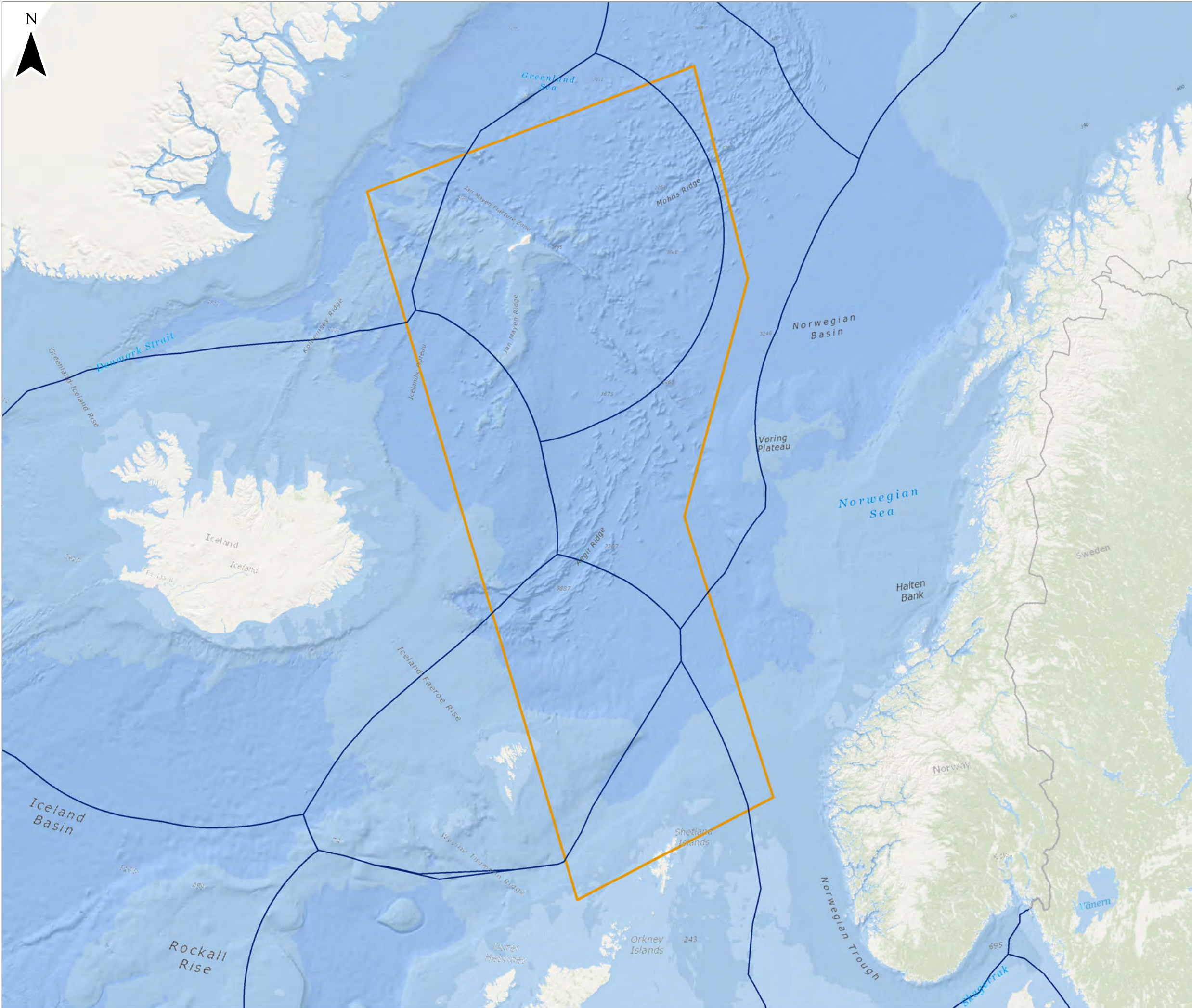




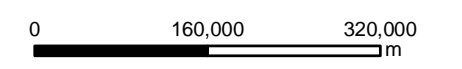
Chapter 10 Drawing 10.1 Study Area A – Orbital Launches





KEY

- Study Area A
- EEZ boundaries



Scale 1:7,000,000 @ A3



Saxa Vord
 Assessment of Environmental Effects
Drawing 10.1
Orbital Launches - Study Area A

Date: 15/07/2022	Drawn by: NB	Checked by: OH	Version: Draft/V1
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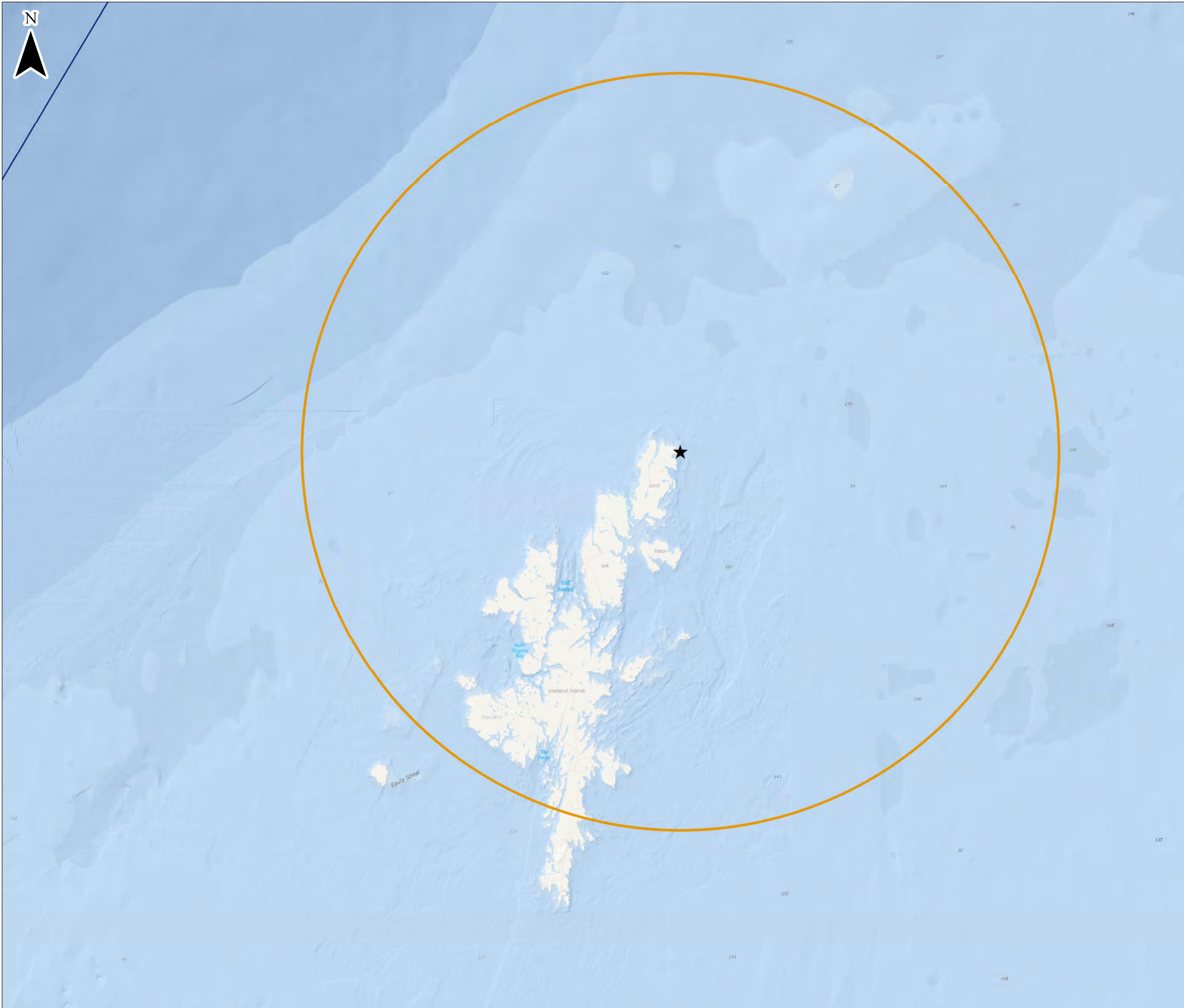
Project Number: 3108

