2 & 3	North, East & South Coast South Island trawl & set net	31 October 2023
4	Surface longline	16 January 2024
5	FMA1 bottom longline	26 June 2024
6 & 7	All other trawl and bottom longline	3 December 2024
8, 9 & 10	Danish seine, purse seine and all other set net	28 February 2025





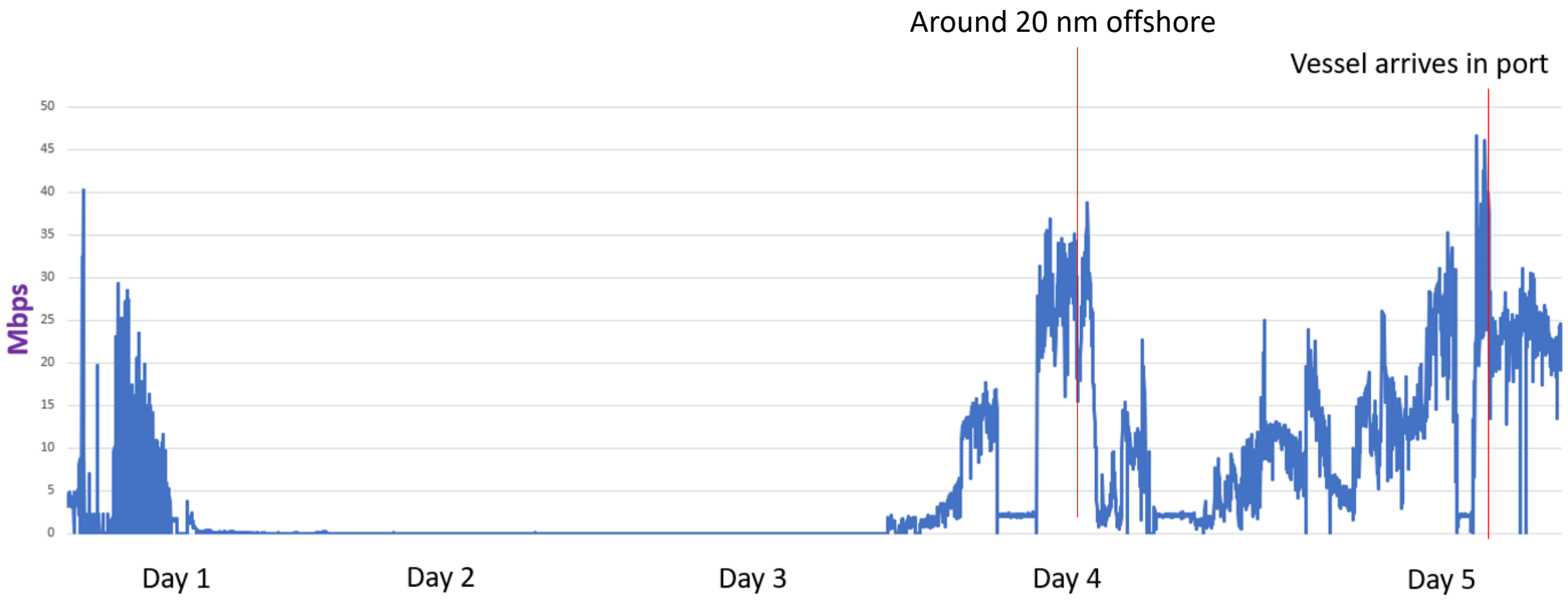
Note the 35 vessels equipped with cameras as of 1 August also had to provide footage when fishing in North, East & South Coast South Island


Power
Management
Antenna
Yellowfin
Server
POE Cameras
On
Vessel
Display



Purpose of cameras is to verify fisher reporting

Monitoring objectives
Verify protected species captures
Verify compliance with landing & discard regulation
Verify protected species mitigation use


Around 20 nm offshore
Vessel arrives in port
Mbps
50
45
40
35
30
25
20
15
10
5
0
Day 1
Day 2
Day 3
Day 4
Day 5

