

Hoki

Argentina – Australia – Chile – New Zealand

Supply and Insights









Thanks for your help!

» Mario Inostroza Emdepes, Chile

» Mariano Mansilla Seaman International, Argentina

» Doug Paulin Sealord, New Zealand

» Rosie Hurst
NIWA, NZ

» Greg Johansson Johansson Seafood, NZ

» Inge Wisselink Deepwater Group, NZ

» Janice Molloy Southern Seabird Solutions, NZ









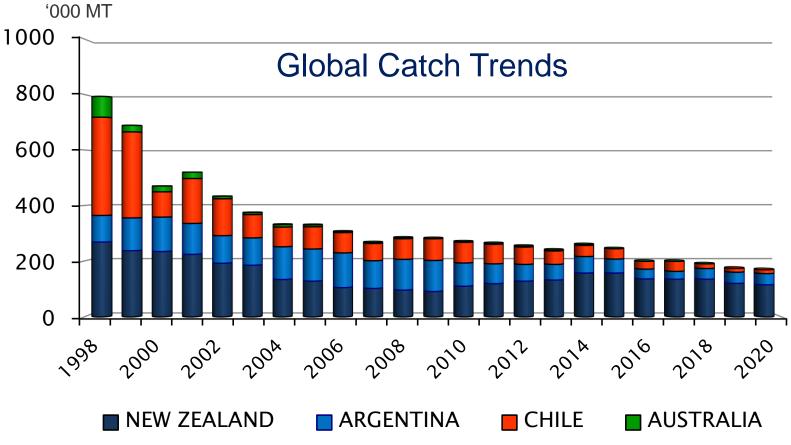
Sanford Group





Hoki





Source: until 2017 = FAO; 18 - 20 = GFF



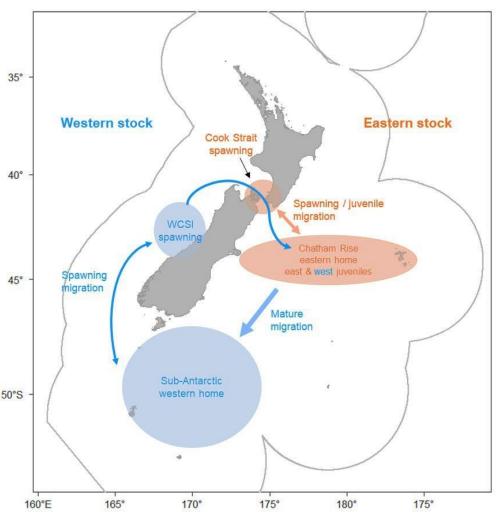




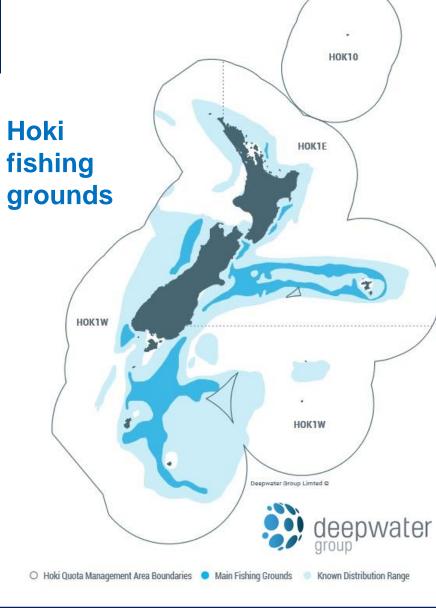


Hoki – New Zealand

Hoki nursery, spawning, and home grounds and hypothetical migration routes



50°S



Fisheries New Zealand Plenary Report 2019









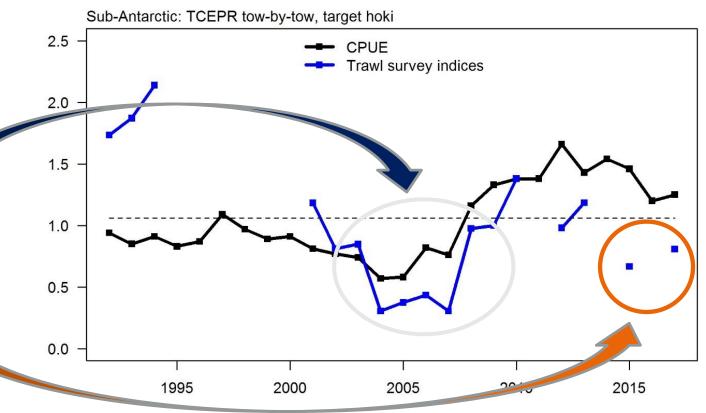
Stock Assessment – Sub-Antarctic Survey Uncertainty

Uncertainty about possible change in catchability in mid 2000's

And how to interpret the recent decline

 Significant warming in northern and western areas around New Zealand

Tasman (= west coast hoki spawning area) cool periods corresponded to highest hoki year class strengths











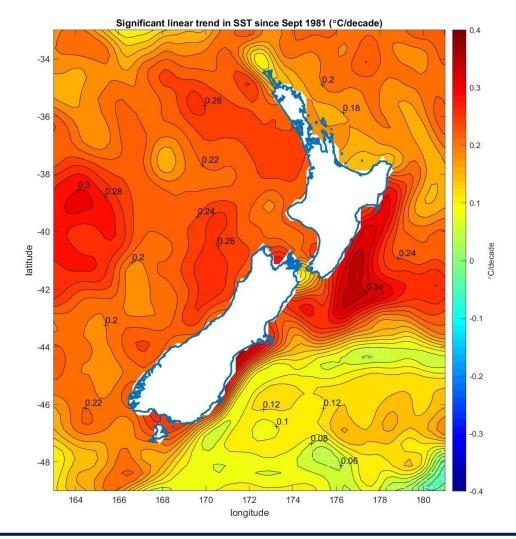
Hoki – New Zealand

Sea surface temperature change around NZ: trend since 1981



Sutton, P., Bowen, M., 2019: Ocean temperature change around New Zealand over the last 36 years. New Zealand Journal of Marine and Freshwater Research.

https://doi.org/10.1080/00288330.2018.1562945