Service Layer Credits: Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors
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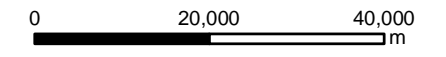
Chapter 10 Drawing 10.2 Study Area B Sub-Orbital Launches





KEY

- ★ Saxa Vord Spaceport
- Study Area B



Scale 1:865,167 @ A3



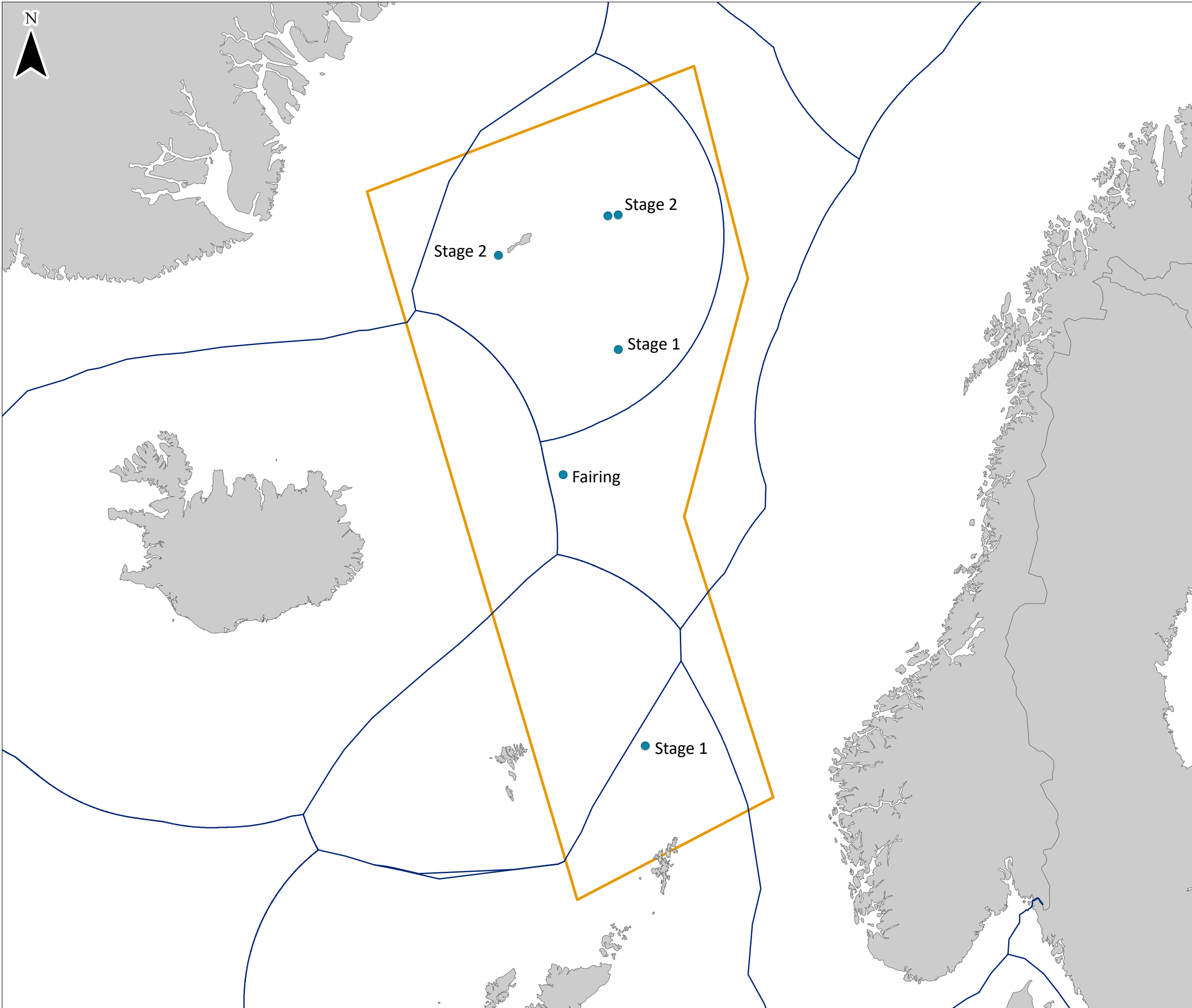
Saxa Vord
Assessment of Environmental Effects
Drawing 10.2
Sub-orbital Launches - Study Area B

Date: 15/07/2022	Drawn by: NB	Checked by: OH	Version: Draft/V1
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Project Number: 3108

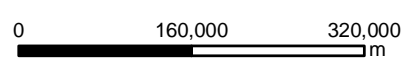
Chapter 10 Drawing 10.3 Study Area A Representative Impact Points