Footage review

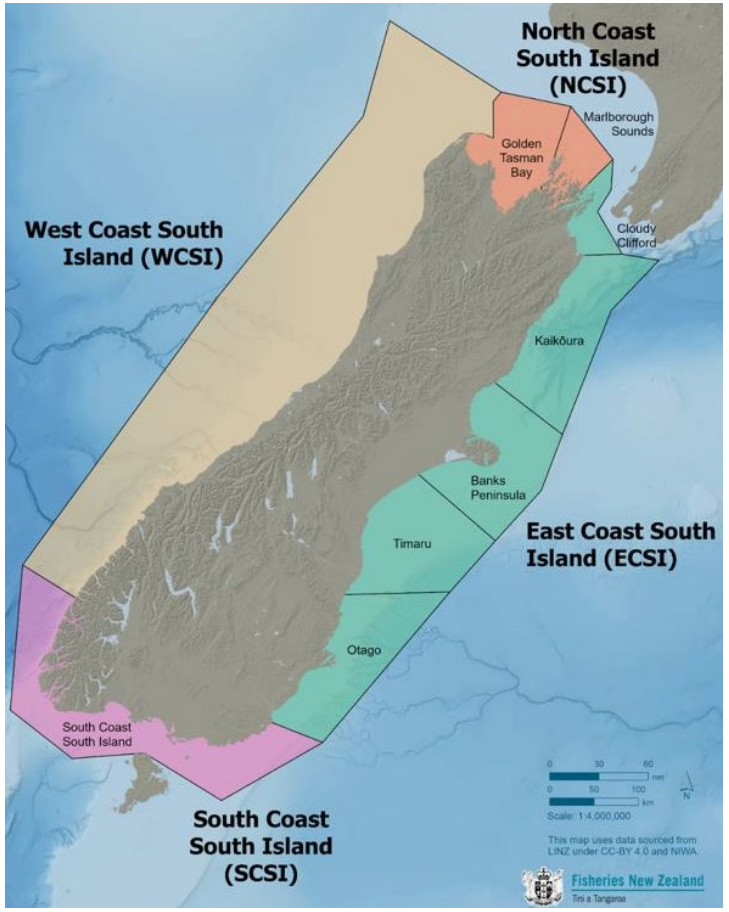
- Footage matched to ER data
- Event based footage selection
- Reviewers / video analysts record data based on what they see
- Annotation data automatically compared against fisher reported data

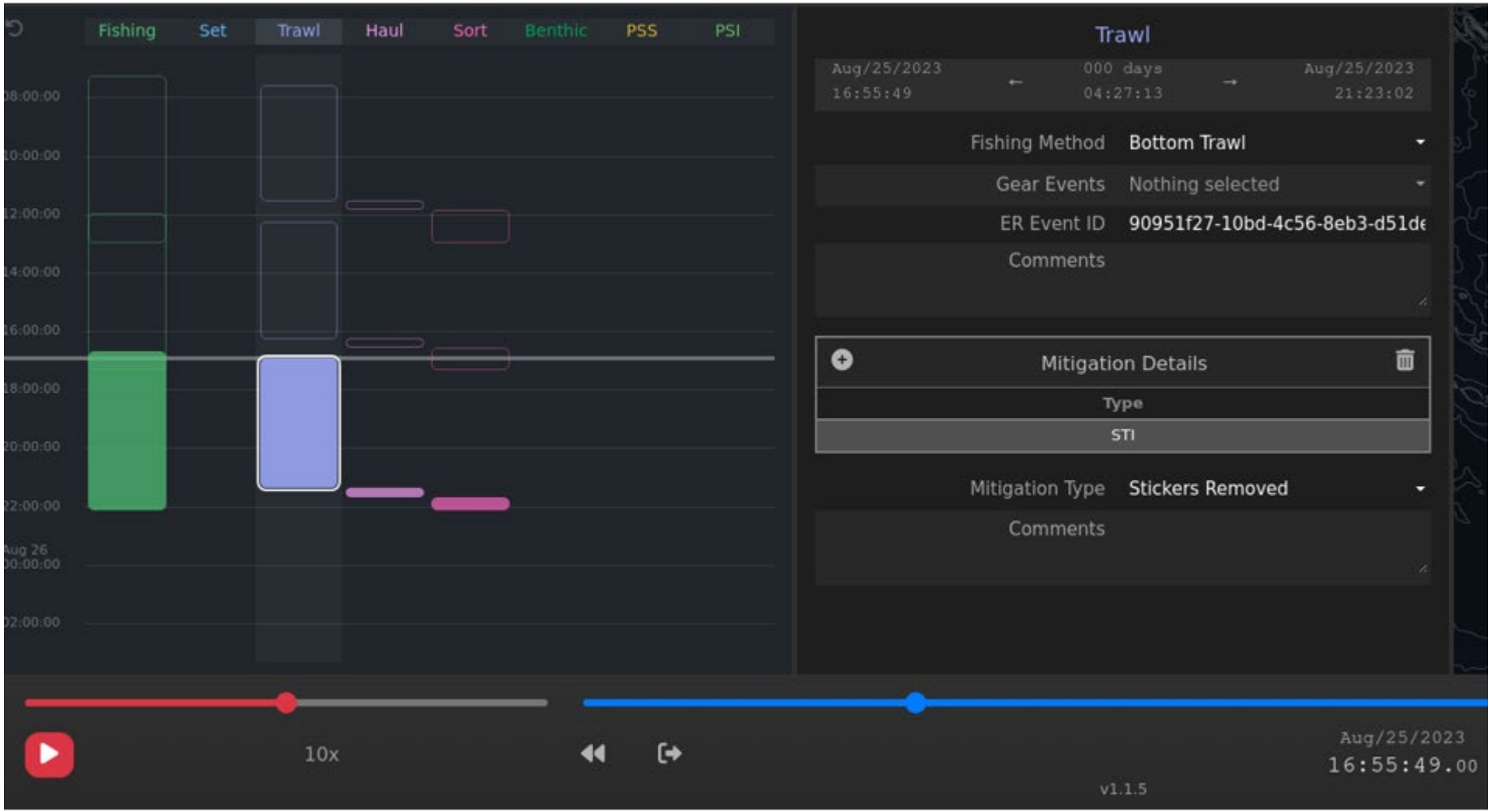
Type of review	Protected species	Full (catch composition)
Purpose	To determine whether a protected species capture has occurred	To independently quantify the entire catch (including any protected species)
Speed of review	Reviewer watches at an elevated speed	Reviewer watches at a slower speed than with a protected species review (but still faster than real time)
Data entered	All protected species captures (including the details of the capture) Mitigation equipment used (note that this will include viewing parts of the setting and/or towing of gear, as appropriate by method) Any suspected breaches of fisheries regulations (illegal discards etc.) Reviewer assessment of footage quality Protected species sightings of selected species (e.g. Hector's/Māui dolphin) Any suspected breaches of other regulations (e.g. Maritime, Animal Welfare)	As per protected species review plus – Full assessment of vessel catch (including non-QMS and returns to the sea) – All mitigation practices used (offal discharge etc.)
When does the Video Analyst stop	When confident that the reviewer could have observed a protected species capture if one had occurred	When the entire catch has been sorted and the reviewer is confident that the entire catch has been quantified

