

Invasive Crab Species in the Barents Sea: Stakeholder Perceptions, Incentives, and Path Dependencies

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Invasive Species with commercial value

Chionoecetes opilio



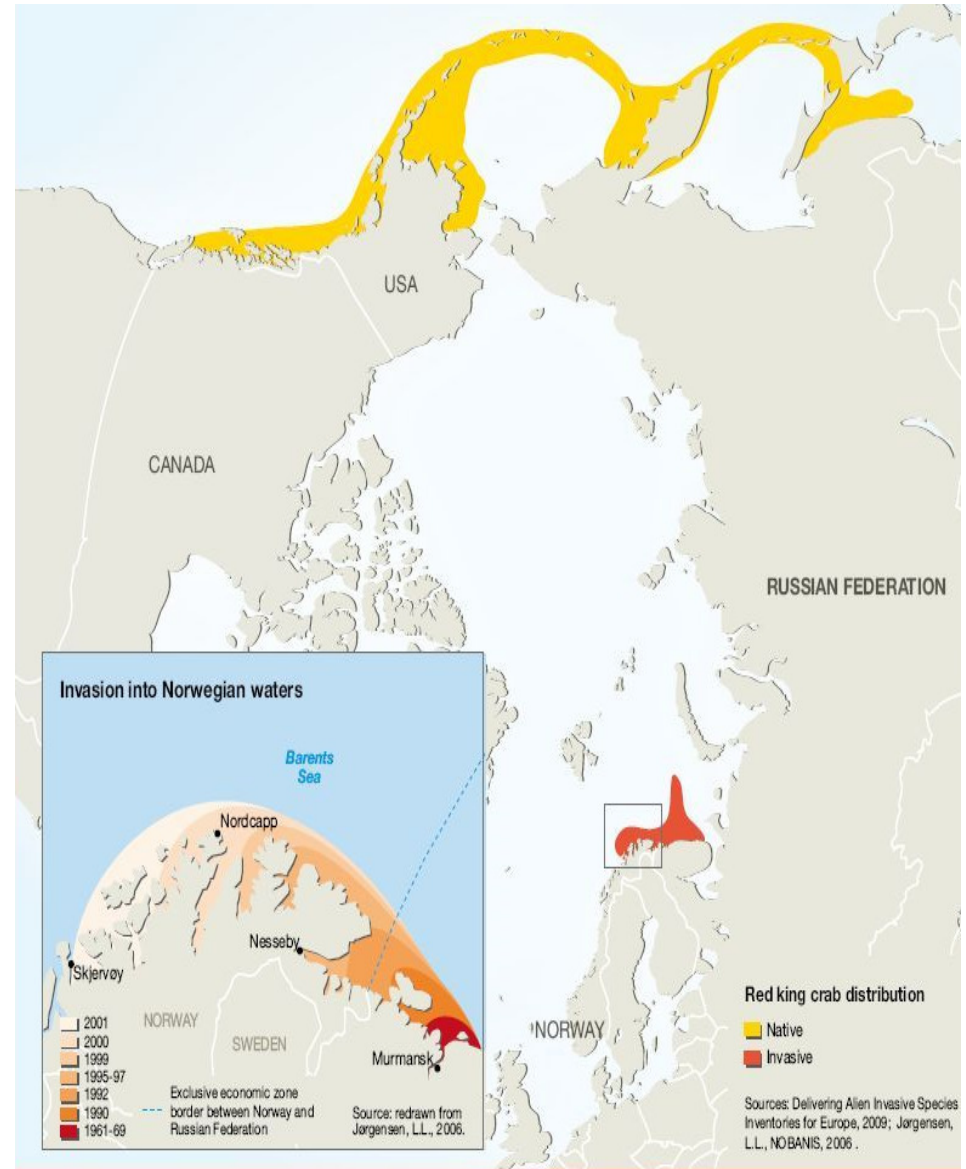
Paralithodes camtschaticus



History & Distribution



PINRO, 2016

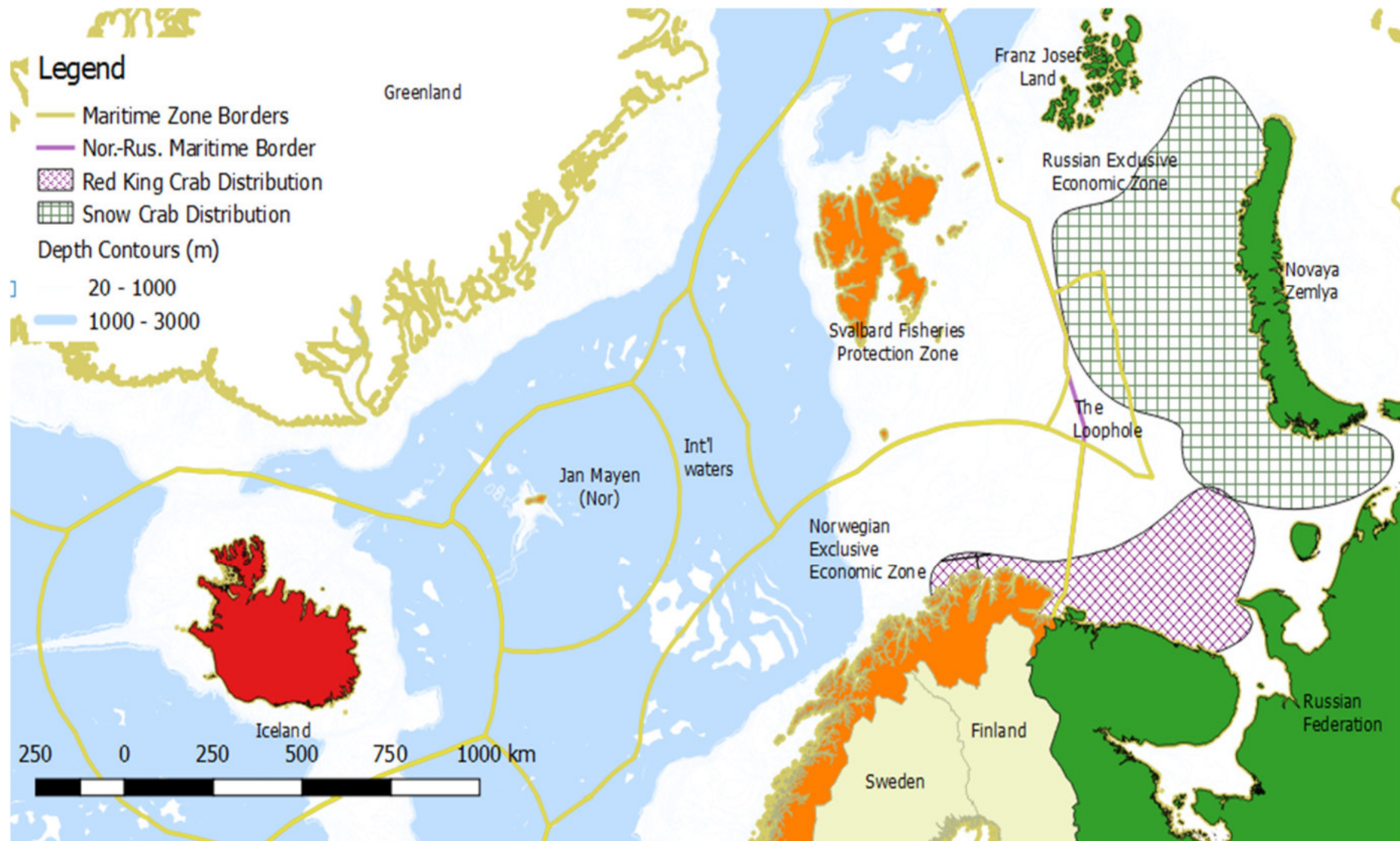


