

Marine Scotland

2014 Consultation on the Management of Inshore
Special Areas of Conservation and Marine Protected Areas

Maps

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2014 Consultation on the Management of Inshore
Special Areas of Conservation and Marine Protected Areas

Maps

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2014 Consultation on management of inshore Special Areas of Conservation and Marine Protected Areas

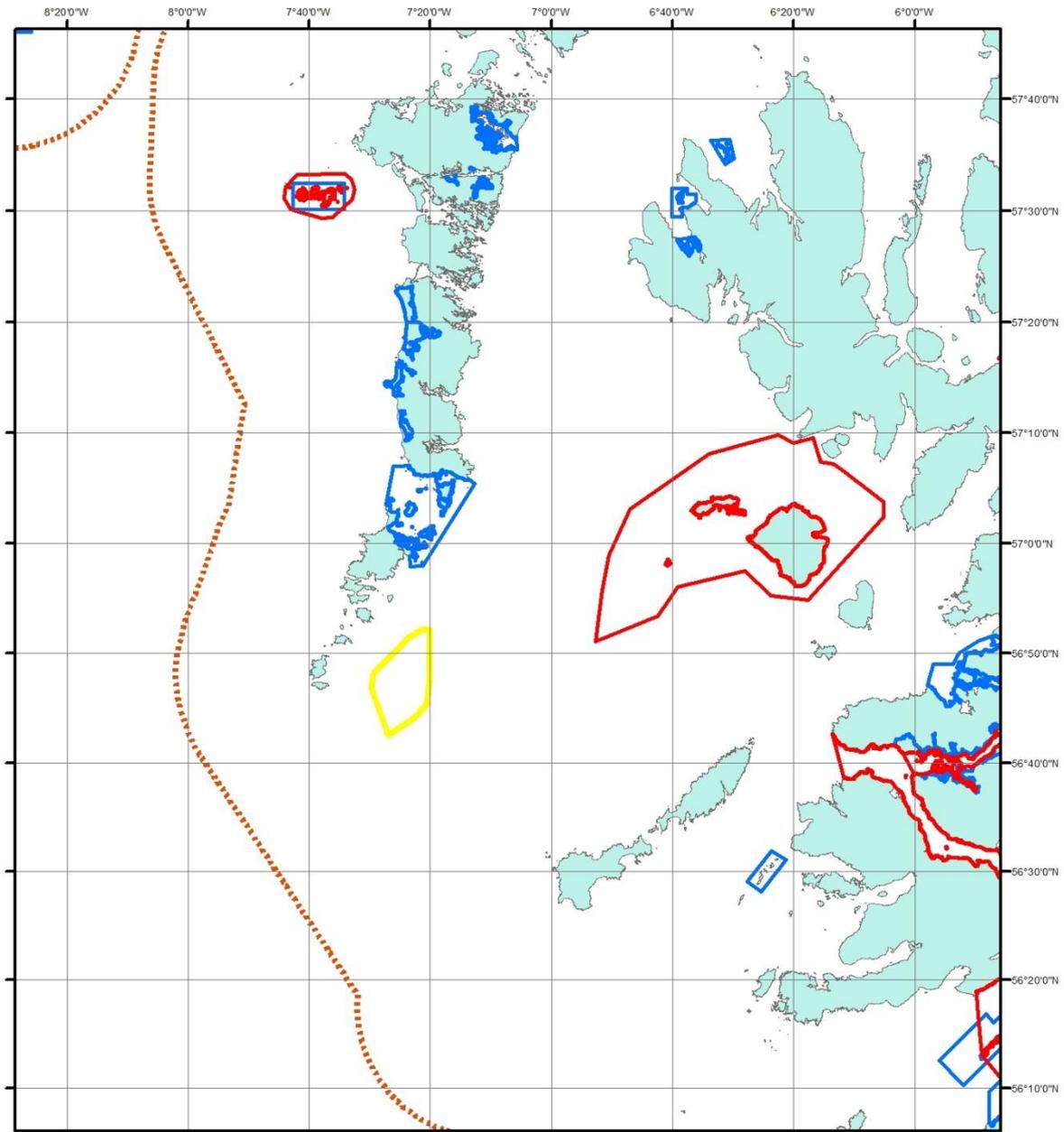
Maps

This provides all of the maps for each protected area that are referred to the Approaches document.

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Protected Area A – East Mingulay SAC

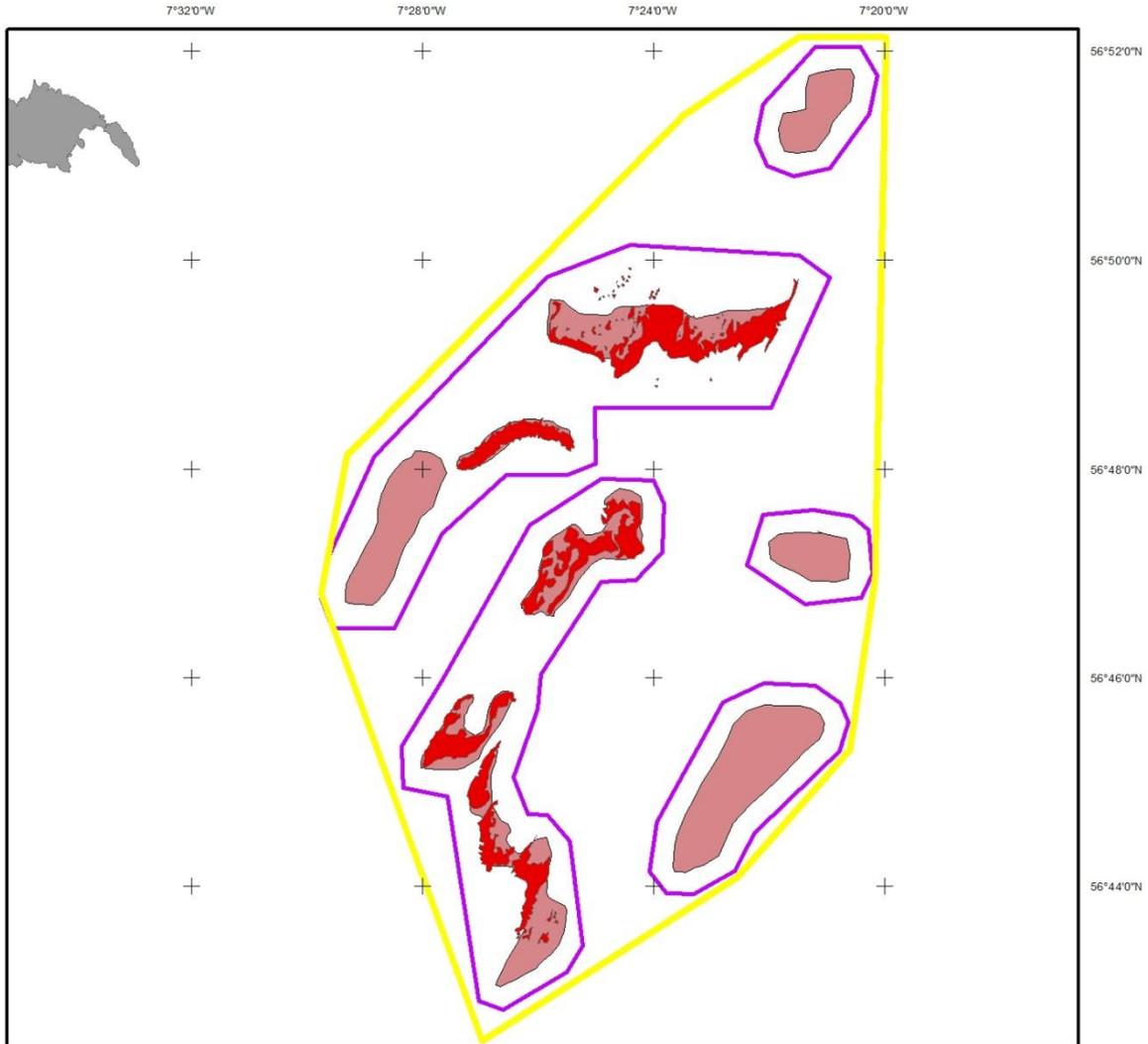


East Mingulay SAC Spatial relationship with other protected areas

-  Land
-  Territorial waters
-  East Mingulay SAC
-  NC MPA
-  Inshore SAC

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Projection: Mercator Datum: WGS 1984 Standard Parallel: 57°N Scale 1:750,000

Figure A1: East Mingulay SAC in context with other protected areas



East Mingulay SAC

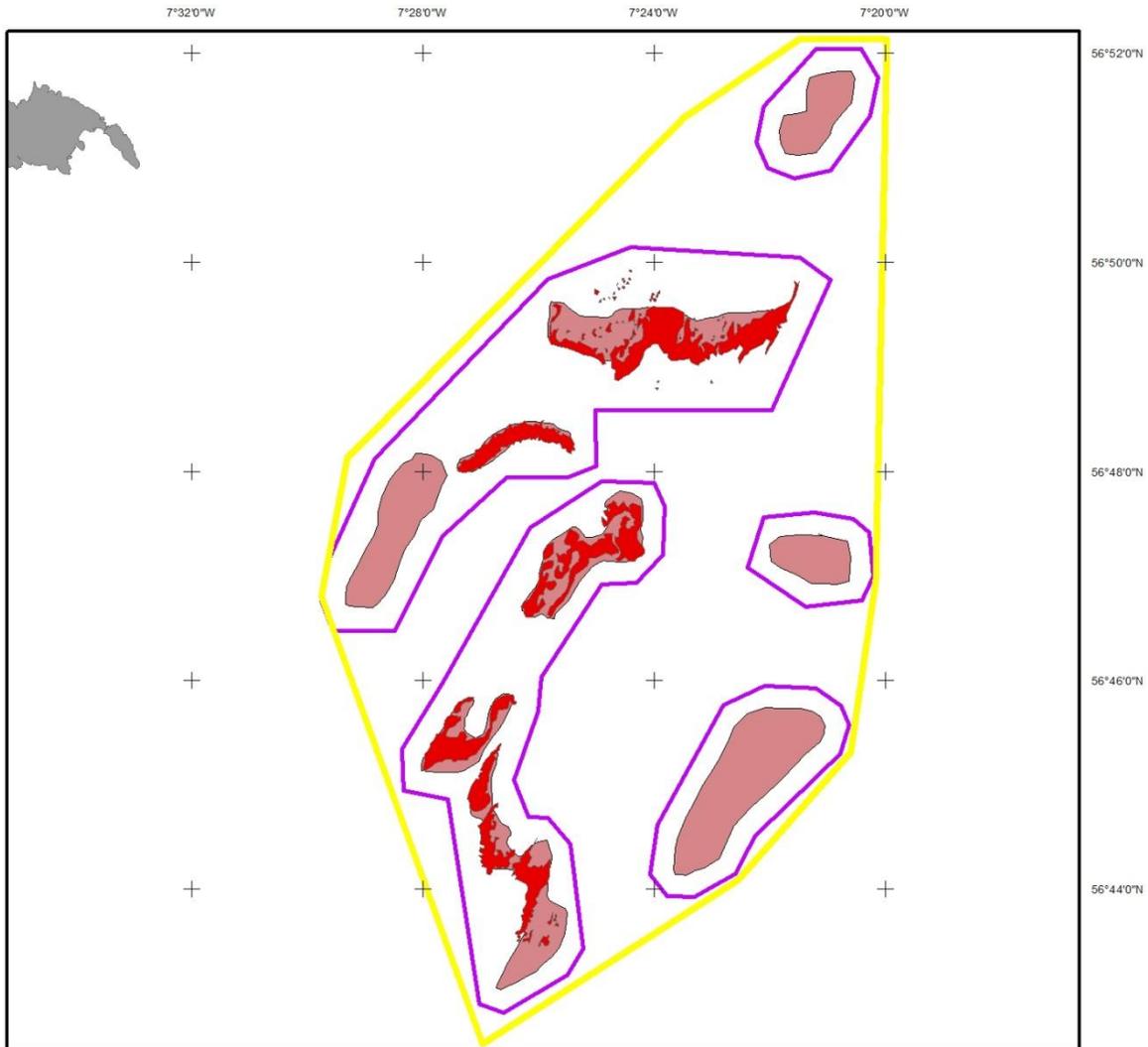
Approach 1

-  Land
-  SAC Boundary
-  Zonal management areas
-  Coral reef
-  Identified reef areas

Under this option there would be zonal management. This would prohibit the use of any demersal fishing gear within the defined areas. Activity could continue in rest of SAC

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Figure A2: East Mingulay SAC management approach 1



East Mingulay SAC

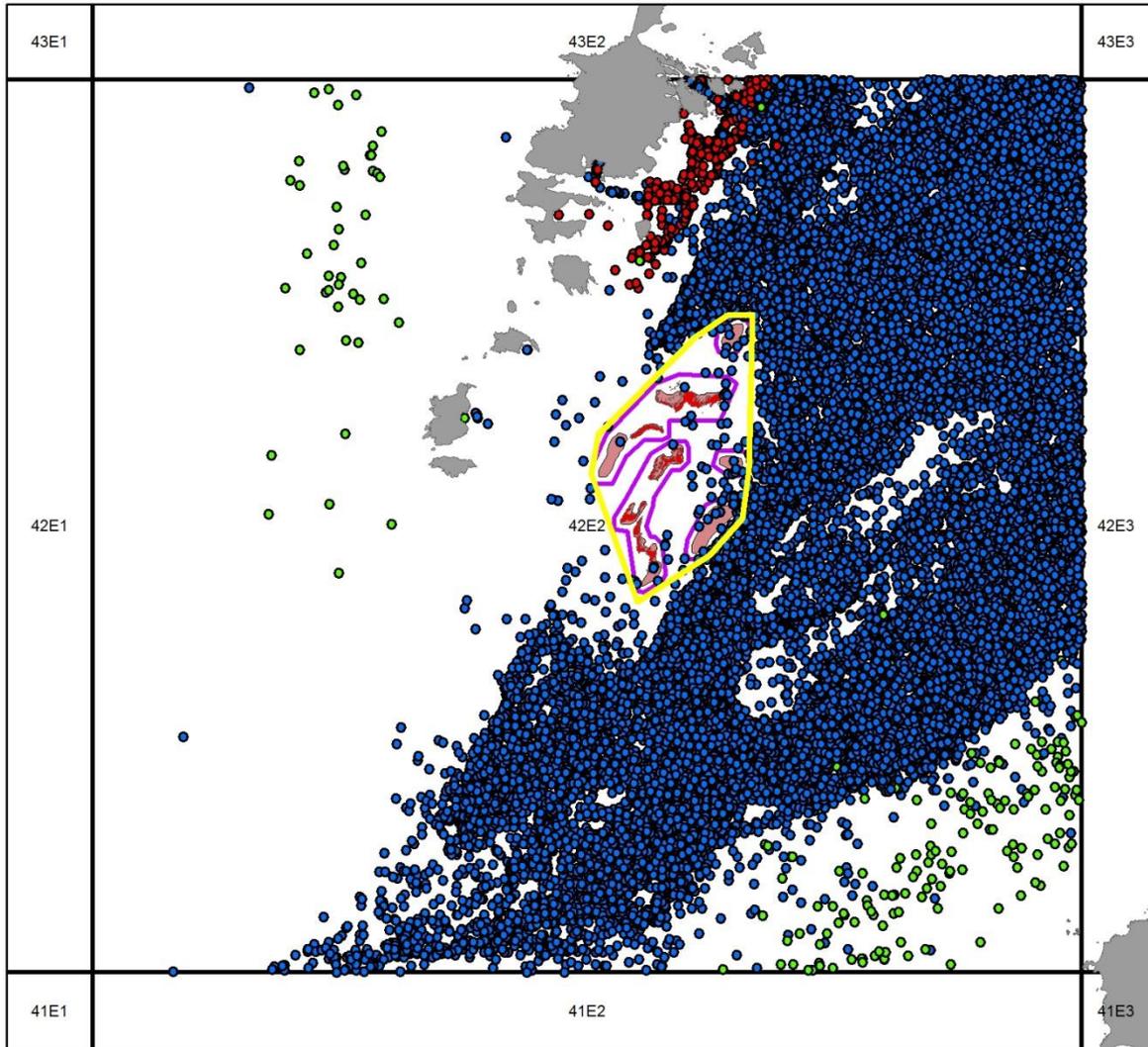
Approach 2

- Land
- SAC Boundary
- Zonal management areas
- Coral reef
- Identified reef areas

Under this option there would be no demersal mobile gear permitted in the SAC. There would be zonal management of static demersal activity. This would prohibit the use of static demersal fishing gear within the defined areas. Static demersal fishing activity could continue in rest of SAC.

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Figure A3: East Mingulay SAC management approach 2

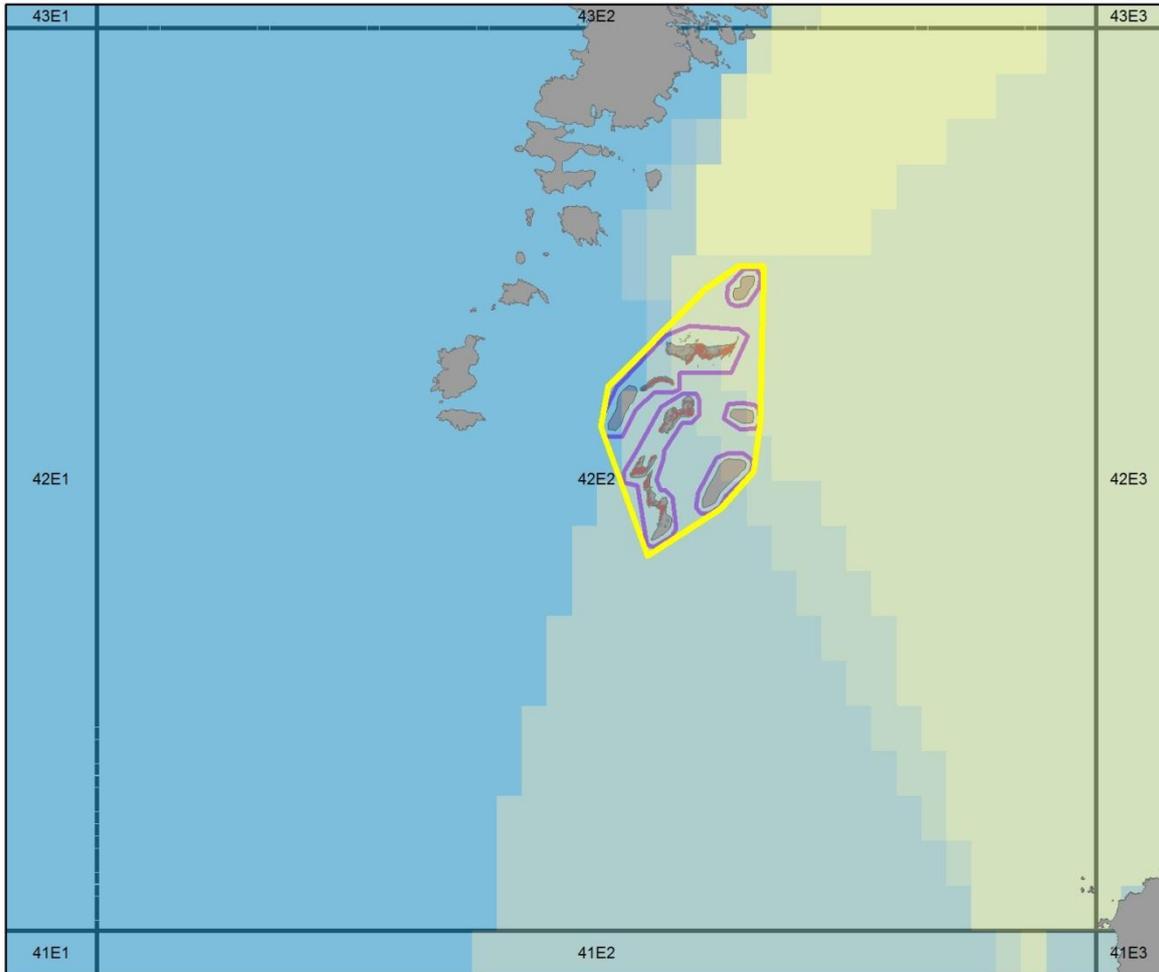


**East Mingulay SAC
Showing VMS data (2010 to 2013) in ICES rectangle 42E2**

- | | |
|----------------|------------------------|
| Land | Zonal management areas |
| SAC Boundary | Coral reef |
| ICES rectangle | Identified reef areas |
| Trawls | |
| Dredge | |
| Static | |

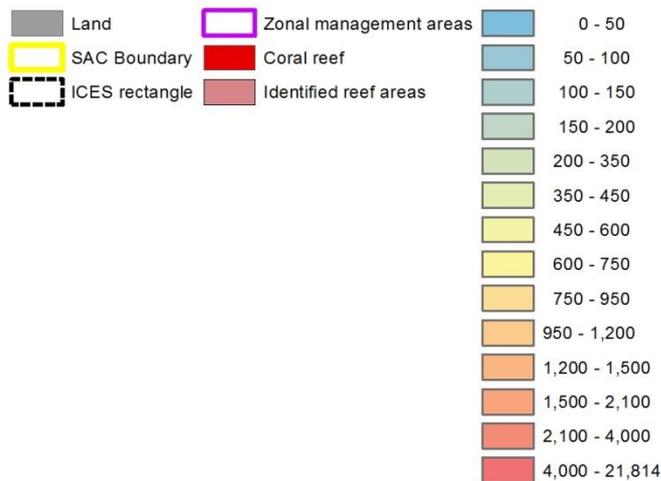
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Figure A4: East Mingulay SAC –VMS data 2010 – 2013



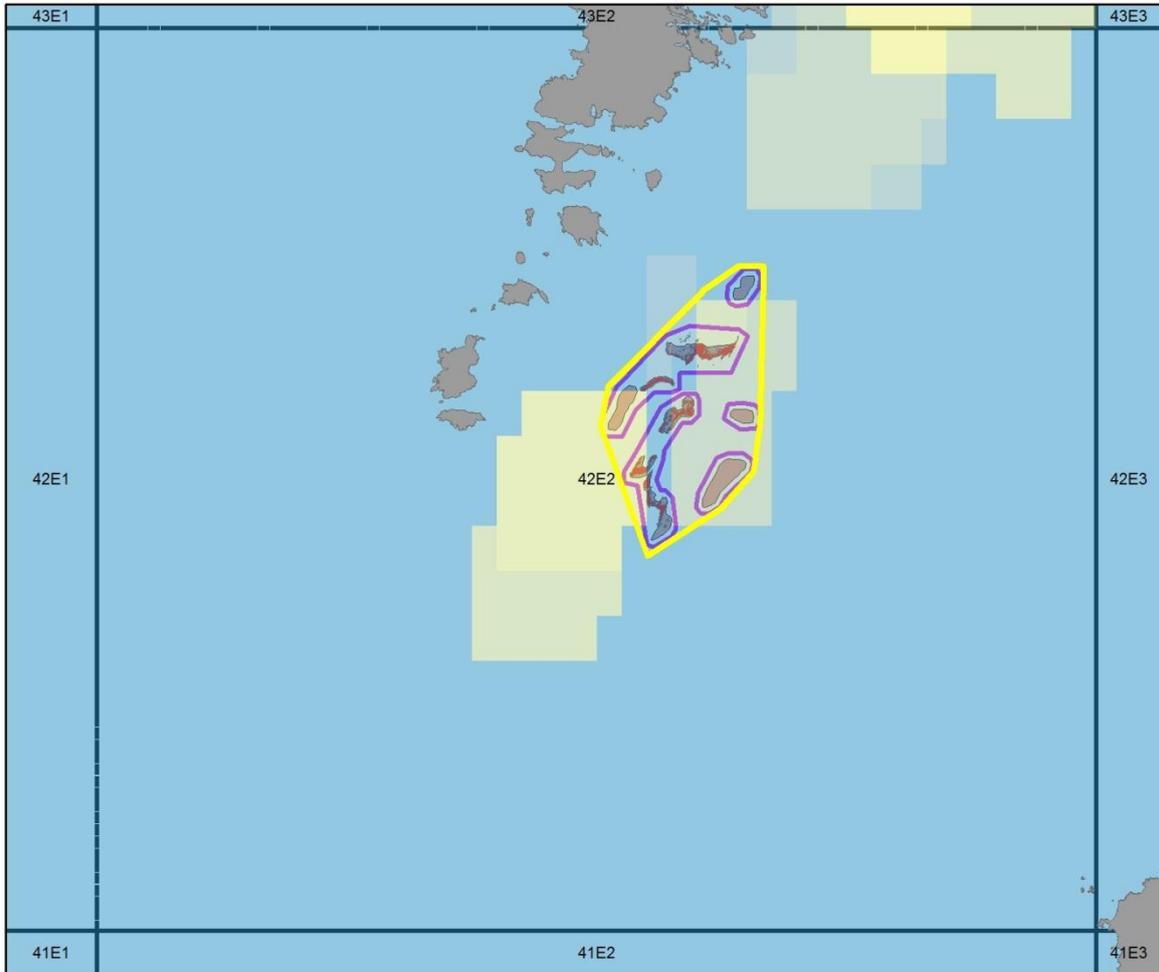
East Mingulay SAC

Showing Nephrops trawl value SCOTMAP data (2007 to 2011) in ICES rectangle 42E2



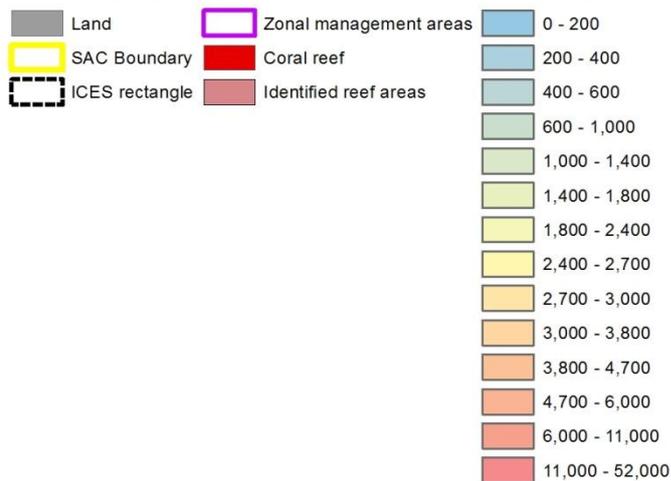
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 Using additional habitats data provided by Scottish Natural Heritage (June 2014)
 Projection: Mercator Datum: WGS 1984 Standard Parallel: 57°N Scale 1:350,000

Figure A5: East Mingulay SAC - SCOTMAP nephrops trawl value



East Mingulay SAC

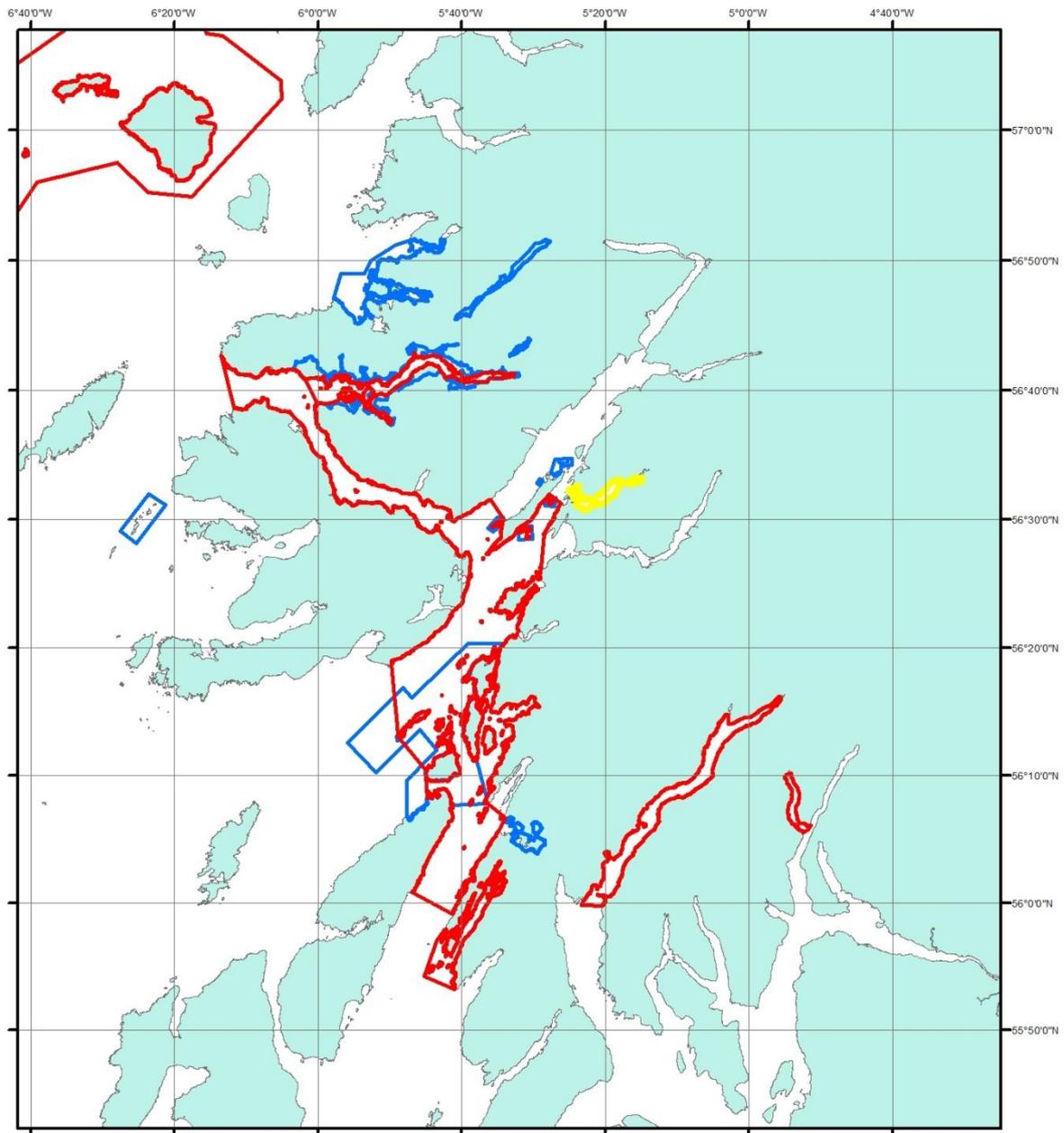
Showing Nephrops creel value SCOTMAP data (2007 to 2011) in ICES rectangle 42E2



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Figure A6: East Mingulay SAC - SCOTMAP nephrops creel value

Protected Area B – Loch Creran MPA / SAC

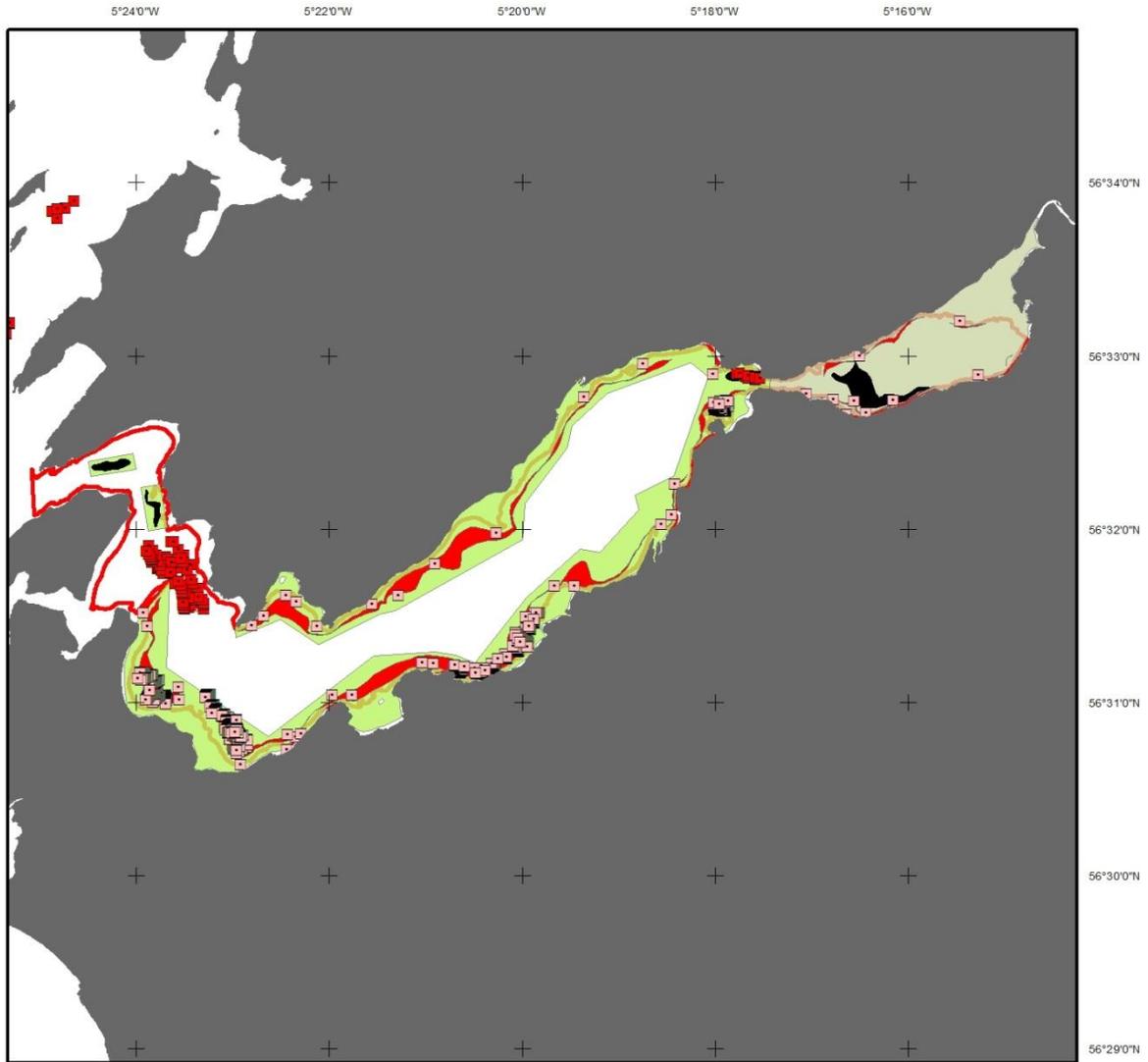


Loch Creran MPA Spatial relationship with other protected areas

-  Land
-  Loch Creran MPA
-  NC MPA
-  Inshore SAC

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Figure B1 – Loch Creran MPA / SAC with other nearby protected areas

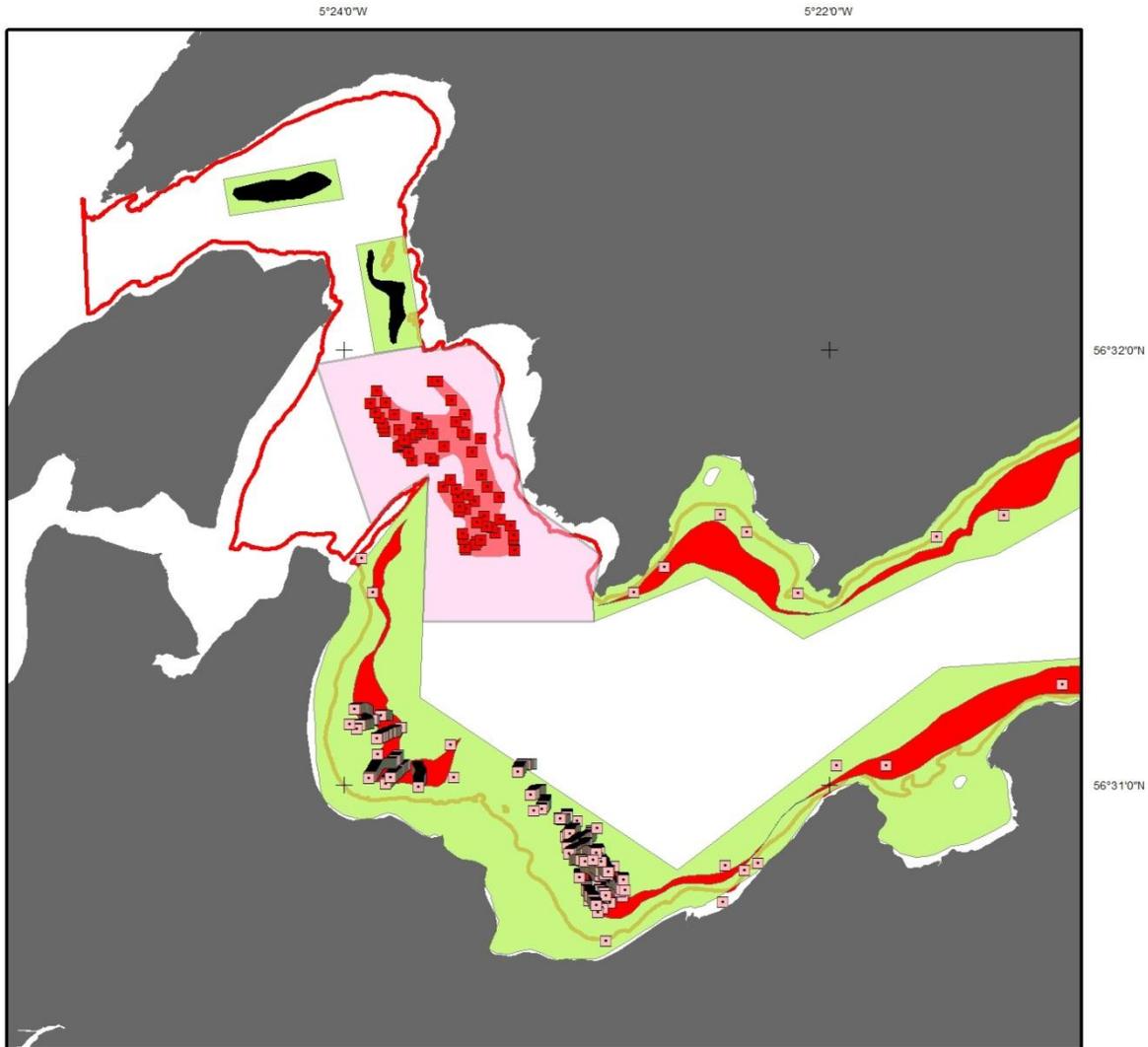


**Loch Creran MPA / SAC
Existing management measures**



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Figure B2: Loch Creran SAC – existing management measures



Loch Creran MPA / SAC

Approach 1

- | | |
|------------------------|----------------------------------|
| Land | SSI 185/2007 restrictions |
| Proposed no trawl area | Art 4 |
| MPA boundary | Art 5(1) |
| Serpulid aggregations | Art 5(2) |
| Flame shell beds | |
| Flame shell beds | |
| Serpulid aggregations | |
| Serpulid reefs | |
| Horse mussel beds | |

maintain all the existing management measures included in SSI 185/2007.