Shifting the Focus













2014

commodity fish -> seafood -> beyond food









Sealord Hoki Retail Range



Block Fillet









Portions







9 skus in range





6 skus in range

Fingers/Cakes/Fries/Bites









8 skus in range

Hoki – Argentina

- » TAC: ~80,000mt
 - » Biomass in good shape
 - » Fishery operates under a ITQ system that is working without problems.
- » Catches:~40,000mt in 2018 and expected ~40,000mt in 2019
 - » Economical reasons for under catch. Only 2 companies are using their full quota (San Arawa and Pesantar).
- » Product mix
 - » Fish blocks: only San Arawa on one vessel
 - » Surimi: produced by San Awara out of hoki and SBW
 - » Shatterpacked fillets and HGT: Pesantar
- » MSC
 - » Certification temporarily suspended in June 2019 mainly due to issues with juvenile catches
 - » Action plan subsequently presented and approved by MSC
 - » Suspension is expected to be lifted before the end of 2019
- » Company M&A
 - » San Arawa, previously owned by Nichimo Japan, has been bought by a Norwegian group of investors in March 2019. The management of the company is now through another Argentine company, Estremar SA.









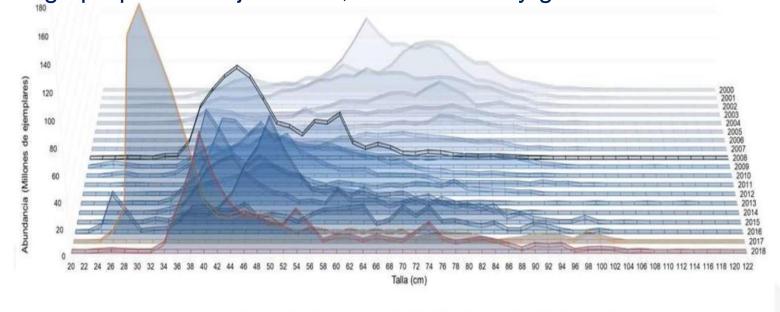
Hoki – Chile

Hoki fishery in Chile is managed through a well functioning ITQ system

 Catches have decreased significantly over the last few years due to changes in the behaviour of the biomass due to climatic change