Valuable markets

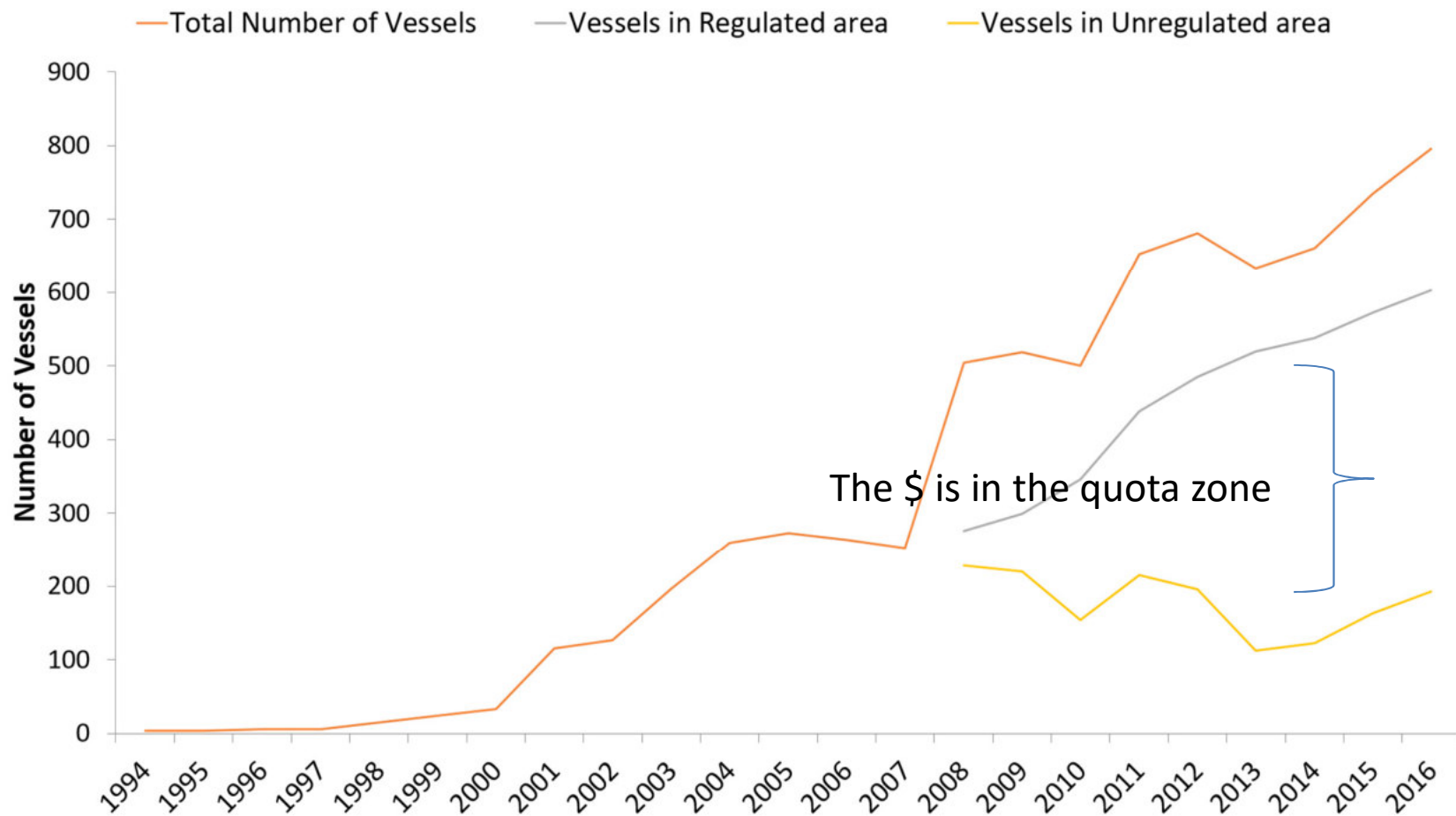
Table 1. Main Norwegian export markets of red king crab and snow crab in 2016 (www.seafood.no).