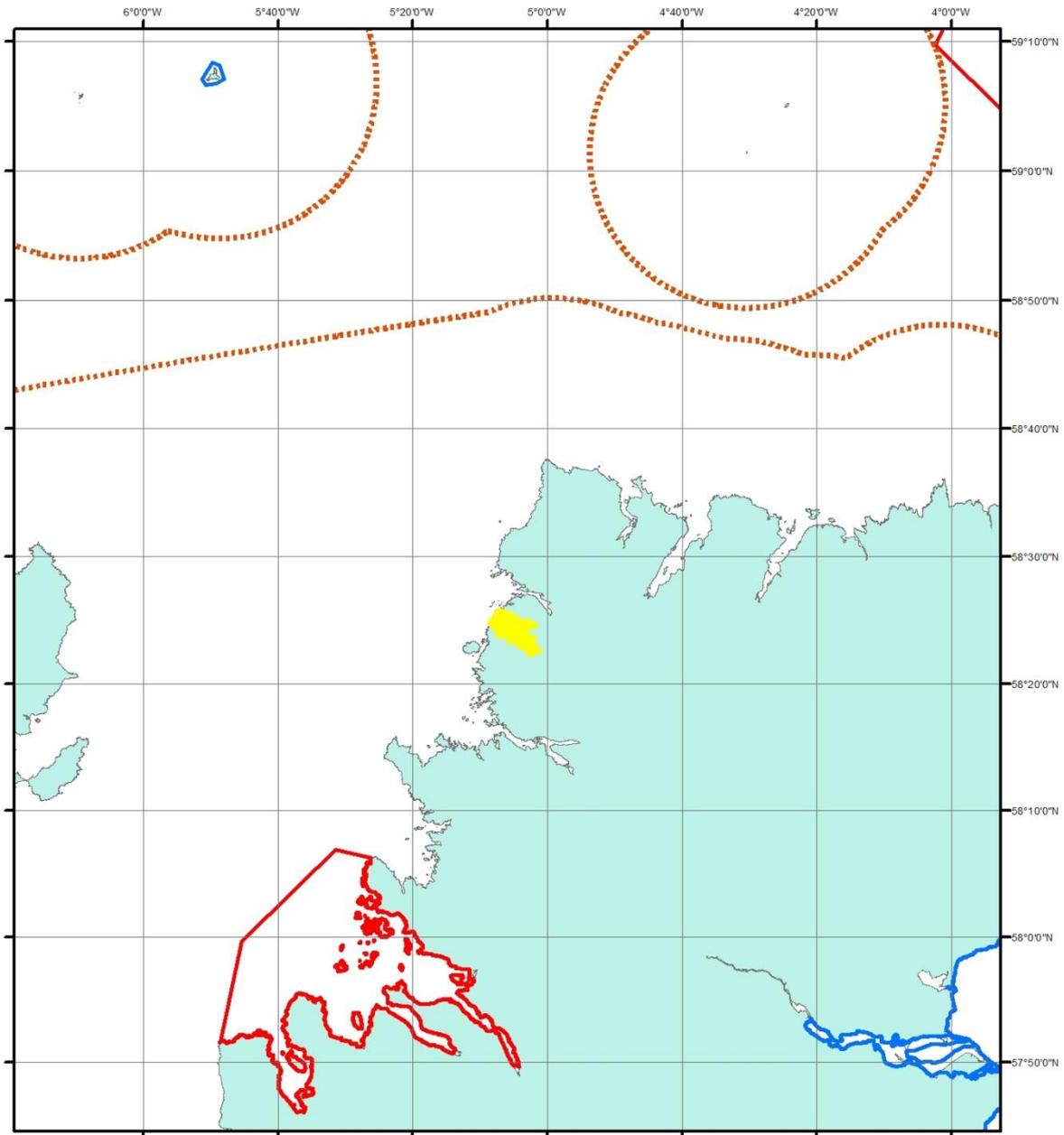
Prohibit all forms of suction dredging and hydraulic dredging

Add a new restriction on trawling at Eriska Narrows. (The pink box)

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Figure B3: Map of measures proposed under approach 1

Protected Area C – Loch Laxford SAC

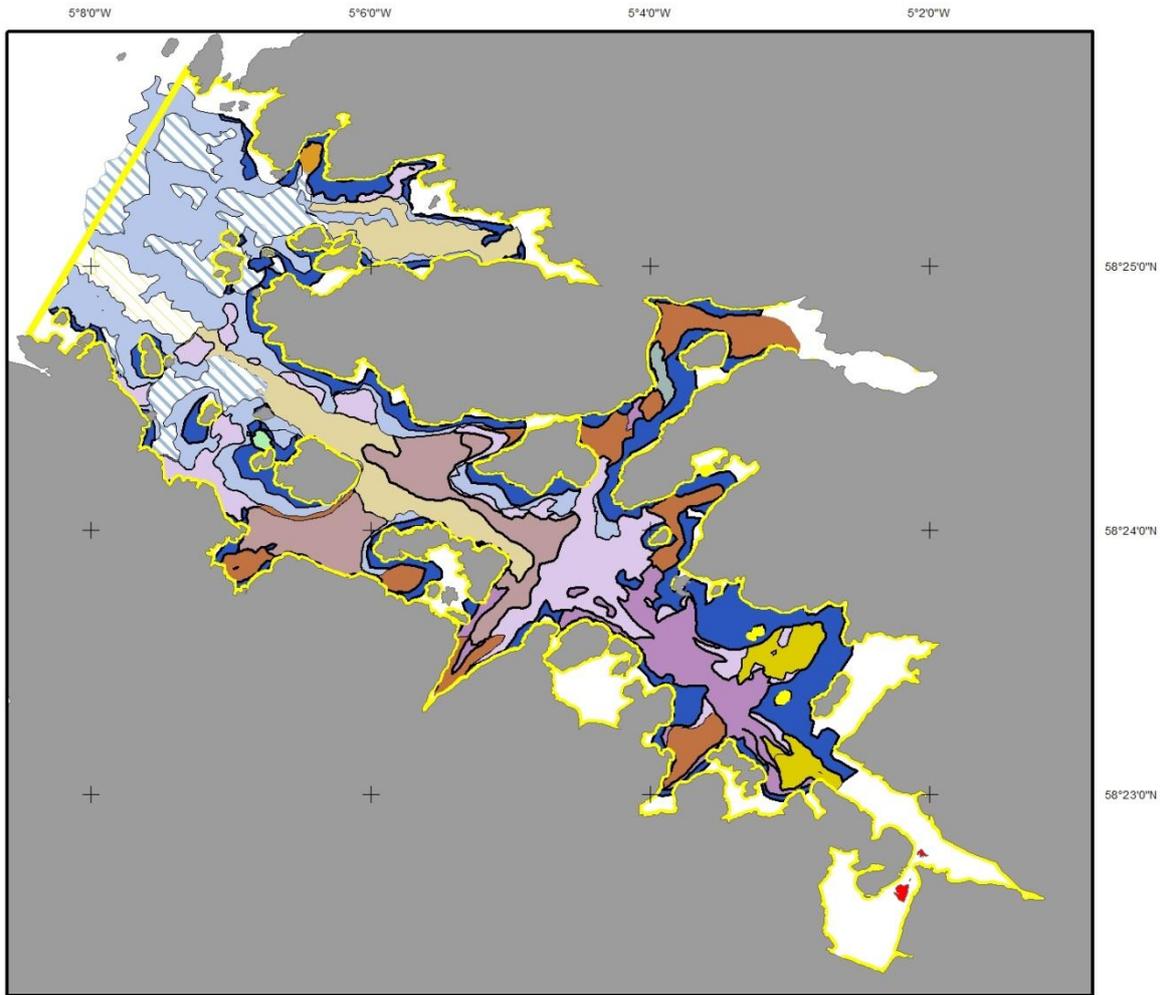


Loch Laxford SAC Spatial relationship with other protected areas

- Land
- Territorial waters
- Loch Laxford SAC
- NC MPA
- Inshore SAC

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Figure C1: Loch Laxford SAC in context with other protected areas



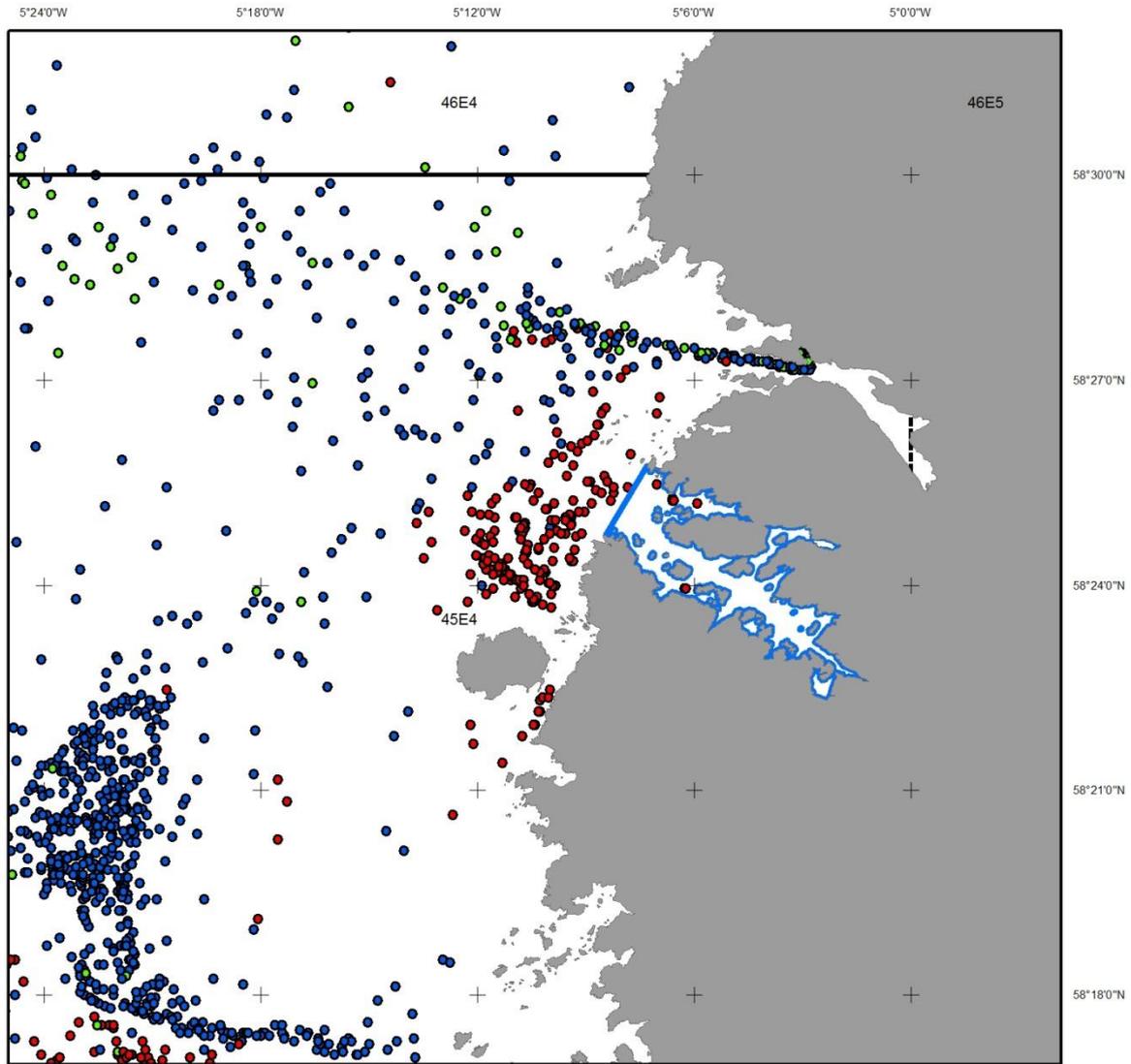
Loch Laxford SAC

- | | |
|--|--|
| <ul style="list-style-type: none"> Land SAC boundary Infralittoral rock or boulders- kelp dominated biotopes Circalittoral rock or boulders Mud with boulders and rock outcrops Blue mussel beds | <ul style="list-style-type: none"> Infralittoral coarse sand & gravel Infralittoral sand Algal mats on silty sediments Infralittoral muddy sand with maerl Shallow sheltered soft mud Circalittoral coarse sand and gravel Circalittoral sand and gravel Silty sand with megafaunal burrows Mixed muddy sand Muddy sand with megafaunal burrows |
|--|--|

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 Standard Parallel: 58°30"N Scale 1:40,000

Approach 1
 There would be no demersal trawling,
 mechanical dredging, suction dredging,
 or hydraulic dredging within the SAC

Figure C2: Loch Laxford SAC management approach 1



**Loch Laxford SAC
Showing VMS data from 2010 to 2013**

- | | |
|--|--|
|  Land |  Trawls |
|  SAC boundary |  Dredge |
|  ICES rectangle |  Static |

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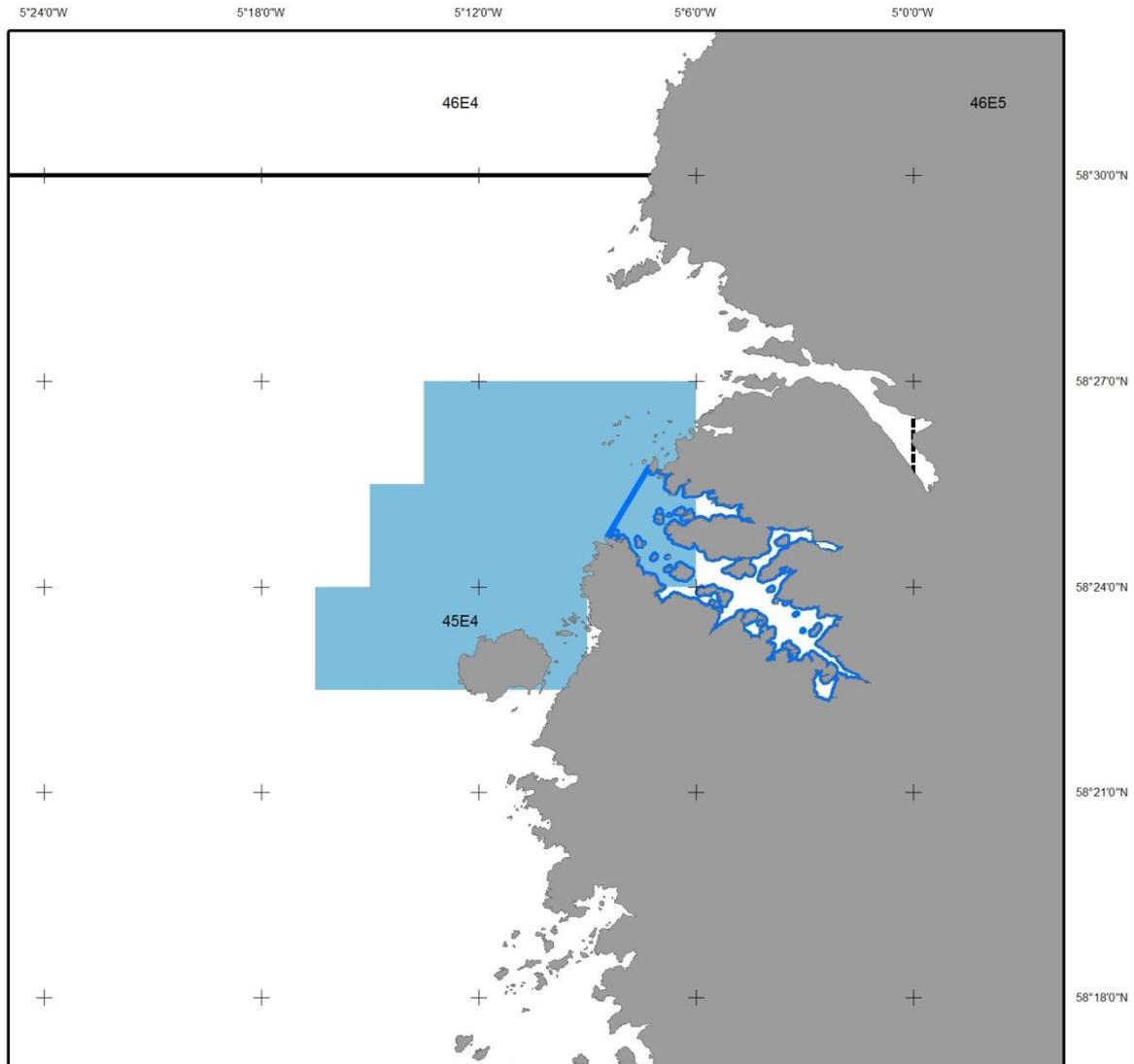
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Using Geodatabase of Marine Features Adjacent to Scotland (GEMS i12 - May 2014).

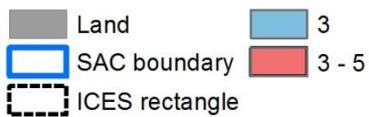
Using additional habitats data provided by Scottish Natural Heritage (June 2014)

Projection: Mercator Datum: WGS 1984 Standard Parallel: 58°30'N Scale 1:150,000

Figure C3: Loch Laxford SAC –VMS data 2010 – 2013



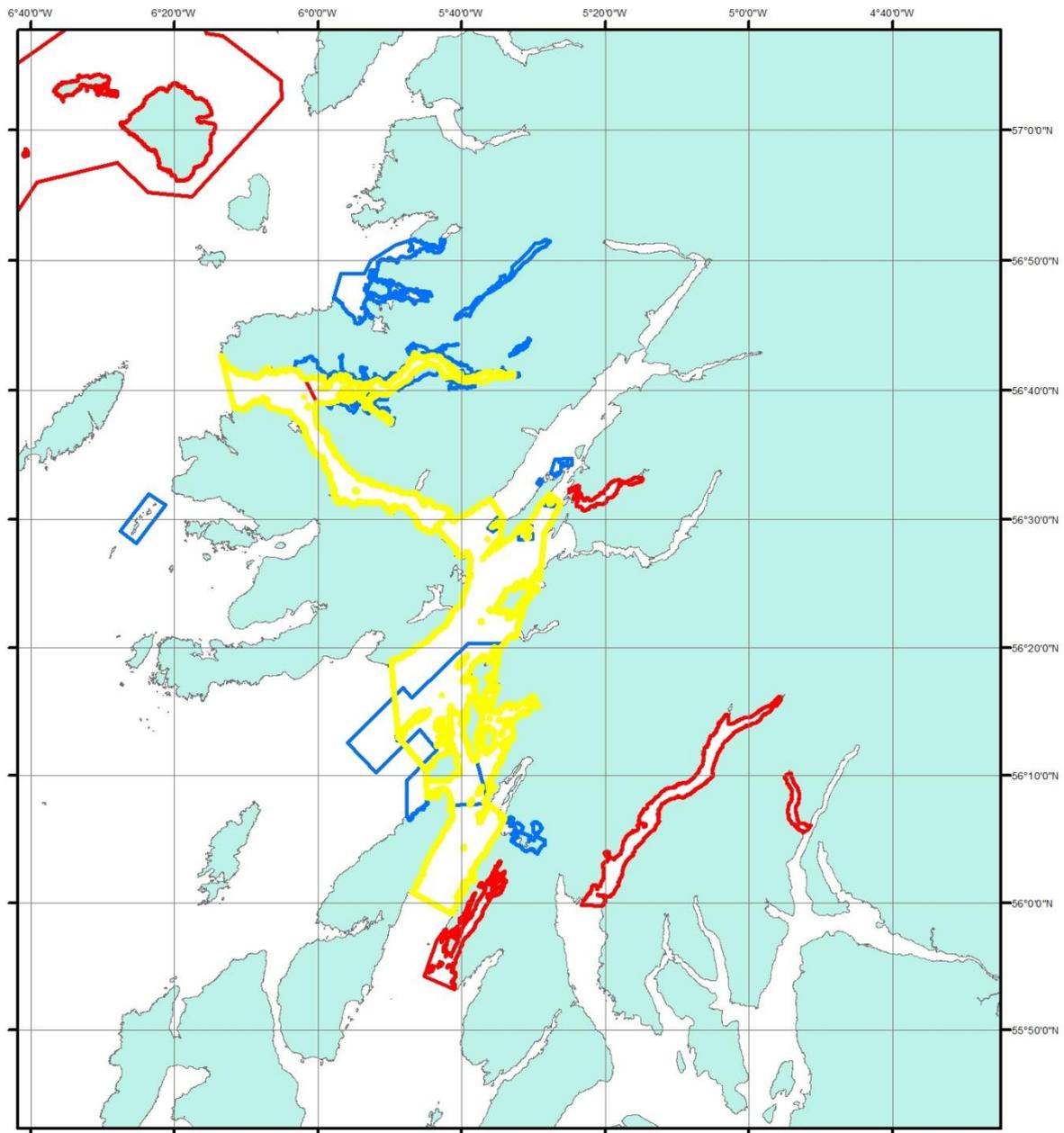
**Loch Laxford SAC
Showing SCOTMAP (2007 -11) Scallop dredge number of vessels**



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 Using additional habitats data provided by Scottish Natural Heritage (June 2014)
 Projection: Mercator Datum: WGS 1984 Standard Parallel: 58°30'N Scale 1:150,000

Figure C4: Loch Laxford SAC – SCOTMAP scallop dredge number of vessels

Protected Area D – Loch Sunart to Sound of Jura MPA

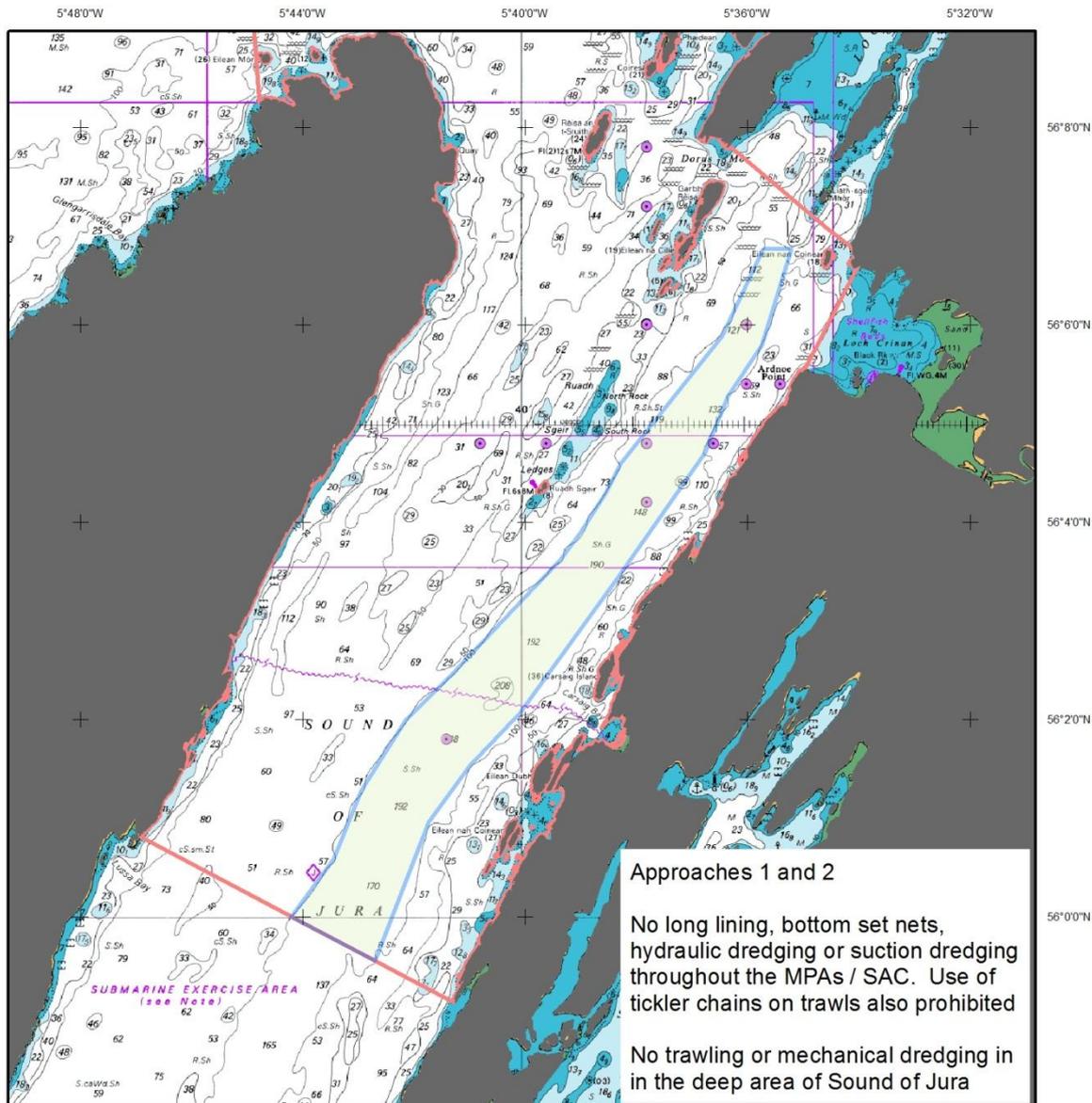


Loch Sunart to Sound of Jura MPA incorporating Loch Sunart SAC and Loch Sunart MPA Spatial relationship with other protected areas

-  Land
-  Loch Sunart to Sound of Jura MPA
-  NC MPA
-  Inshore SAC

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Figure D1 – Loch Sunart to Sound of Jura with other nearby protected areas

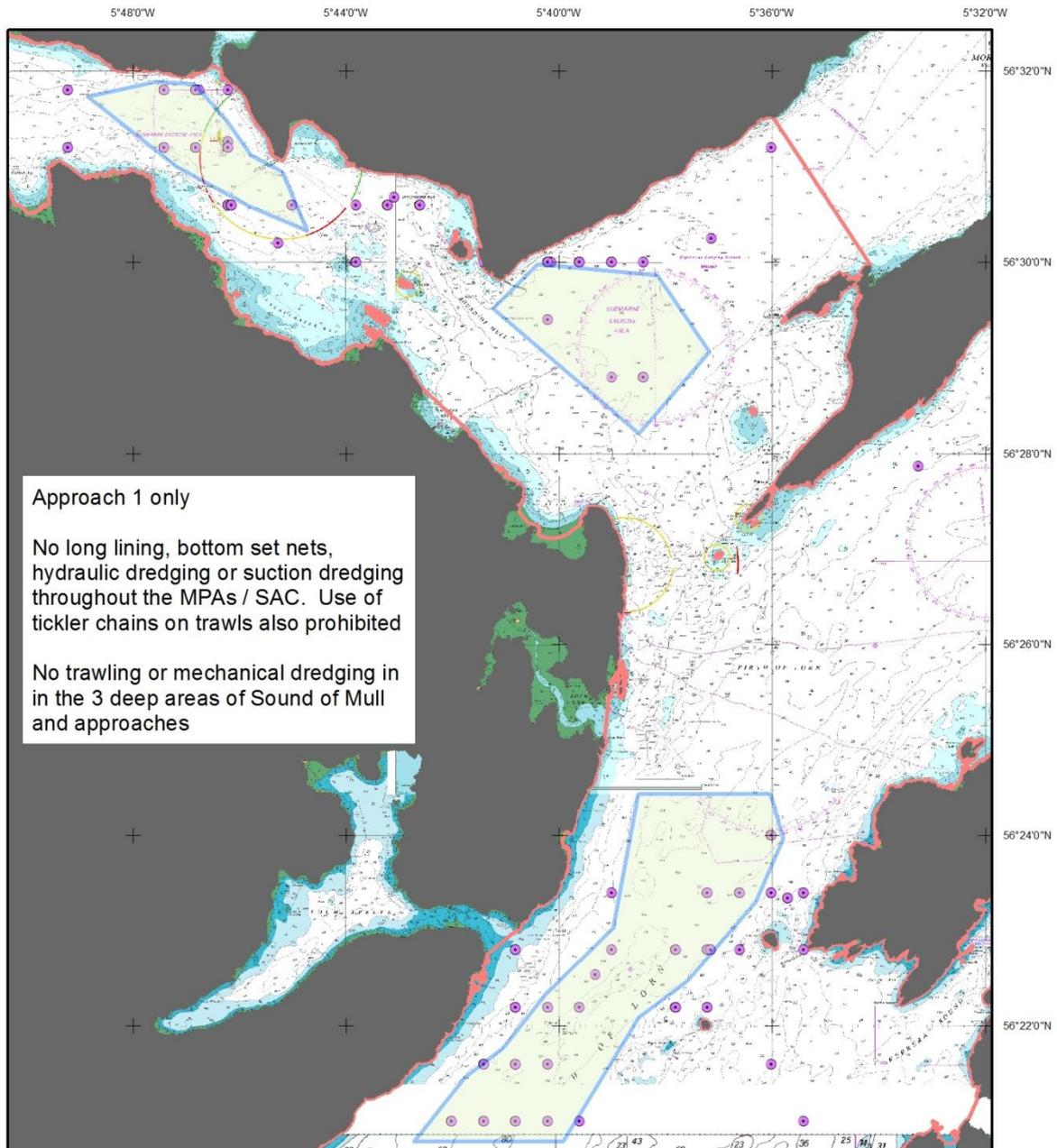


**Loch Sunart to Sound of Jura MPA
Incorporating Loch Sunart MPA and Loch Sunart SAC**

- Land
- LSJ Boundary
- Proposed no demersal mobile gear
- Common skate

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Figure D2: Approach 1 and Approach 2 – Measures in Sound of Jura

