



Machine learning Group 2022 – Activity Proposal

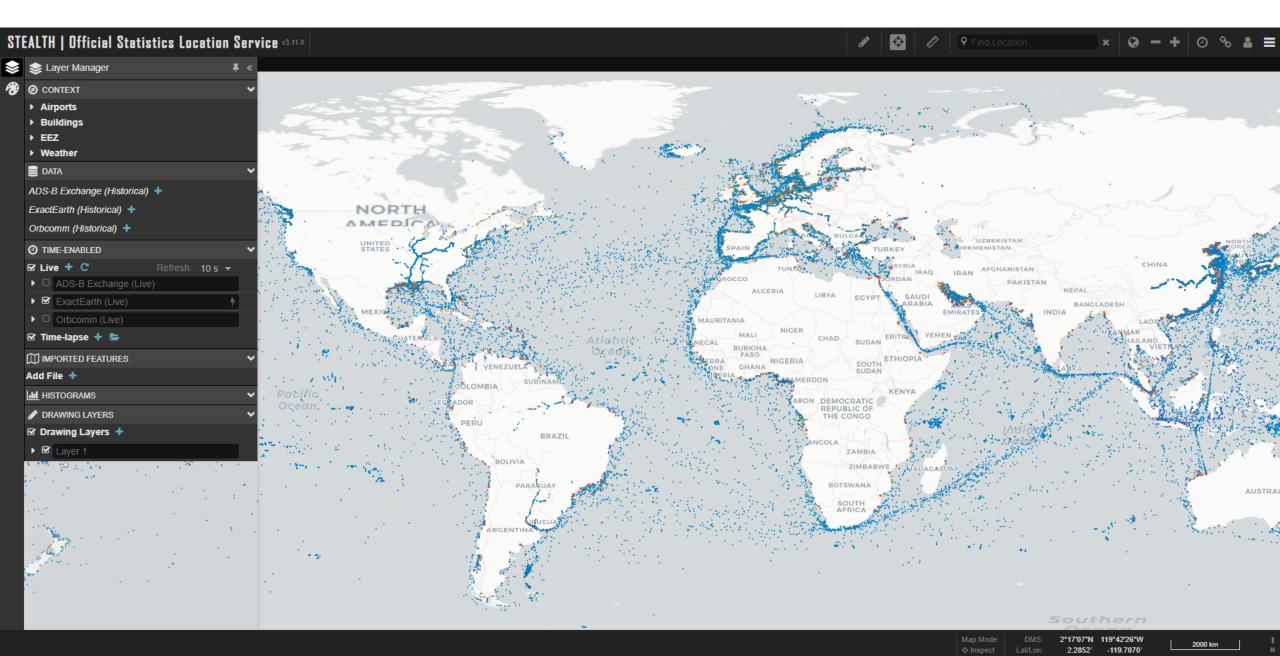
Port Area Identification

Joseph Crispell ONS-FCDO data science hub

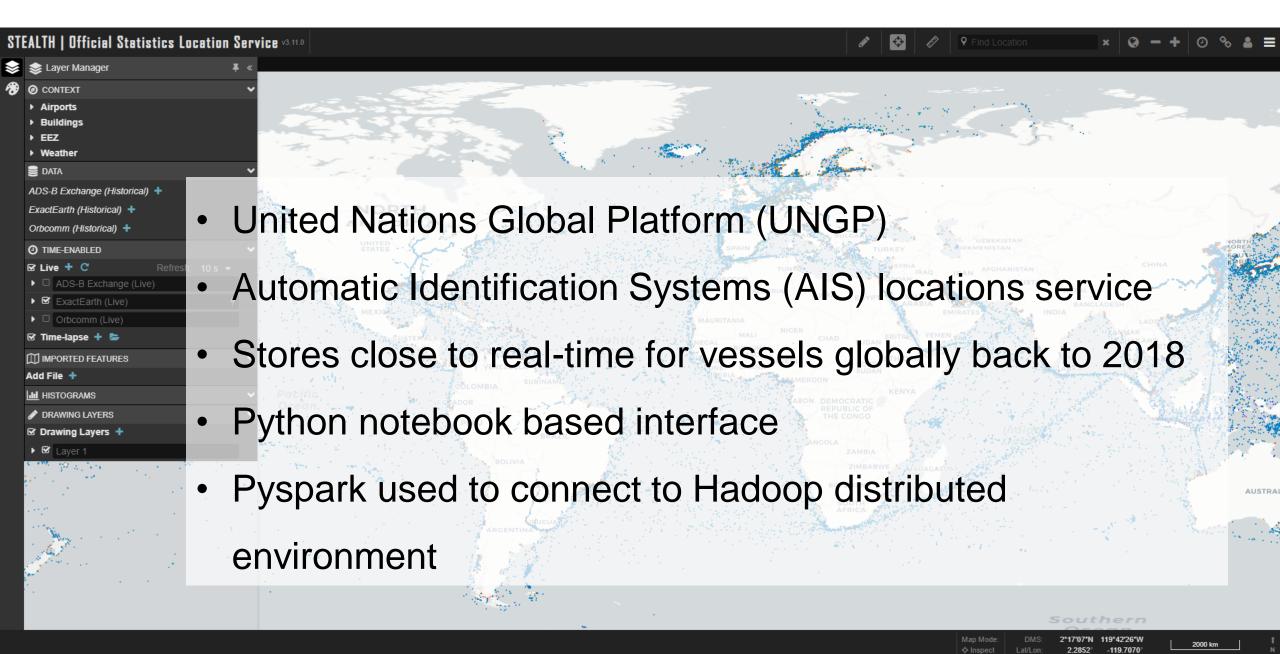




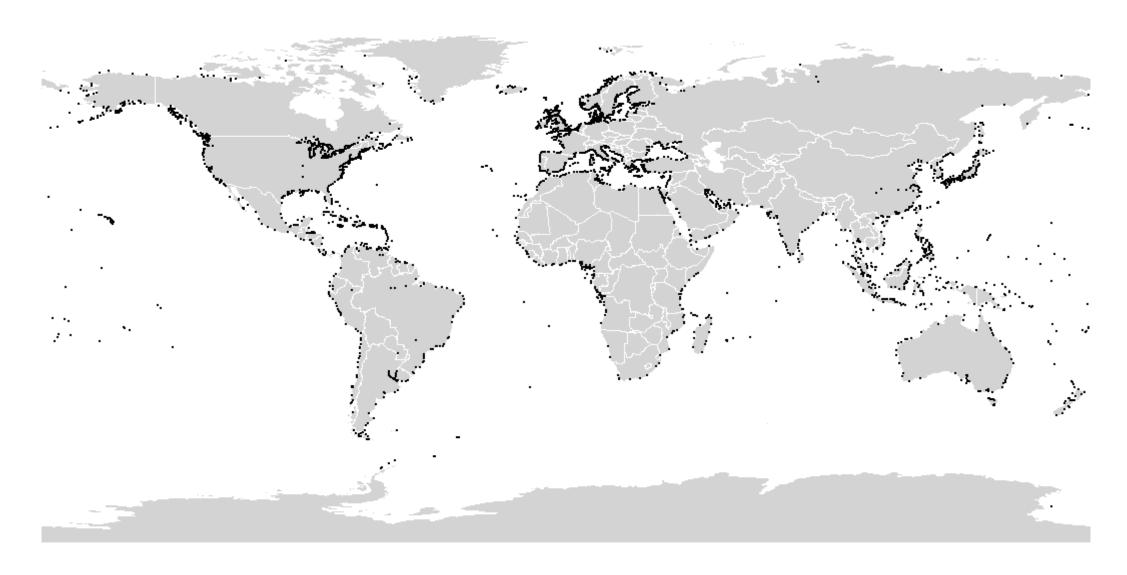