KEY

- Study Area A
- Impact Points
- EEZ boundaries



Scale 1:7,000,000 @ A3



Saxa Vord
Assessment of Environmental Effects

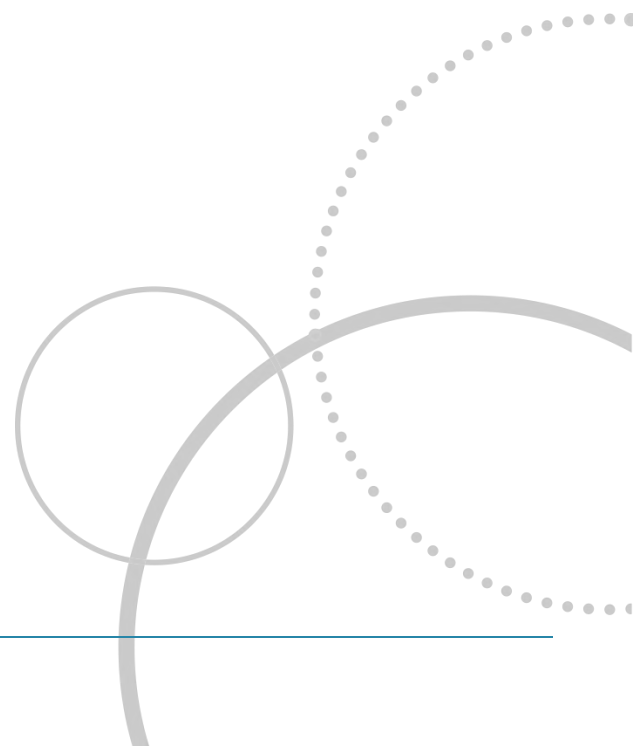
Drawing 10.3

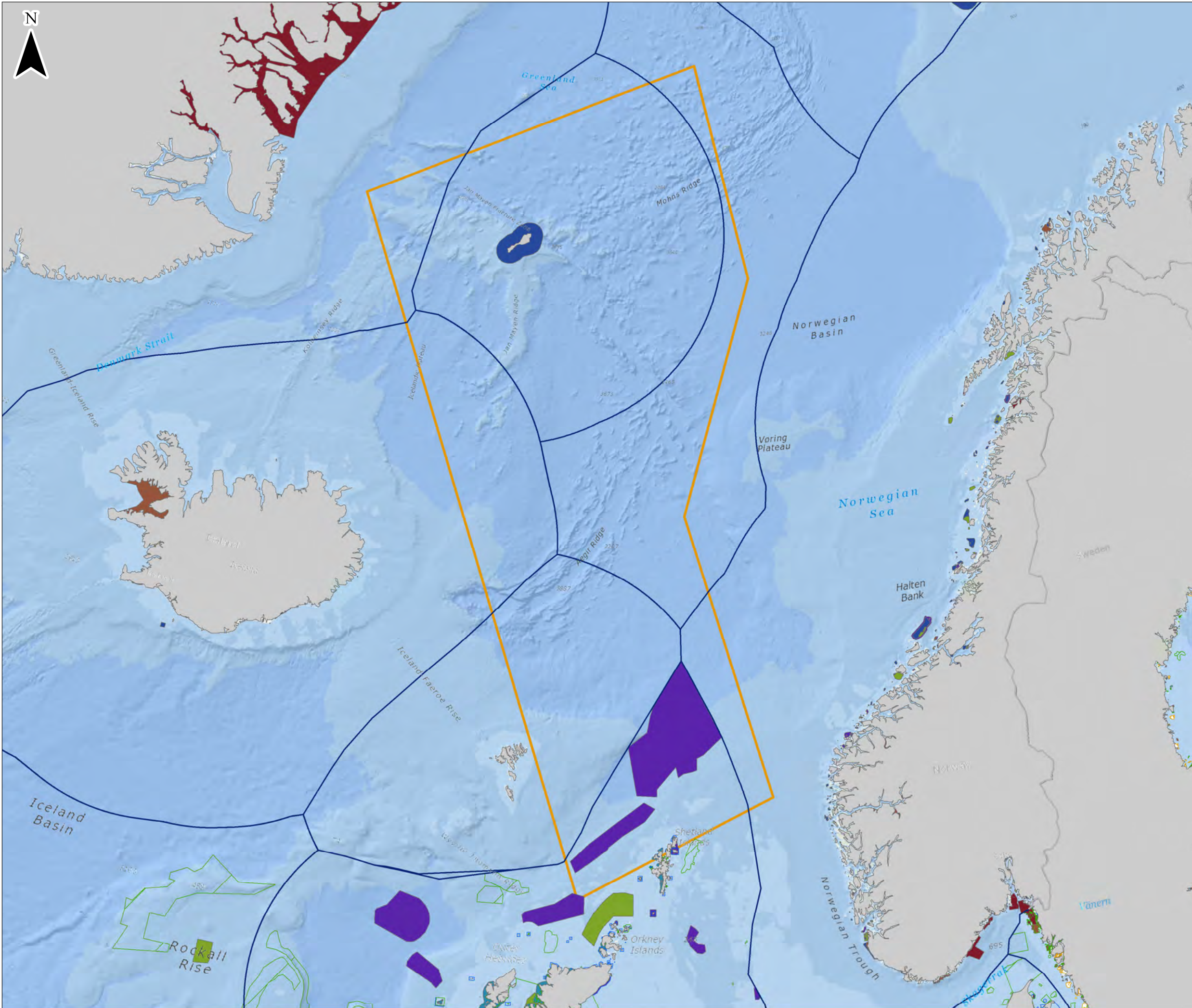
Representative Impact Points - Study Area A

Date: 15/07/2022	Drawn by: NB	Checked by: OH	Version: Draft/V1
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Chapter 10 Drawing 10.4 Study Area A Marine Protected Areas



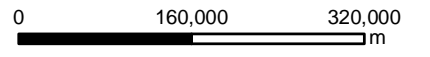


KEY

- Study Area A
- EEZ boundaries
- Natura2000 site type**
- SPA
- SCI
- SPA and SCI

IUCN description

- Habitat/Species Management Area
- National Park
- Natural Monument or Feature
- Not applicable
- Not assigned
- Not reported
- Protected Landscape/ Seascape
- Protected area with sustainable use of natural resources
- Strict Nature Reserve
- Wilderness Area



Scale 1:7,000,000 @ A3



Saxa Vord
 Assessment of Environmental Effects
Drawing 10.4
Marine Protected Areas - Study Area A