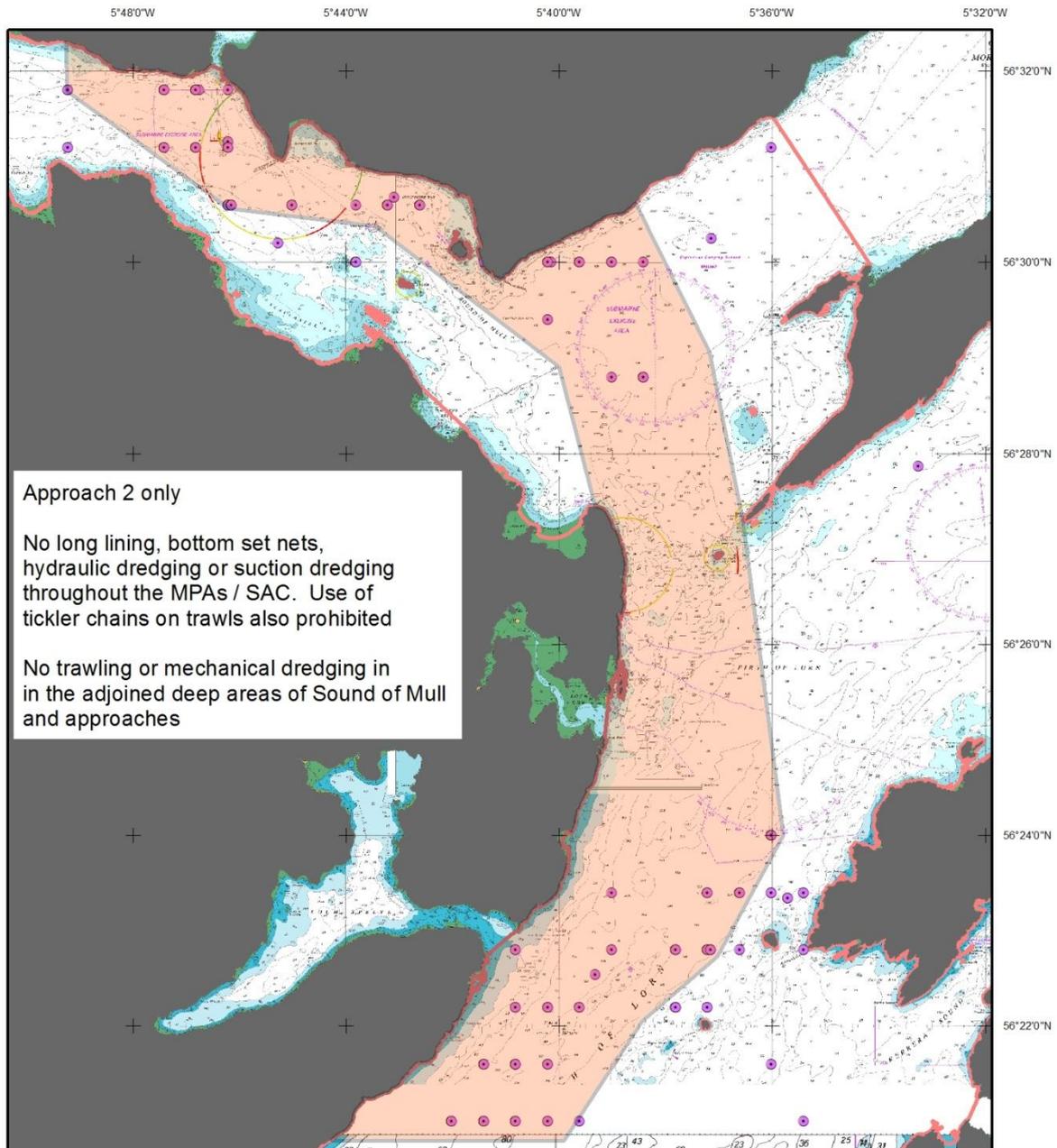


**Loch Sunart to Sound of Jura MPA
Incorporating Loch Sunart MPA and Loch Sunart SAC**

- Land
- LSJ Boundary
- Proposed no demersal mobile gear
- Common skate

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Figure D3: Approach 1 – Measures in Sound of Mull and approaches



Approach 2 only

No long lining, bottom set nets, hydraulic dredging or suction dredging throughout the MPAs / SAC. Use of tickler chains on trawls also prohibited

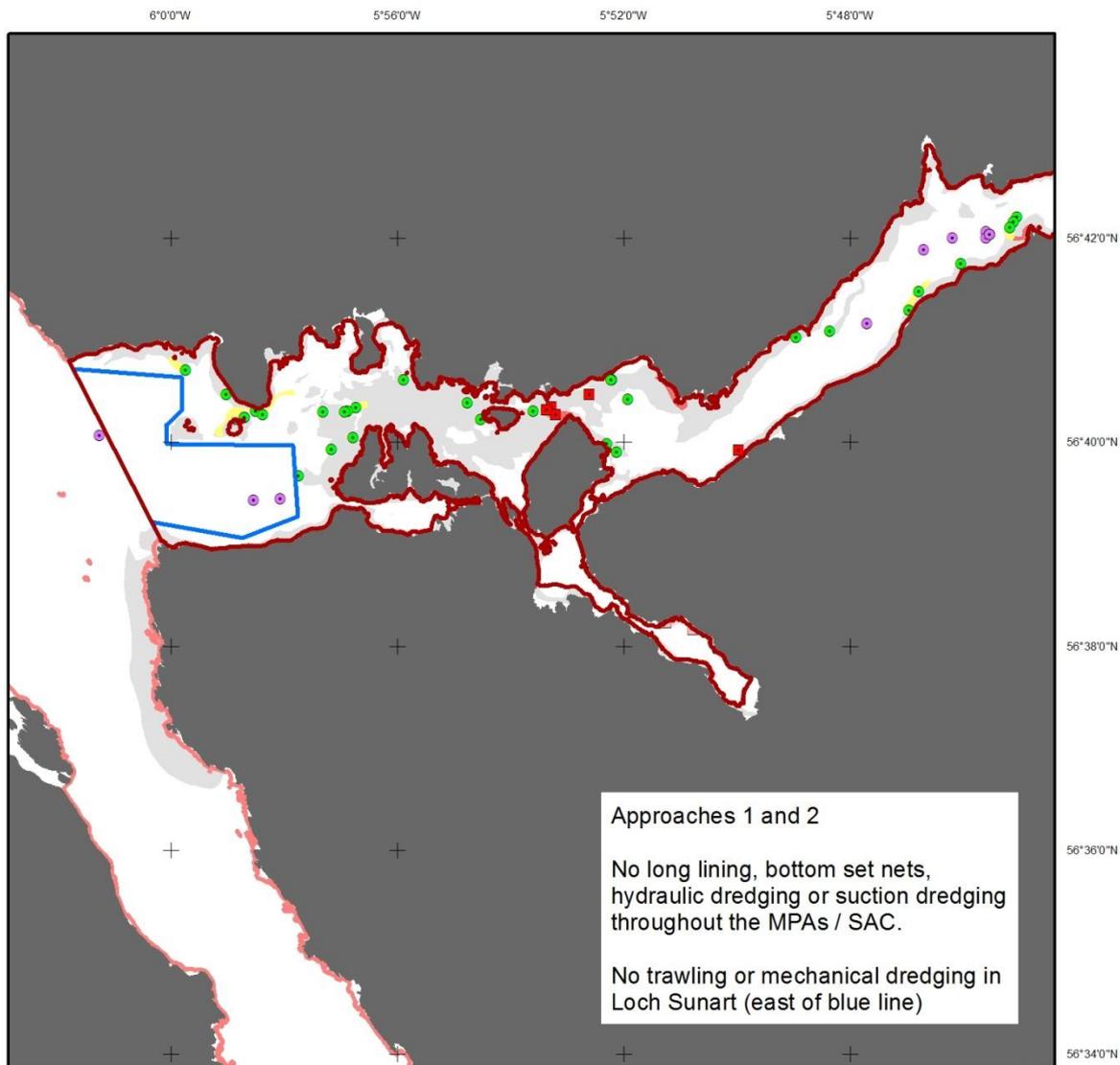
No trawling or mechanical dredging in in the adjoined deep areas of Sound of Mull and approaches

**Loch Sunart to Sound of Jura MPA
Incorporating Loch Sunart MPA and Loch Sunart SAC**

- Land
- LSJ Boundary
- Proposed no demersal mobile gear
- Common skate

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Figure D4: Approach 2 – Measures in Sound of Mull and approaches

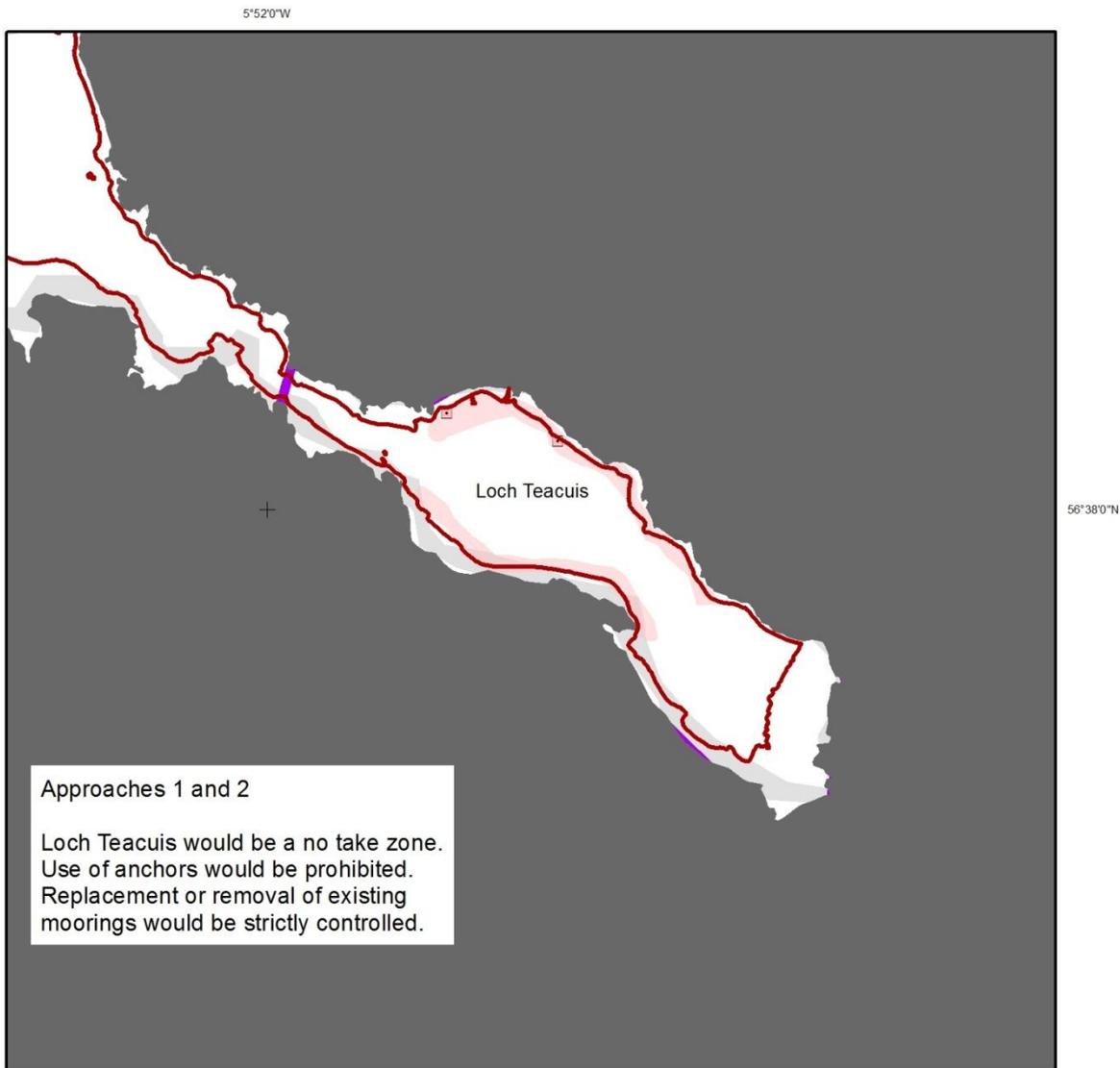


**Loch Sunart to Sound of Jura MPA
Incorporating Loch Sunart MPA and Loch Sunart SAC**

- Land
- LSJ Boundary
- LSU Boundary
- No demersal mobile gear east of this line
- Serpulid aggregations
- Flame shell beds
- Annex 1 reefs
- Serpulid aggregations
- Serpulid aggregations
- Flame shell beds
- Common skate
- Northern Featherstar

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Figure D5: Approaches 1 and 2 – Measures for Loch Sunart

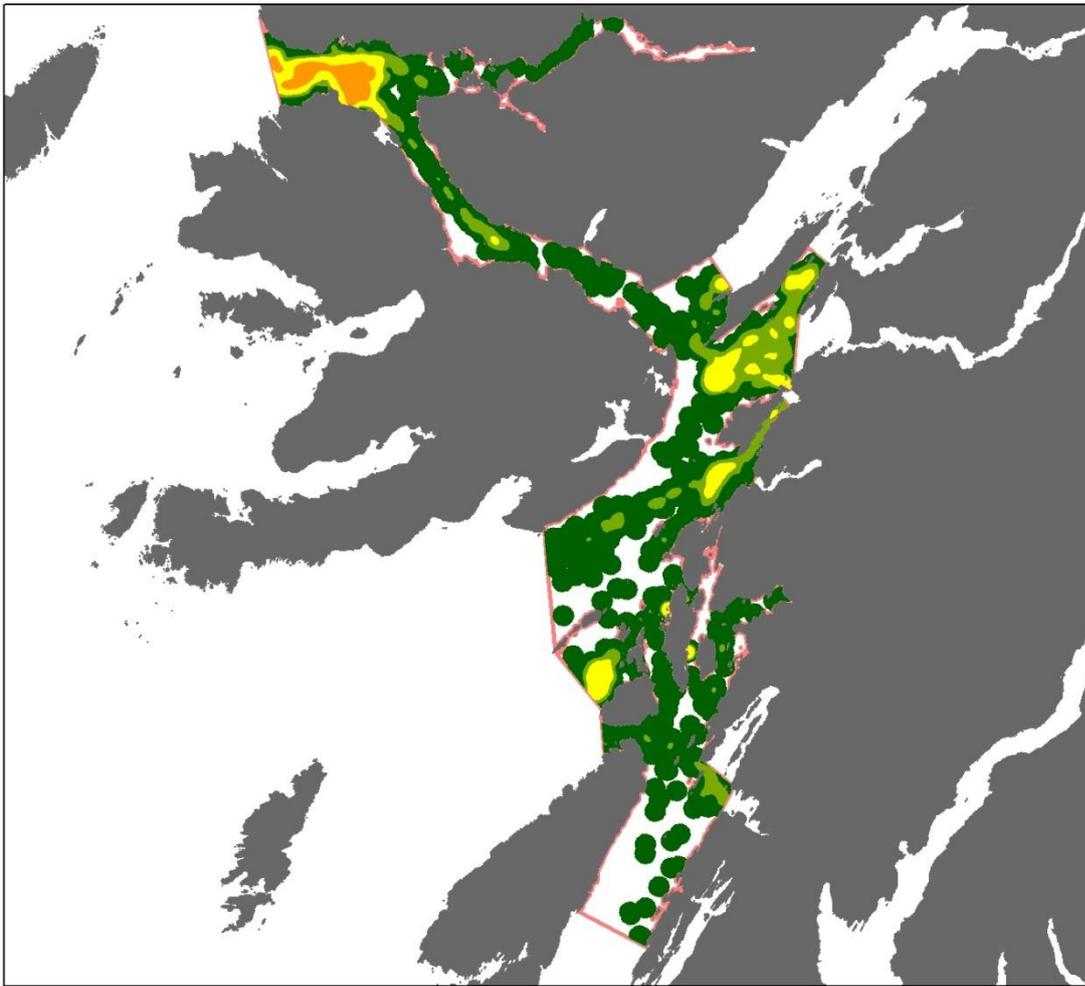


**Loch Sunart to Sound of Jura MPA
 Incorporating Loch Sunart MPA and Loch Sunart SAC**

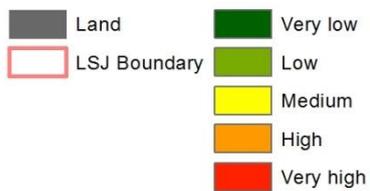
- | | | | | | |
|--|--------------------------------------|--|-----------------------|--|---------------|
| | Land | | Flame shell beds | | Annex 1 reefs |
| | LSJ Boundary | | Serpulid aggregations | | |
| | LSU Boundary | | | | |
| | Proposed no take zone - Loch Teacuis | | | | |
| | Serpulid aggregations | | | | |
| | Flame shell beds | | | | |
| | Common skate | | | | |
| | Northern Featherstar | | | | |

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Figure D6: Approaches 1 and 2 – Measures in Loch Teacuis

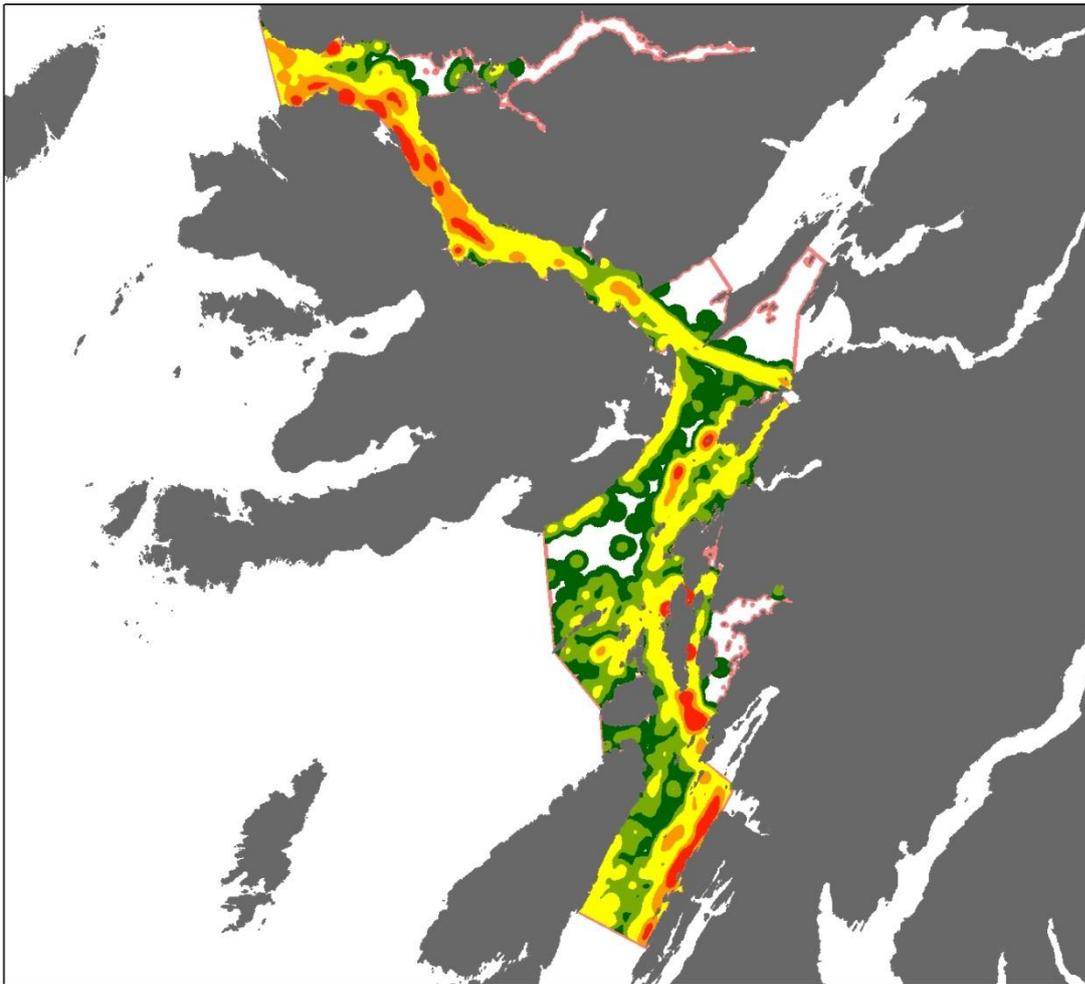


Loch Sunart to Sound of Jura MPA Incorporating Loch Sunart MPA and Loch Sunart SAC
Showing nephrops trawl VMS density (2007 - 13)

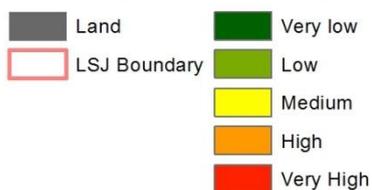


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Figure D7: Nephrops trawl VMS density (2007-13)

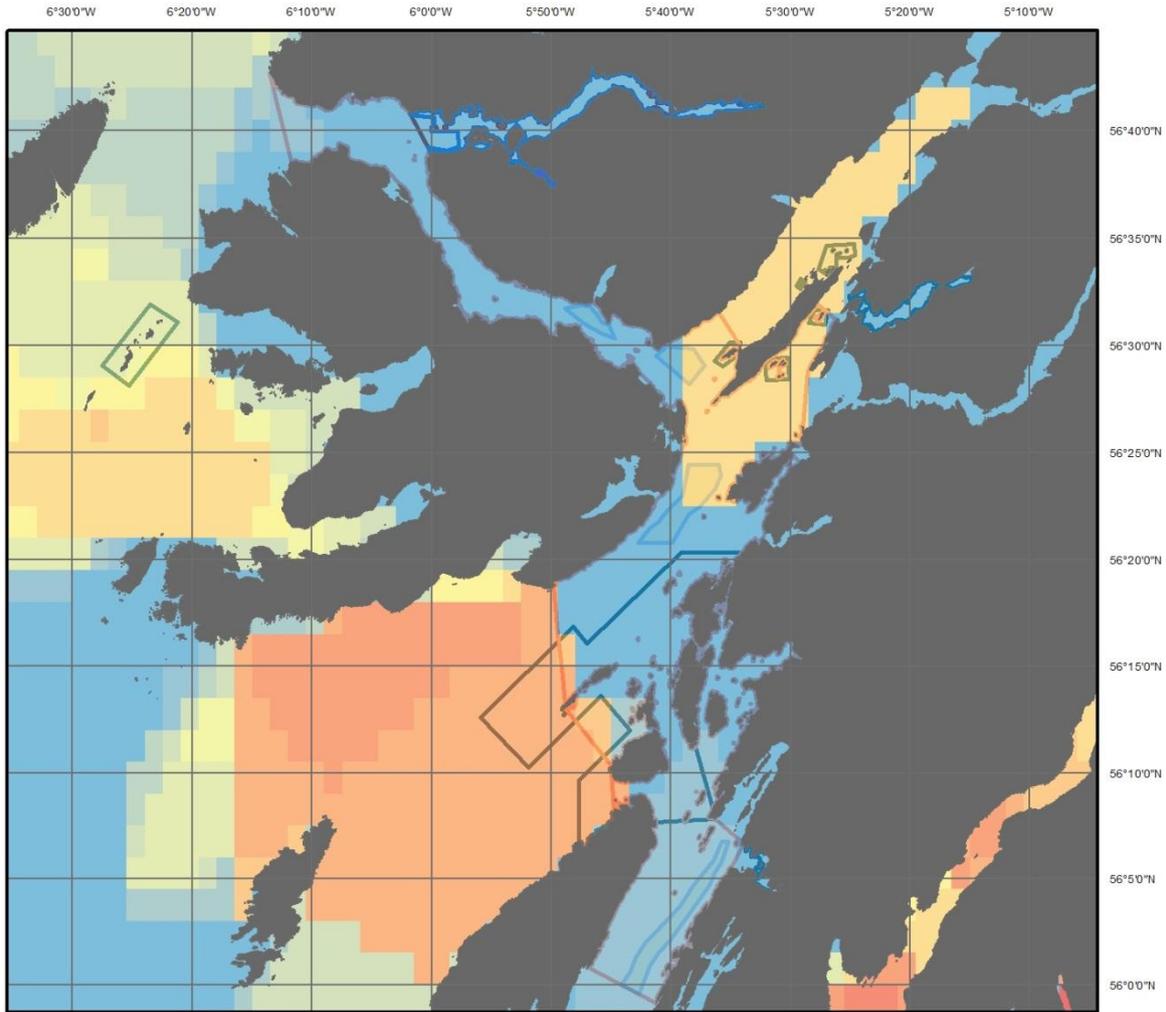


Loch Sunart to Sound of Jura MPA Incorporating Loch Sunart MPA and Loch Sunart SAC
Showing scallop dredge VMS density (2007 - 13)



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Figure D8: Scallop dredge VMS density (2007-13)



**Loch Sunart to Sound of Jura MPA
Incorporating Loch Sunart MPA
and Loch Sunart SAC**

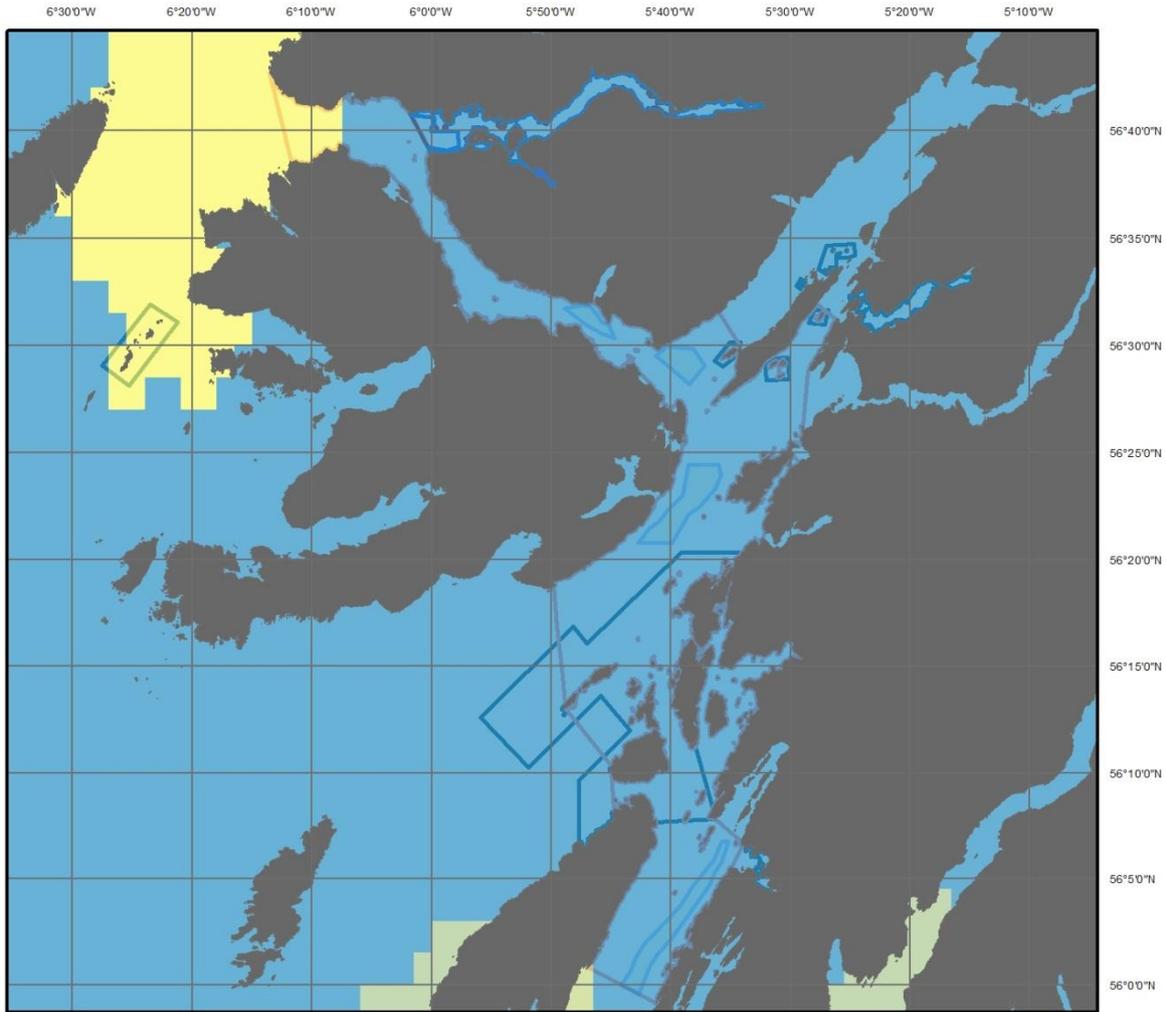
- Land
- SAC Boundary
- LSU Boundary
- LSJ Boundary
- Proposed no take zone - Loch Teacuis
- Proposed no demersal mobile gear
- No demersal mobile gear east of this line

SCOTMAP (2007-2011) Nephrops trawl value

- 0 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- 200 - 350
- 350 - 450
- 450 - 600
- 600 - 750
- 750 - 950
- 950 - 1,200
- 1,200 - 1,500
- 1,500 - 2,100
- 2,100 - 4,000
- 4,000 - 21,814

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Standard Parallel: 56°N Scale 1:500,000

Figure D9: SCOTMAP (2007-11) Nephrops trawl value



**Loch Sunart to Sound of Jura MPA
Incorporating Loch Sunart MPA
and Loch Sunart SAC**

- Land
- SAC Boundary
- LSU Boundary
- LSJ Boundary
- Proposed no take zone - Loch Teacuis
- Proposed no demersal mobile gear
- No demersal mobile gear east of this line

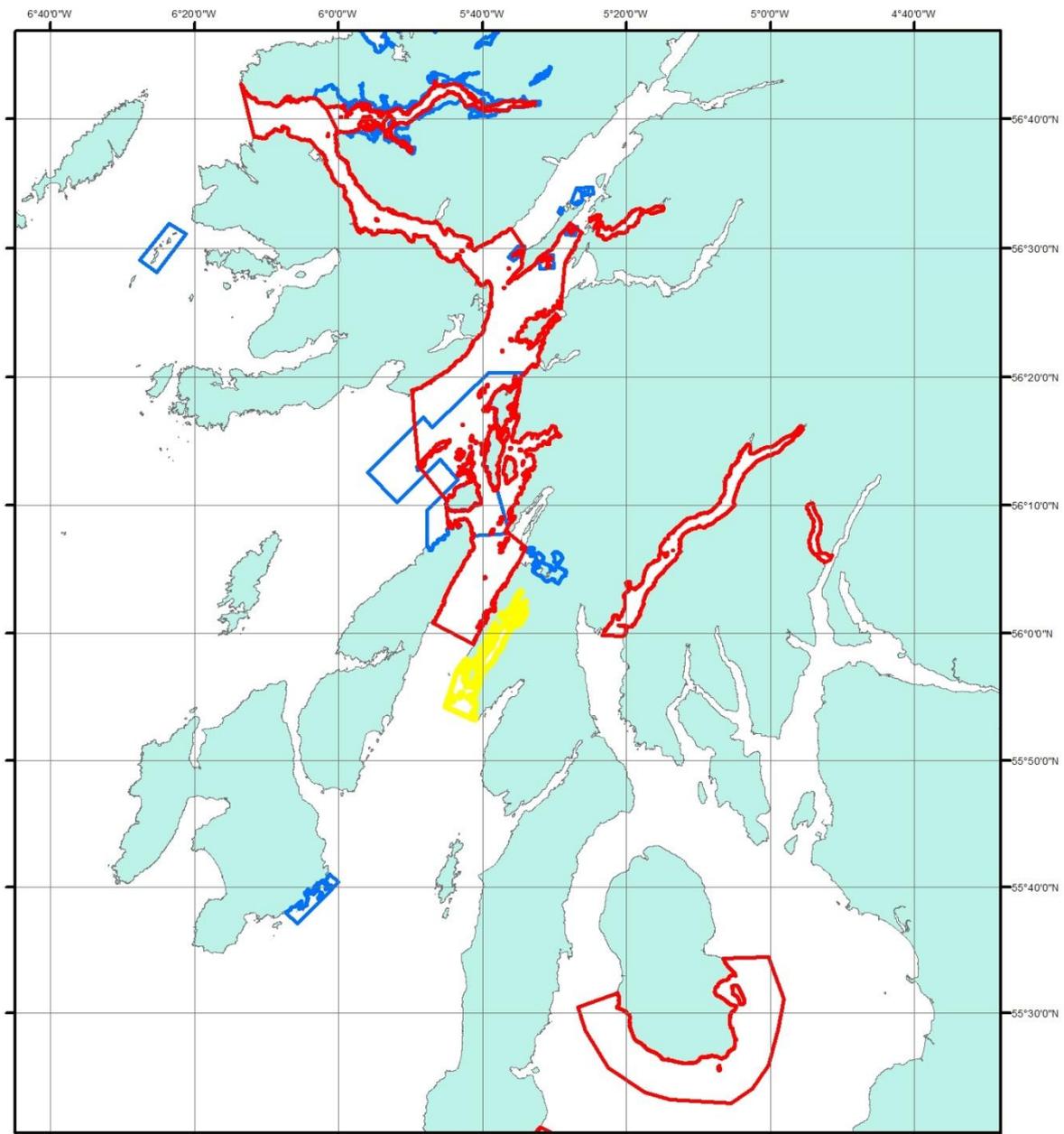
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SCOTMAP (2007-2011) Scallop dredge value

- 0 - 25
- 25 - 50
- 50 - 75
- 75 - 100
- 100 - 125
- 125 - 150
- 150 - 175
- 175 - 200
- 200 - 300
- 300 - 430
- 430 - 550
- 550 - 700
- 700 - 750
- 750 - 1,275
- 1,275 - 6,450