	Japan		South-Korea		U.S.	
	Volume, tonnes	Value, 1000 NOK	Volume, tonnes	Value, 1000 NOK	Volume, tonnes	Value, 1000 NOK
Red King Crab (RKC)						
Frozen	463	107,835	22	5880	68	11,621
Live	–	–	776	161,370	161	36,672
Snow Crab (SC)						
Frozen	1005	92,272	108	10,552	1587	118,288
Live	1	106	30	3695	27	2763

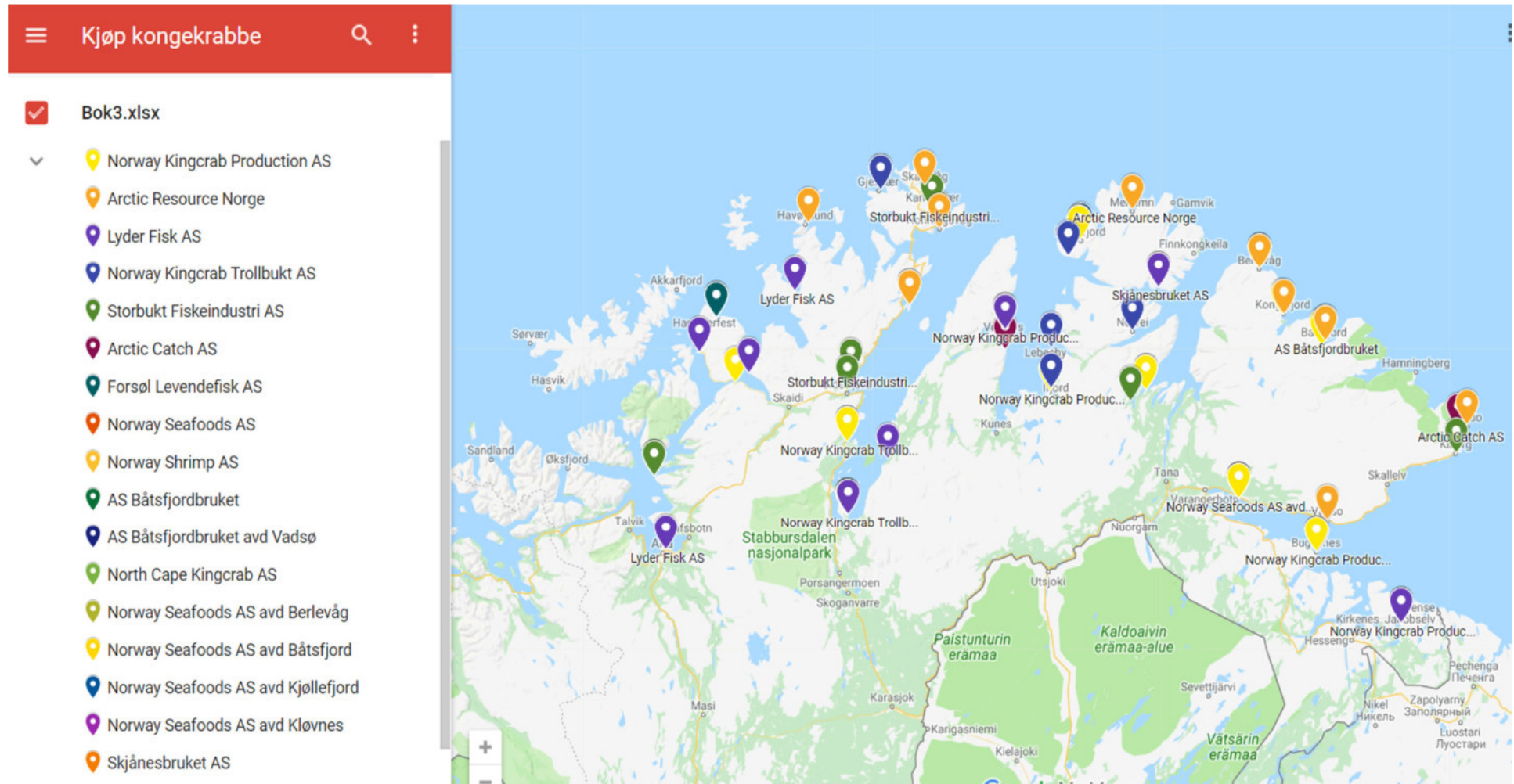
Invasive Crabs in the Barents Sea: same side of 2 very different coins?