The current biomass has a high proportion of juveniles, which is a very good news for the

future



000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018









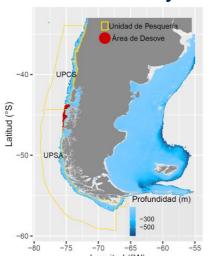
Hoki – Chile

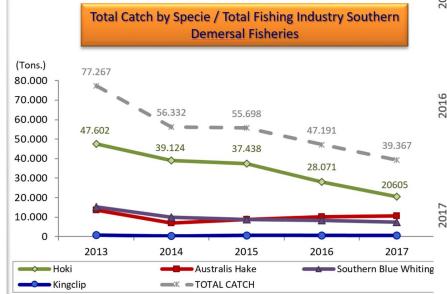
 In 2016 and 2017 a relative increase in the sea surface temperature is observed with a deeper thermocline (~200 m)

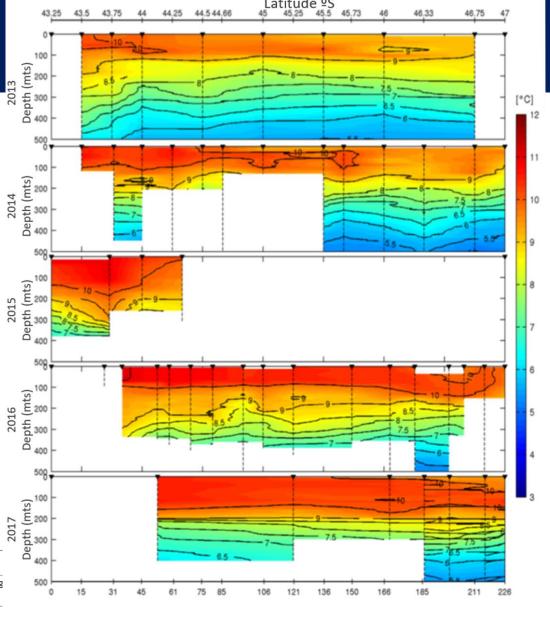
 There is a correlation between the increase in the water temperature and the decrease in the total catches

In all this period, total catches have decreased in the

Chilean fishery.















Environmental Effects – New Zealand

Since 2006, reduced interactions with protected species:









Bird captures

Sea lion captures

Fur seal captures

Dolphin captures

63%



Estimated captures





Estimated captures 1,985 to 744

50 to 9

Estimated captures 1,041 to 200

Estimated captures 85 to 0

Albatross by 74% Now cl

Now close to zero

Declining Now close to zero











Seabirds

- New Zealand seabird capital of the world with over 80 species breeding
- Significant actions, interventions and processes – 13 years for trawl, longer for longline
- Progress made benchmarks well with international results
- We still have challenges with trawl net captures of birds