Date: 15/07/2022 Drawn by: NB Checked by: OH Version: Draft/V1

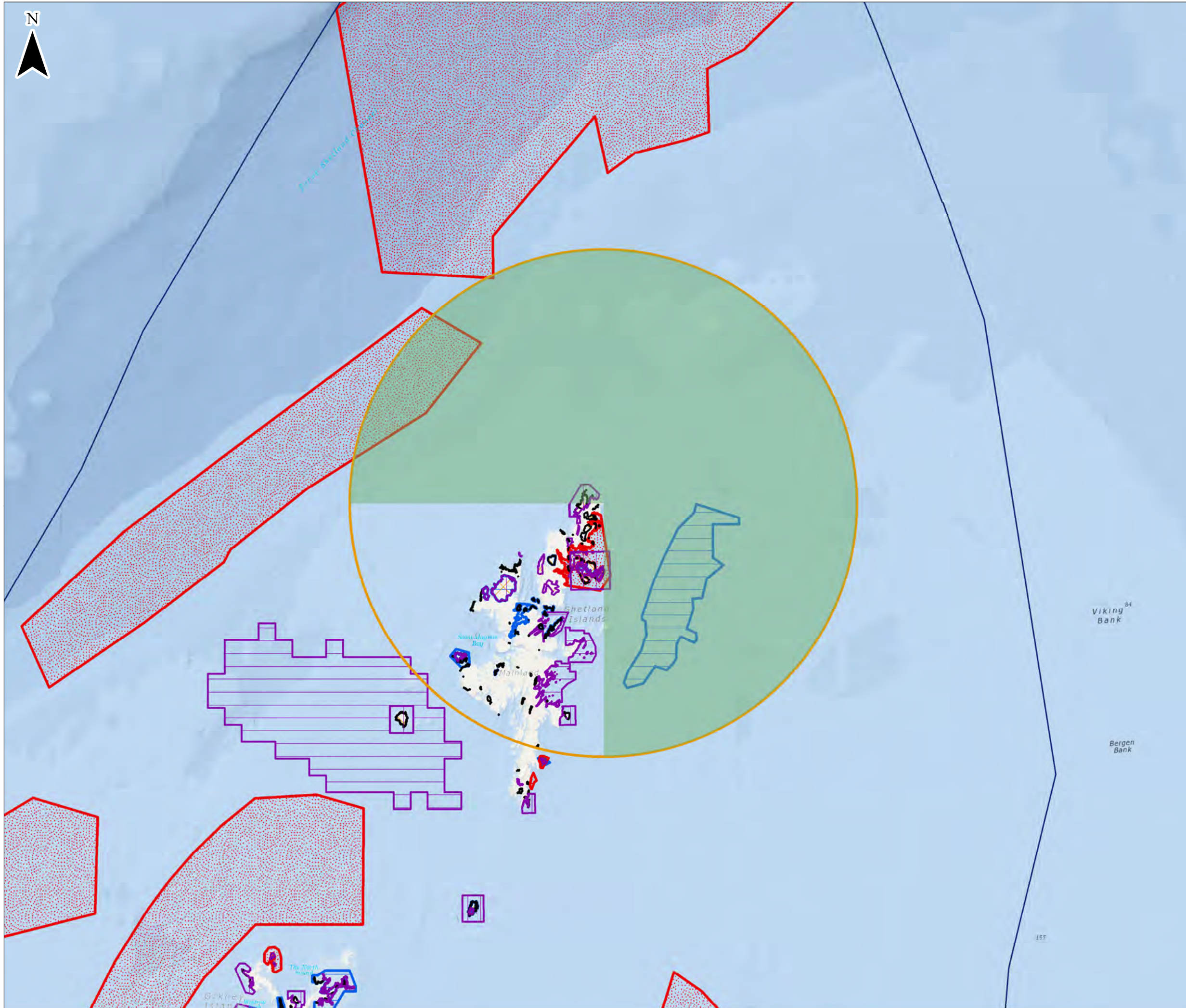
Project Number: 3148

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 Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

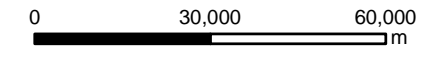


Chapter 10 Drawing 10.5 Study Area B Marine Protected Areas





- KEY**
- Operation Window
 - EEZ boundaries
 - Study Area B
 - Special Protection Areas
 - Sites of Special Scientific Interest
 - Marine Protected Areas
 - Possible Special Protection Areas
 - Special Areas of Conservation



Scale 1:1,291,752 @ A3



Saxa Vord
Assessment of Environmental Effects

Drawing 10.5

Marine Protected Areas - Study Area B

Date: 15/07/2022	Drawn by: BO	Checked by: OH	Version: Draft/V1
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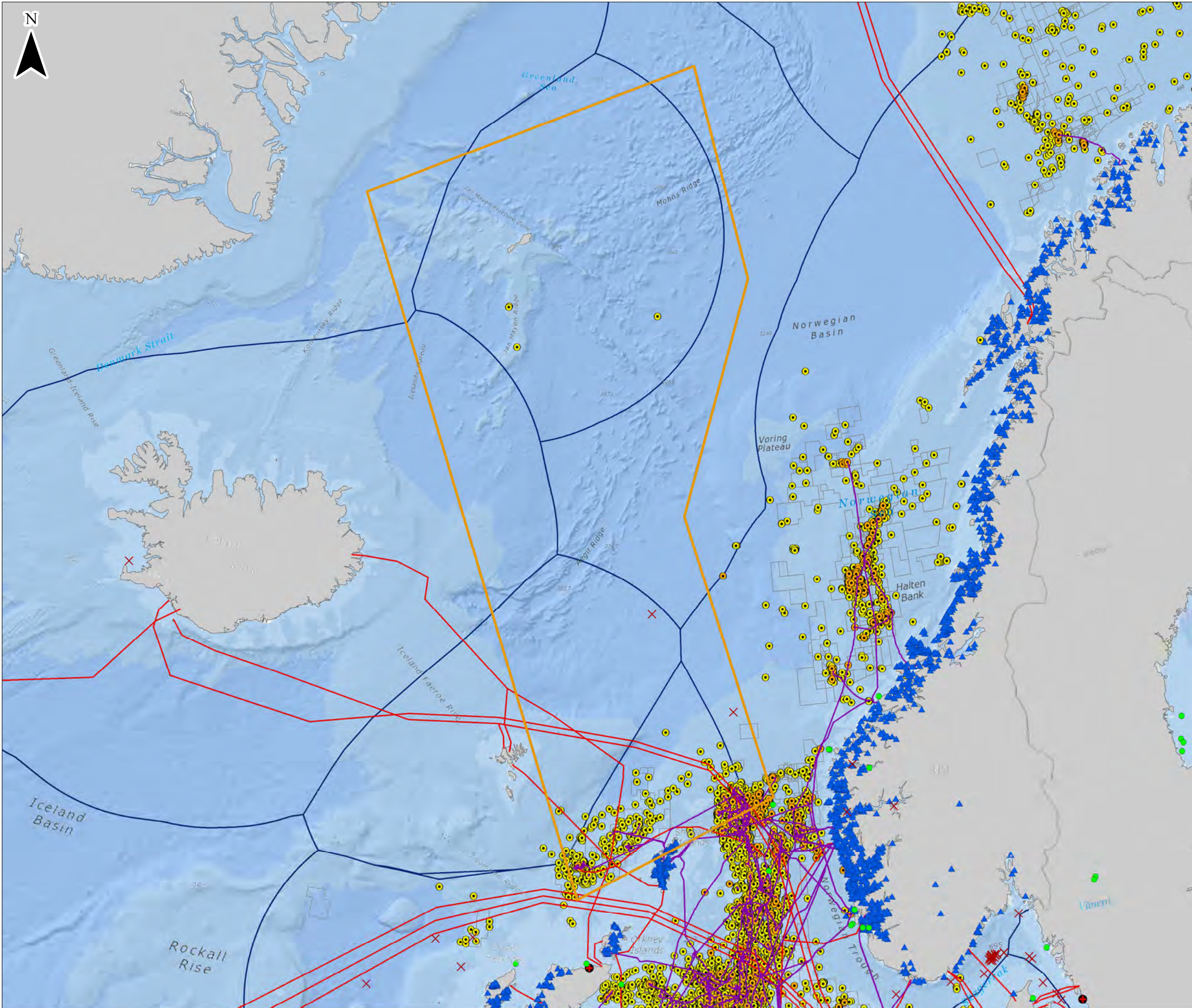
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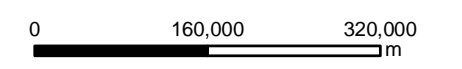


