



Beginning the dialogue on risk in the Arctic

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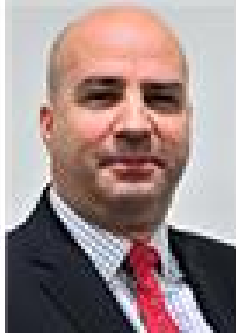


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Intro

AXA XL Science

Who we are



Michael Maran

➔ **Chief Science Officer**

➔ PhD in Astrophysics



Tom Philp

➔ **Manager – Science**

➔ PhD in Meteorology

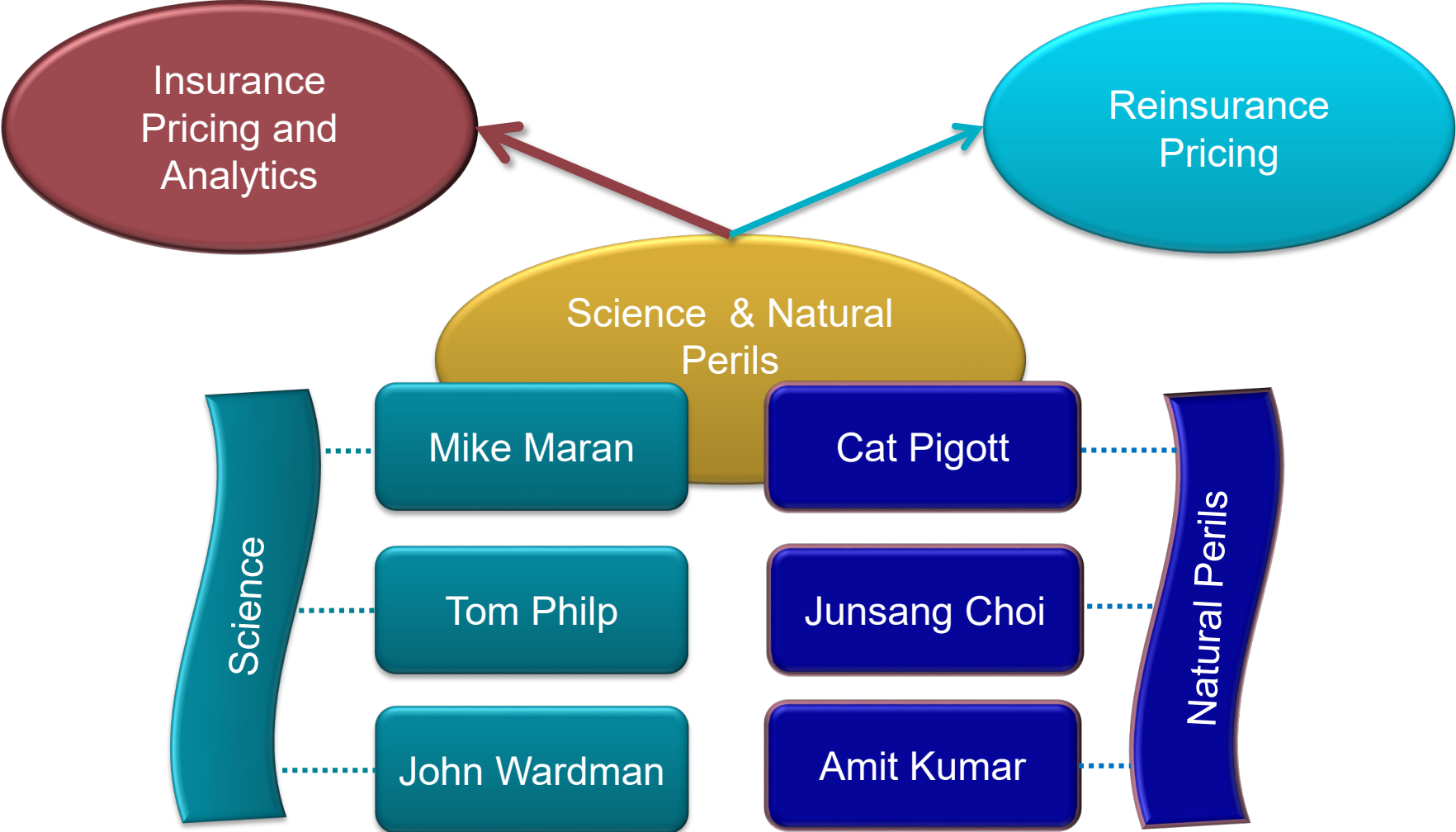


John Wardman

➔ **Senior Science Specialist**

➔ PhD in Hazard & Disaster Management

AXA XL Science





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Our Purpose

Why Science?

Centralised Science Function

Coordinate: Science across AXA XL

Conduit: For science collaboration with external organisations

Pursue: Opportunities for business development and expansion

Form
One View

Use
One Input

Deliver
One Message



3 Current Projects

Ocean Risk Initiative

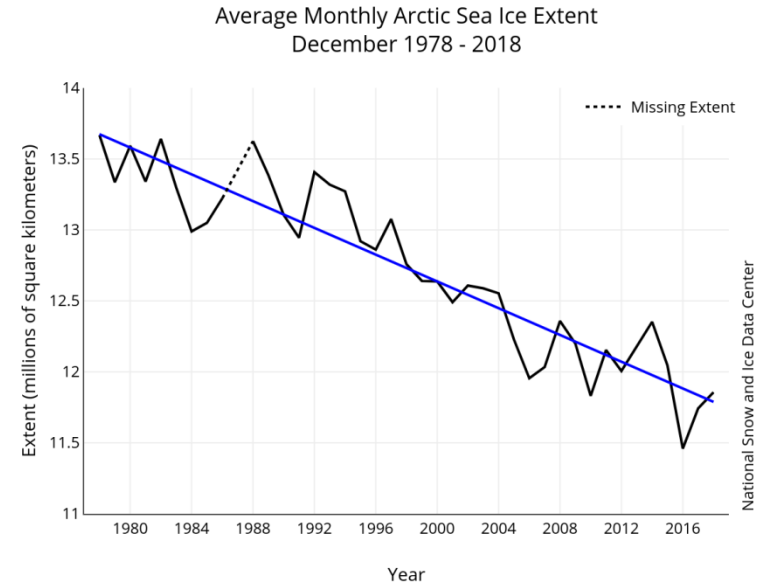
The insurance industry should acknowledge the changes in ocean risk associated with the warming of the ocean and the resulting changes in ecosystems, sea level, climate and extreme events.