RKC management choices -> increasing investment in vessels; entrenchment and expansionary pressure on industry



Investment creates new stakeholders onshore

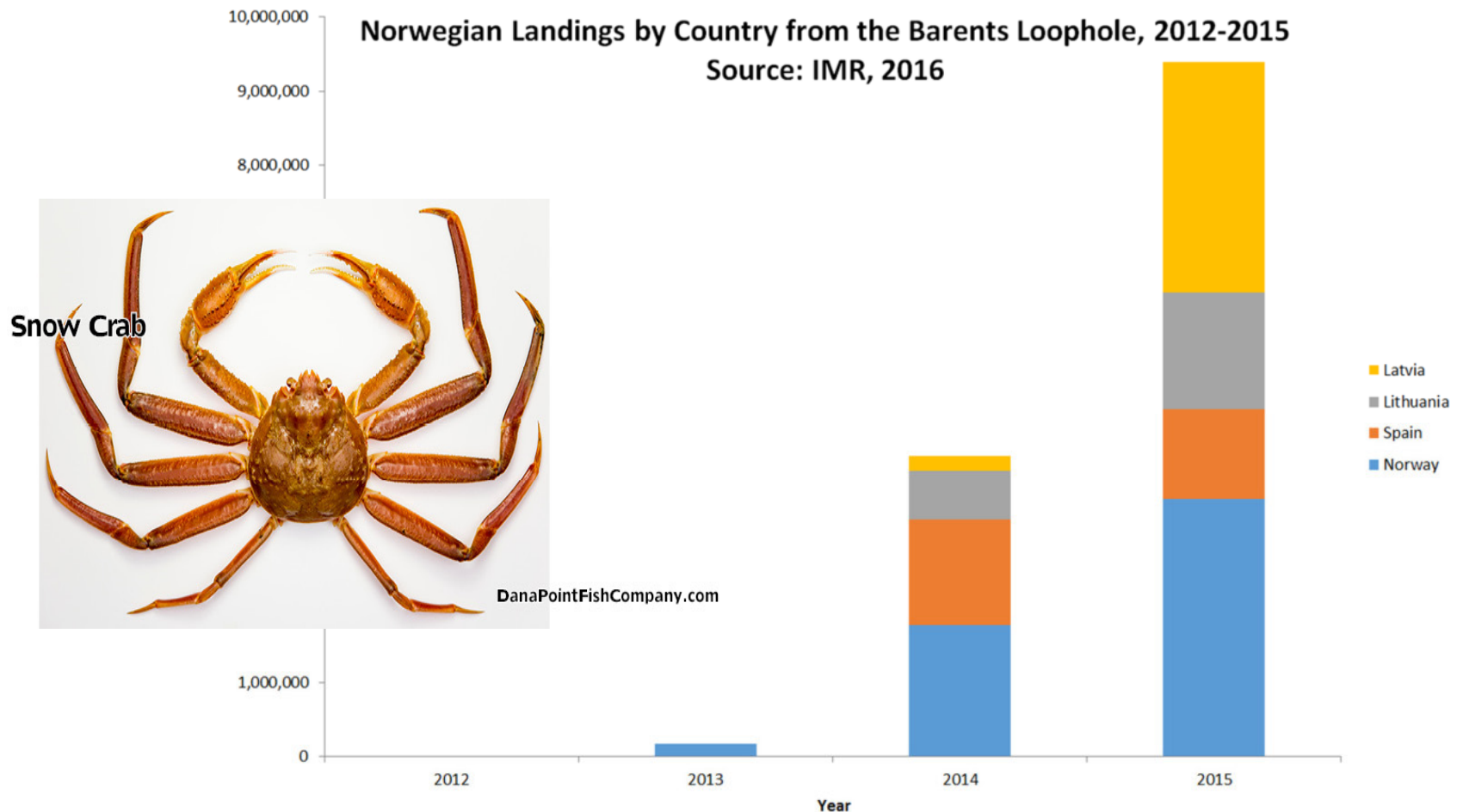


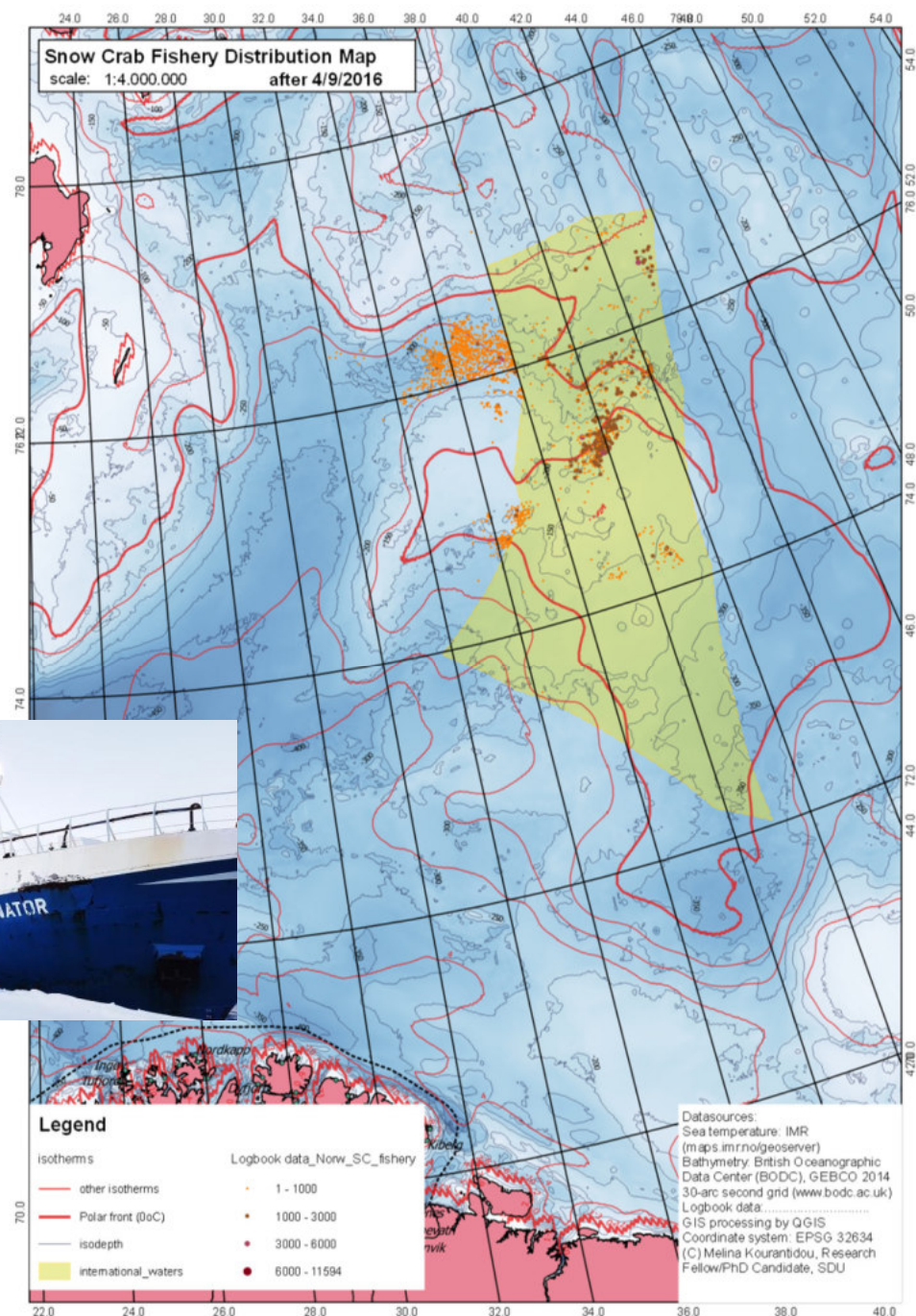
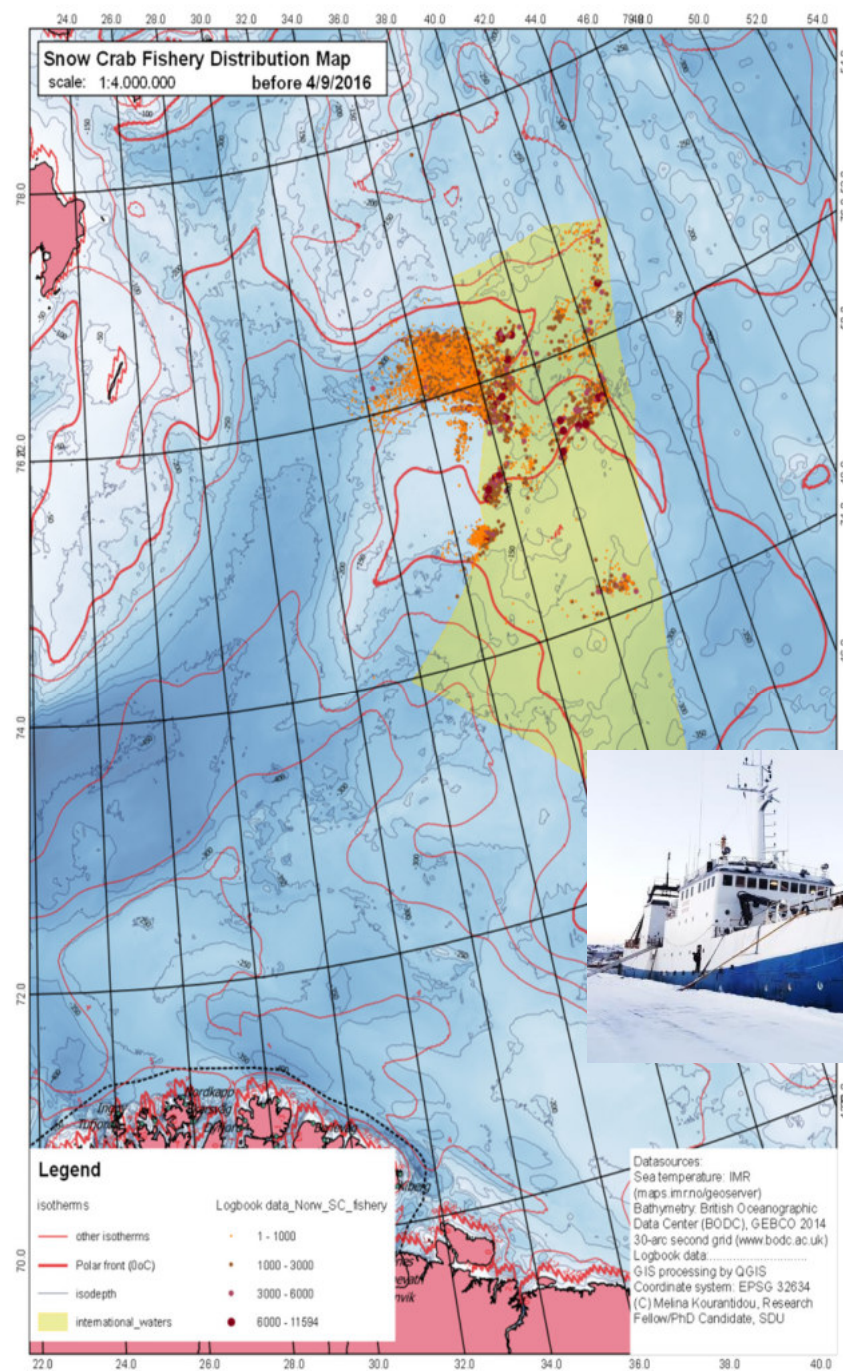
Source:

https://www.google.com/maps/d/viewer?mid=1Rzhvum21QrmktNozw__mWeiKz_DZjzGx&ll=70.41387178912726%2C27.149499999999999&z=8

Barents Snow Crab invasion underway

- *C. Opilio*: Introduced (vector uncertain) in 1990s. Management regime in flux.





Conclusions

- Captures how many dimensions at stake as both climate and economic factors change marine resources
- Valuable invasions crossing borders create complex economic incentives that can change not only ecological conditions but:
 - Economic cooperation between nations
 - Socio-economic investment incentives and community prospects
 - Fisheries management goals
 - Details matter
- Path dependencies: Extent and net damages from invasions will be endogenous to solutions to crab challenges

Thanks for your attention!

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