Chapter 10 Drawing 10.6 Study Area A Other Marine Users





- KEY**
- Study Area A
 - EEZ boundaries
 - Wind Farms
 - × Waste Disposal sites
 - Nuclear Power plants
 - ▲ Aquaculture sites
 - Pipelines
 - Cables
 - Offshore Installations
 - Boreholes
 - Hydrocarbon licences



Scale 1:7,000,000 @ A3



Saxa Vord
 Assessment of Environmental Effects
Drawing 10.6
Other Marine Users - Study Area A

Date: 15/07/2022	Drawn by: NB	Checked by: OH	Version: Draft/V1
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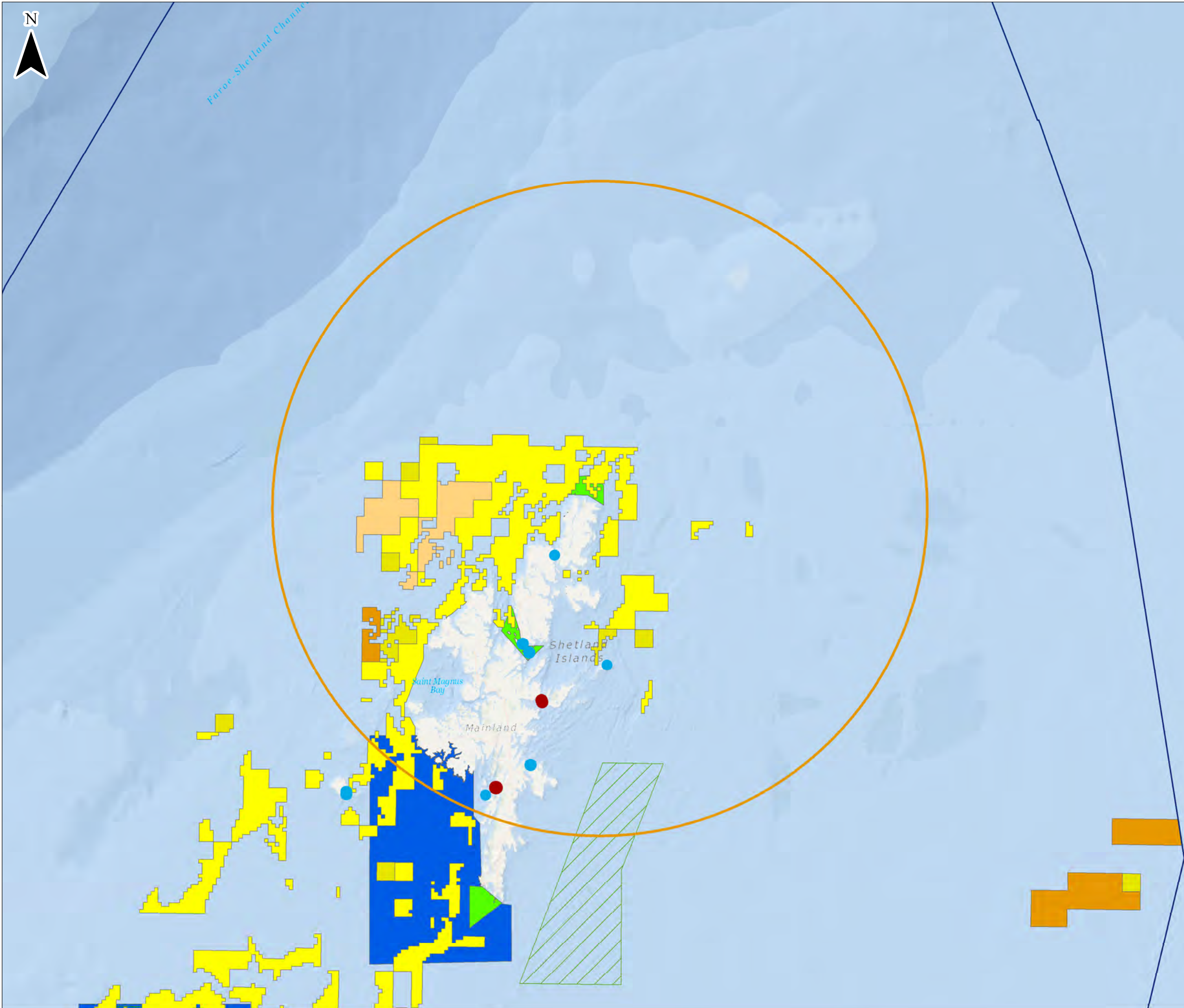
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Service Layer Credits: EMODnet, Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors
 Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



Chapter 10 Drawing 10.7 Study Area B Current and Potential Use of Marine Environment



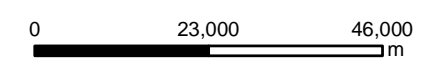


KEY

- Study Area B
- EEZ boundaries
- Open dredge spoil deposit site
- Disused dredge spoil deposit site
- Closed dredge spoil deposit site
- Tidal lease sites
- Tidal draft plan options
- Offshore Wind Energy draft plan options
- Wave draft plan options

Sand and Gravel resources

- Construction aggregate - Coarse
- Construction aggregate - Fine (Coarse Sand)
- Construction aggregate - Fine (Fine Sand)
- Fill aggregate



Scale 1:1,000,000@ A3



Saxa Vord
 Assessment of Environmental Effects
Drawing 10.7
**Current and Potential Use of
 Marine Environment - Study Area B**

Date: 15/07/2022	Drawn by: NB	Checked by: OH	Version: Draft/V1
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Project Number: 3148

