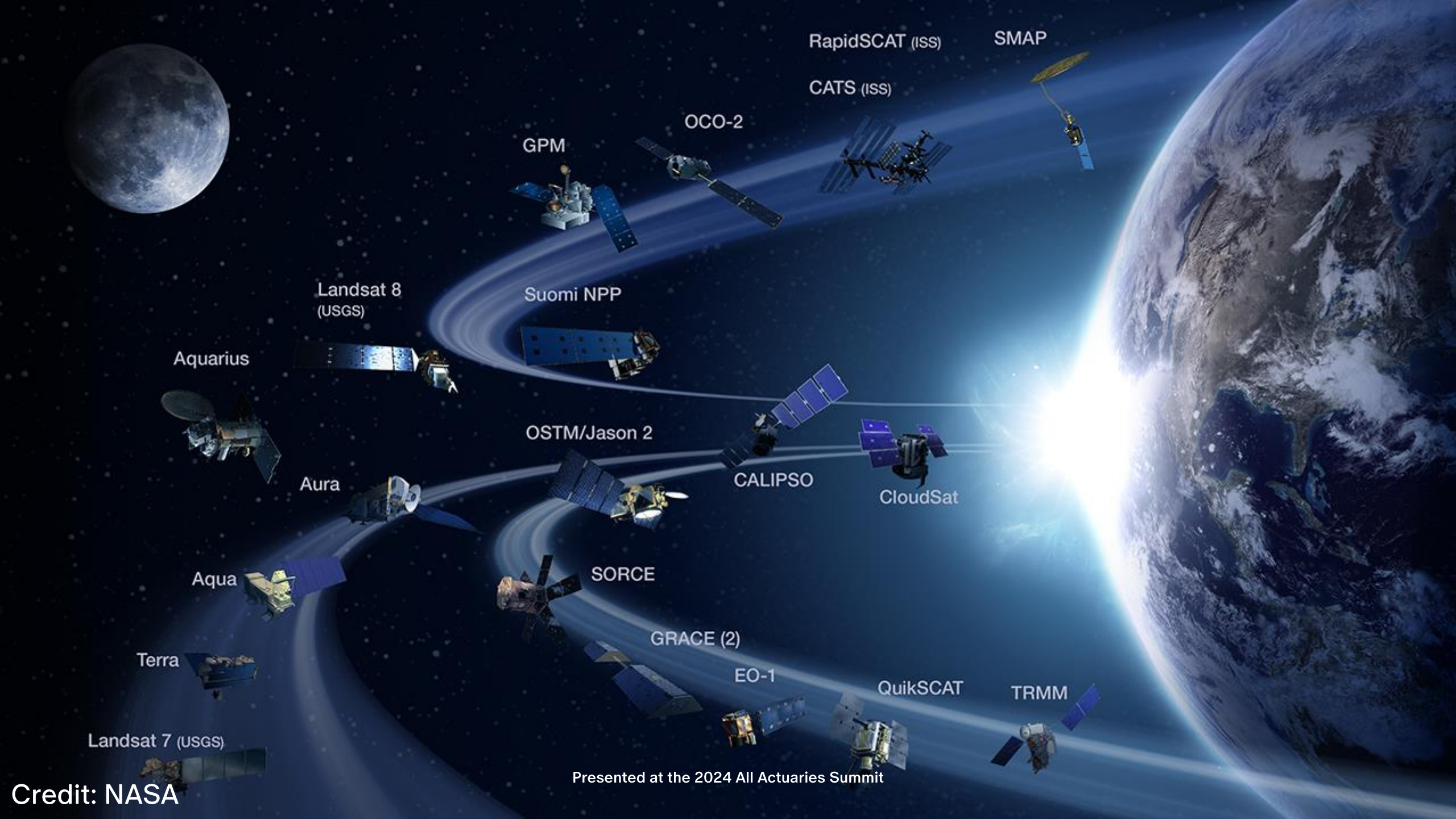


Fact Meets Fiction in Space

Prof Alan Duffy
Pro-Vice Chancellor Flagship Initiatives
Swinburne University of Technology

2nd May 2024





RapidSCAT (ISS)

SMAP

CATS (ISS)

OCO-2

GPM

Landsat 8
(USGS)

Suomi NPP

Aquarius

OSTM/Jason 2

Aura

CALIPSO

CloudSat

Aqua

SORCE

GRACE (2)

EO-1

QuikSCAT

TRMM

Terra

Landsat 7 (USGS)