Current Projects

Ocean Risk Initiative

- 6 PhD scholarships
- Monitoring Arctic ocean acidification from space using satellite Earth Observations
 - **Hannah Green**, Plymouth Marine Laboratory
- The reducing Greenland Ice Sheet and implications for the ocean
 - **Jennifer Ross**, University of Sheffield
 - Wednesday, 09:00 – 10:30, Room 5

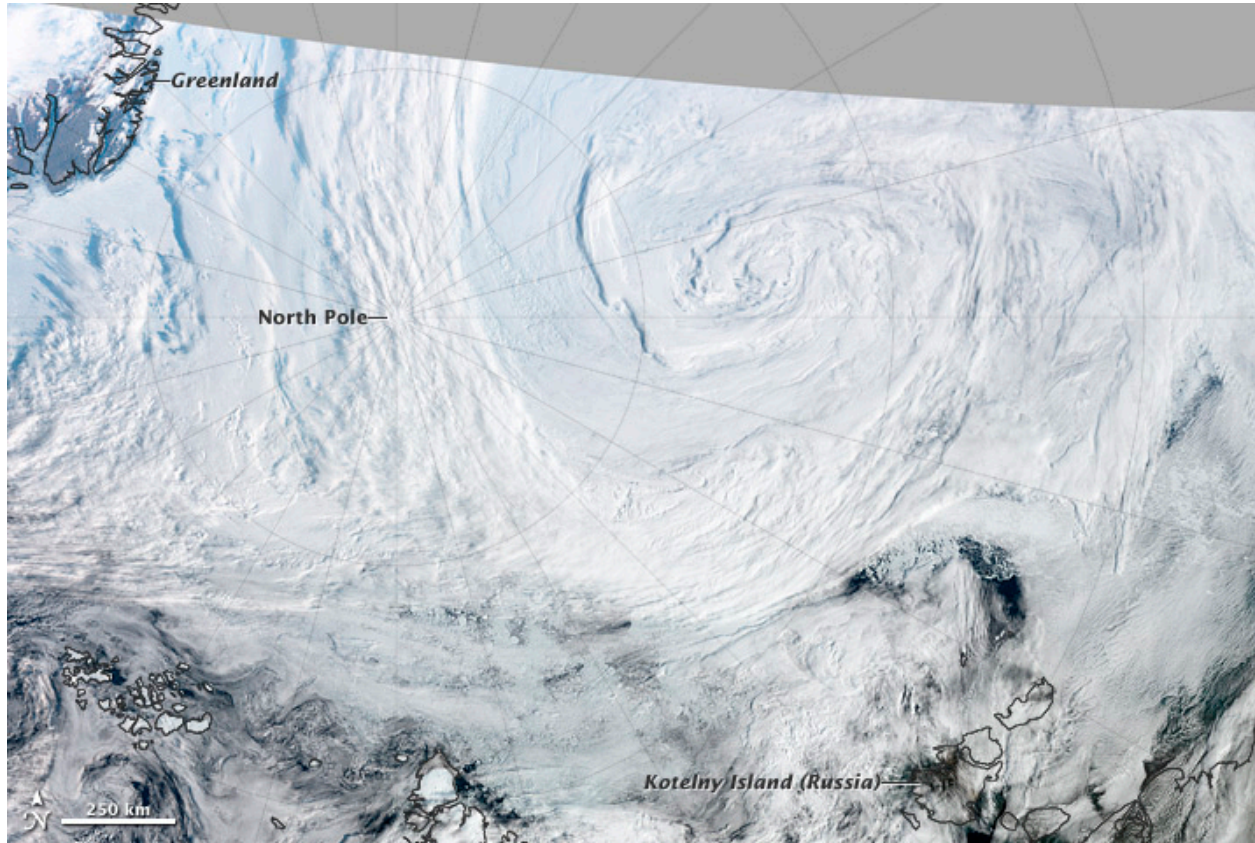


Nansen fracture 2016. © C. Yakiwchuck/ESA

Current Projects

CASE Studentship

- Quantifying risk from Arctic storms in a changing climate
 - Alexander Vessey & supervisors, University of Reading



Visible infrared image of the August 2012 Cyclone over the Arctic, captured by the NASA Earth Observatory on 7 August 2012.



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Talking About Risk

AXA XL & APPLICATE

- We do not have much exposure in the Arctic
 - Risk to shipping, energy (oil/gas) platforms
 - Difficult to see how APPLICATE might apply to us in the short-term
- Want to be involved in discussions to help bring relevance to APPLICATE
 - Understand potential consequences and risk with a warming climate
- Bringing industry and academia together
 - Break down language barriers
 - Thought leadership



Aerial view of offshore windfarm, wind turbines at sea, UK. © David Tipling/FLPA



Bay Bulls on May 1, 2017 (Source: Diane Davis/Newfoundland Iceberg Reports).



Thank you

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