Service Layer Credits: BGS, Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors
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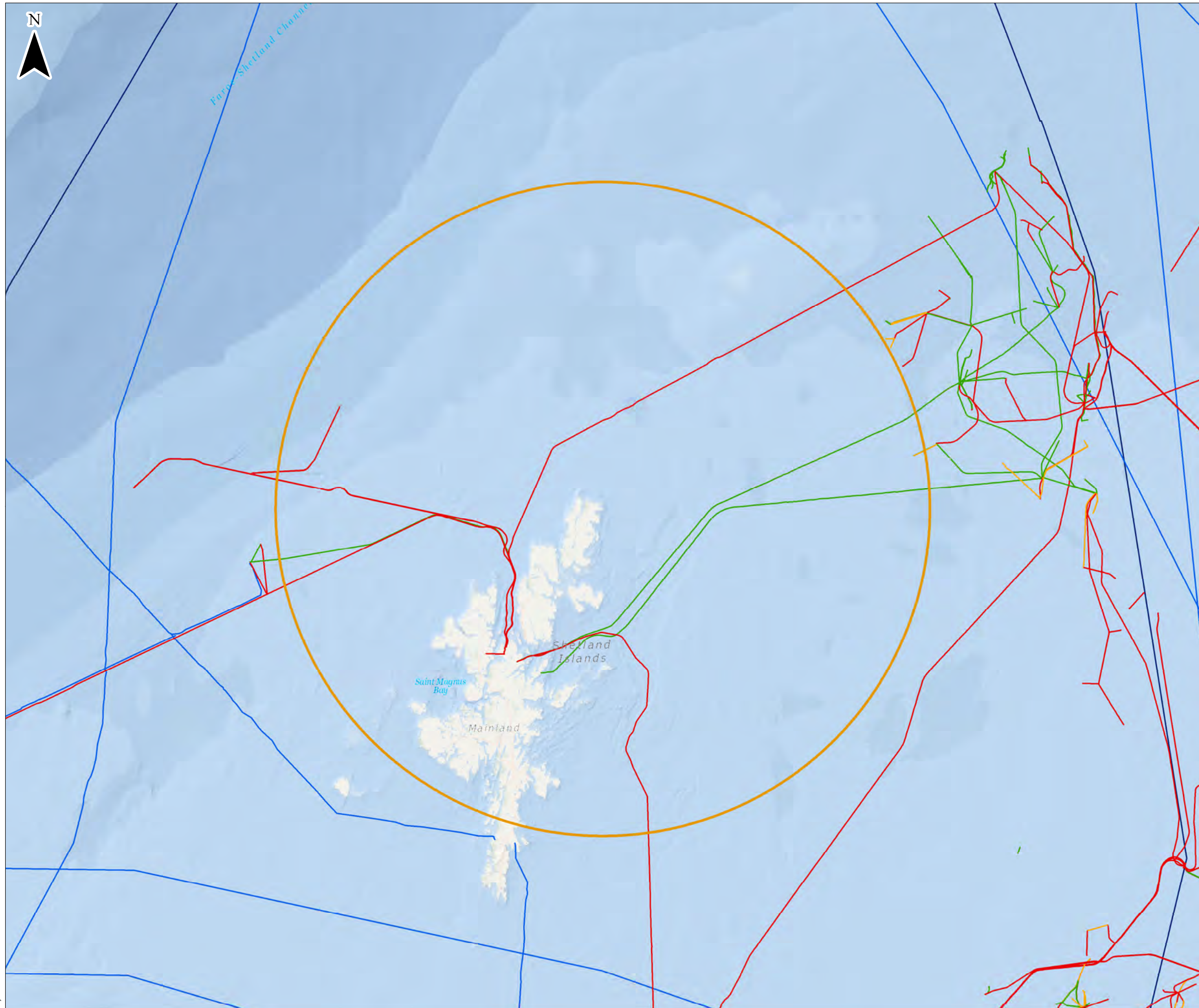


Chapter 10 Drawing 10.8 Study Area B Oil & Gas and Telecoms Infrastructure









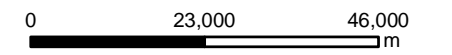


Forness-Shetland Channel



KEY

-  Study Area B
-  EEZ boundaries
-  Gas pipelines
-  Mixed Hydrocarbons pipelines
-  Oil pipelines
-  Telecommunication cables



Scale 1:1,000,000 @ A3



Saxa Vord
Assessment of Environmental Effects

Drawing 10.8

**Oil, Gas and Telecoms infrastructure
- Study Area B**

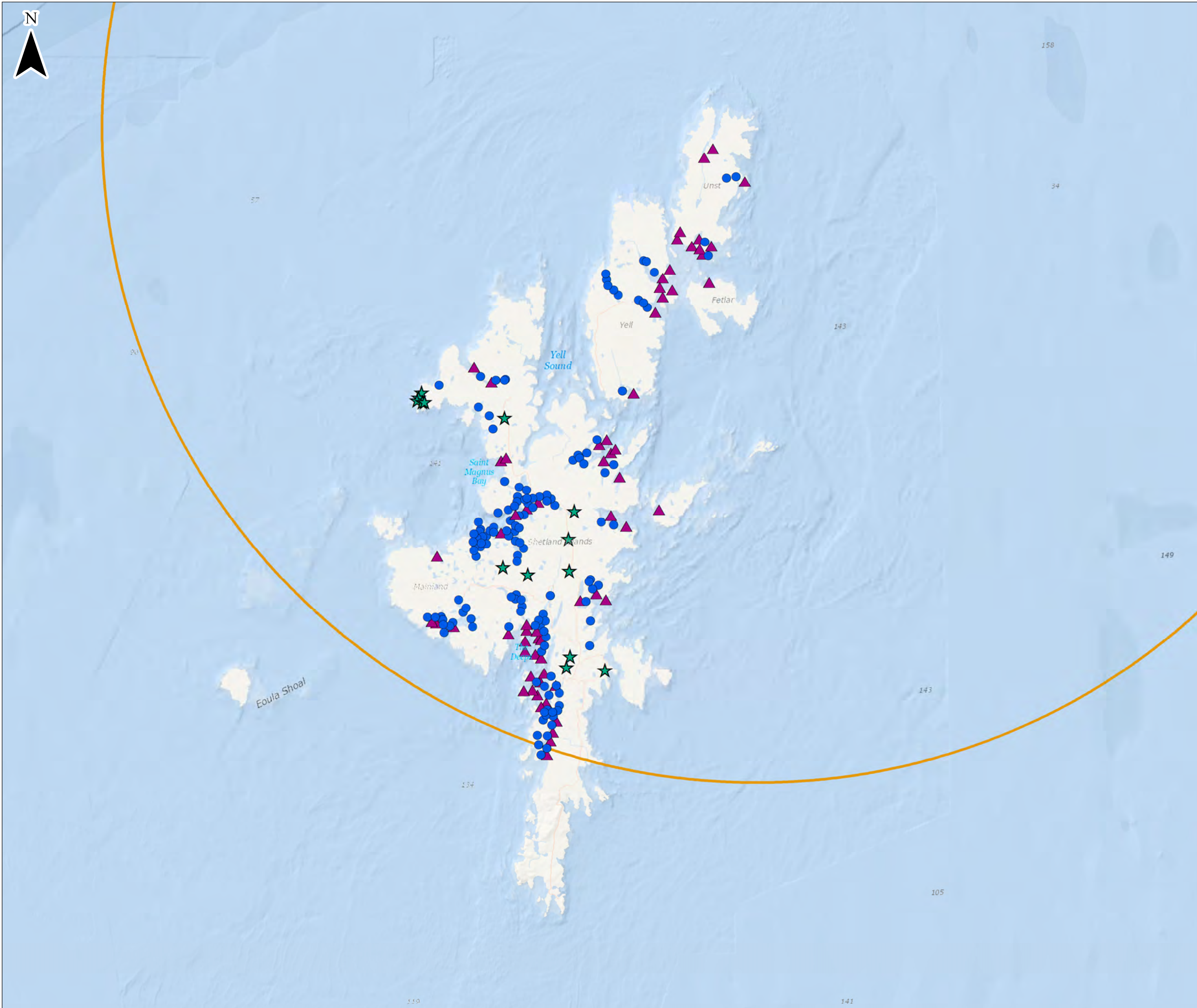
Date: 15/07/2022	Drawn by: NB	Checked by: OH	Version: Draft/V1
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Project Number: 3108