AIS LOCATIONS SERVICE



AIS LOCATIONS SERVICE



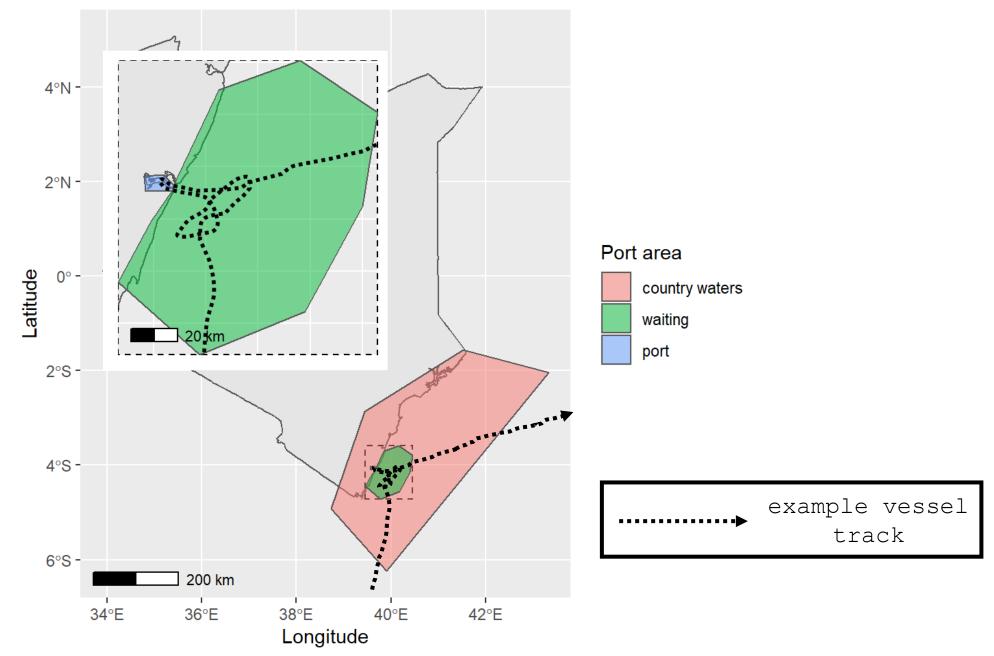
WORLD PORT INDEX



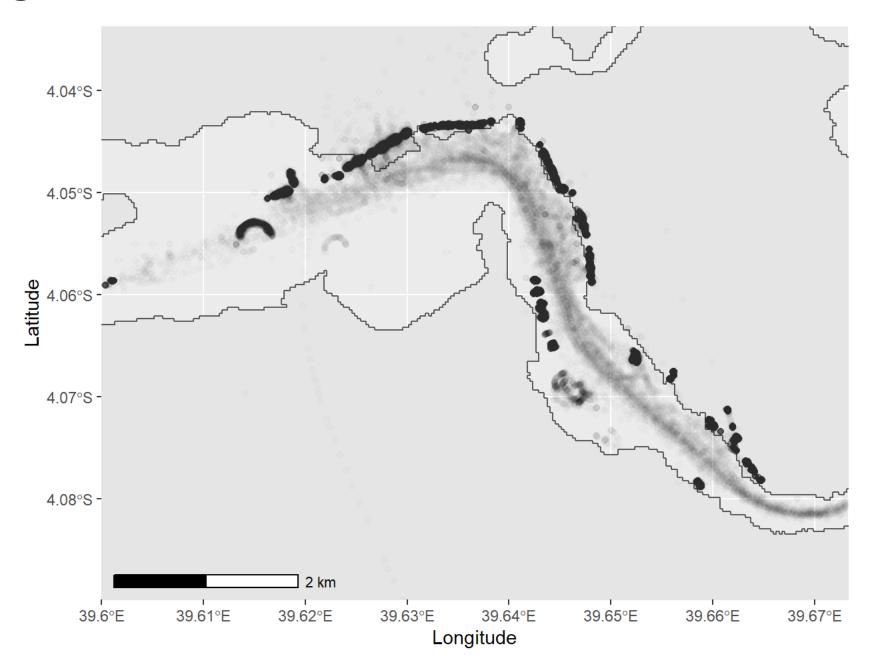
https://msi.nga.mil/Publications/WPI

Gulf of Aden PORT MOMBASA Djibouti Ethiopia South Sudan Central Republic Somalia ____ Mogadishu Uganda Kenya Kisumuo Nakuru Butemboo Nairobi Rwanda Democratic Republic of Burundi the Congo Dar es Salaam Tanzania Comoros Mayotte Zambia Malawi Lusaka Mozambique Harare Zimbabwe Antsirabe Madagascar Botswana Google Gaborone Map data @2021 Google