Figure D10: SCOTMAP (2007-11) Scallop dredge value

Protected Area E – Loch Sween MPA

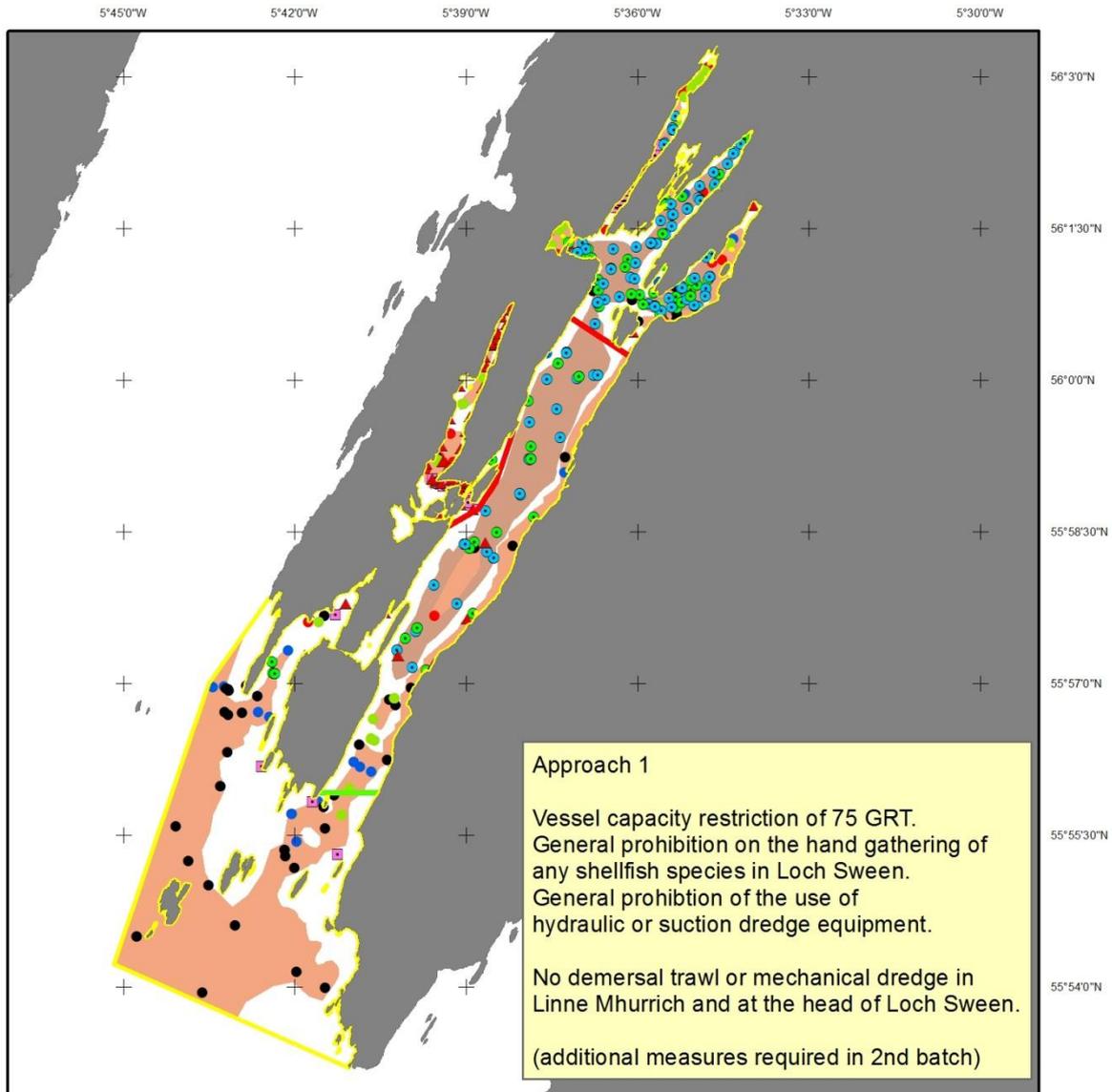


Loch Sween MPA Spatial relationship with other protected areas

-  Land
-  Loch Sween MPA
-  NC MPA
-  Inshore SAC

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Figure E1 – Loch Sween MPA with other nearby protected areas

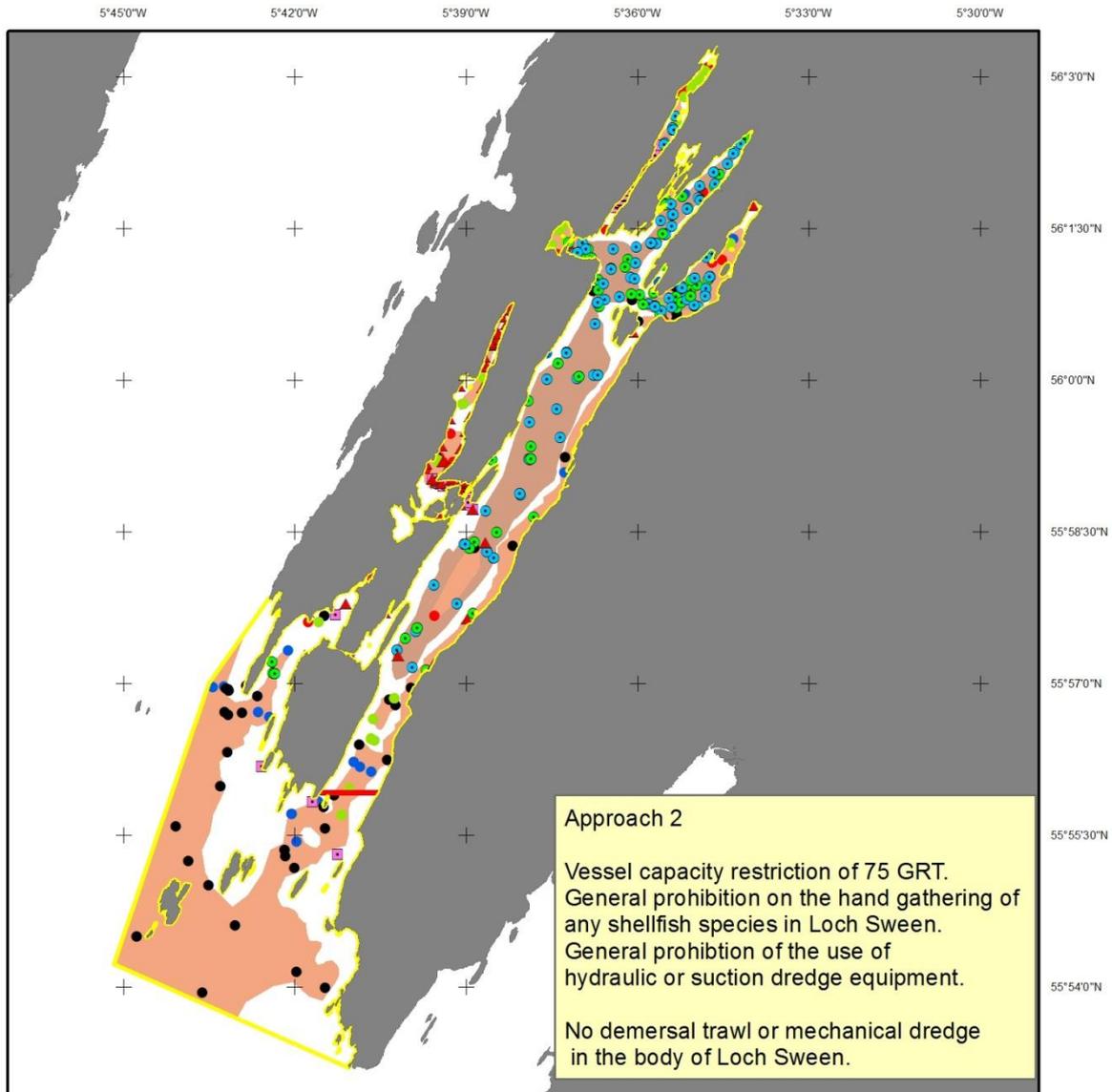


Loch Sween MPA

- Land
- MPA boundary
- No hand gathering of shellfish north of this line
- No demersal mobile gear
- Mud volcano worm
- Seapens and / or burrowing megafauna
- Maerl beds
- Circolittoral mixed sediment (SS.SMx.CMx - A5.44)
- Infralittoral fine mud (SS.SMu.IFiMu - A5.34)
- Infralittoral mixed sediment (SS.SMx.IMx - A5.43)
- Infralittoral sandy mud (SS.SMu.ISaMu - A5.33)
- Burrowed mud
- Maerl beds
- Sublittoral mud and mixed sediment communities

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 Projection: Mercator Datum: WGS 1984 Standard Parallel: 56°N Scale 1:100,000

Figure E2: Map showing measures proposed under approach 1

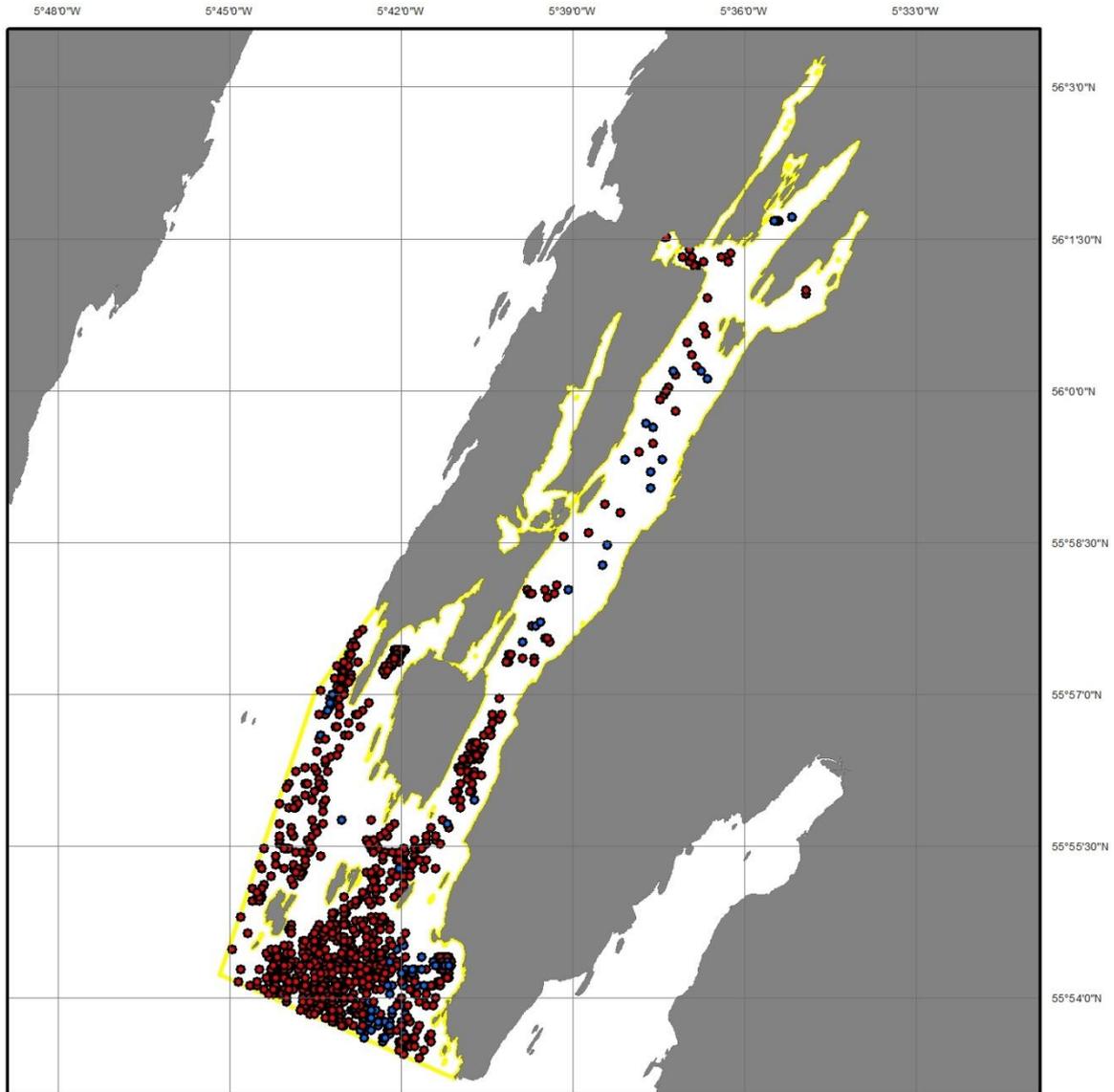


Loch Sween MPA

- | | |
|--|---|
| ■ Land | ● Circalittoral mixed sediment (SS.SMx.CMx - A5.44) |
| ■ MPA boundary | ● Infralittoral fine mud (SS.SMu.IFiMu - A5.34) |
| ■ No demersal mobile gear | ● Infralittoral mixed sediment (SS.SMx.IMx - A5.43) |
| ● Mud volcano worm | ● Infralittoral sandy mud (SS.SMu.ISaMu - A5.33) |
| ● Seapens and / or burrowing megafauna | ■ Burrowed mud |
| ■ Maerl beds | ■ Maerl beds |
| | ■ Sublittoral mud and mixed sediment communities |

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Figure E3: Map showing measures proposed under approach 2



Loch Sween MPA

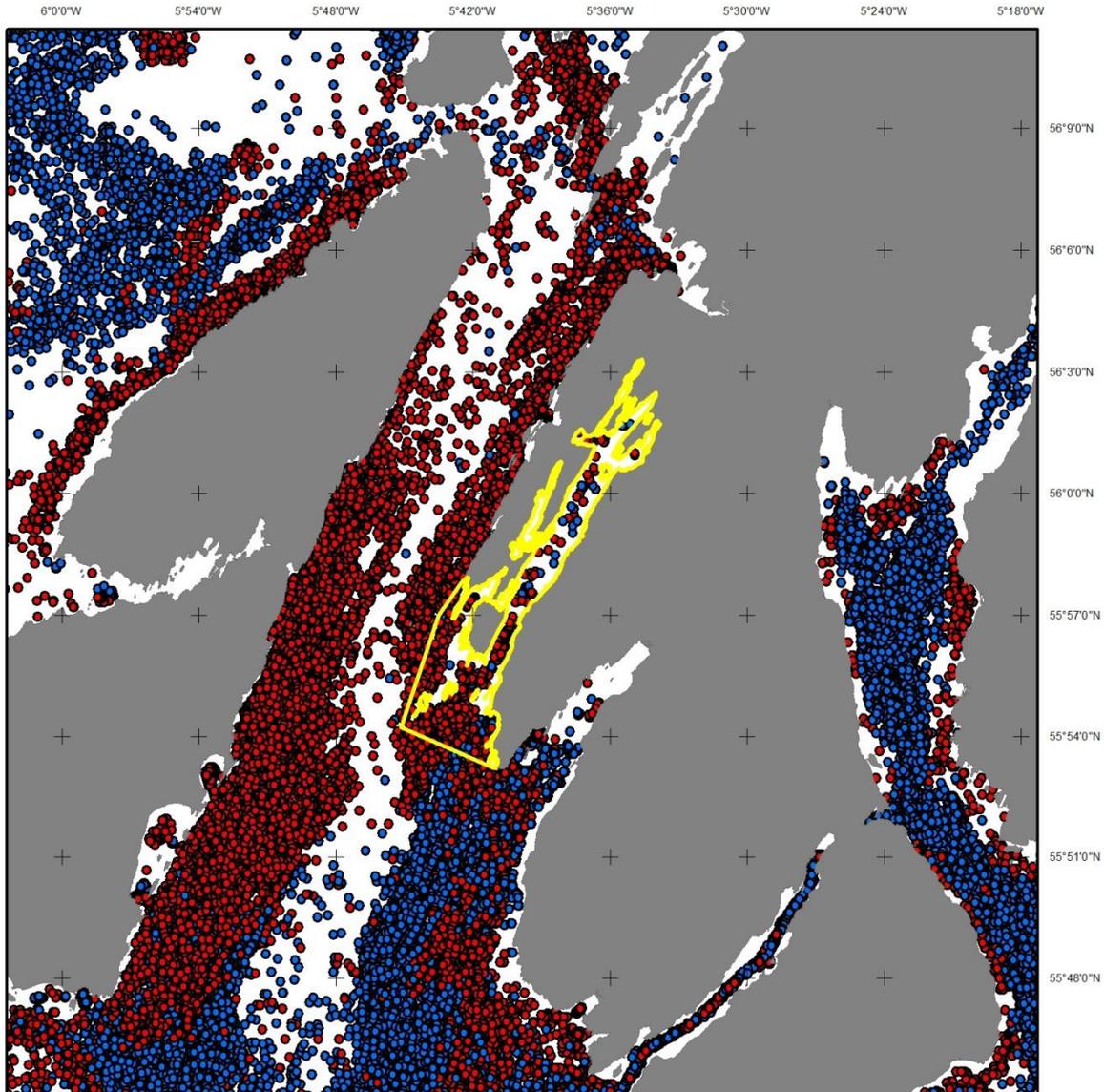
- Land
- MPA boundary

Loch Sween VMS data 2007 - 2013

- Nephrops Trawls
- Dredge

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Figure E4: VMS data in Loch Sween MPA 2007-2013

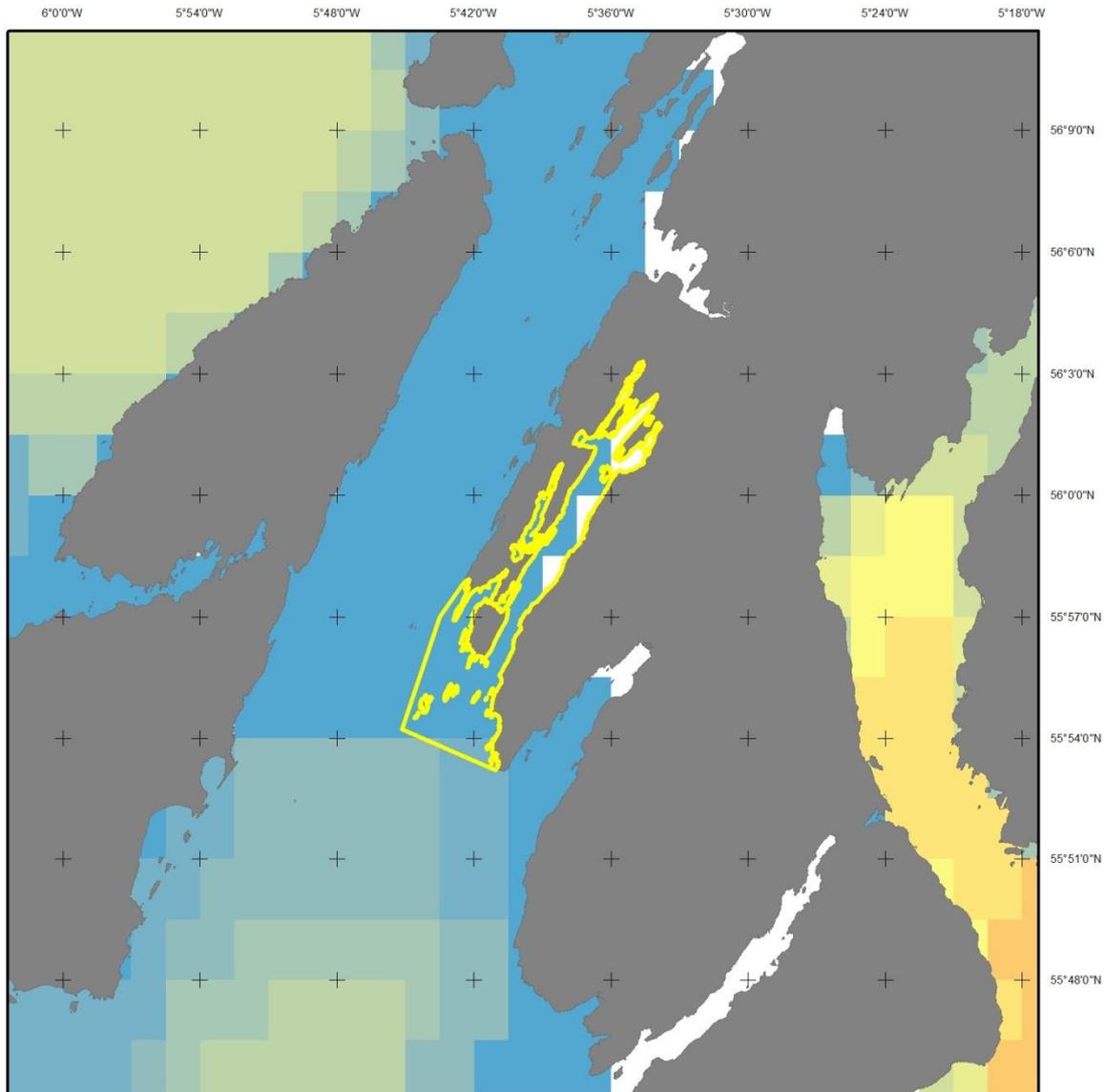


**Loch Sween MPA
distribution of VMS data (trawl and dredge) from 2007 to 2013**



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 Standard Parallel: 56°N Scale 1:250,000

Figure E5: VMS data in Loch Sween MPA and beyond 2007-2013



Loch Sween MPA

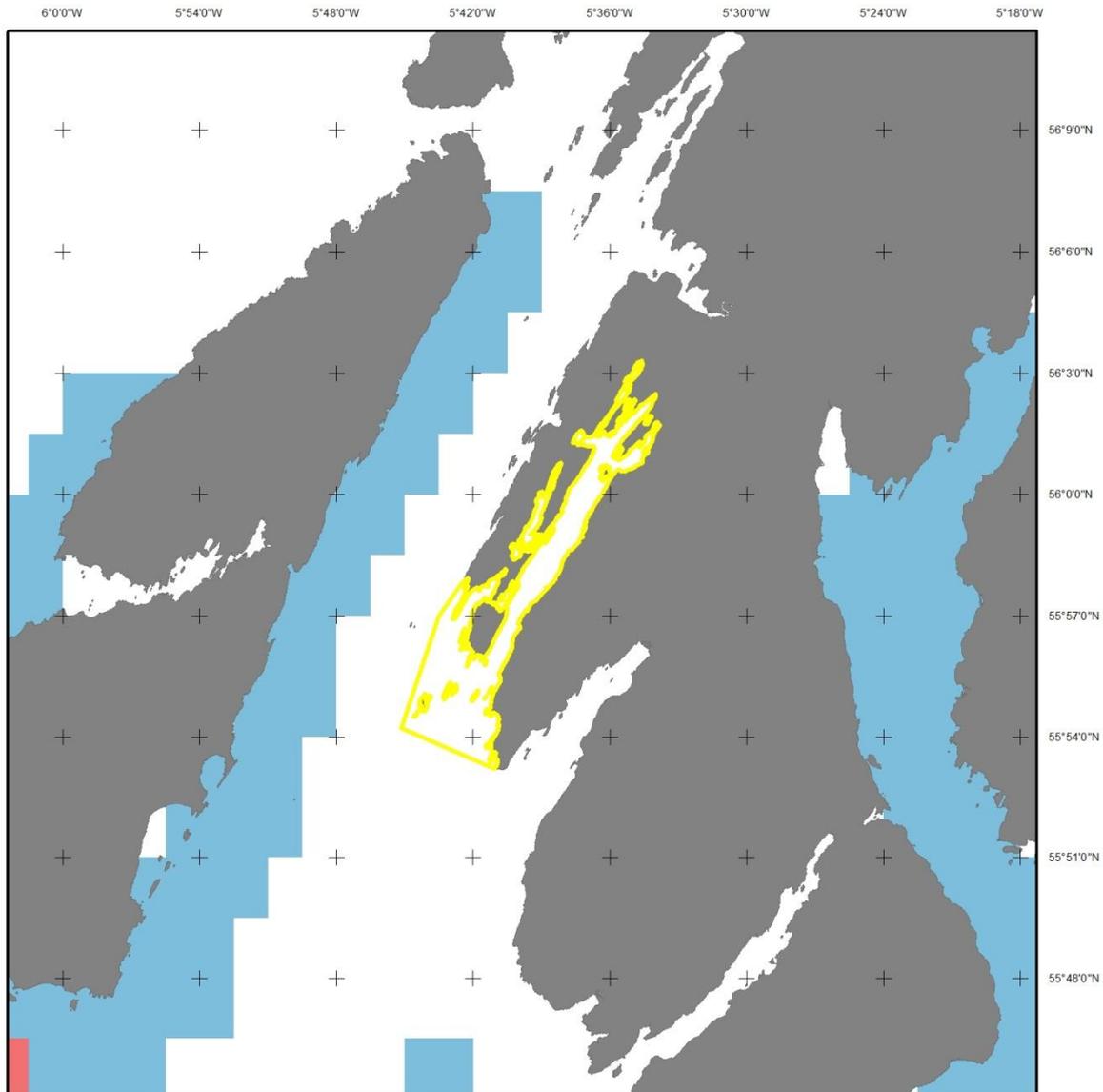
-  MPA boundary
-  Land

SCOTMAP (2007 - 2011) Nephrops trawl - number of vessels

-  1-3
-  4
-  5
-  6
-  7
-  8
-  9
-  10
-  11-12
-  13-14
-  15-16
-  17-18
-  19-21
-  22-26
-  27-44

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 Projection: Mercator Datum: WGS 1984
 Standard Parallel: 56°N Scale 1:250,000

Figure E6: SCOTMAP (2007-11) Nephrops trawl vessels



Loch Sween MPA

- MPA boundary
- Land

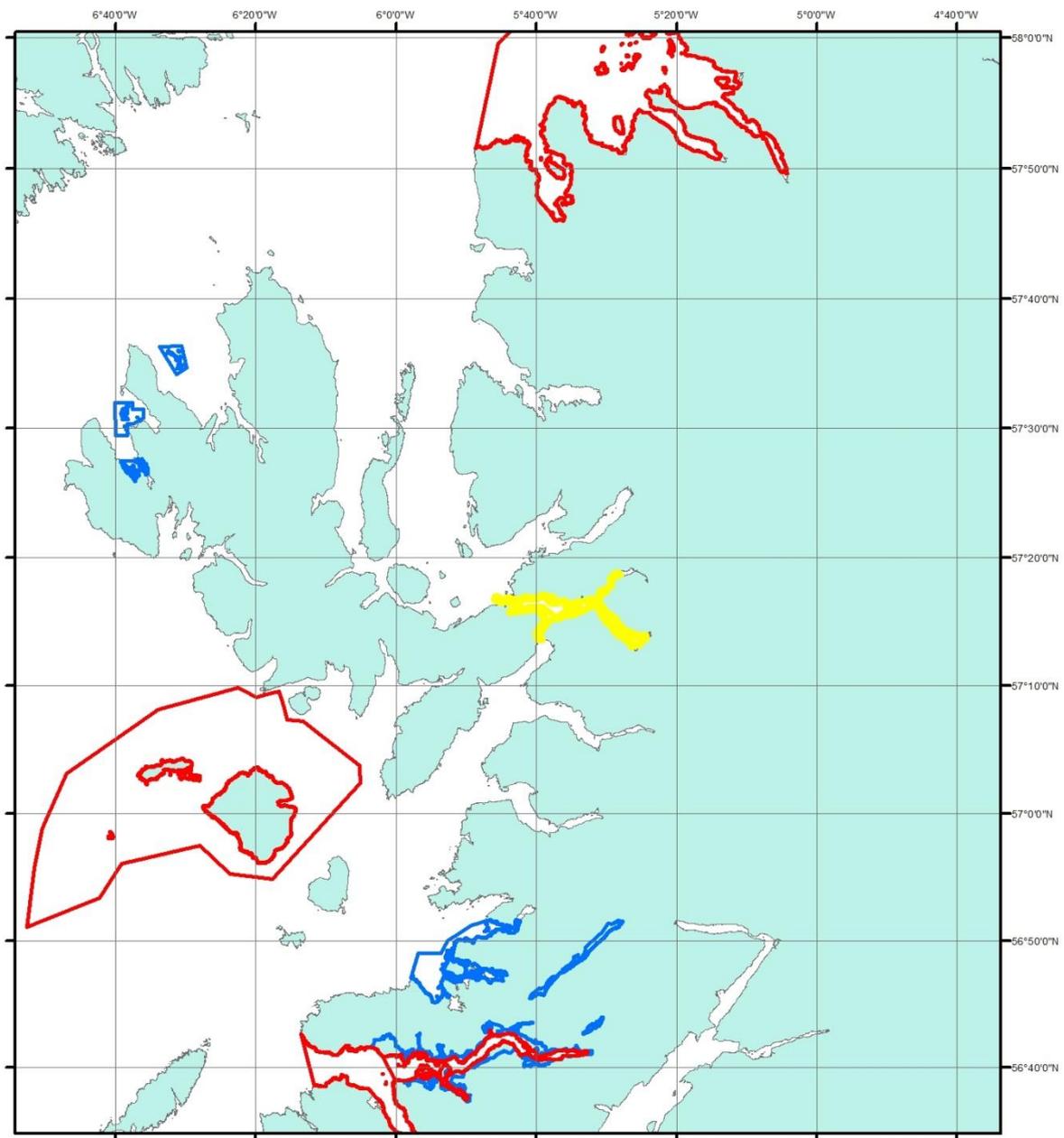
SCOTMAP (2007 - 2011) Scallop Dredge - number of vessels

- 3
- 3 - 5

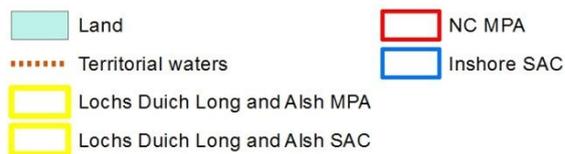
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 Standard Parallel: 56°N Scale 1:250,000

Figure E7: SCOTMAP (2007-11) Scallop dredge vessels

Protected Area F – Lochs Duich Long & Alsh MPA / SAC

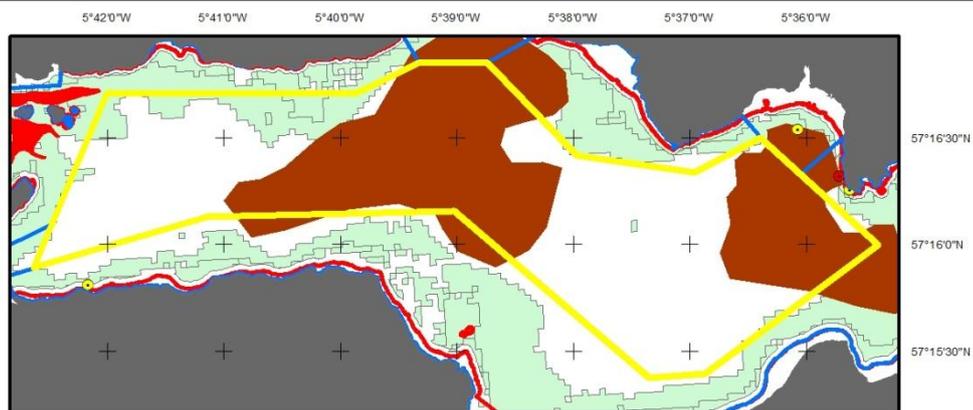
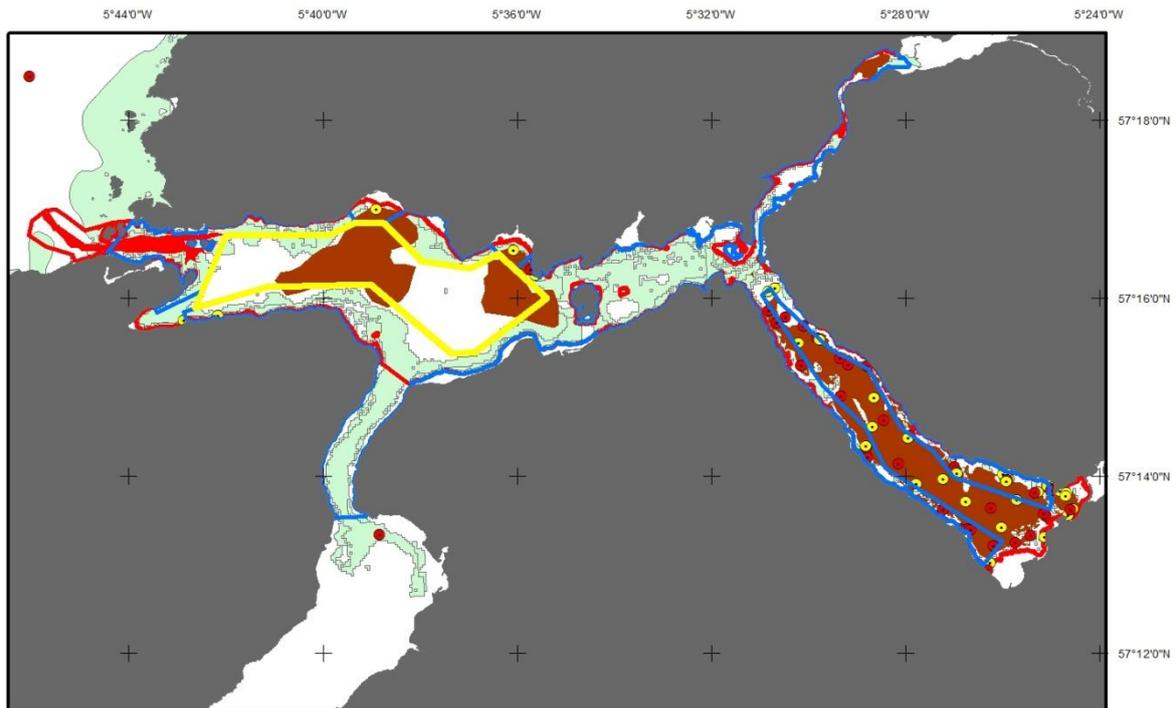


Lochs Duich Long and Alsh MPA / SAC Spatial relationship with other protected areas



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Projection: Mercator Datum: WGS 1984 Standard Parallel: 57°N Scale 1:750,000

Figure F1: Lochs Duich Long & Alsh SAC / MPA with other protected areas



Lochs Duich Long & Alsh SAC / MPA

- Land
- SAC Boundary
- MPA boundary
- Existing Fishing Area
- Annex 1 reef
- Fireworks anemone, Burrowed mud
- Tall seapen
- Burrowed mud
- Flame shell beds

Approach 1

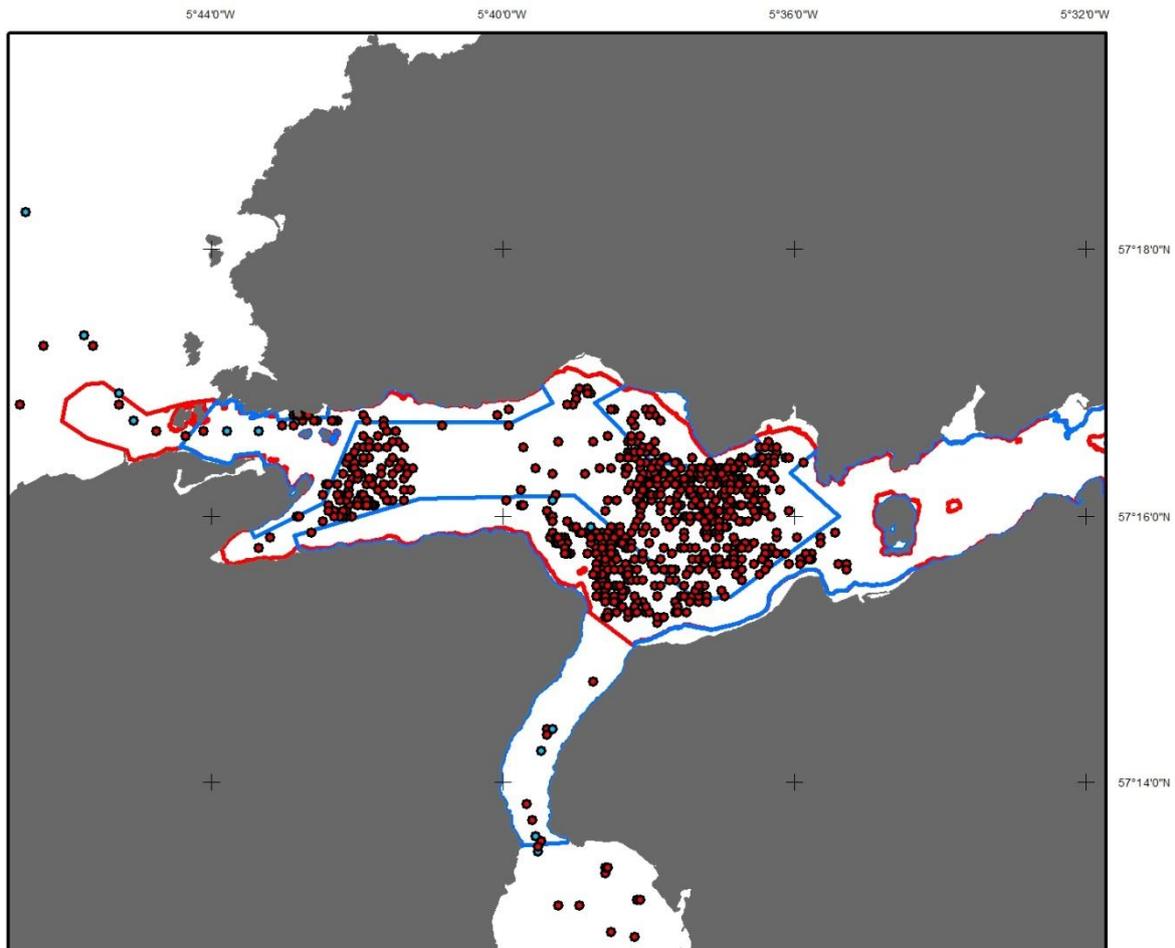
Suction and hydraulic dredging would be prohibited throughout the SAC and MPA

The existing seasonal closure throughout the area would remain in place.