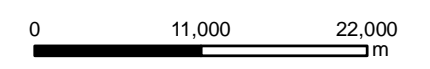
Chapter 10 Drawing 10.9 Study Area B Active Aquaculture Sites





KEY

- Study Area B
- ▲ Active Finfish sites
- ★ Active Fishery Sites
- Active Shellfish sites



Scale 1:500,000 @ A3



Saxa Vord
Assessment of Environmental Effects
Drawing 10.9
Active Aquaculture Sites - Study Area B

Date: 15/07/2022	Drawn by: NB	Checked by: OH	Version: Draft/V1
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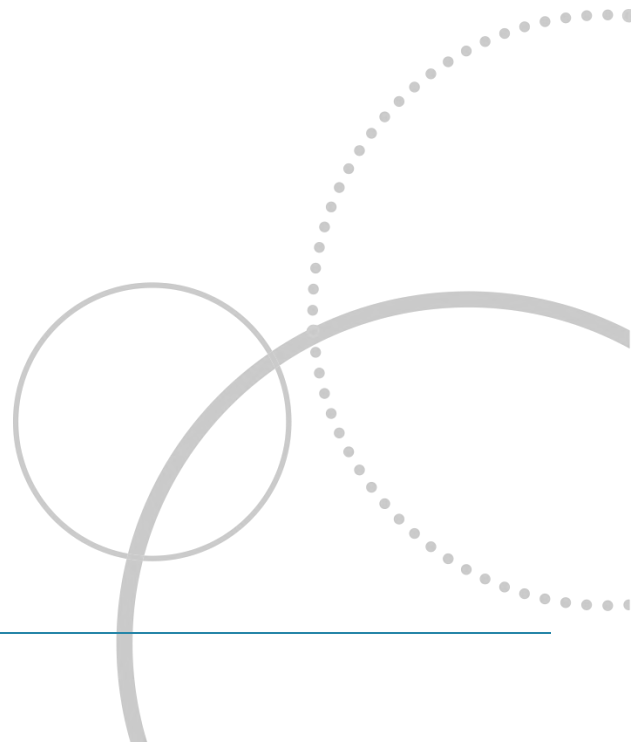
Project Number: 3108



Chapter 11 -

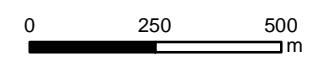


Chapter 12 Drawing 12.1 Geological Features





- KEY**
- Proposed Project Boundary
 - On-Site Road
 - Buildings and other Infrastructure
 - Launch Pads
 - Geological Conservation Review (GCR) Site
 - Class 1 Peat (SNH Carbon and Peatlands Mapping)
 - Site of Special Scientific Interest (SSSI)



Scale 1:15,000 @ A3



Saxa Vord Spaceport
Assessment of Environmental Effects

Drawing 12.1

Geological Features

Date: 17/11/2021	Drawn by: JH	Checked by: RF	Version: v1
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Project Number: 3108







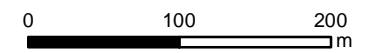
Chapter 12 Drawing 12.2a Proposed Launch Site (Western Section) Aerial Photography





KEY

-  Proposed Launch Site Boundary
-  On-Site Road
-  Buildings and other Infrastructure
-  Launch Pads



Scale 1:5,000 @ A3



Saxa Vord Spaceport
Assessment of Environmental Effects
Drawing 12.2a
Proposed Launch Site (Western Section)
Aerial Photography

Date: 17/11/2021	Drawn by: JH	Checked by: RF	Version: V1
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



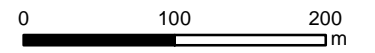
Chapter 12 Drawing 12.2b Proposed Launch Site (Eastern Section) Aerial Photography





KEY

-  Proposed Project Boundary
-  On-Site Road
-  Buildings and other Infrastructure
-  Launch Pads



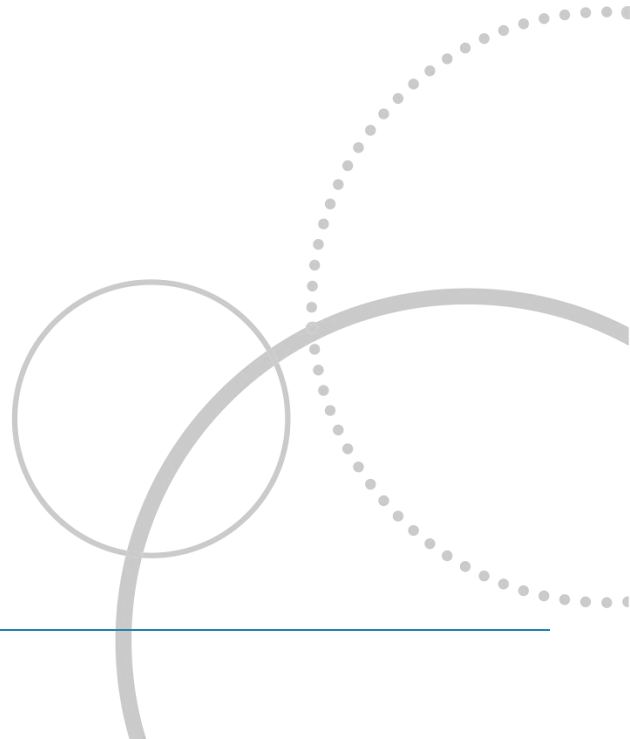
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Saxa Vord Spaceport
Assessment of Environmental Effects
Drawing 12.2b
Proposed Launch Site (Eastern Section)
Aerial Photography