Presented at the 2024 All Actuaries Summit

Credit: NASA



Presented at the 2024 All Actuaries Summit

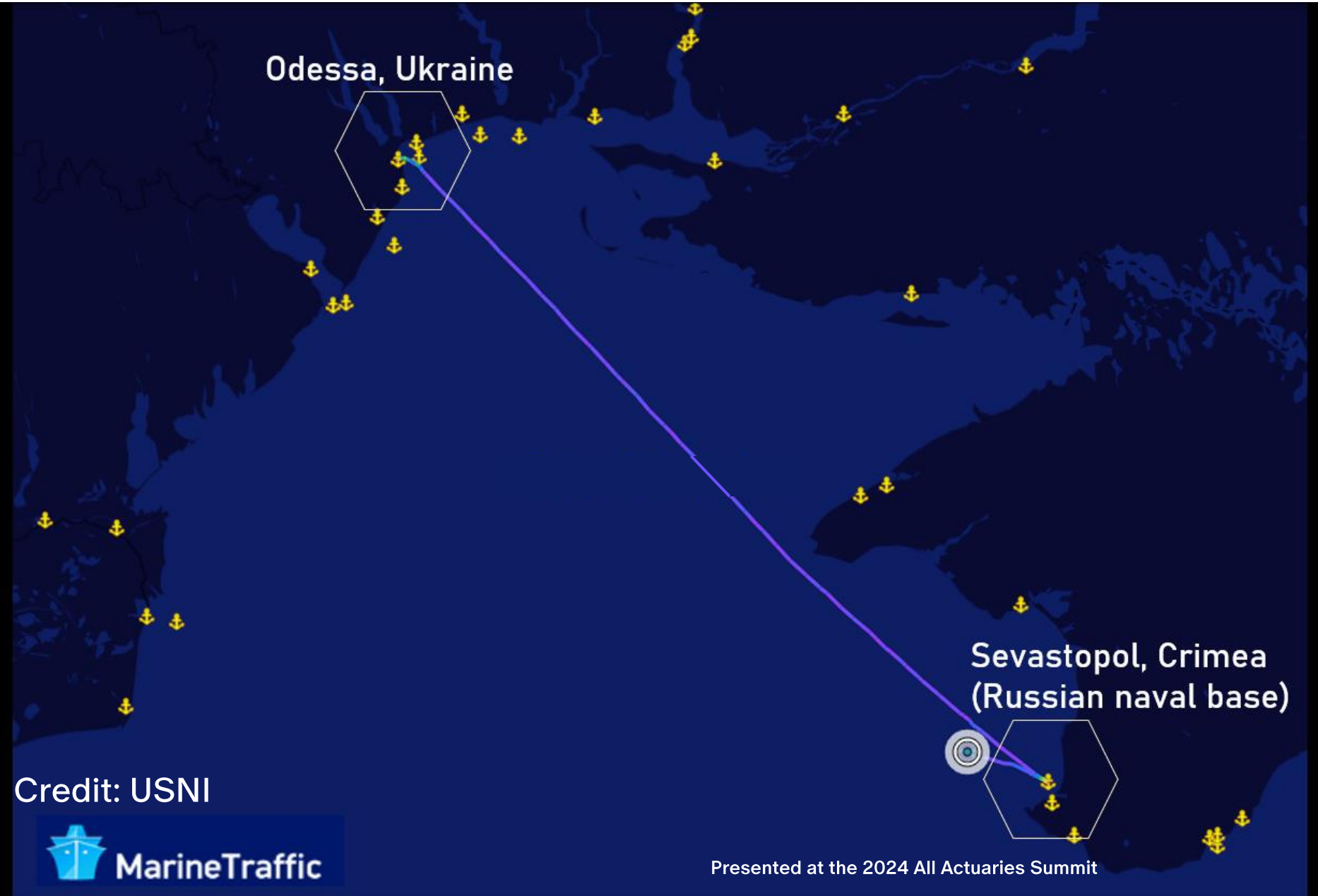
Credit: US Navy



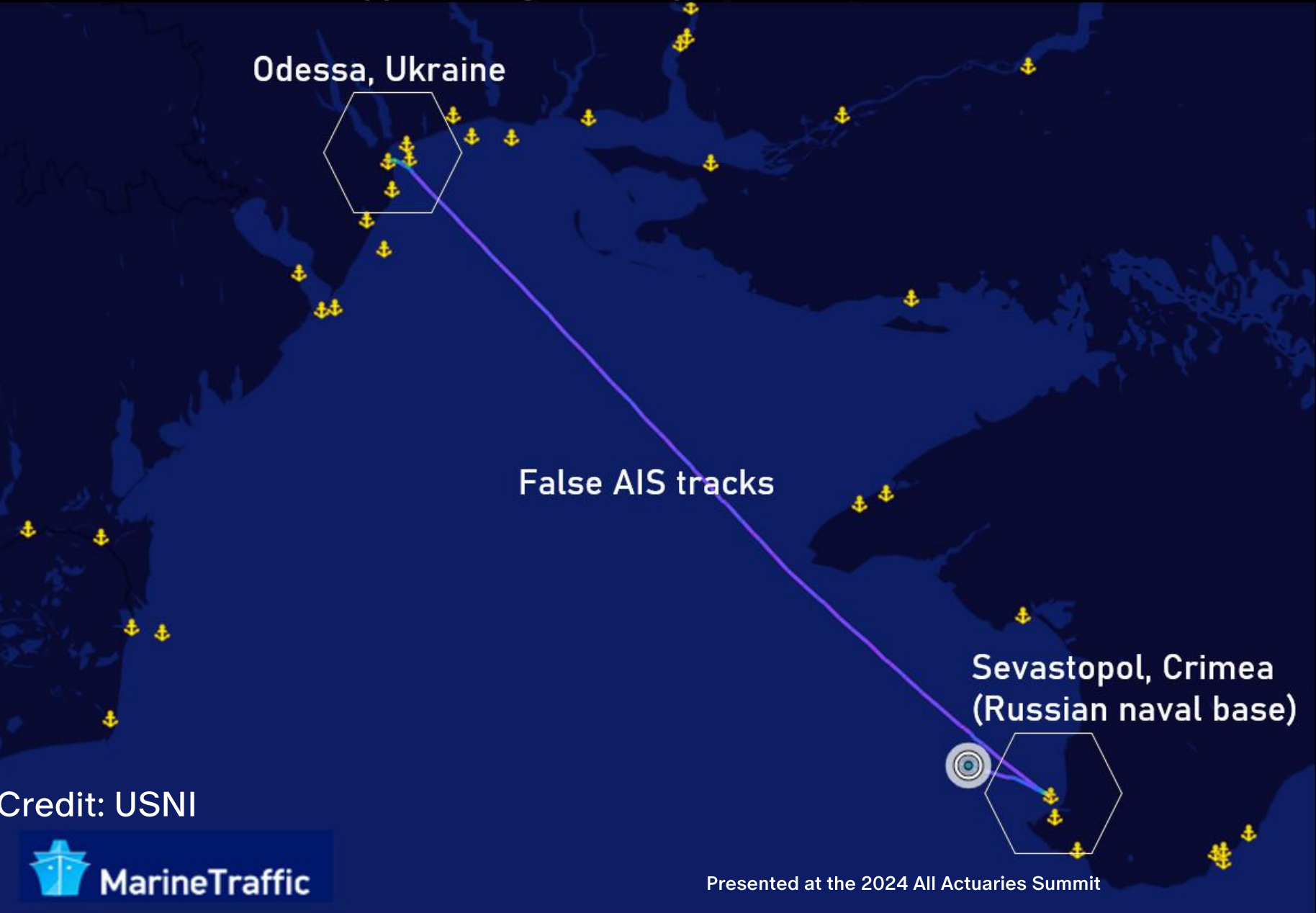
Credit: US Navy

Presented at the 2024 All Actuaries Summit