During the 1 April to 30 September demersal trawling and mechanical dredging would only be permitted in the Existing Fishing Area.

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Figure F2: Lochs Duich Long & Alsh management approach 1

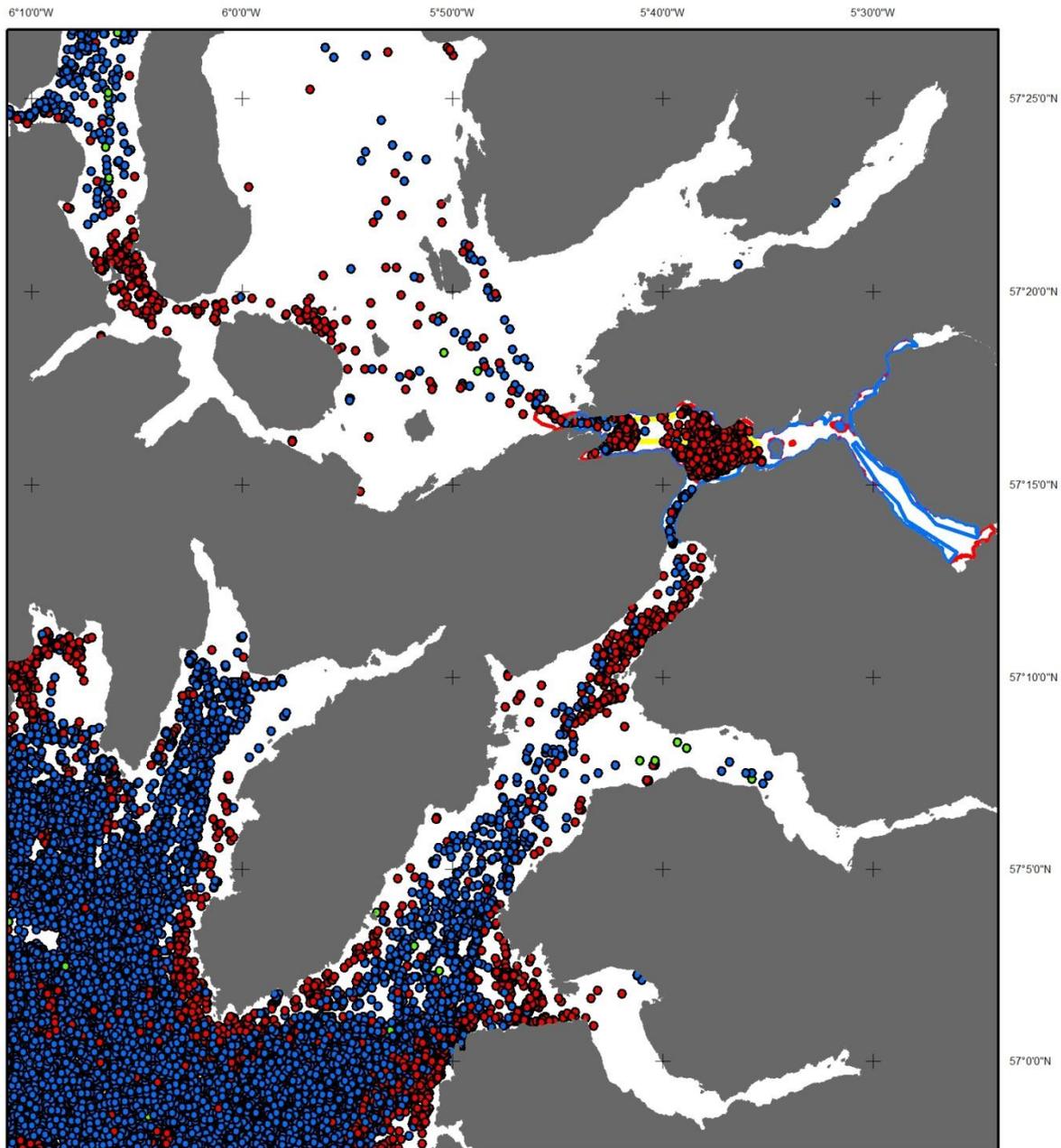


**Lochs Duich Long & Alsh SAC / MPA
Showing VMS data (2007 - 2013)**

- Land
- SAC Boundary
- MPA boundary
- Trawls
- Dredge

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Projection: Mercator Datum: WGS 1984 Standard Parallel: 57°N Scale 1:80,000

Figure F3: VMS data from 2007 to 2013 in Lochs Duich Long & Alsh



Lochs Duich Long & Alsh SAC / MPA
Fishing grounds in the wider area based on VMS data from 2007 - 2013

- | | |
|-----------------------|--------|
| Land | Trawls |
| Existing Fishing Area | Static |
| SAC Boundary | Dredge |
| MPA boundary | |

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Figure F4: VMS data from 2007 to 2013 showing fishing grounds near Lochs Duich Long & Alsh

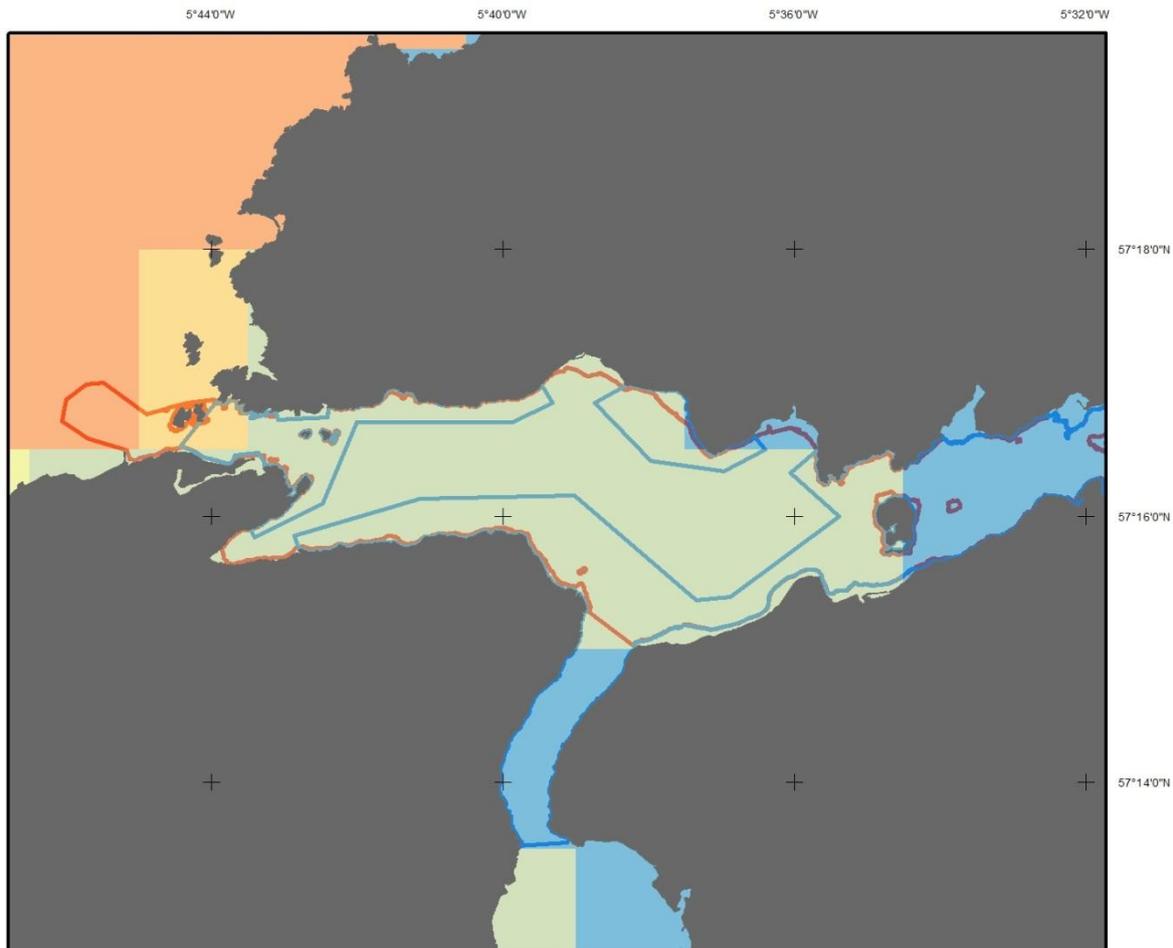


**Lochs Duich Long & Aish SAC / MPA
Showing SCOTMAP (2007 - 2011) Scallop dredge value**

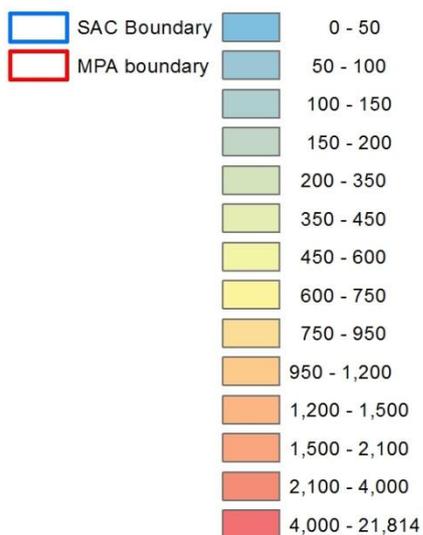


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 Projection: Mercator Datum: WGS 1984
 Standard Parallel: 57°N Scale 1:80,000

Figure F5: SCOTMAP (2007-11) Scallop dredge value

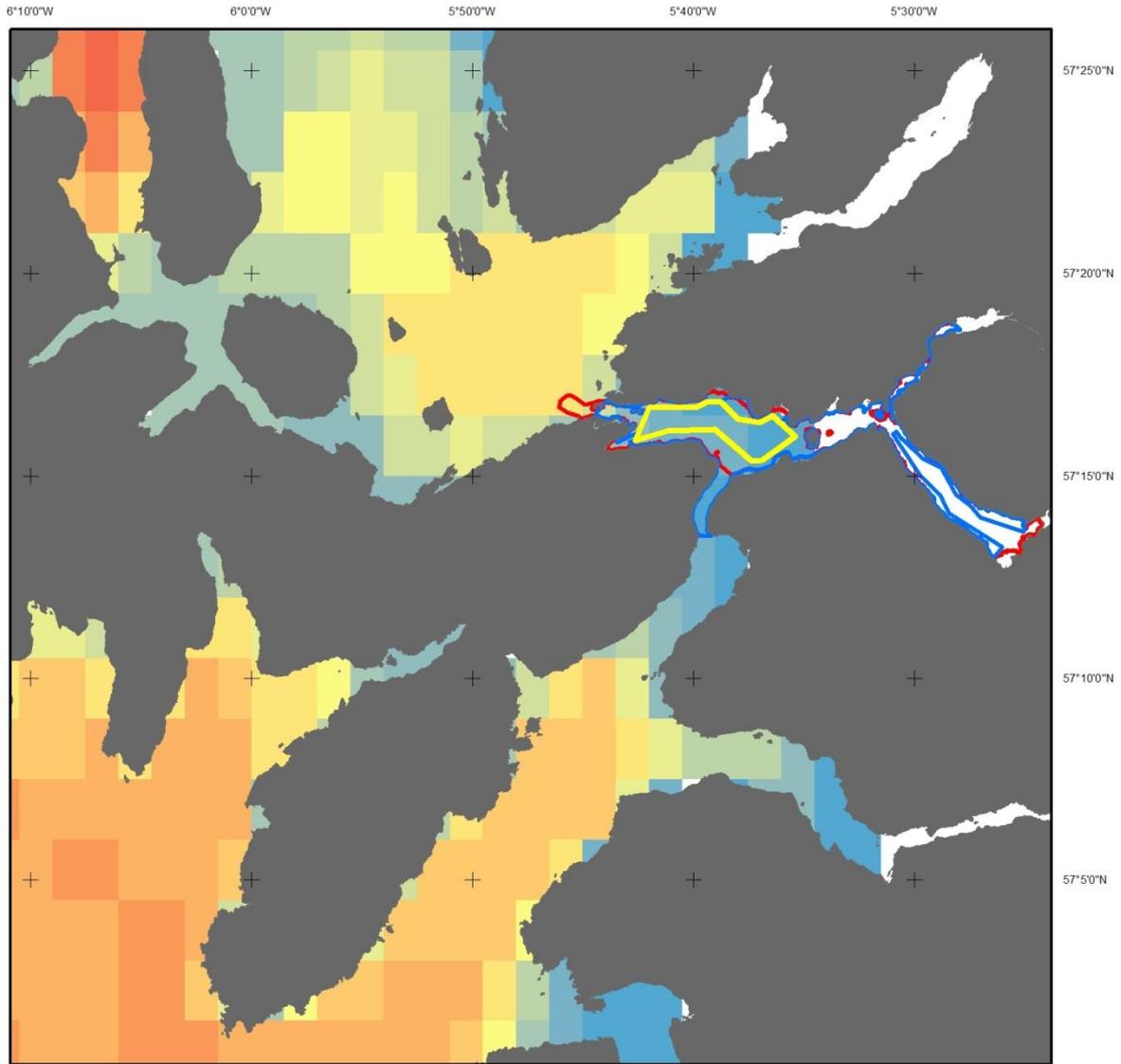


**Lochs Duich Long & Aish SAC / MPA
Showing SCOTMAP (2007 - 2011) Nephrops trawl value**

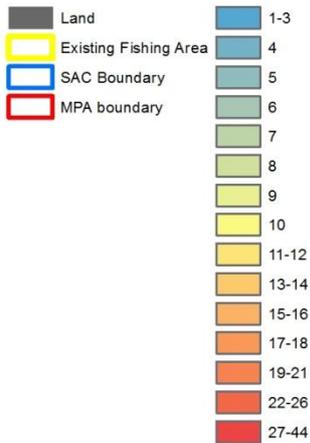


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 Standard Parallel: 57°N Scale 1:80,000

Figure F6: SCOTMAP (2007-11) Nephrops trawl value



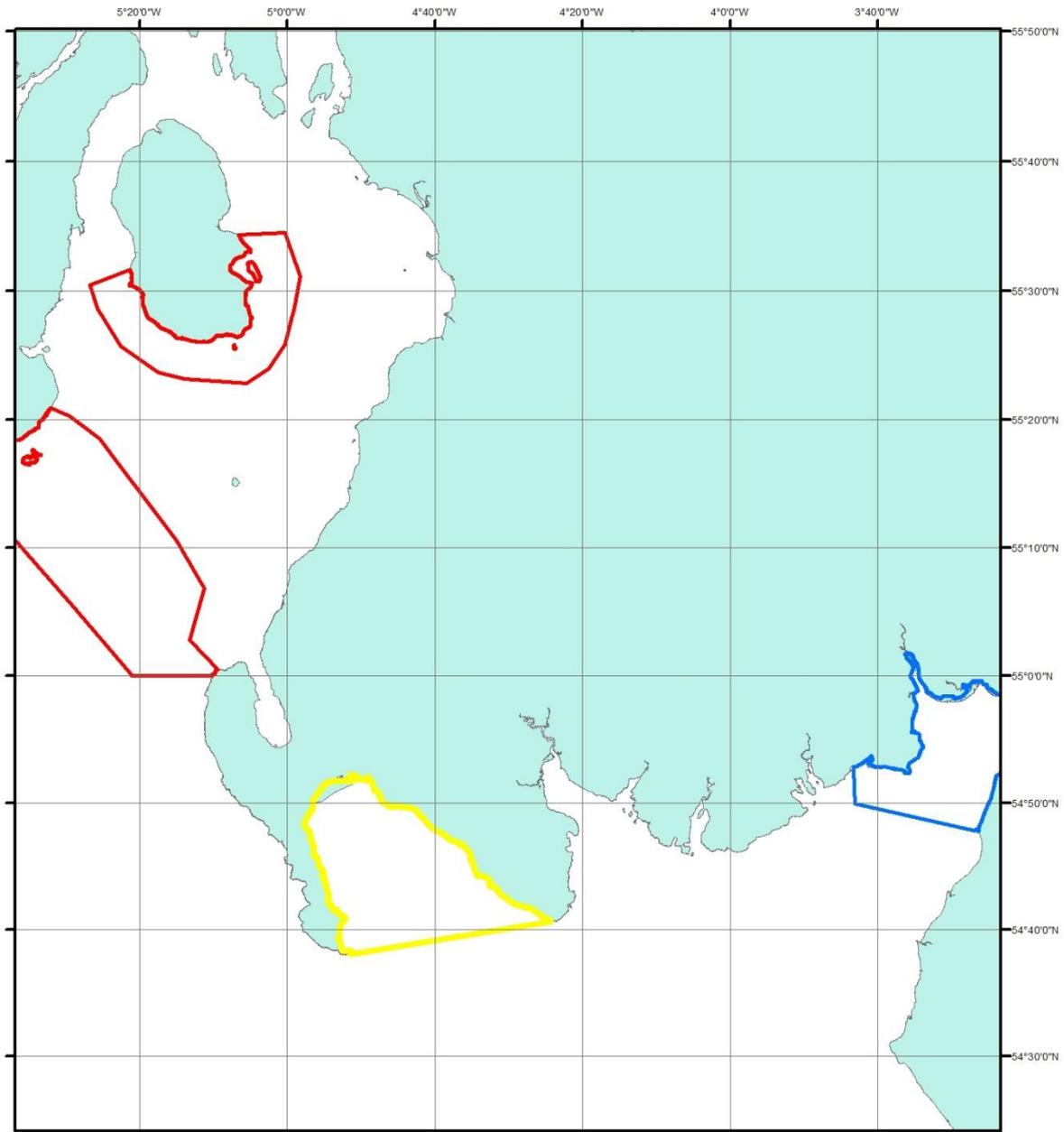
Lochs Duich Long & Aish SAC / MPA
Nephrops trawl grounds in the wider area based on SCOTMAP data from 2007 - 2011



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 Using Geodatabase of Marine Features
 Adjacent to Scotland (GEMS i12 - May 2014).
 Projection: Mercator Datum: WGS 1984
 Standard Parallel: 57°N Scale 1:250,000

Figure F7: SCOTMAP (2007-11) Nephrops trawl vessels in wider area

Protected Area G – Luce Bay & Sands SAC

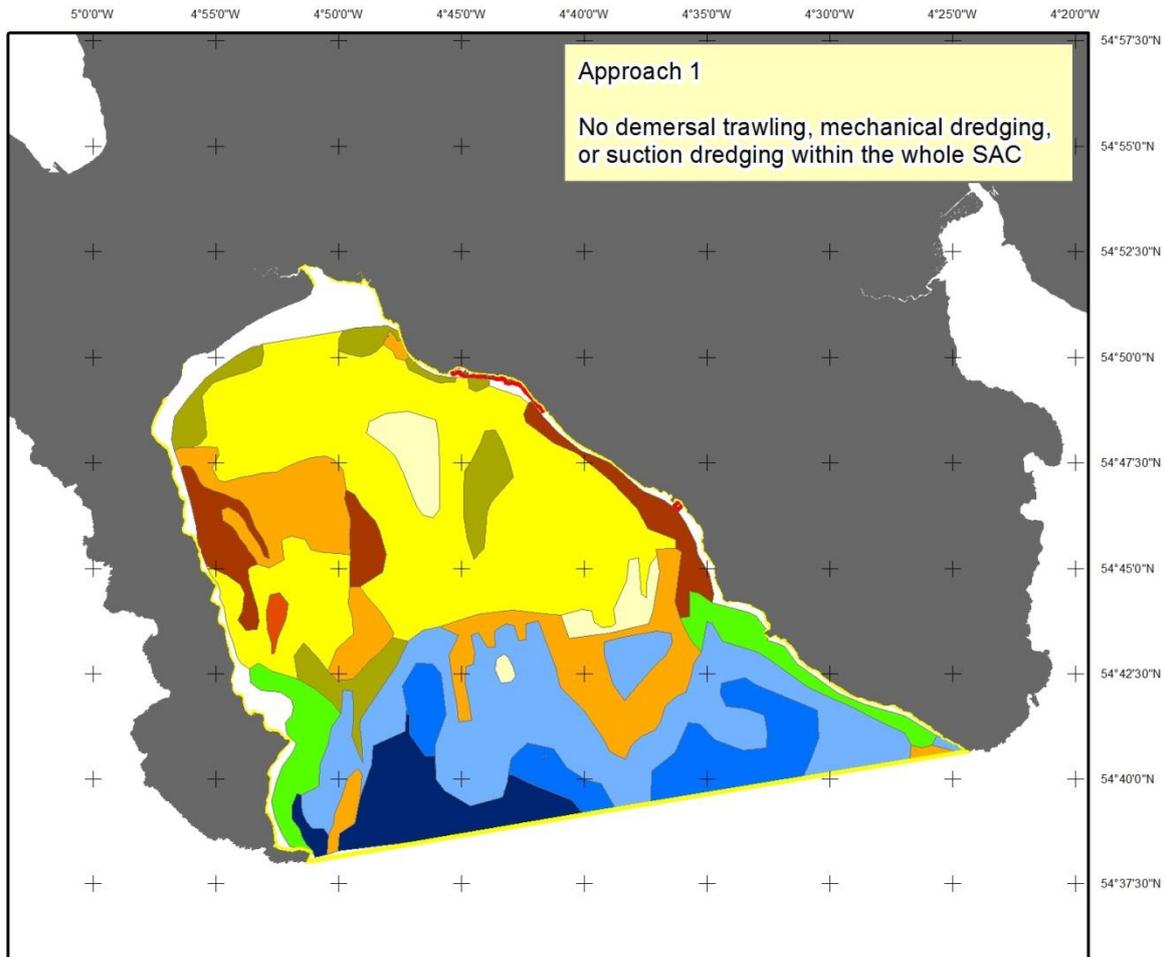


Luce Bay & Sands SAC Spatial relationship with other protected areas

-  Land
-  Luce Bay and Sands SAC
-  NC MPA
-  Inshore SAC

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Projection: Mercator Datum: WGS 1984 Standard Parallel: 55°N Scale 1:750,000

Figure G1: Luce bay and Sands SAC along with nearby protected areas.

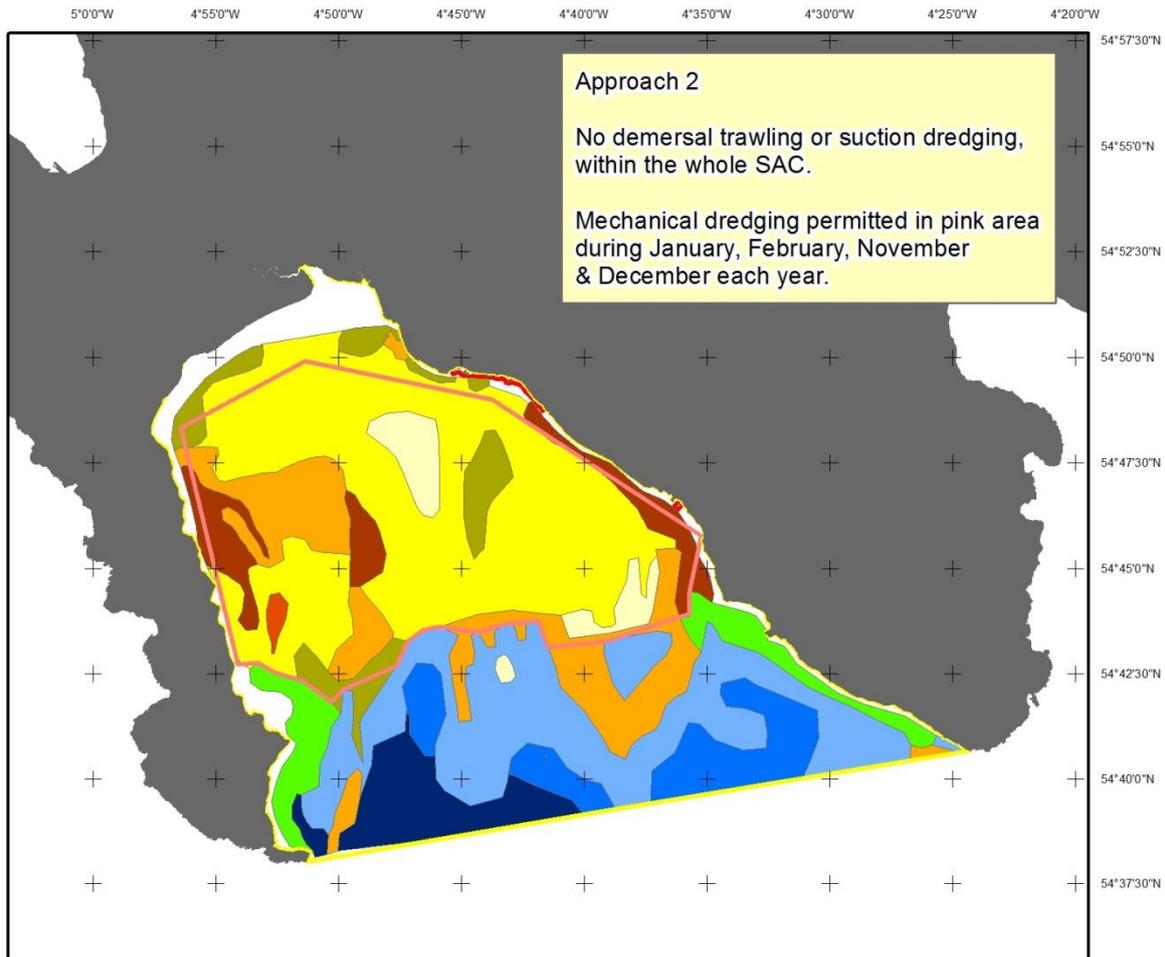


Luce Bay and Sands SAC

- Land
- Luce Bay and Sands SAC
- Sabellaria reef area
- Sabellaria reef
- Infralittoral coarse sediment
- Moerella spp. with venerid bivalves in infralittoral gravelly sand
- infralittoral mixed sediment
- Arenicola marina in infralittoral fine sand or muddy sand
- Infralittoral muddy sand
- Infralittoral muddy sand or mixed sediment
- Echinoderms and crustose communities
- Faunal and algal crusts on exposed to moderately wave-exposed circalittoral rock
- Circalittoral coarse sediment / Echinoderms and crustose communities
- Laminaria saccharina and red seaweeds on infralittoral sediments

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Figure G2: Map of the measures proposed under Approach 1 for Luce Bay and Sands SAC

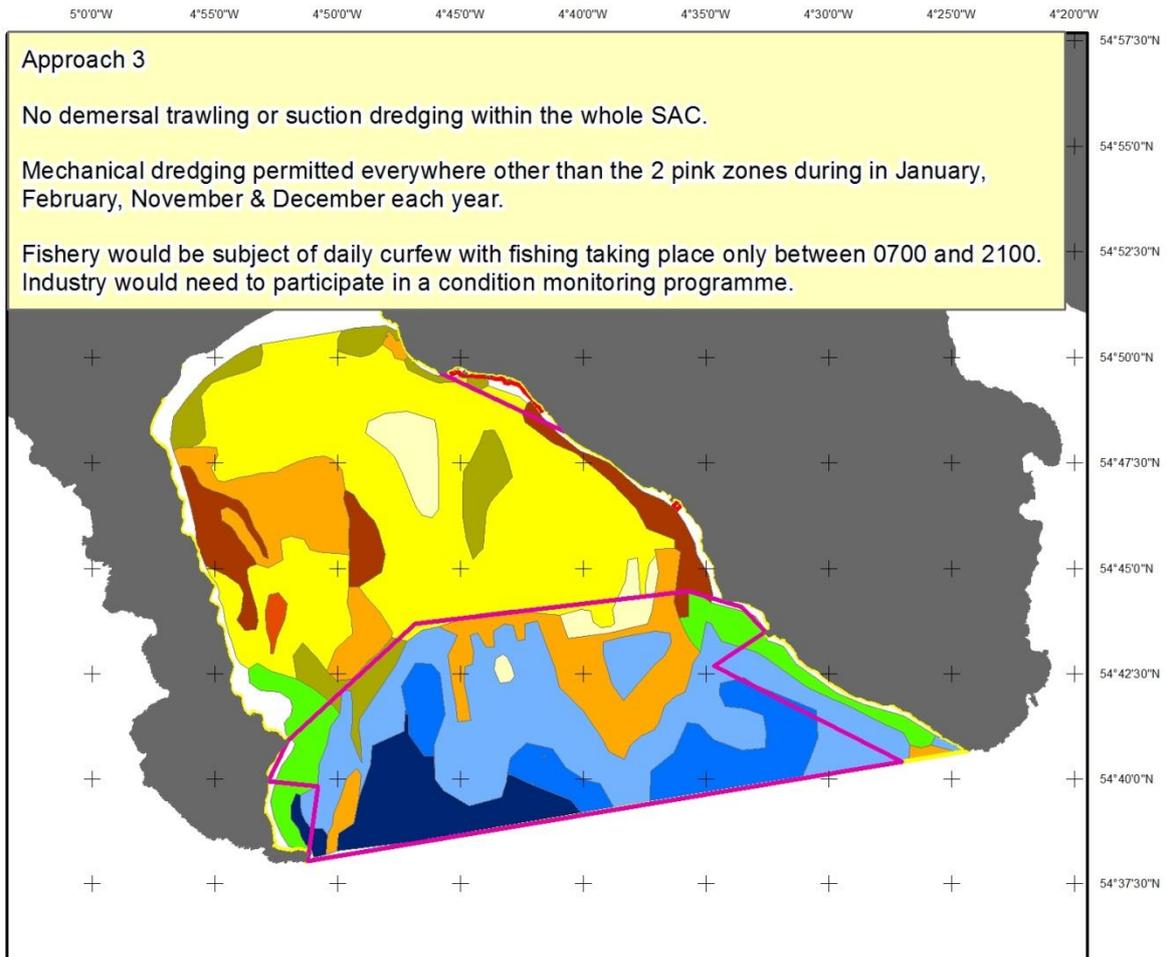


Luce Bay and Sands SAC

- | | |
|------------------------|--|
| Land | Sabellaria reef |
| Luce Bay and Sands SAC | Infralittoral coarse sediment |
| Permitted fishing area | Moerella spp. with venerid bivalves in infralittoral gravelly sand |
| Sabellaria reef area | Infralittoral mixed sediment |
| | Arenicola marina in infralittoral fine sand or muddy sand |
| | Infralittoral muddy sand |
| | Infralittoral muddy sand or mixed sediment |
| | Echinoderms and crustose communities |
| | Faunal and algal crusts on exposed to moderately wave-exposed circalittoral rock |
| | Circalittoral coarse sediment / Echinoderms and crustose communities |
| | Laminaria saccharina and red seaweeds on infralittoral sediments |

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Figure G3: Map of the measures proposed under Approach 2 for Luce Bay and Sands SAC

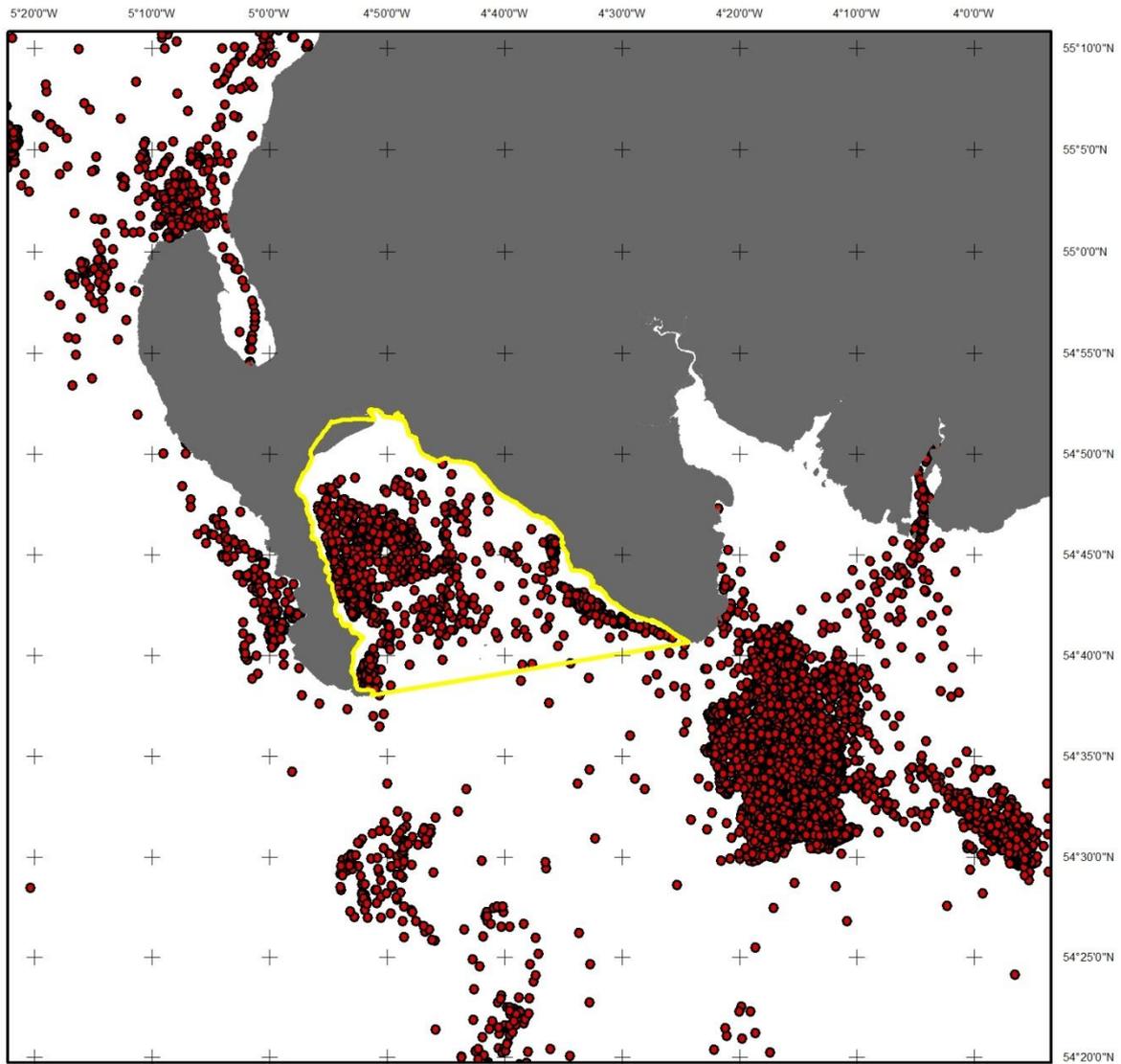


Luce Bay and Sands SAC



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Using additional habitats data provided by Scottish Natural Heritage (August 2014)
Projection: Mercator Datum: WGS 1984 Standard Parallel: 55°N Scale 1:250,000