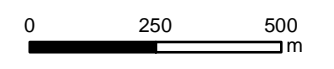
Date: 17/11/2021	Drawn by: JH	Checked by: RF	Version: V1
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Chapter 12 Drawing 12.3 Superficial Geology





- KEY**
- Proposed Project Boundary
 - On-Site Road
 - Buildings and other Infrastructure
 - Launch Pads
 - Till
 - Blown Sand
 - Marine Beach Deposits (Sand)
 - Lacustrine Deposits (Clay, Silt and Sand)
 - Peat



Scale 1:15,000 @ A3



Saxa Vord Spaceport
 Assessment of Environmental Effects
Drawing 12.3

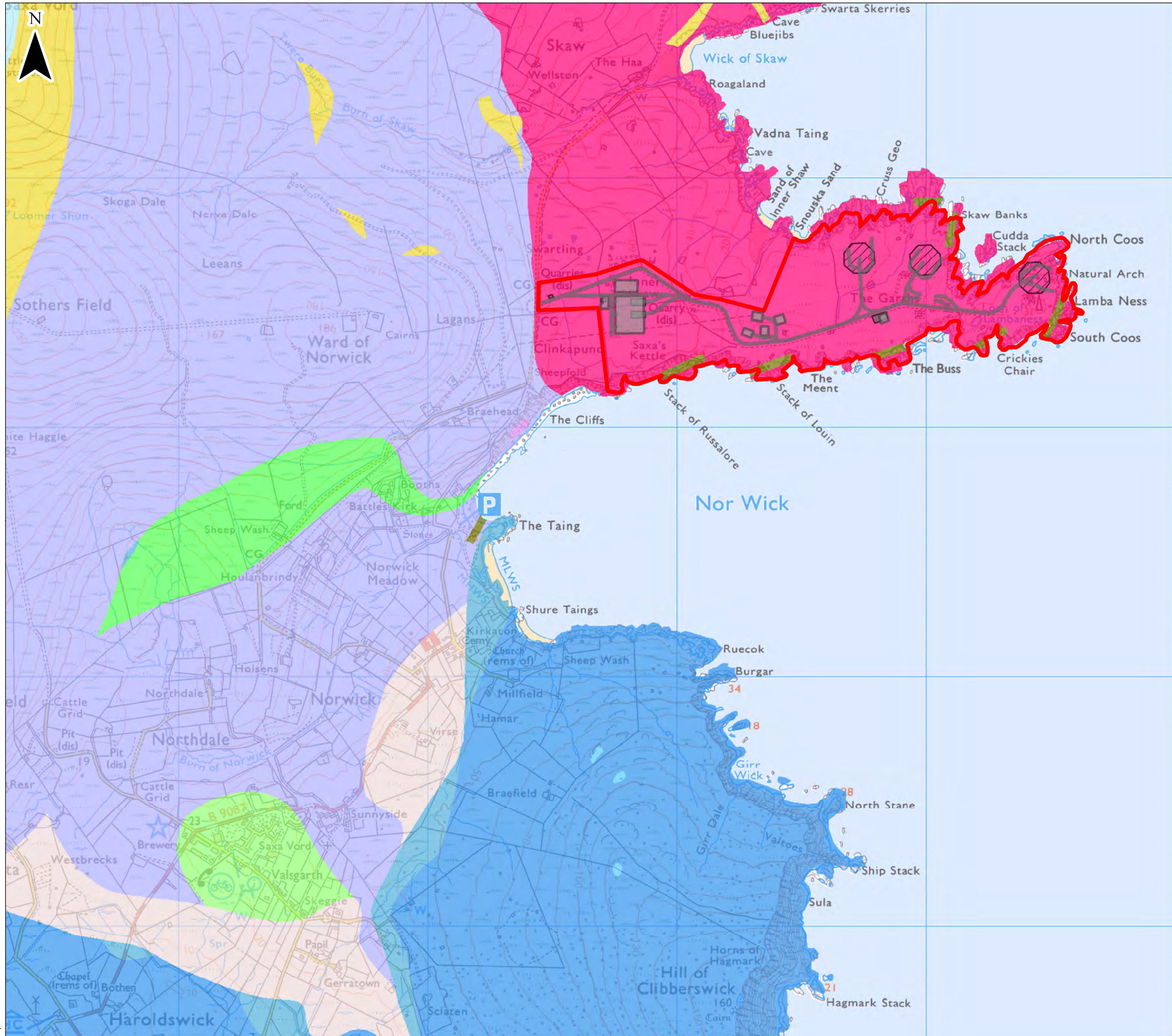
Superficial Geology

Date: 17/11/2021	Drawn by: JH	Checked by: RF	Version: v1
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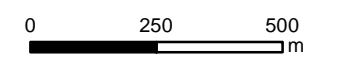
Project Number: 3108

Chapter 12 Drawing 12.4 Bedrock Geology





- KEY**
-  Proposed Launch Site Boundary
 -  On-Site Road
 -  Buildings and other Infrastructure
 -  Launch Pads
 -  Skaw Intrusion - microgranite
 -  North Britain Siluro-Devonian Calc-Alkaline Dyke Suite
 -  Saxa Vord Pelite Formation
 -  Hevda Phyllite Formation
 -  Norwick Hornblende Schist
 -  Shetland Ophiolite Complex - Talc-rock
 -  Shetland Ophiolite Complex - Metaharzburgite
 -  Shetland Ophiolite Complex - Meta-adunite
 -  Norwick Graphitic Schist Formation
 -  Gruting Greenschist Formation



Scale 1:15,000 @ A3



Saxa Vord Spaceport
 Assessment of Environmental Effects
Drawing 12.4

Bedrock Geology

Date: 17/11/2021	Drawn by: JH	Checked by: RF	Version: v1
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Project Number: 3108

Chapter 12 Drawing 12.5 Peat Probe Data



KEY

- Proposed Launch Site Boundary
- On-Site Road
- Buildings and other Infrastructure
- Launch Pads

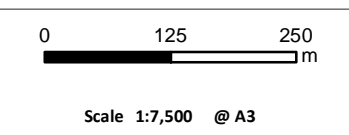
Recorded Peat Depth

Peat Probes

- 0.5m or less
- >0.5m to 1.0m
- >1.0m to 1.5m
- >1.5m to 2.0m
- >2.0m

Trial Pits

- 0.5m or less
- >0.5m to 1.0m
- >1.0m to 1.5m
- >1.5m to 2.0m
- >2.0m



Shetland Space Centre

Figure 2
Peat Depth Data - All Peat Probes and Trial Pits