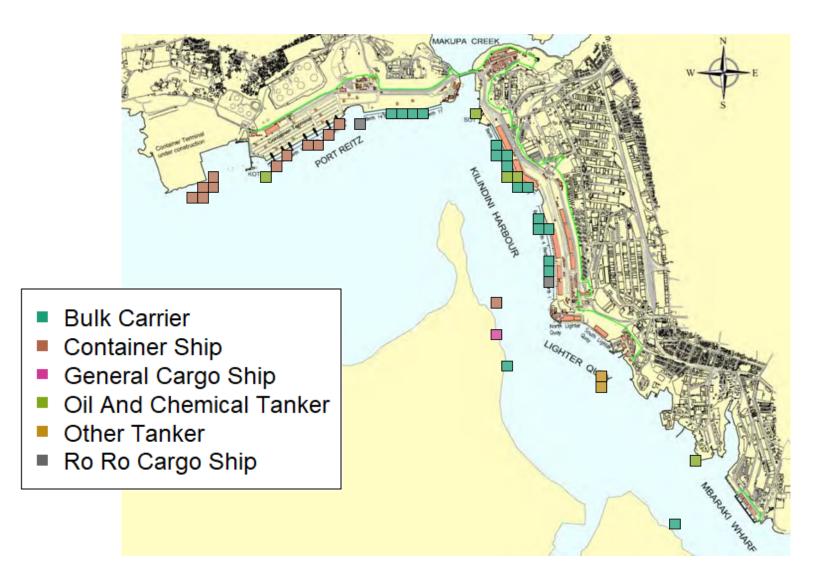
ACTIVITY 1: IDENTIFY PORT AREAS



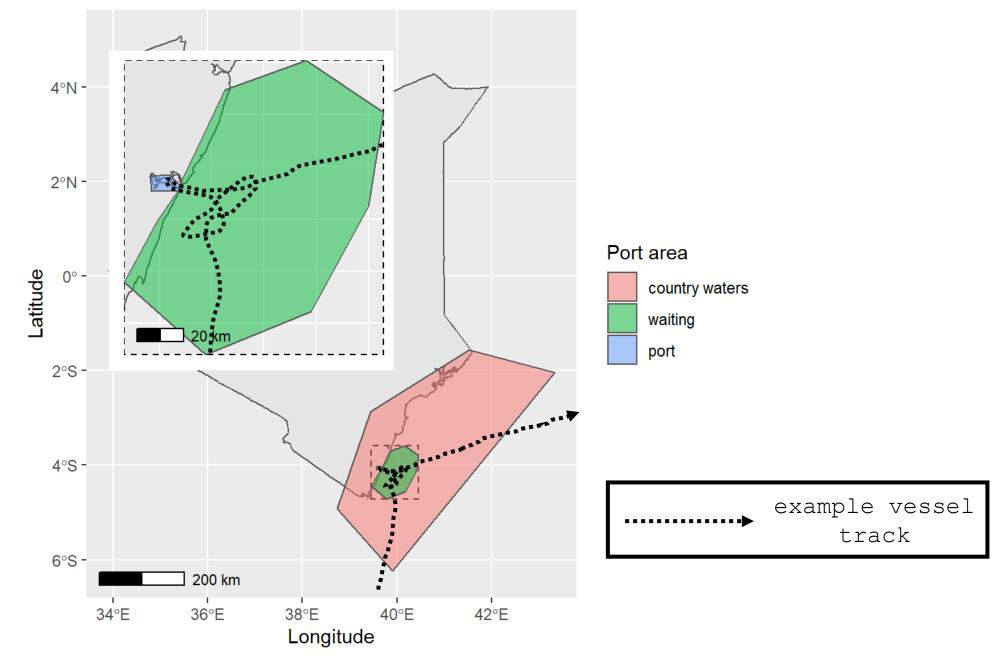
ACTIVITY 2: IDENTIFY BERTH AREAS



AUTOMATED BERTH DETECTION



ACTIVITY 3: IDENTIFY WAITING AREAS



ORGANISATION

- Collaboration between:
 - AIS task team
 - Users that can provide insights for selected ports and validate outputs
 - Maintainers that can integrate outputs into UNGP
 - UNECE ML group 2022 ML expertise
 - ONS-FCDO data science hub data scientists

REQUIREMENTS

- 6-8 months potentially kicking off in April
- Experience:
 - Python programming
 - Knowledge of range of machine learning approaches
 - Time to familiarise with UNGP and









THANKS EVERYONE!