Figure G4: Map of the measures proposed under Approach 3 for Luce Bay and Sands SAC



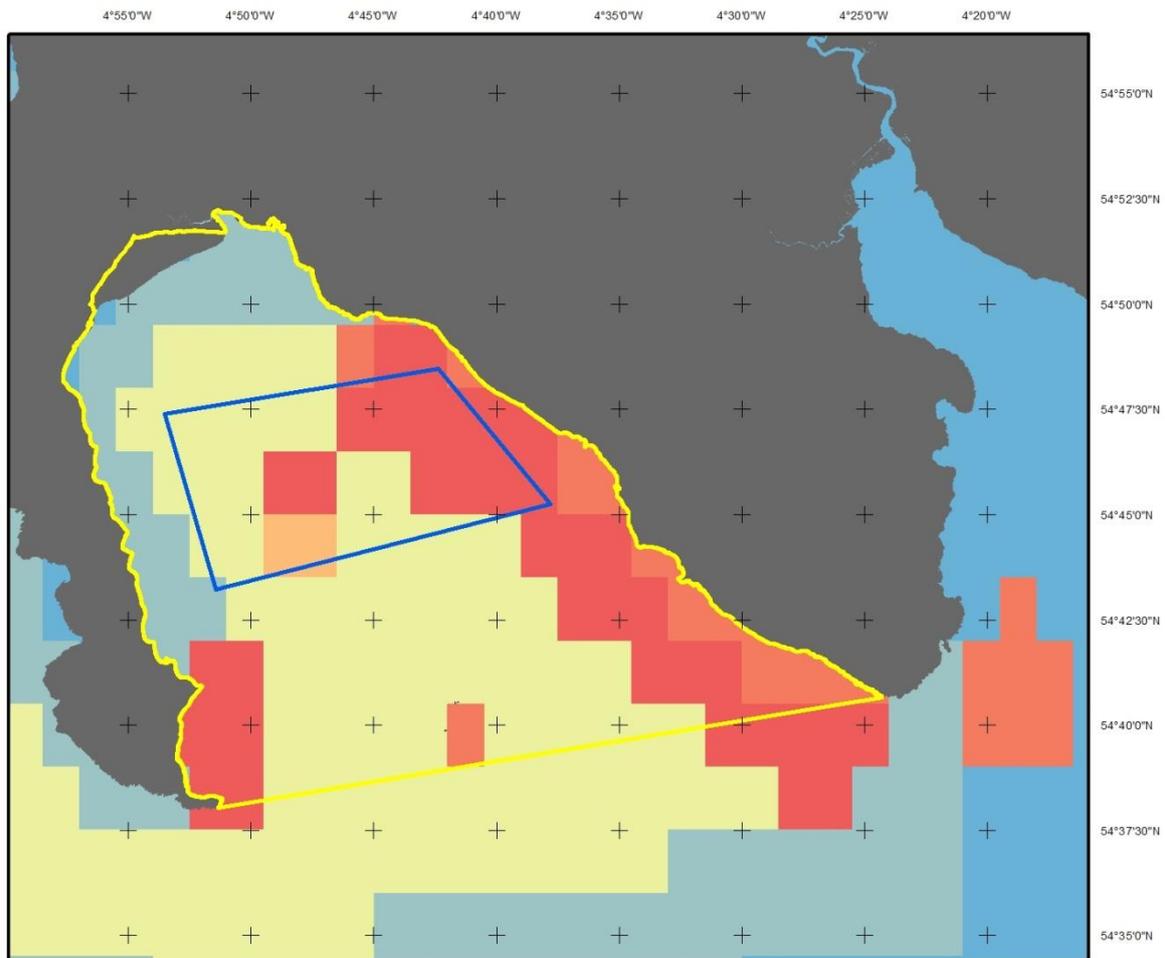
Luce Bay and Sands SAC

- Luce Bay and Sands SAC
- Land

Distribution of scallop dredge VMS during the period 2010 to 2013

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 Using Geodatabase of Marine Features Adjacent to Scotland (GEMS i12 - May 2014).
 Using additional habitats data provided by Scottish Natural Heritage (August 2014)
 Projection: Mercator Datum: WGS 1984 Standard Parallel: 55°N Scale 1:500,000

Figure G5: Scallop dredge VMS data (2010 – 2013) for Luce Bay and the wider area



Luce Bay and Sands SAC

- Luce Bay and Sands SAC
- Land
- Luce_zonal_management

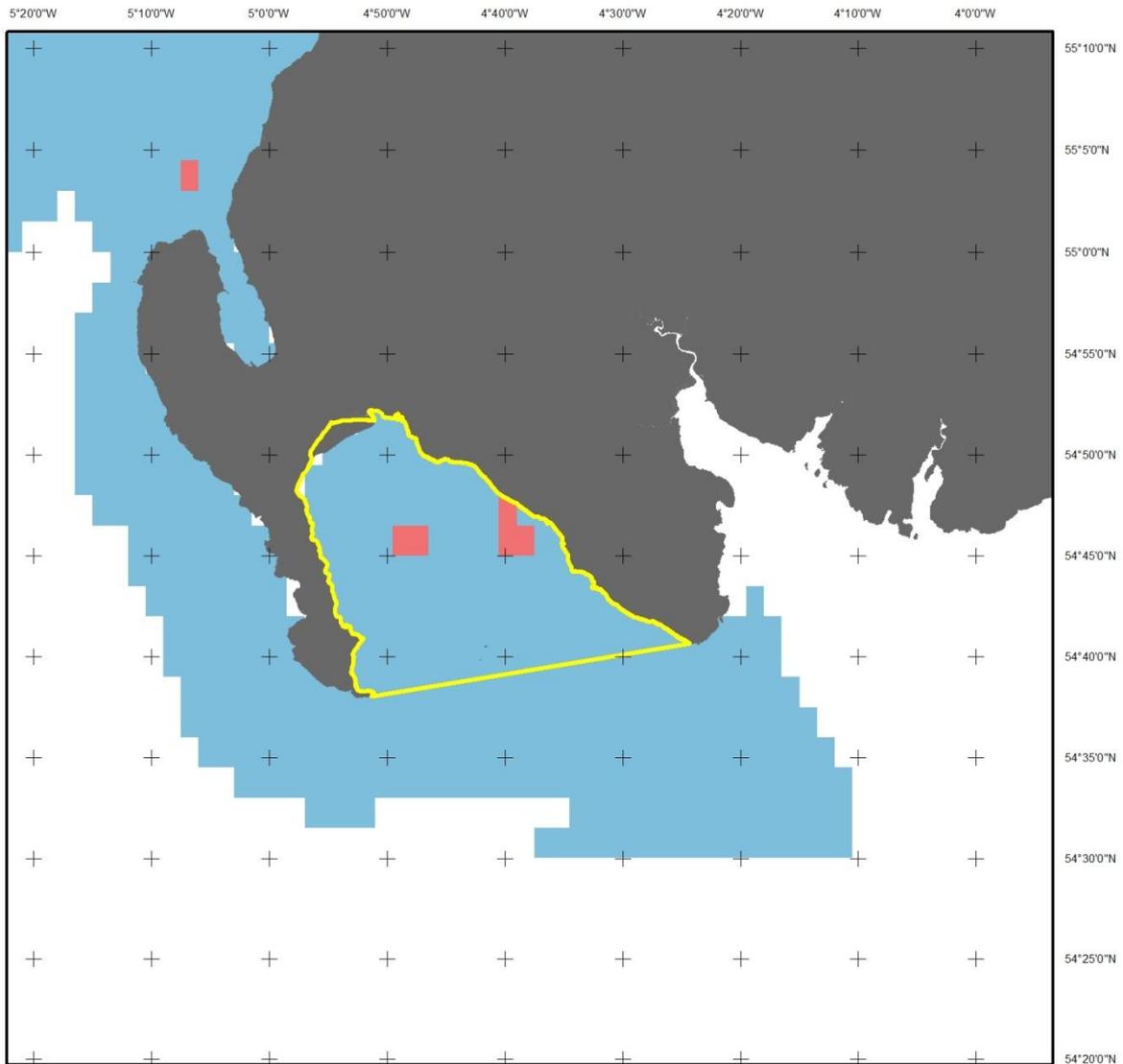
SCOTMAP

- 0 - 25
- 25 - 50
- 50 - 75
- 75 - 100
- 100 - 125
- 125 - 150
- 150 - 175
- 175 - 200
- 200 - 300
- 300 - 430
- 430 - 550
- 550 - 700
- 700 - 750
- 750 - 1,275
- 1,275 - 6,450

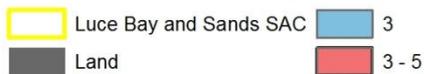
Distribution of scallop value from SCOTMAP during the period 2007 to 2011

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 Using Geodatabase of Marine Features Adjacent to Scotland (GEMS i12 - May 2014).
 Using additional habitats data provided by Scottish Natural Heritage (August 2014)
 Projection: Mercator Datum: WGS 1984
 Standard Parallel: 55°N Scale 1:250,000

Figure G6: SCOTMAP (2007-2011) - scallop dredge value in Luce Bay



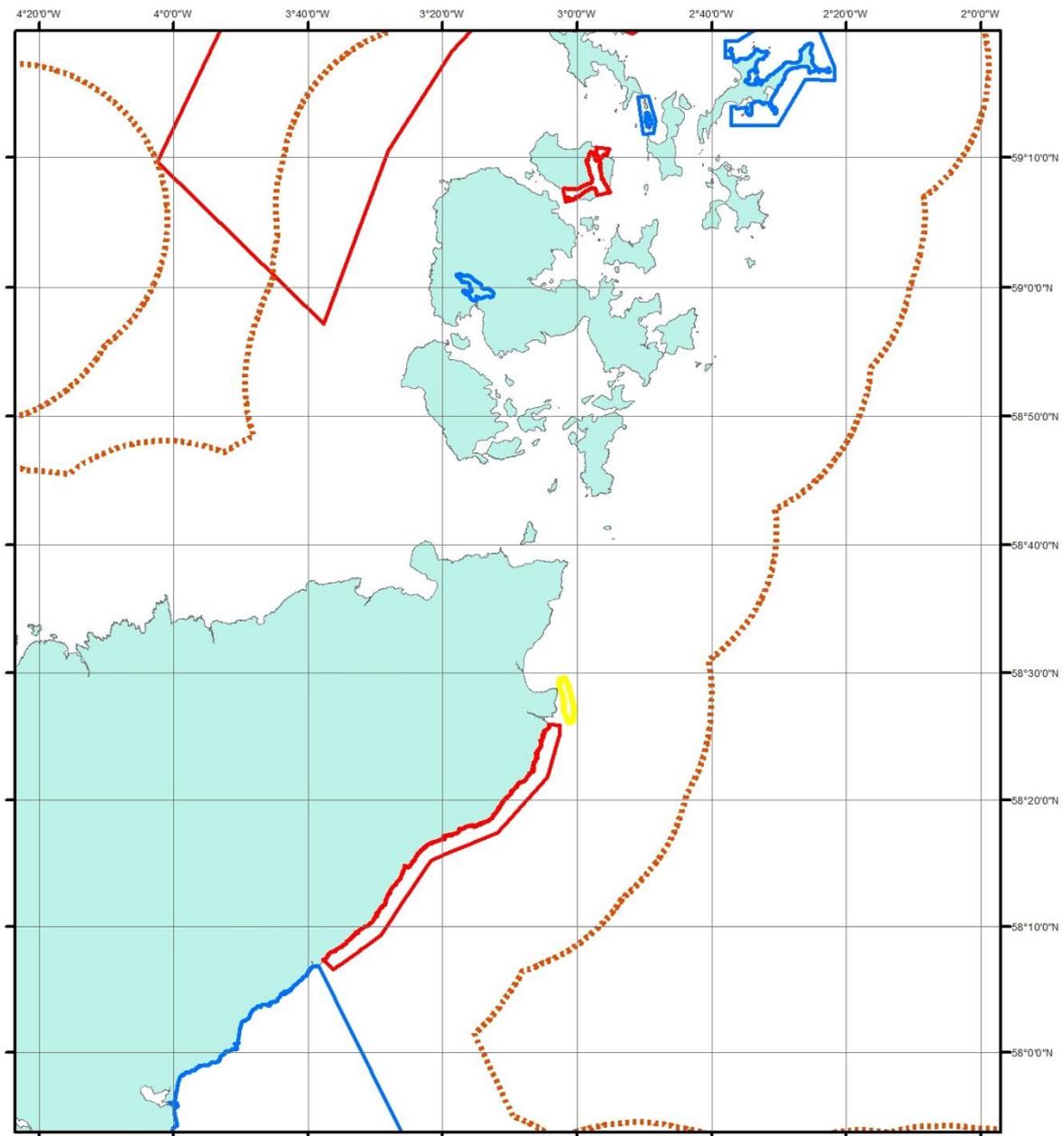
Luce Bay and Sands SAC
Showing SCOTMAP (2007 to 2011) number of scallop vessels



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 Using Geodatabase of Marine Features Adjacent to Scotland (GEMS i12 - May 2014).
 Using additional habitats data provided by Scottish Natural Heritage (August 2014)
 Projection: Mercator Datum: WGS 1984 Standard Parallel: 55°N Scale 1:500,000

Figure G7: SCOTMAP (2007-2011) - number of scallop dredge vessels in Luce Bay and the wider area

Protected Area H – Noss Head MPA

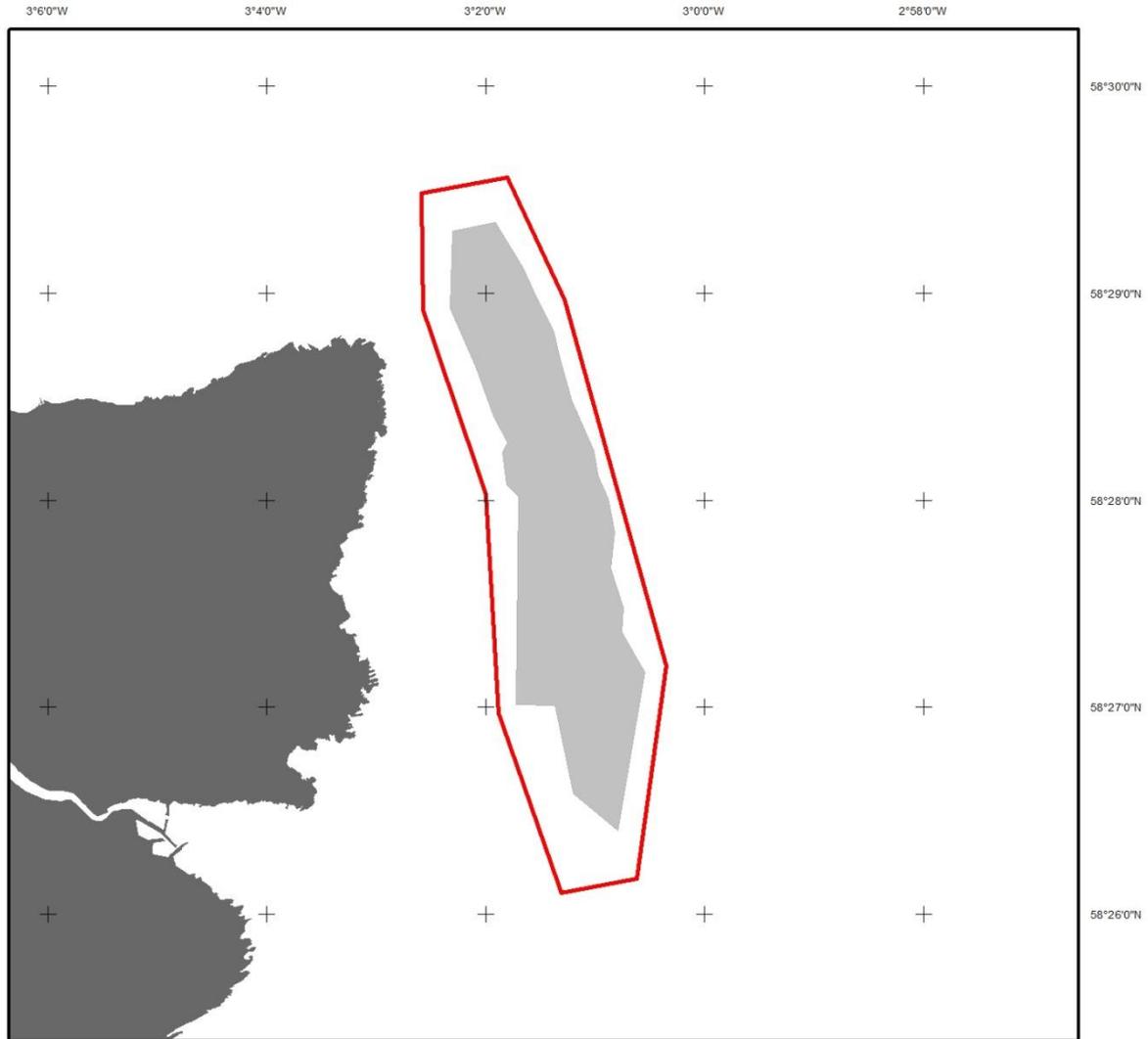


Noss Head MPA Spatial relationship with other protected areas

- Land
- Territorial waters
- Noss Head MPA
- NC MPA
- Inshore SAC

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 Projection: Mercator Datum: WGS 1984 Standard Parallel: 58°30'N Scale 1:750,000

Figure H1 – Noss Head MPA with other nearby protected areas



Noss Head MPA

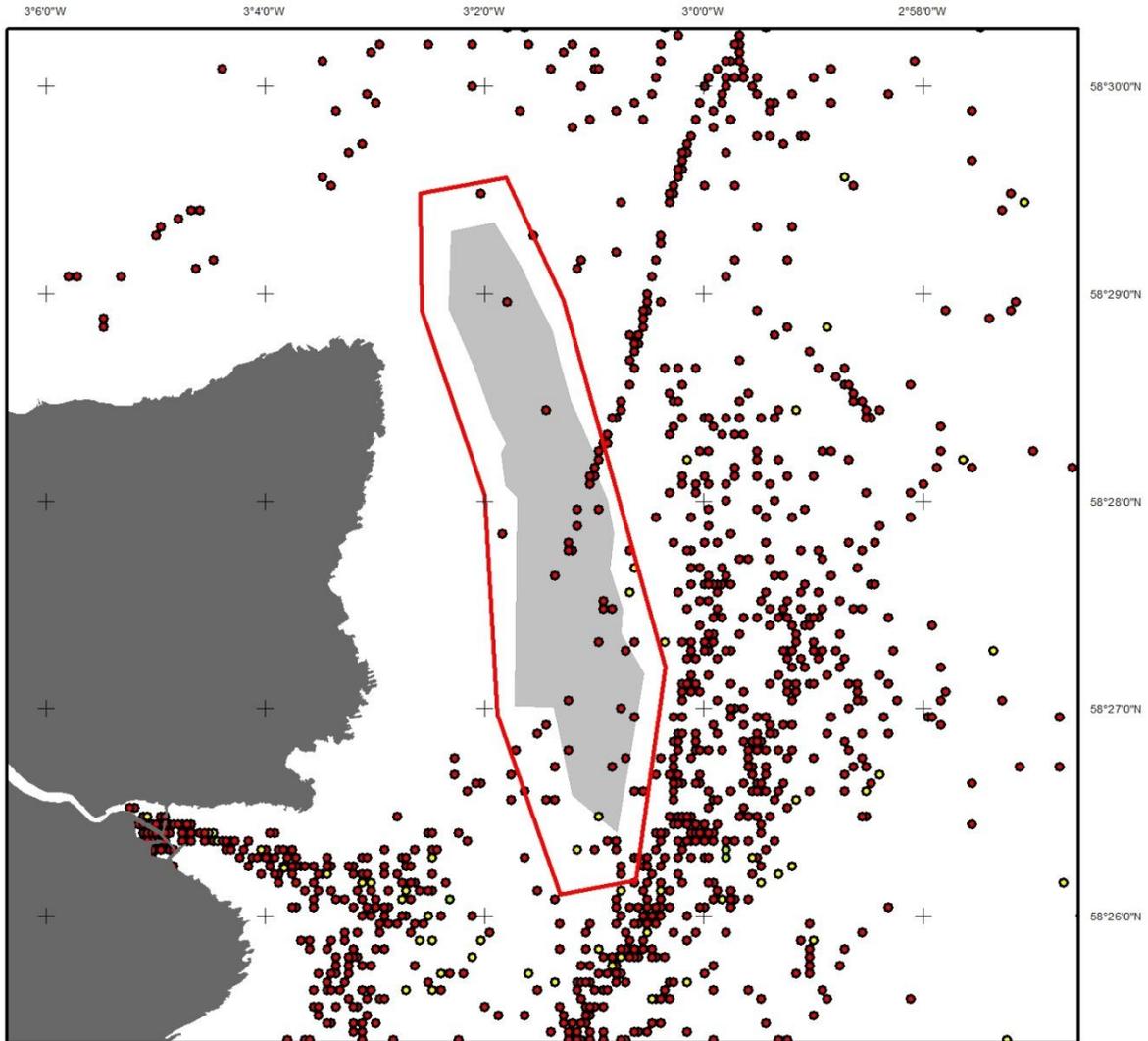
- MPA boundary
- Land
- Horse mussel beds

Approach 1

There would be no demersal trawl, mechanical dredging, suction dredging, or hydraulic dredging permitted within the entire MPA

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Figure H2: Map of measures proposed under approach 1 for Noss Head

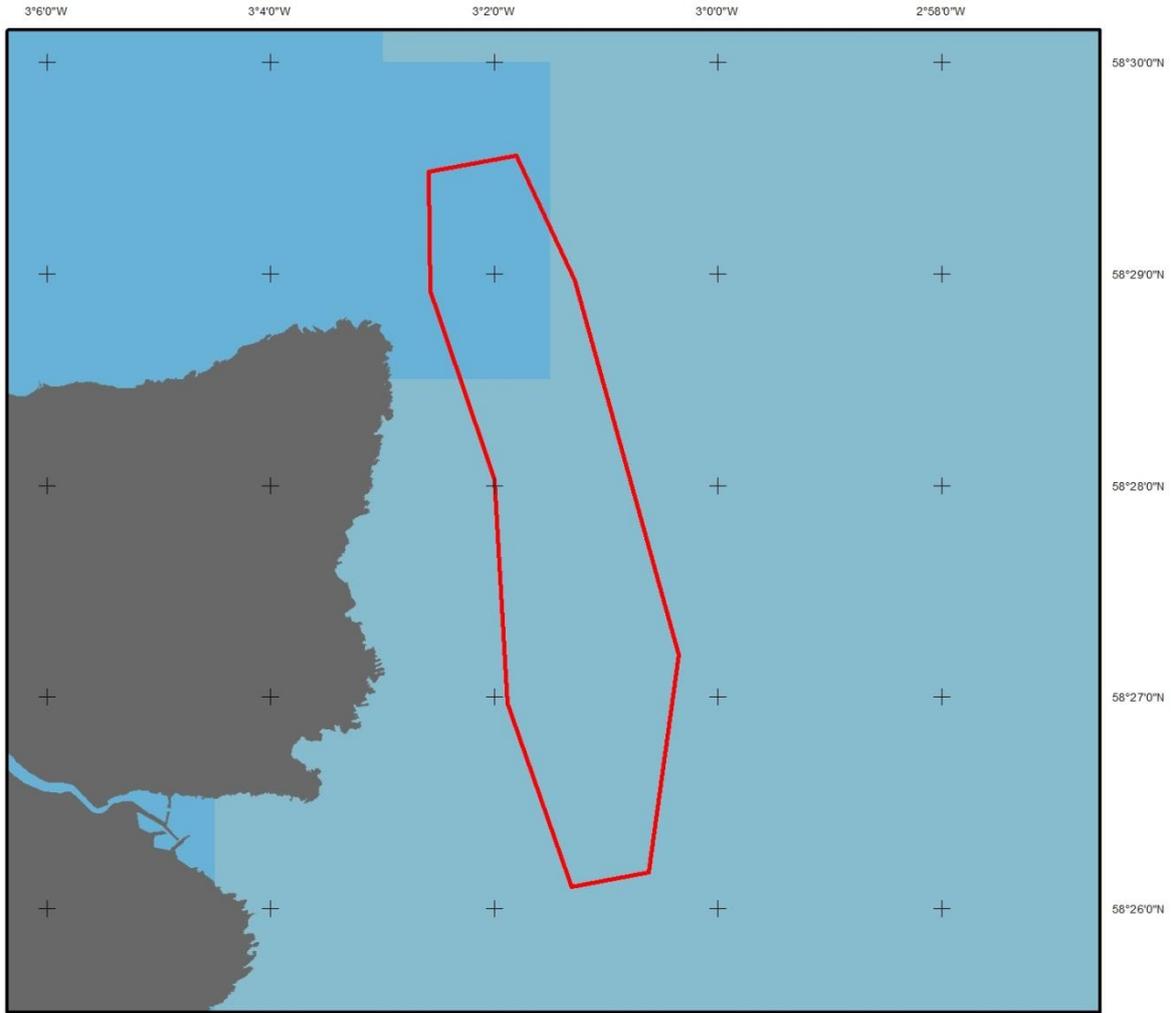


**Noss Head MPA
showing VMS data (2007 - 2013)**

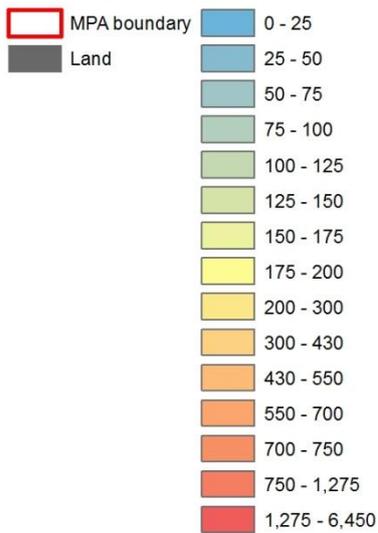
- MPA boundary
- Land
- Horse mussel beds
- Whitefish trawls / seines
- Nephrops Trawls
- Static gear
- Dredge

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Using Geodatabase of Marine Features Adjacent to Scotland (GEMS i12 - May 2014).
Projection: Mercator Datum: WGS 1984 Standard Parallel: 58°30'N Scale 1:50,000

Figure H3: Map of VMS data (2007-2013) at Noss Head MPA

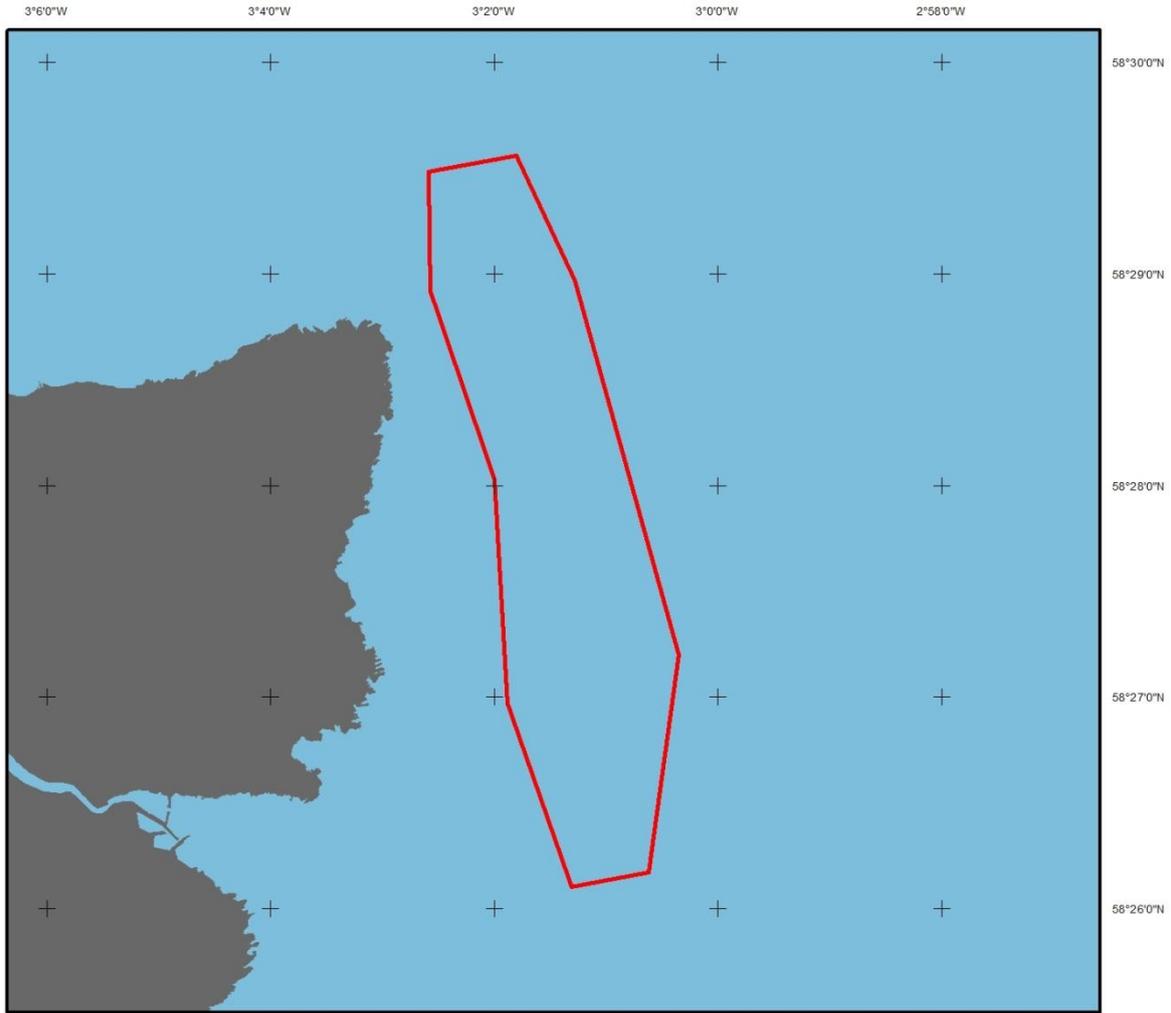


**Noss Head MPA
showing SCOTMAP (2007 - 2011) scallop dredge value**

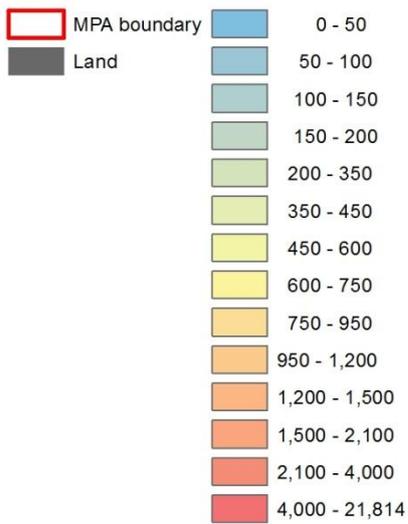


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 Projection: Mercator Datum: WGS 1984
 Standard Parallel: 58°30"N Scale 1:50,000

Figure H4: SCOTMAP (2007-2011) Scallop dredge value

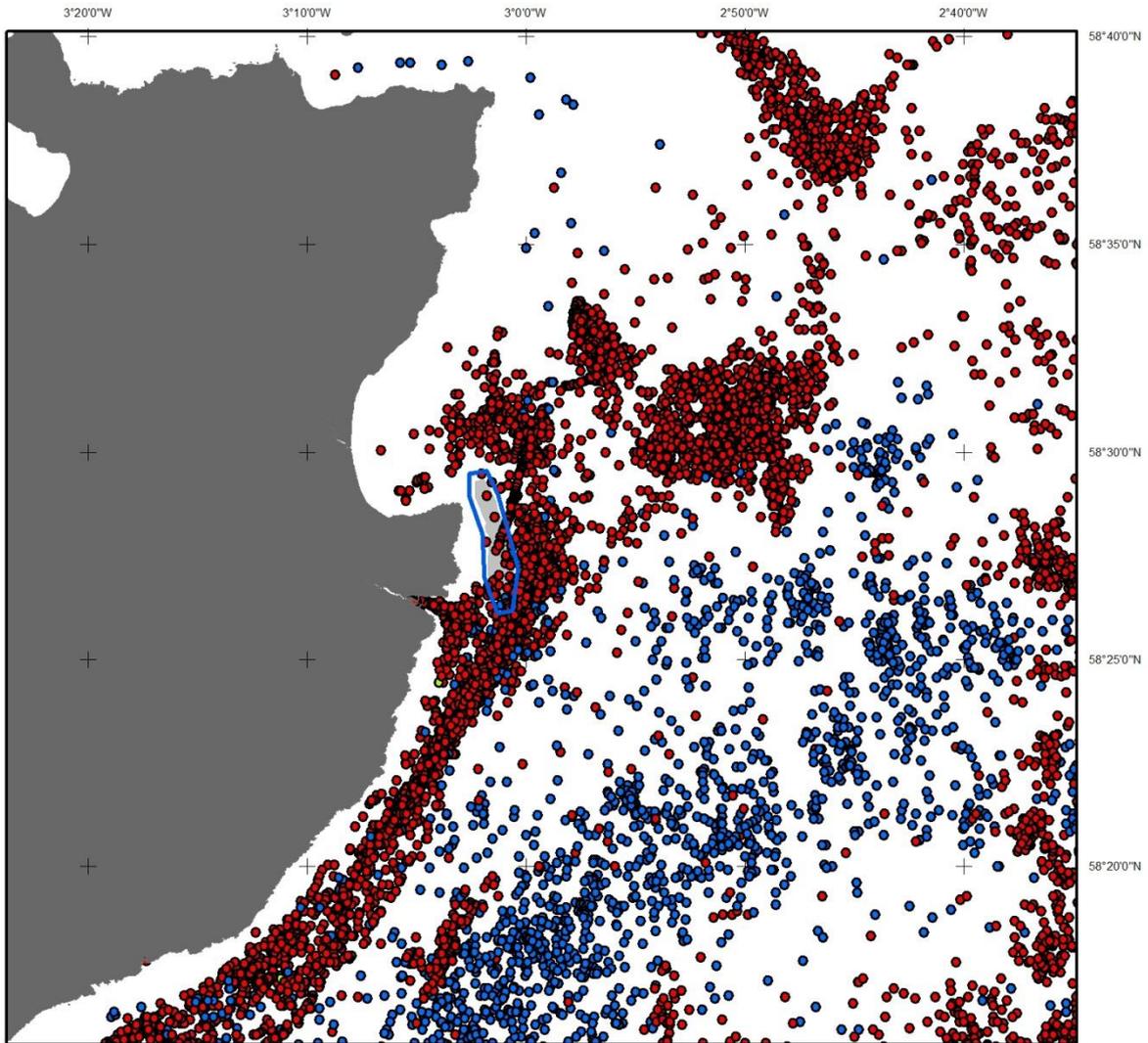


**Noss Head MPA
showing SCOTMAP (2007 - 2011) nephrops trawl value**



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 Adjacent to Scotland (GEMS i12 - May 2014).
 Projection: Mercator Datum: WGS 1984
 Standard Parallel: 58°30"N Scale 1:50,000