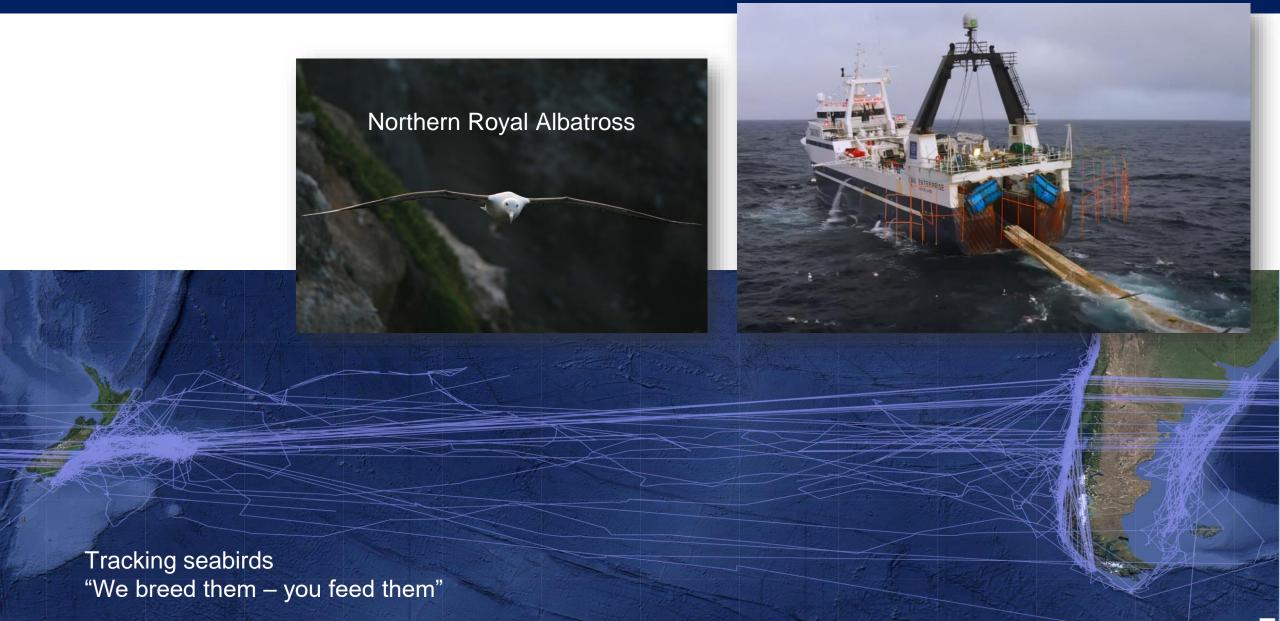








The Need for International Collaboration To Safeguard the Survival of Southern Seabirds



Environmental Effects – New Zealand

Protected Areas



1% of the EEZ is trawled annually

of the EEZ has ever been trawled

30% of the EEZ is closed to trawling







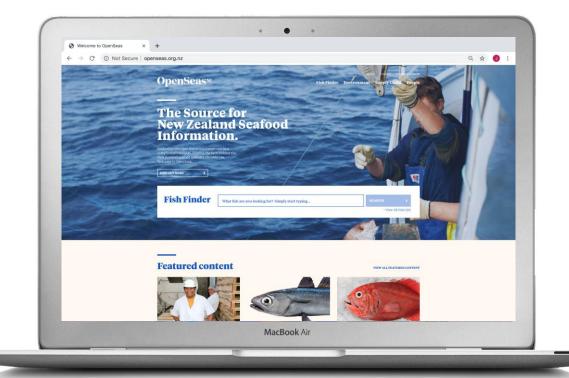




Building Trust through Transparency - Independently Verified

OpenSeas^{NZ}

The Source for New Zealand Seafood Information



www.openseas.org.nz



Seafood production and procurement can be a complicated business.

Finding the facts behind the New Zealand seafood industry shouldn't be.









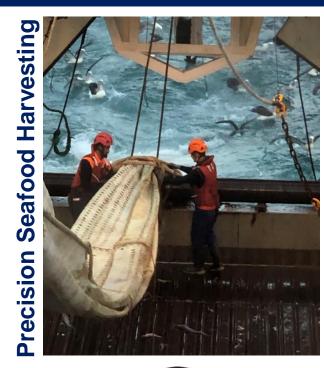
Precision Seafood Harvesting – Collaborating for Innovation in NZ

- NZ Regulatory approval for targeting 8 different species
- Vessels from 19m to 83m using PSH daily, fishing from 20m to 600m
- Catch rates maintained (as a minimum) with less fuel burn
- Longline quality (as a minimum) caught by trawl (achieved for a portion of the catch)
- Catch value lift through quality and product cascade
- Reduced cryptic mortality

Next step

. Commercialisation

















Thank you!