NATO warships tracked from space heading to Crimea



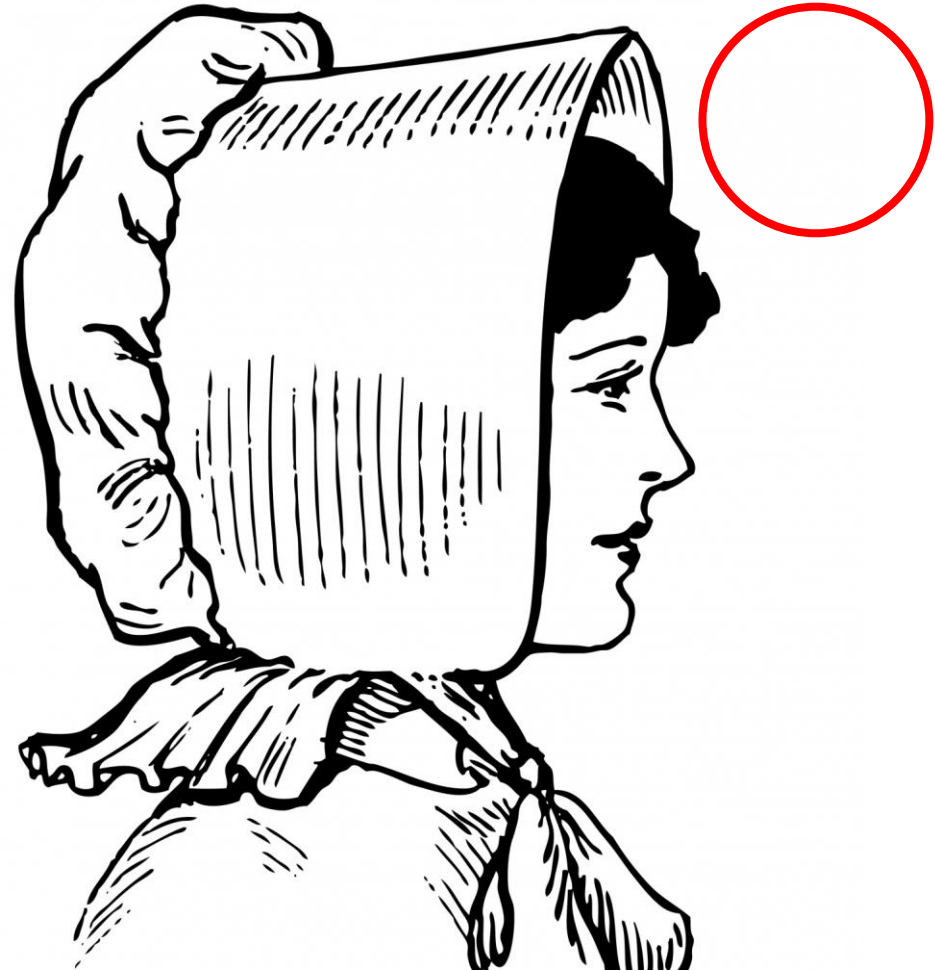
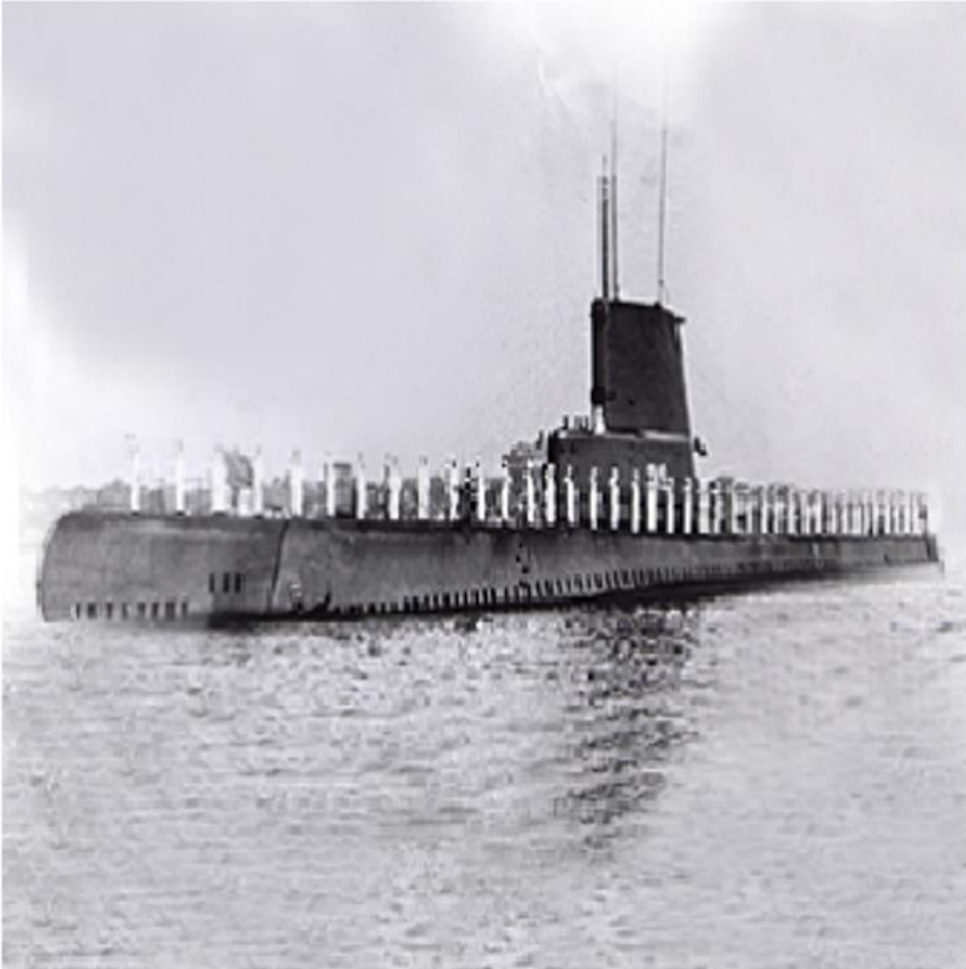
Falsified AIS (Automated Identification System) appearing to show HMS Defender and HNLMS Evertsen approaching Sevastopol, Crimea, On June 19 2021



Webcams showing HMS Defender (A) and HNLMS Evertsen (B) in Odessa



Compromising Automated Image Analysis



Credit: Karen Arnold

Credit: Karmon, Zoran and Goldberg (2018)

Proceedings of the 35th International Conference on Machine Learning, PMLR 80:2507-2515

Presented at the 2024 All Actuaries Summit