Figure H5: SCOTMAP (2007-2011) Nephrops trawl value



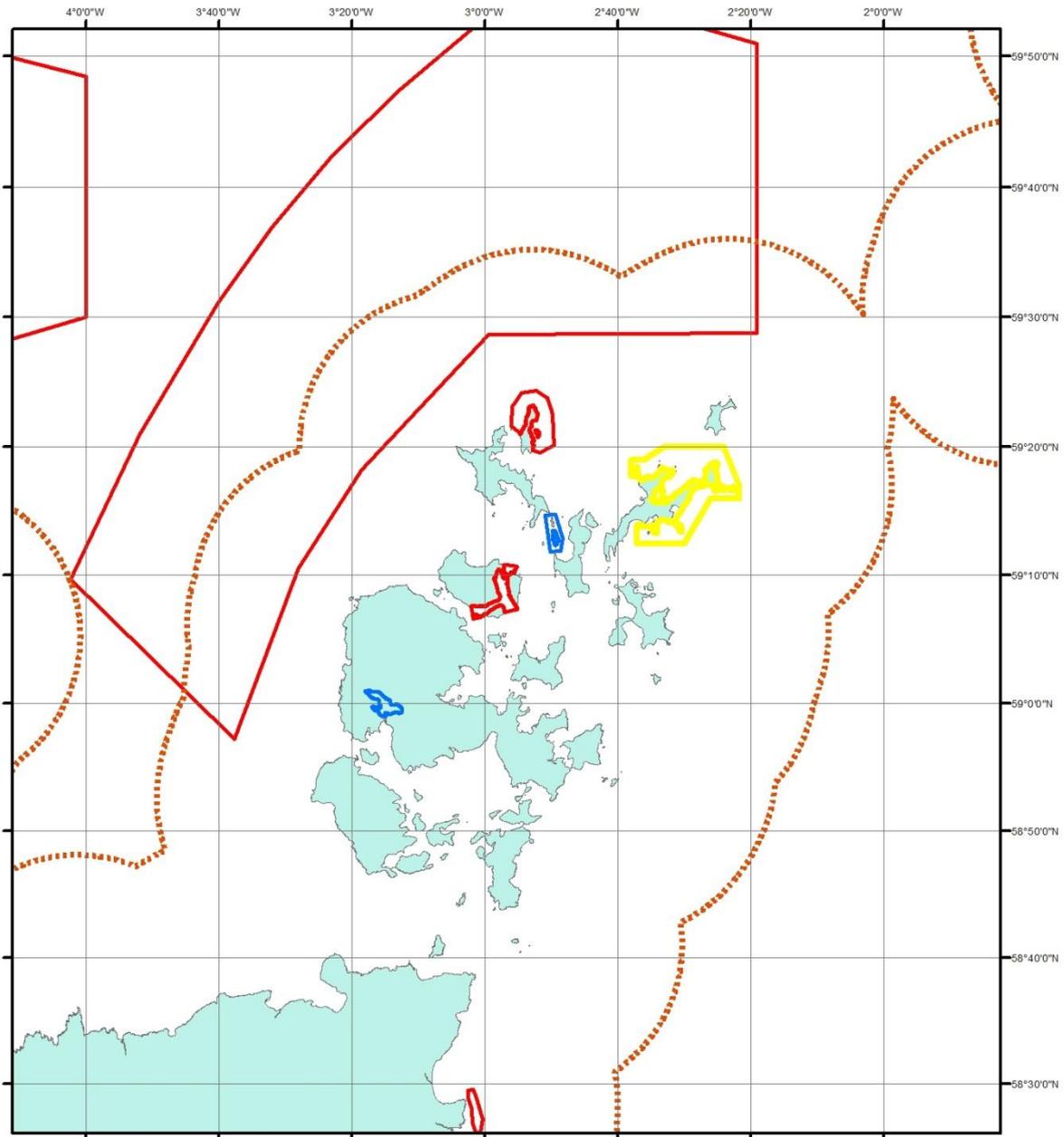
Noss Head MPA
Showing VMS data (2007 - 2013) in the wider area

- | | |
|---|--|
|  MPA boundary |  Trawls |
|  Horse mussel beds |  Static |
|  Land |  Dredge |

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 Projection: Mercator Datum: WGS 1984 Standard Parallel: 58°30"N Scale 1:250,000

Figure H6: Distribution of VMS data (2007-2013) around Noss Head MPA

Protected Area J – Sanday SAC

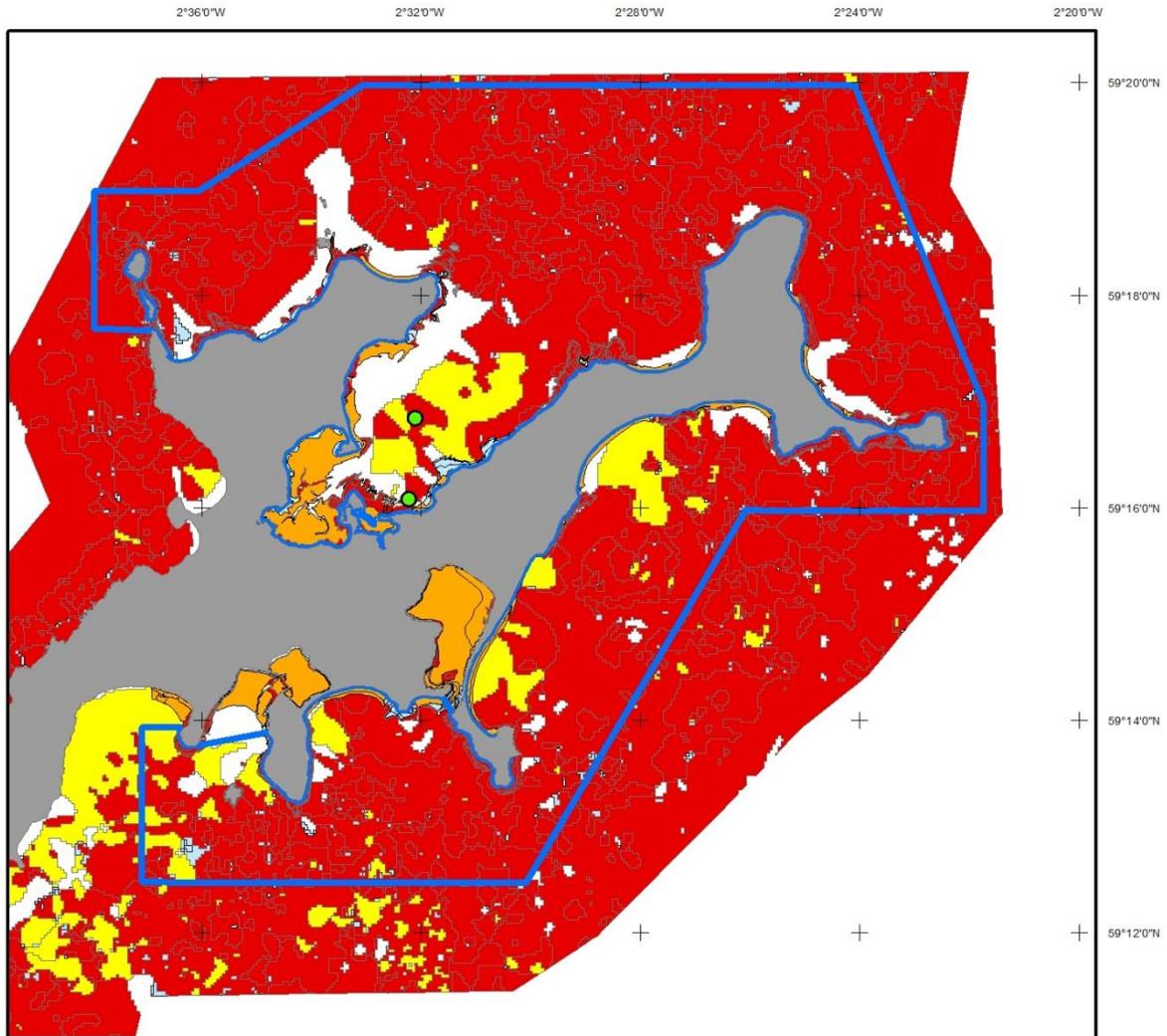


Sanday SAC Spatial relationship with other protected areas

- Land
- Territorial waters
- Sanday SAC
- NC MPA
- Inshore SAC

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Projection: Mercator Datum: WGS 1984 Standard Parallel: 59°N Scale 1:750,000

Figure J1: Sanday SAC in context with other protected areas



Sanday SAC

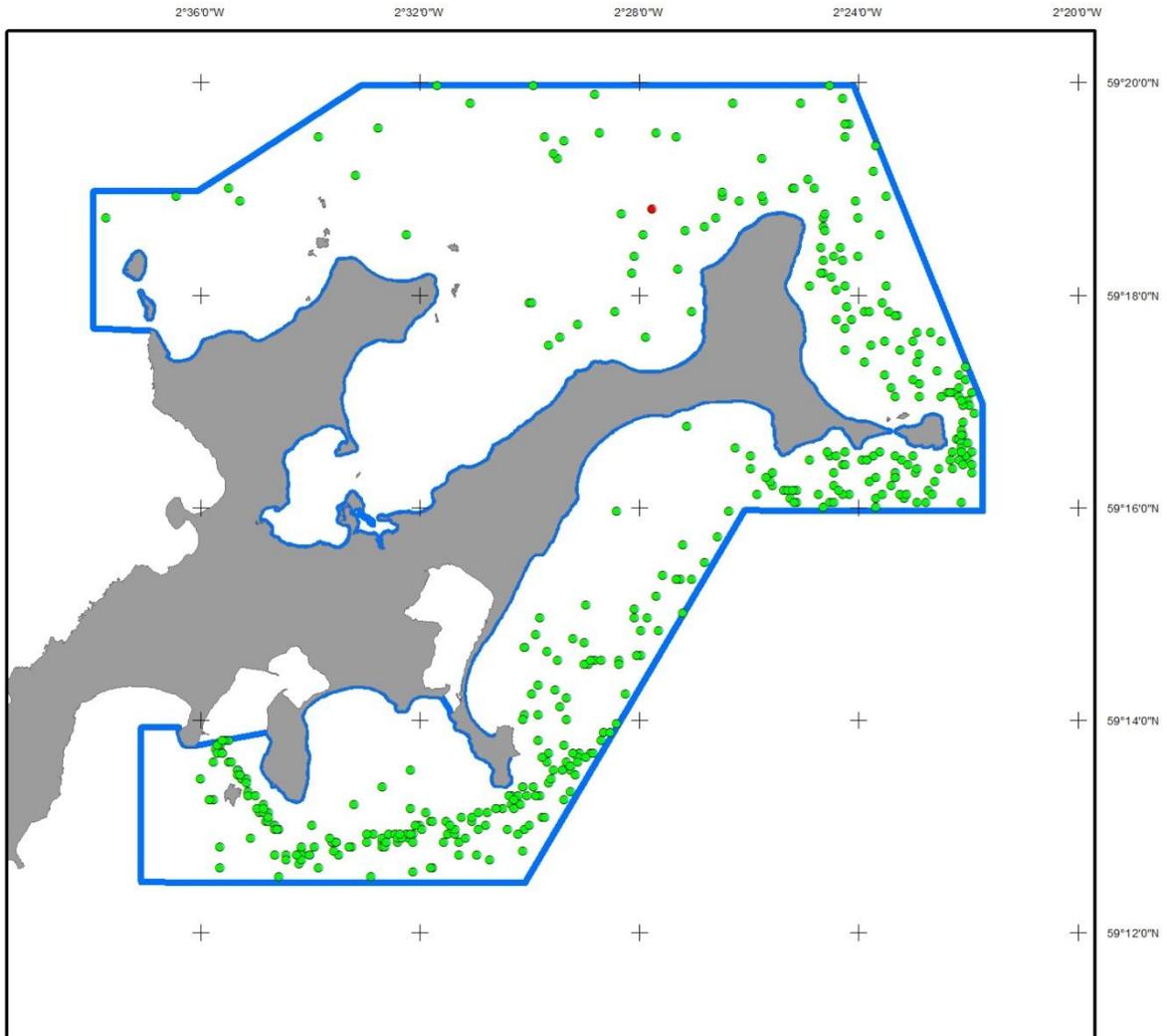
- Land
- SAC boundary
- Seagrass beds
- Reef
- Subtidal sandbanks
- Unknown
- Mudflats and sandflats
- Not annex 1 habitat

Approach 1

There would be no demersal trawl, mechnaical dredge, hydraulic dredge, or suction dredge activity permitted within the entire SAC.

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Figure J2: Sanday SAC management approach 1

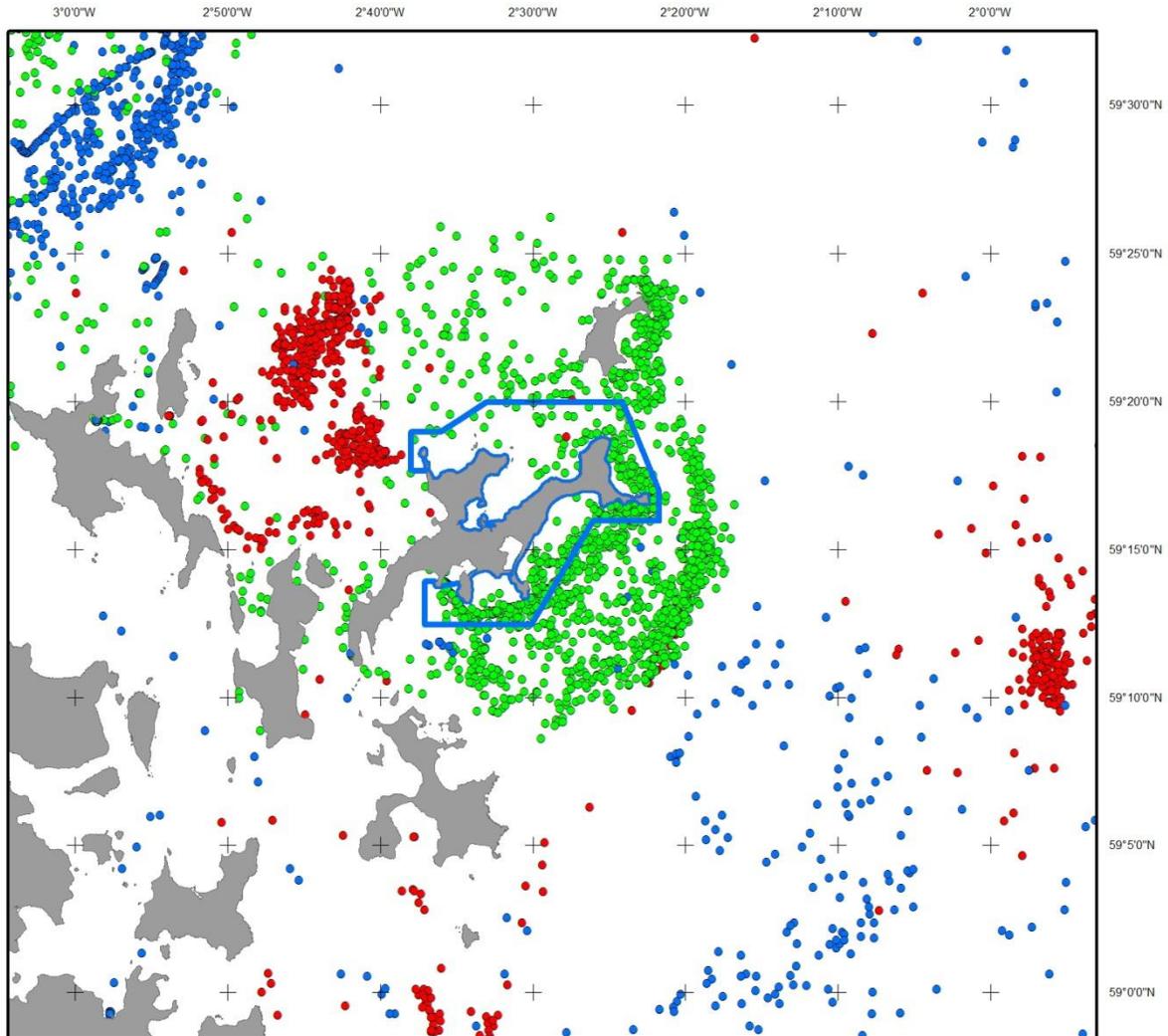


**Sanday SAC
showing VMS data (2010 - 2013)**

- Land
- SAC boundary
- 4 Dredge
- 7 Pots

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 Projection: Mercator Datum: WGS 1984 Standard Parallel: 59°N Scale 1:100,000

Figure J3: Sanday SAC – VMS data within the area 2010 – 2013

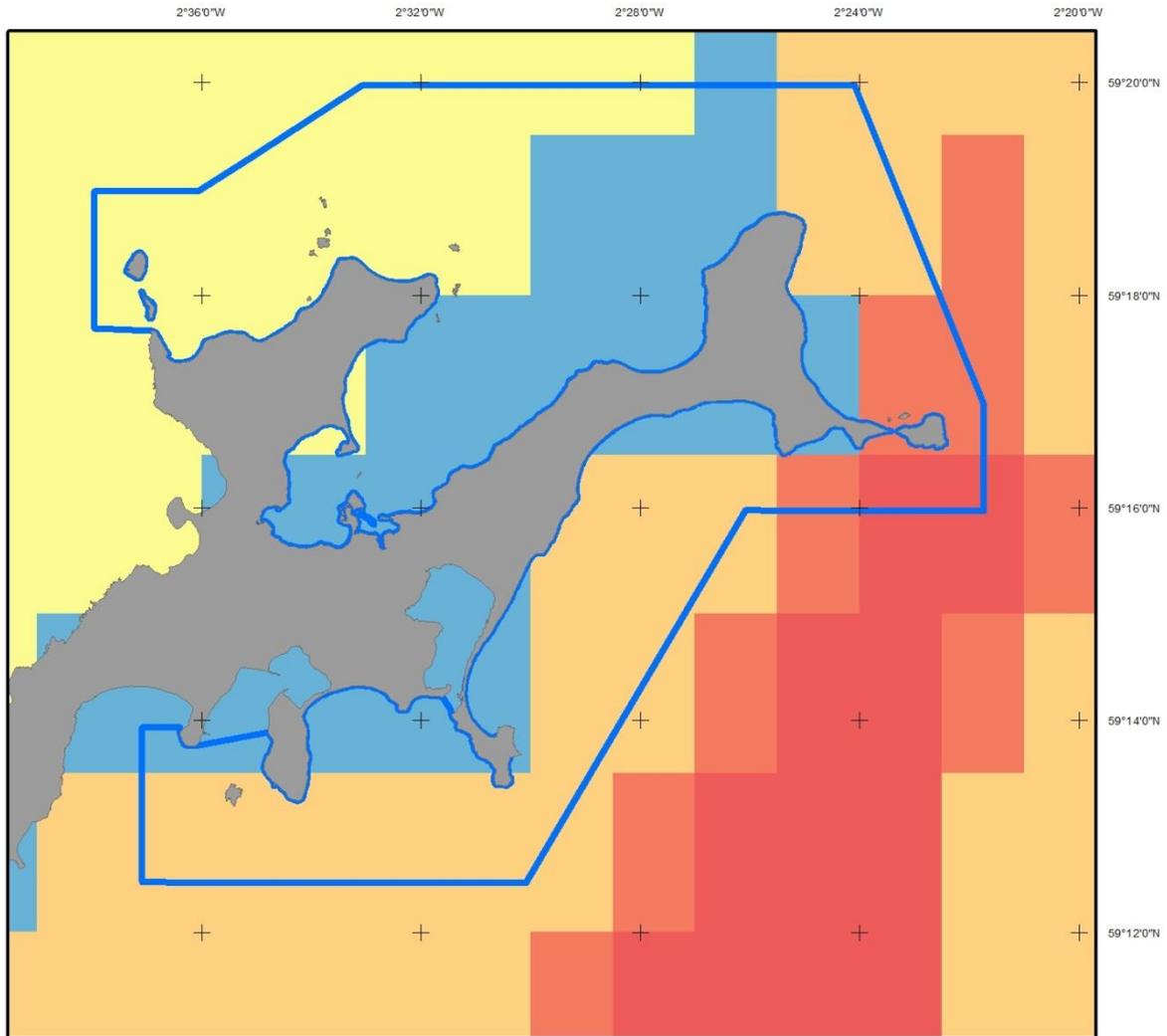


Sanday SAC
Showing VMS data (2010 - 2013) in the wider area

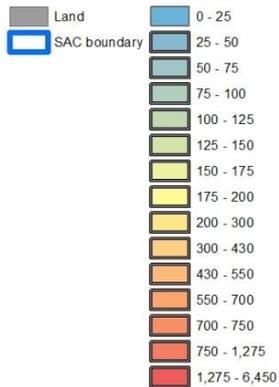
- | | |
|--|--|
|  Land |  Trawls |
|  SAC boundary |  Dredge |
| |  Static |

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Figure J4: Sanday SAC – VMS data from the wider area 2010 – 2013



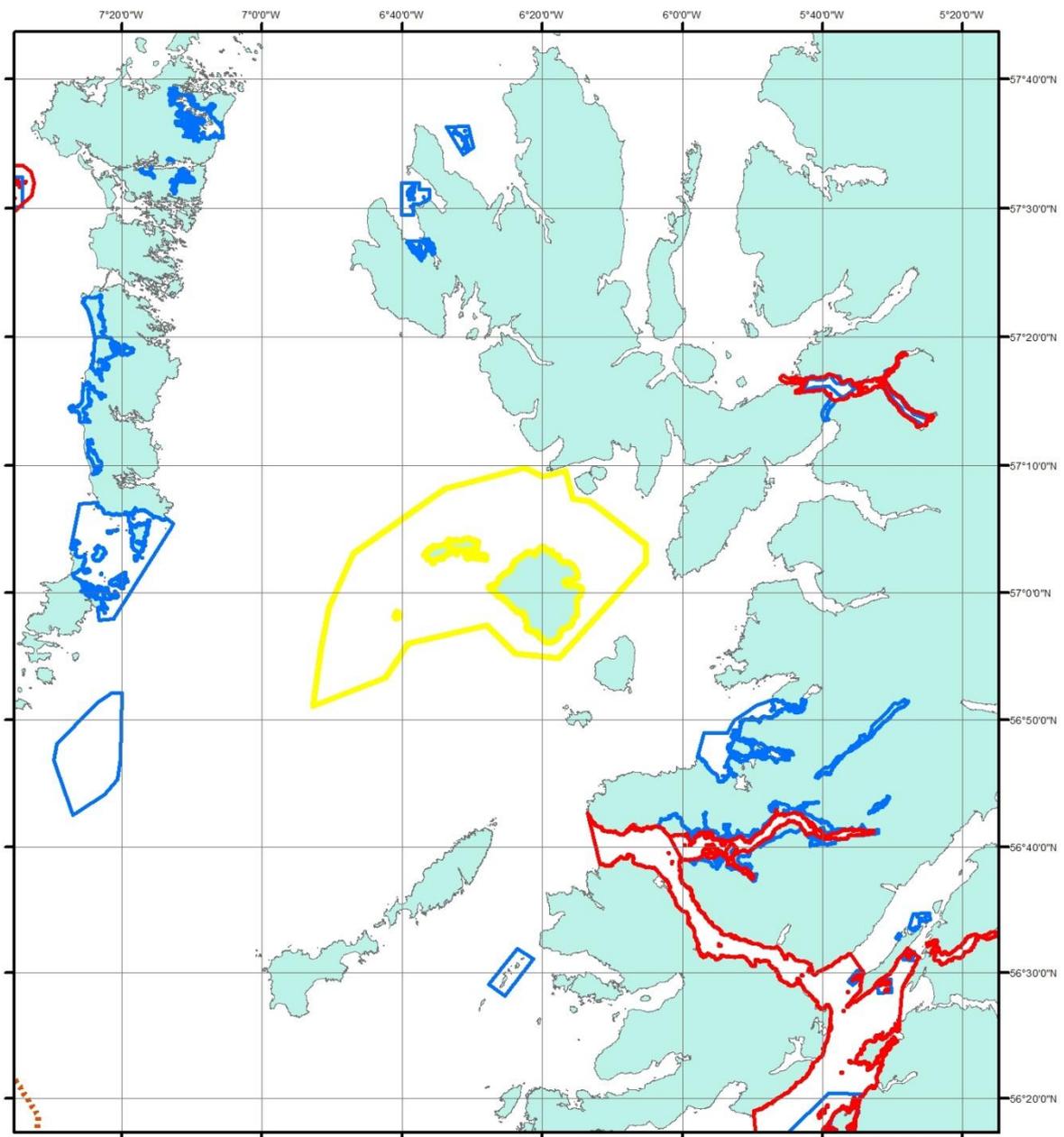
Sanday SAC
showing SCOTMAP scallop dredge value (2007 - 2011)



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 Using additional habitats data provided by Scottish Natural Heritage (June 2014)
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Figure J5: Sanday SAC – SCOTMAP scallop dredge value

Protected Area K – Small Isles MPA

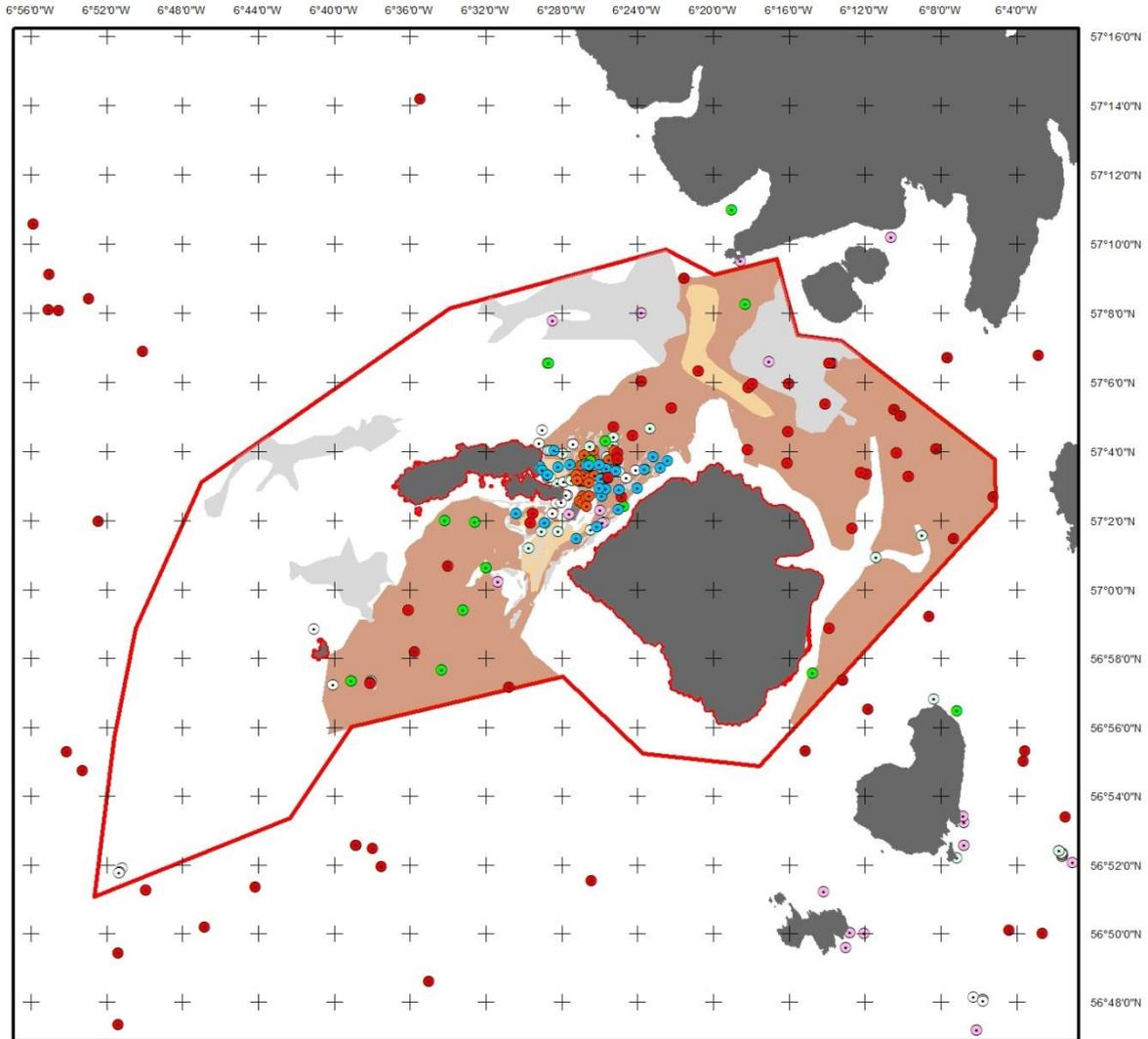


Small Isles MPA Spatial relationship with other protected areas

- Land
- Territorial waters
- Small Isles MPA
- NC MPA
- Inshore SAC

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Figure K1 – Small Isles MPA with other nearby protected areas

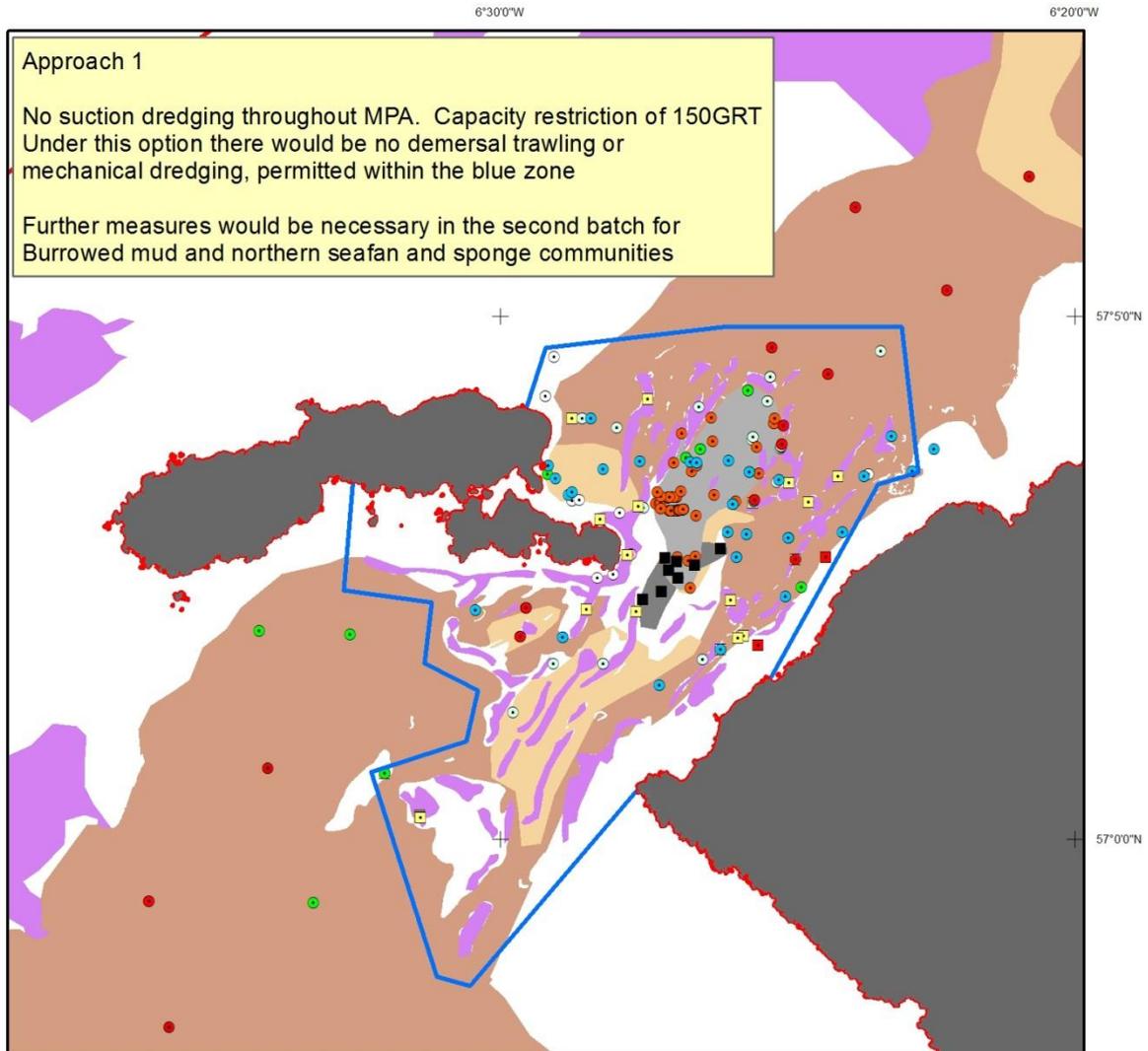


Small Isles MPA

- | | |
|---|---|
| MPA boundary | Mud Volcano Worms |
| Land | Seapens |
| Fan mussel | Tall Seapens |
| Northern feather star | Northern sea fan and sponge communities |
| Burrowed mud | Fan mussel |
| Circalittoral sand and mud communities | Northern feather star |
| Horse mussel beds | White cluster anemone |
| Northern sea fan and sponge communities | Tall seapen |