Review rates

Risk based approach to footage review – baseline level across all vessels with higher rates in those areas with higher risk of misreporting or where consequences of misreporting are greatest

Method	Area	Proposed Review rate *(as % of total fishing events)*
Trawl	Within 12nm of the coast in the South Coast South Island TMP area	50%
	Within 7nm of the coast in the Otago TMP area	100%
	Within 12nm of the Coast within the Kaikōura TMP area	20%
	Within 12nm of the coast in the Cloudy Clifford TMP area	50%
	Within 12nm of the coast within the North Coast South Island TMP area	35%
	FMA3 (events targeting tarakihi or barracouta)	13%
	All other areas of within the North, East and South Coast of the South Island not otherwise listed above	5%
Set net	Banks Peninsula – Fiordland (including Stewart Island)	100%
	Within 12nm of the coast in the Cloudy Clifford TMP area	50%
	Within 12nm of the Coast within the Kaikōura TMP area	70%
	Within 12nm of the coast within the North Coast South Island TMP area	35%
	All other areas of within the North, East and South Coast of the South Island not otherwise listed above	5%




Fishing
Set
Trawl
Haul
Sort
Benthic
PSS
PSI
08:00:00
10:00:00
12:00:00
14:00:00
16:00:00
18:00:00
20:00:00
22:00:00
Aug 26
00:00:00
02:00:00
Trawl
Aug/25/2023
16:55:49
000 days
04:27:13
Aug/25/2023
21:23:02
Fishing Method
Bottom Trawl
Gear Events
Nothing selected
ER Event ID
90951f27-10bd-4c56-8eb3-d51de
Comments
Mitigation Details
Type
STI
Mitigation Type
Stickers Removed
Comments
10x
Aug/25/2023
16:55:49.00
v1.1.5

As of 7 November

- Cameras installed on **98 vessels** (90 Spark & 8 proof-of-concept)
- Of the Spark vessels – **61** have provided MPI with footage (43 from PG2/3)
- Since 1 August, vessels equipped with Spark cameras have completed around 185 trips / over 1,100 events
- 8 protected species captures detected by Video Analysts – **all were reported by the fisher**