

Background

The purpose of this summary is to provide ORH stakeholders with the nature and extent of fur seal interactions in the New Zealand orange roughy fisheries, as they are displayed on the Dragonfly Protected Species Captures website.

The URL to the Dragonfly Protected Species Captures website:

<http://data.dragonfly.co.nz/psc/>

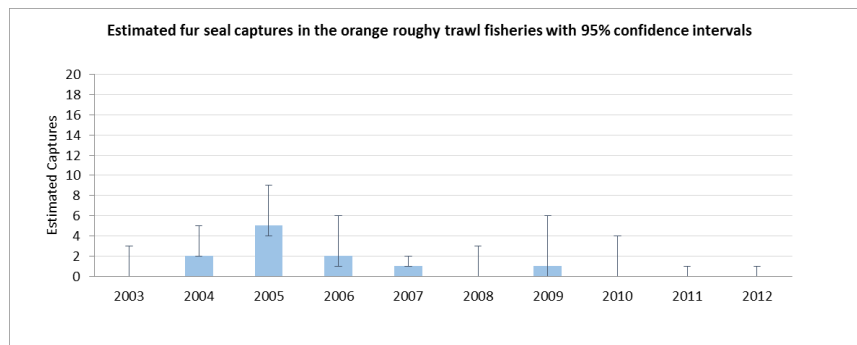
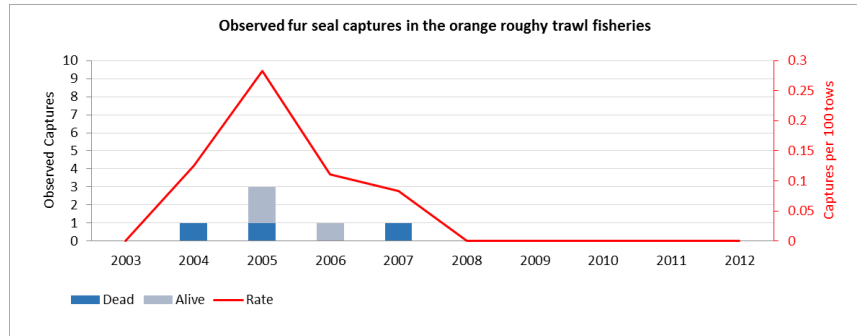
“Trawlers targeting orange roughy have occasionally incidentally captured NZ fur seals (which were classified as “Not Threatened” under the New Zealand Threat Classification System in 2010, Baker et al 2010). Between 2002–03 and 2011–13, there were 6 observed captures of fur seals in the orange roughy trawl fisheries, with an estimated total capture of fur seals for all orange roughy tows between 2002-03 and 2012-13 of 11. (Table 1). All observed fur seal captures occurred in the Sub-Antarctic region. There have been no reported captures of fur seals in the last six years. The average rate of capture for 2002-03 to 2012-13 is 0.06 per 100 tows (range 0 to 0.28), a very low rate compared with other New Zealand trawl fisheries by between one and two orders of magnitude” (MPI (2014). p600)..

New Zealand fur seal interaction with vessels targeting orange roughy

Table 1: Table of effort and New Zealand fur seal captures, 2002-03 and 2012-13

Table of effort and captures by fishing year				
Year	Tows	Observed Percent	Observed Captures	Rate
2002-03	4895	19.1	0	0
2003-04	4865	16.3	1	0.125
2004-05	5001	21.2	3	0.282
2005-06	4948	19.4	1	0.104
2006-07	4058	29.3	1	0.083
2007-08	3689	43.8	0	0
2008-09	3544	40.4	0	0
2009-10	2922	38.9	0	0
2010-11	1889	26.2	0	0
2011-12	1589	27.5	0	0
2012-13†	1592	11.6	0	0

† Provisional data, no model estimates available.(see MPI (2014))



Figures 1 & 2: Graphs of effort and capture between years 2002-03 and 2011-12

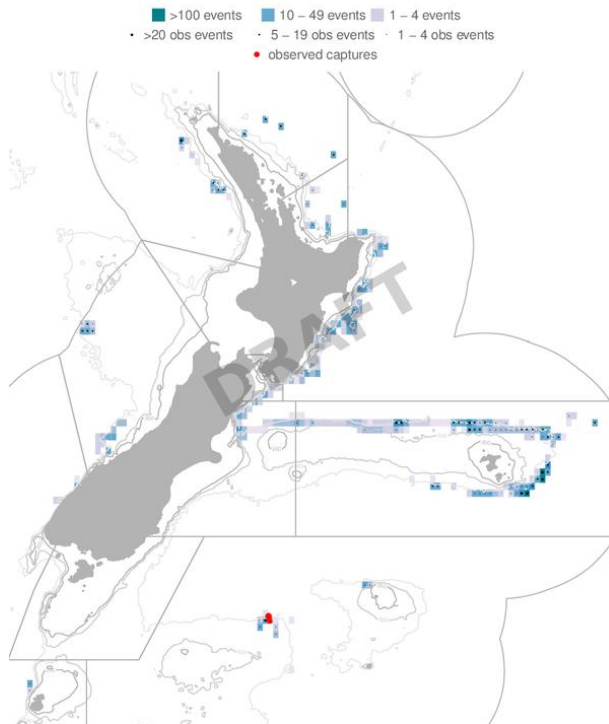


Figure 3: Map of effort and captures between years 2002-03 and 2012-13

Table 2: Table of observed New Zealand fur seal captures in New Zealand waters 2003-04 to 2012-13§

Table of observed captures 2003 - 2013			
Year	Species	Status	Area
2003/2004	New Zealand fur seal	dead	Subantarctic
2004/2005	New Zealand fur seal	dead	Subantarctic
2004/2005	New Zealand fur seal	alive	Subantarctic
2004/2005	New Zealand fur seal	alive	Subantarctic
2005/2006	New Zealand fur seal	alive	Subantarctic
2006/2007	New Zealand fur seal	dead	Subantarctic

§ Although these interactions occurred in ORH3B they did not occur on the Chatham Rise (ORH3B (NWCR) or ORH3B (ESCR))