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Figure K2: Small Isles MPA showing the protected features

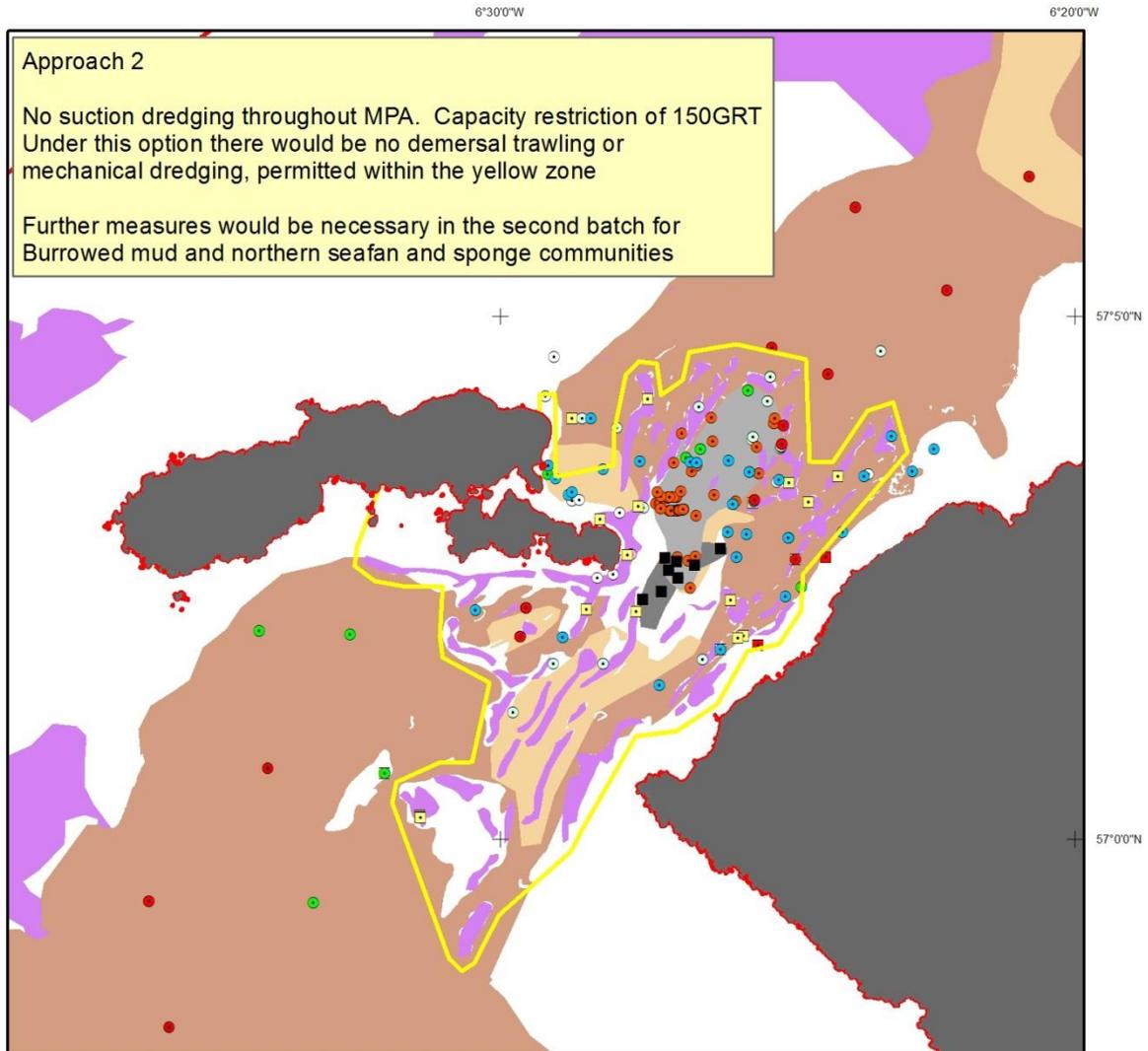


Small Isles MPA

- Land
- MPA boundary
- Approach 1
- Fan mussel
- Northern feather star
- Burrowed mud
- Circalittoral sand and mud communities
- Horse mussel beds
- Northern sea fan and sponge communities
- Mud Volcano Worms
- Seapens
- Tall Seapens
- Northern sea fan and sponge communities
- Horse mussel beds
- Flame shell beds
- Northern sea fan and sponge communities
- Fan mussel
- Northern feather star
- White cluster anemone
- Tall seapen

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Figure K3: Map of zonal measures in Sound of Canna proposed under approach 1

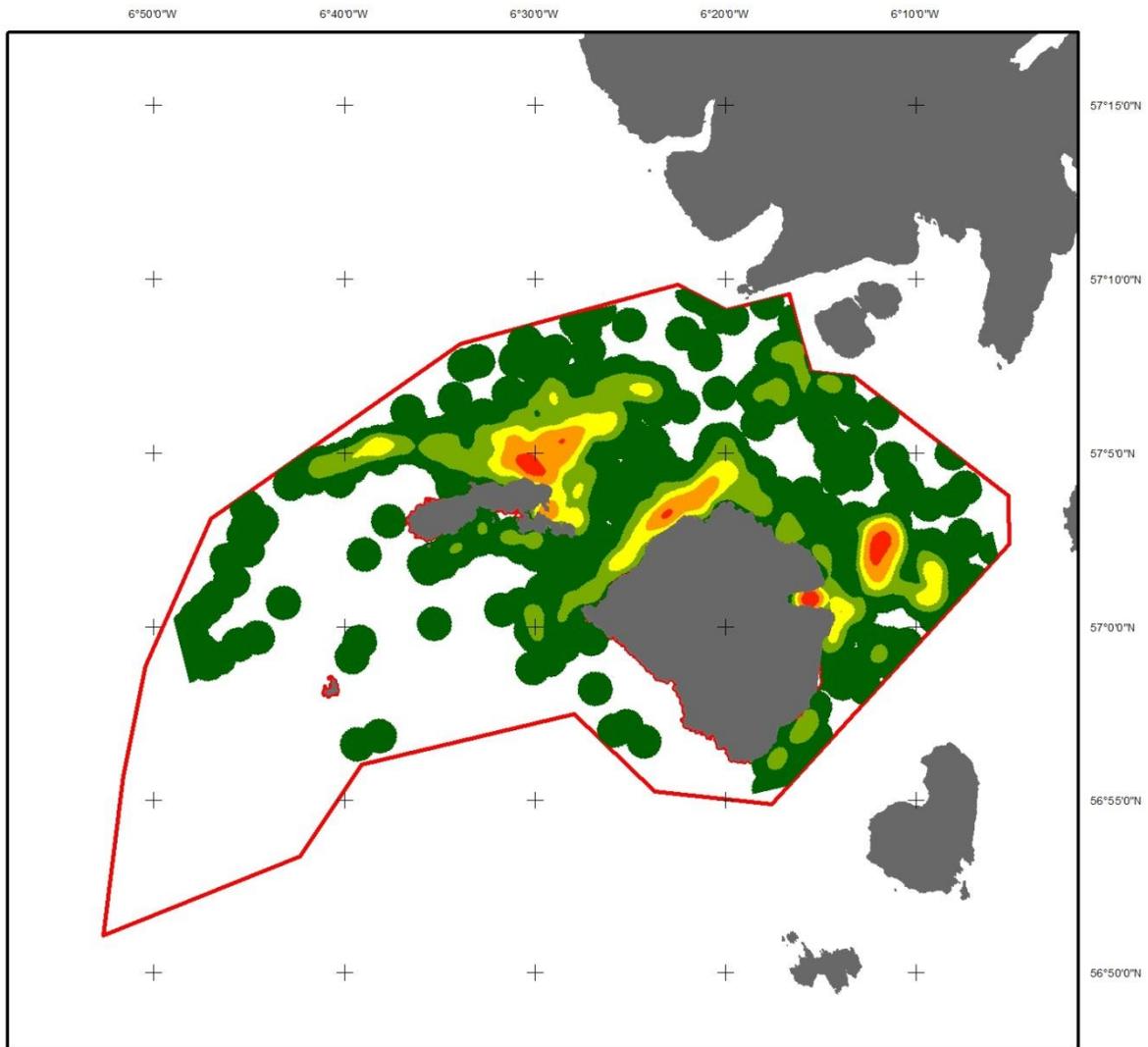


Small Isles MPA

- | | |
|---|---|
| Land | Mud Volcano Worms |
| MPA boundary | Seapens |
| Approach 2 | Tall Seapens |
| Fan mussel | Northern sea fan and sponge communities |
| Northern feather star | Horse mussel beds |
| Burrowed mud | Flame shell beds |
| Circalittoral sand and mud communities | Northern sea fan and sponge communities |
| Horse mussel beds | Fan mussel |
| Northern sea fan and sponge communities | Northern feather star |
| | White cluster anemone |
| | Tall seapen |

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Figure K4: Map of zonal measures in Sound of Canna proposed under approach 2

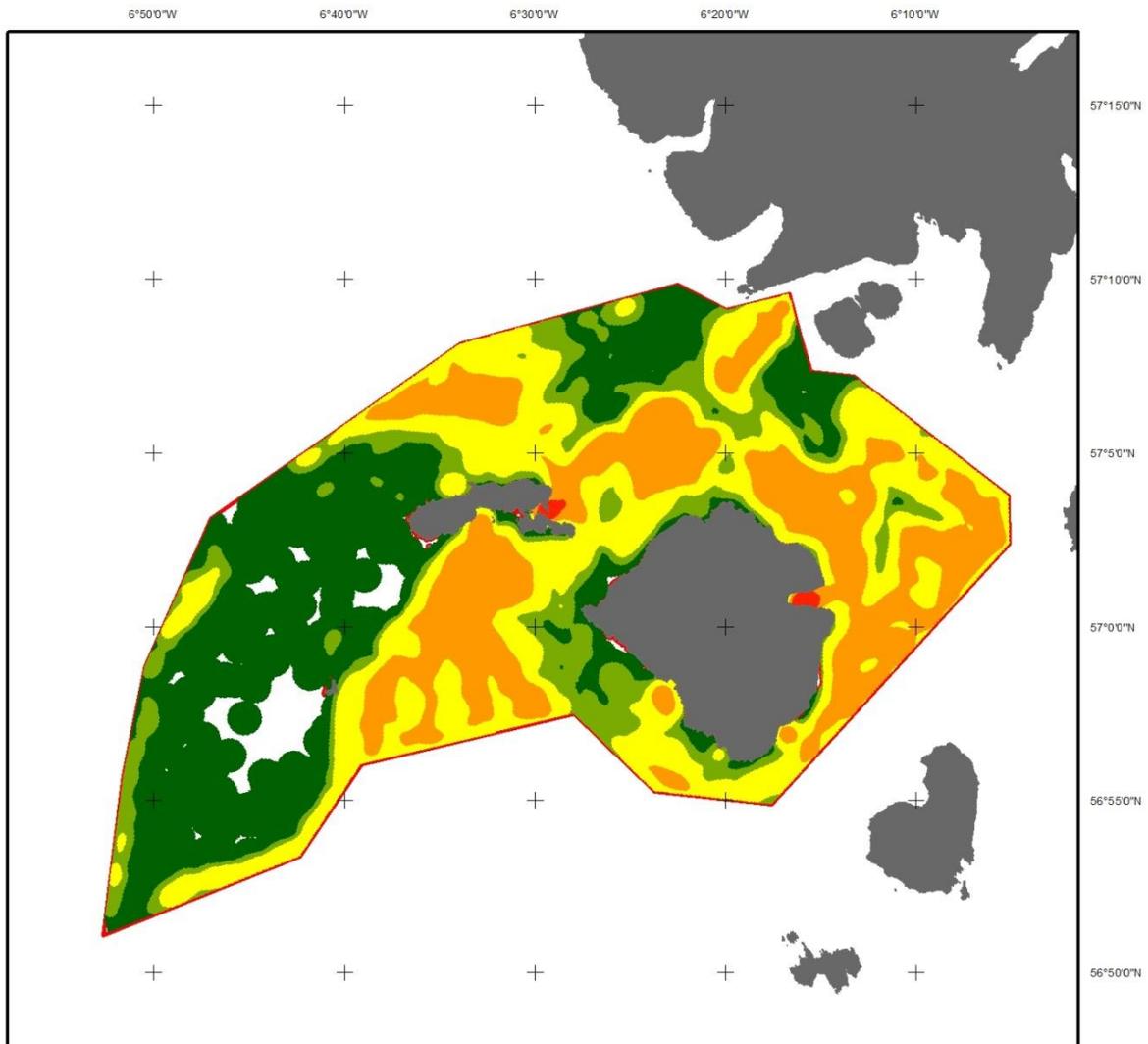


Small Isles MPA
Showing VMS density (2007 -13) Scallop Dredge

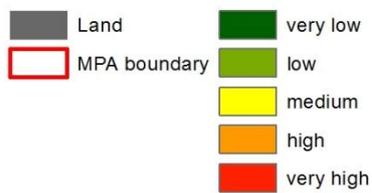


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Figure K5: VMS (2007-13) Scallop dredge density

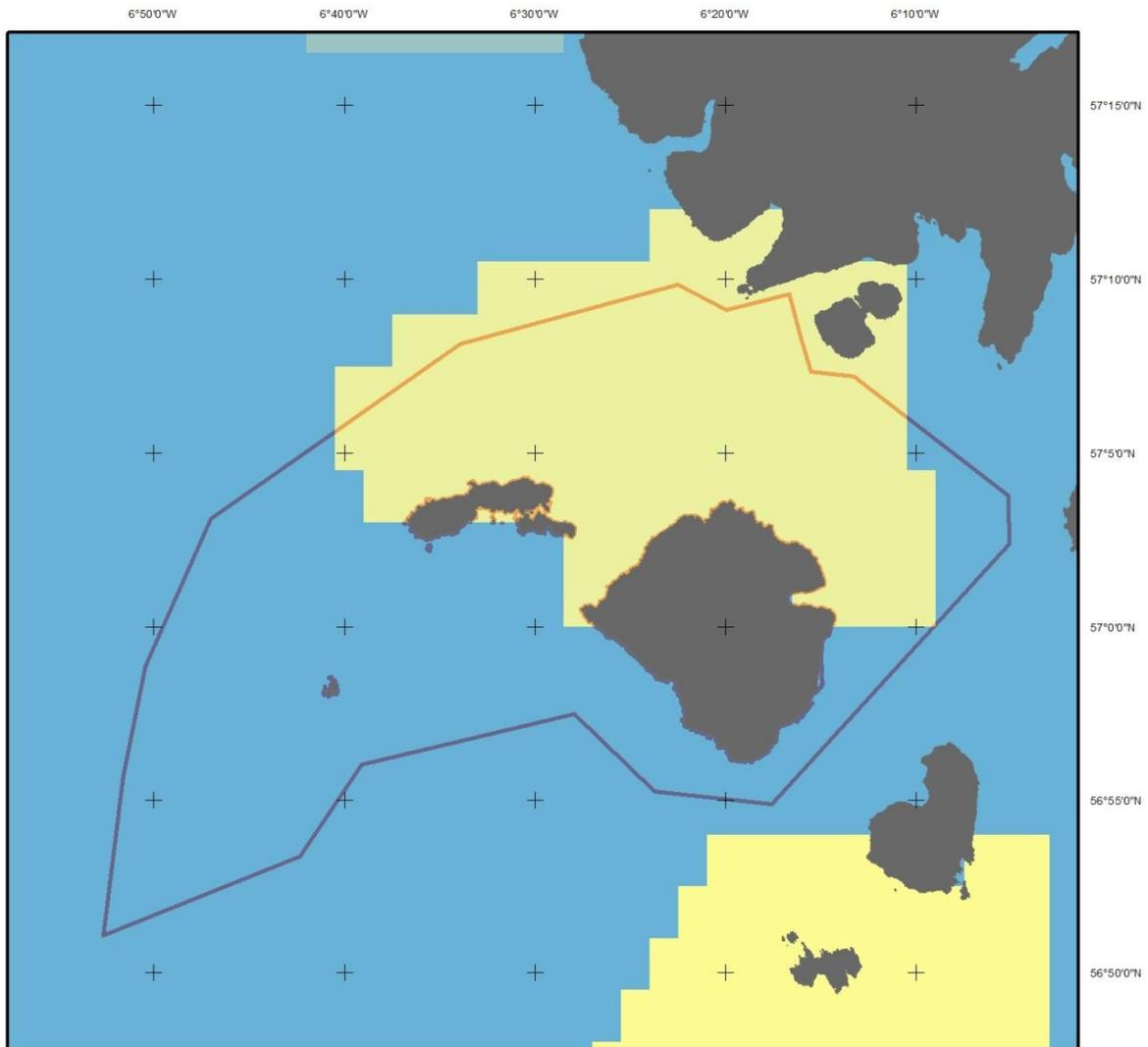


Small Isles MPA
Showing VMS density (2007 -13) Demersal trawl

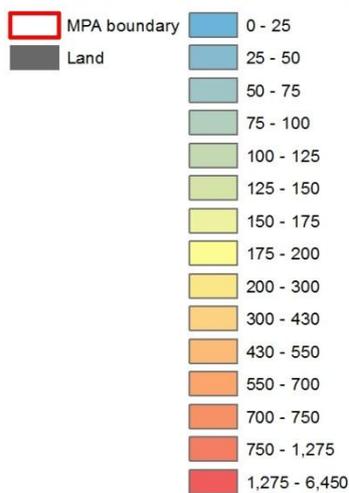


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Figure K6: VMS (2007-13) Nephrops trawl density

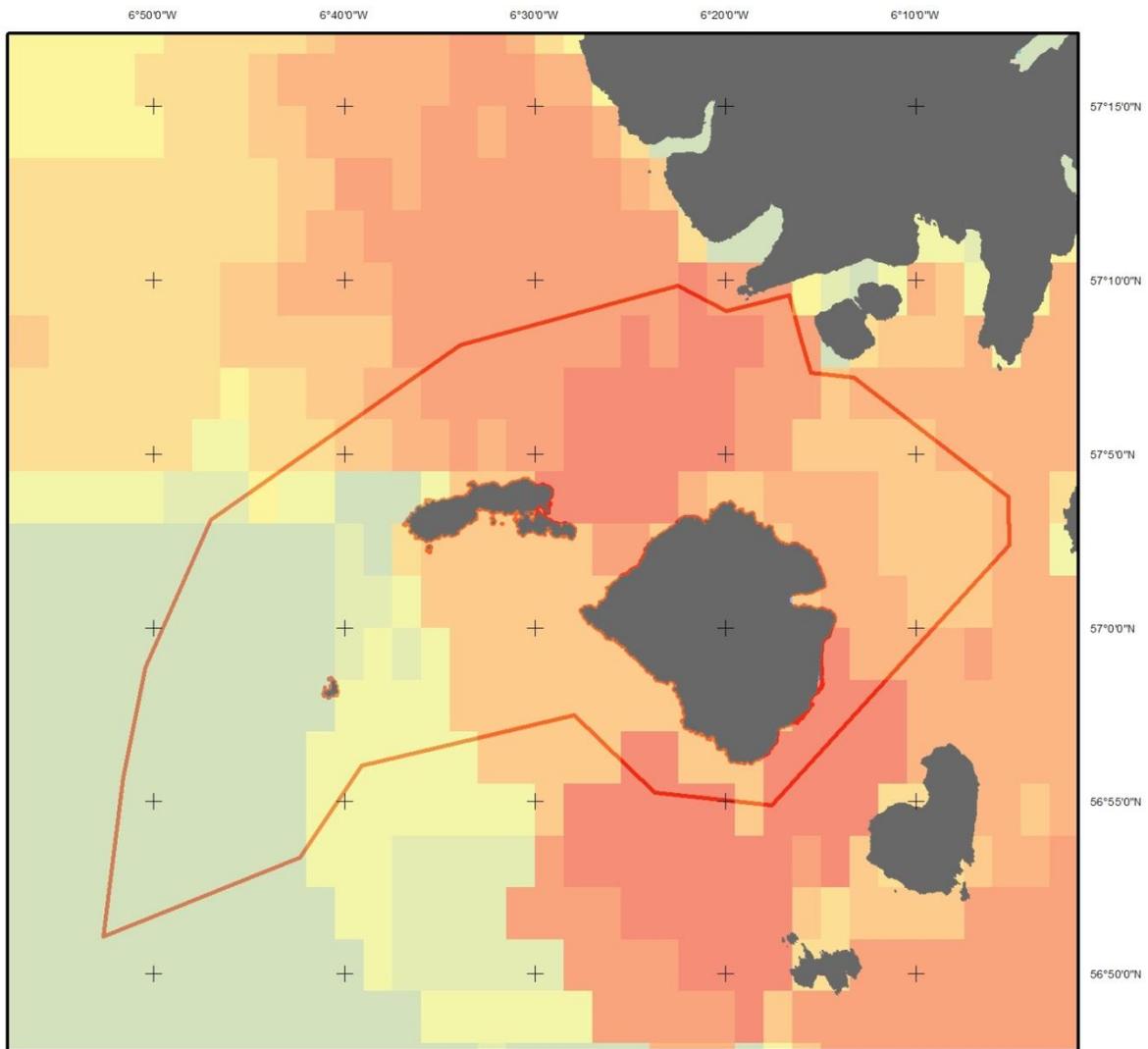


Small Isles MPA
Showing SCOTMAP (2007 -11) Scallop dredge value

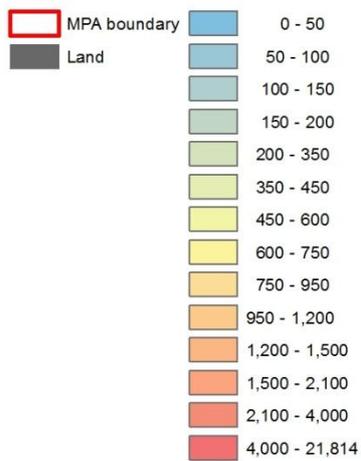


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Figure 8: SCOTMAP (2007-2011) Scallop dredge value



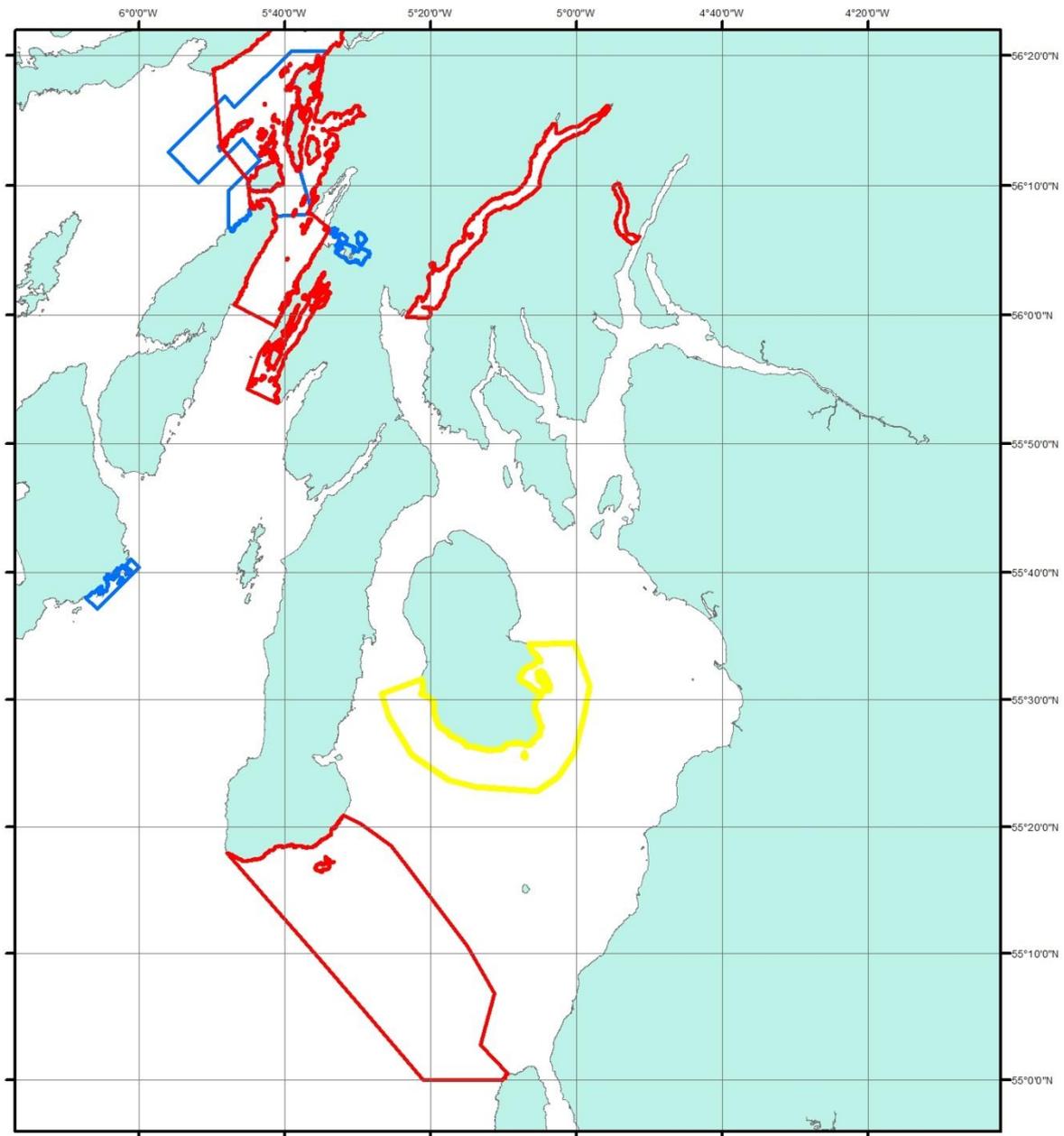
Small Isles MPA
Showing SCOTMAP (2007 -11) nephrops trawl value



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Figure 9: SCOTMAP (2007-2011) Nephrops trawl value

Protected Area L – South Arran MPA

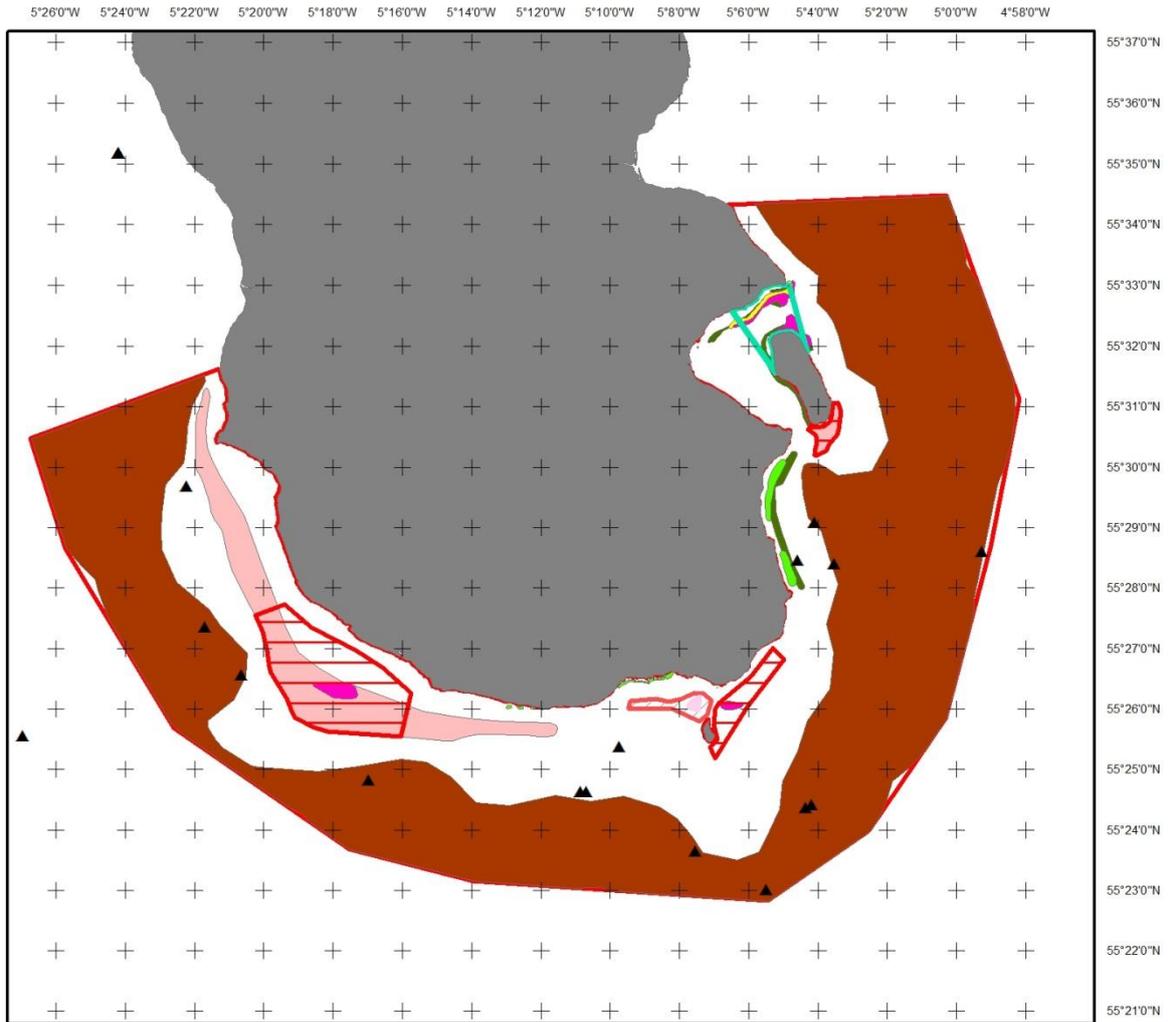


South Arran MPA Spatial relationship with other protected areas



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Figure L1: South Arran MPA in context with other protected areas



South Arran MPA

- | | |
|--------------------------------------|---|
| Land | Ocean quahog |
| MPA Boundary | Burrowed mud |
| Lamlash Bay NTZ | Kelp and seaweed communities on sublittoral sediment |
| CR 749 Maerl recovery areas | Maerl beds |
| maerl recovery area Sept 2014 survey | Maerl or coarse shell gravel with burrowing sea cucumbers |
| maerl bed Sept 2014 survey | Seagrass beds |
| | Tide-swept coarse sands with burrowing bivalves |

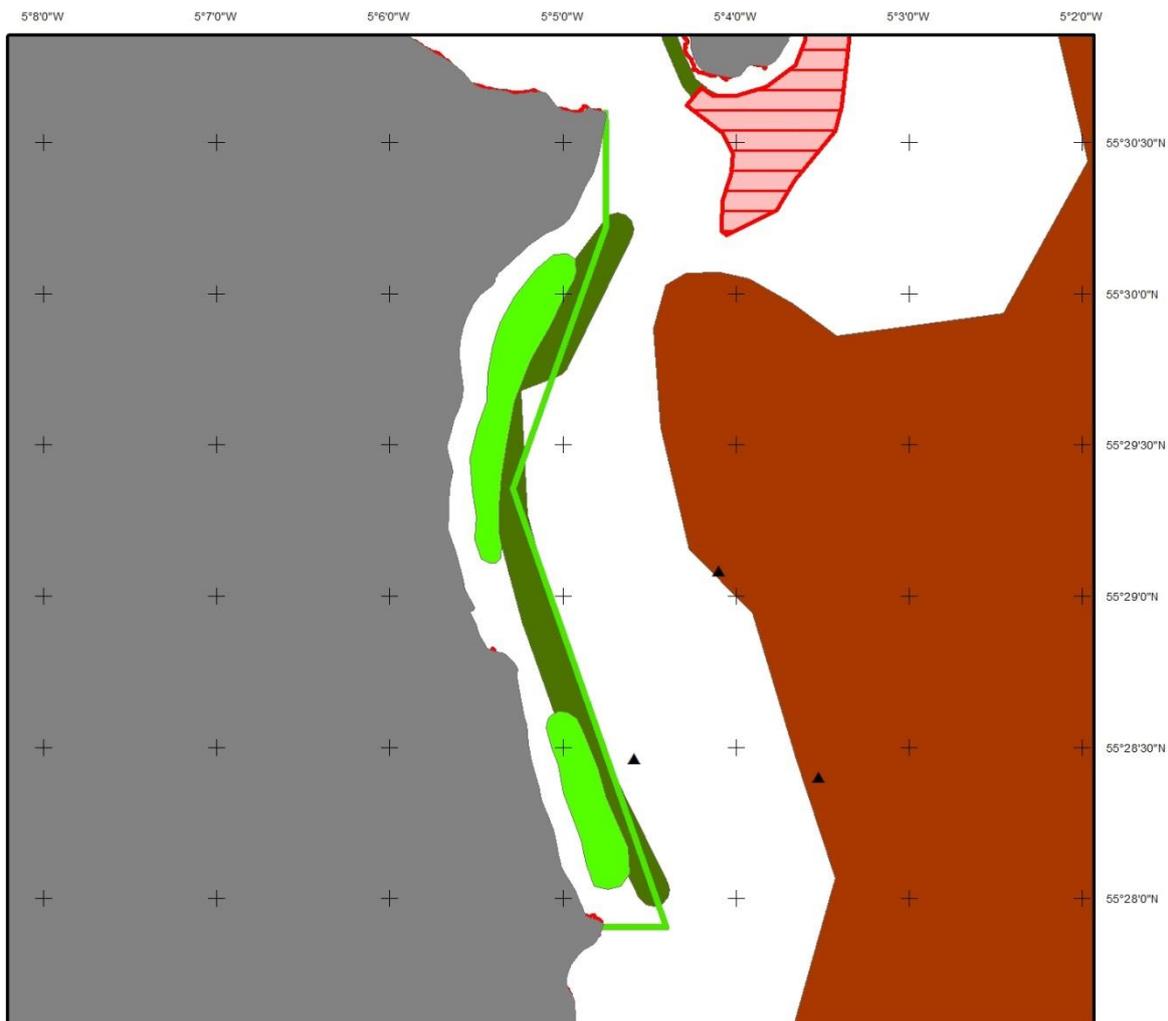
These measures would apply under all scenarios.

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The Lamlash bay NTZ would remain unchanged.
 All forms of suction dredging and would be prohibited
 throughout the MPA.

The 3 maerl recovery areas (identified in SNH CR749)
 and the additional area identified in the September 2014
 survey would prohibit all bottom contacting activities.

Figure L2: General measures and maerl recovery areas



South Arran MPA

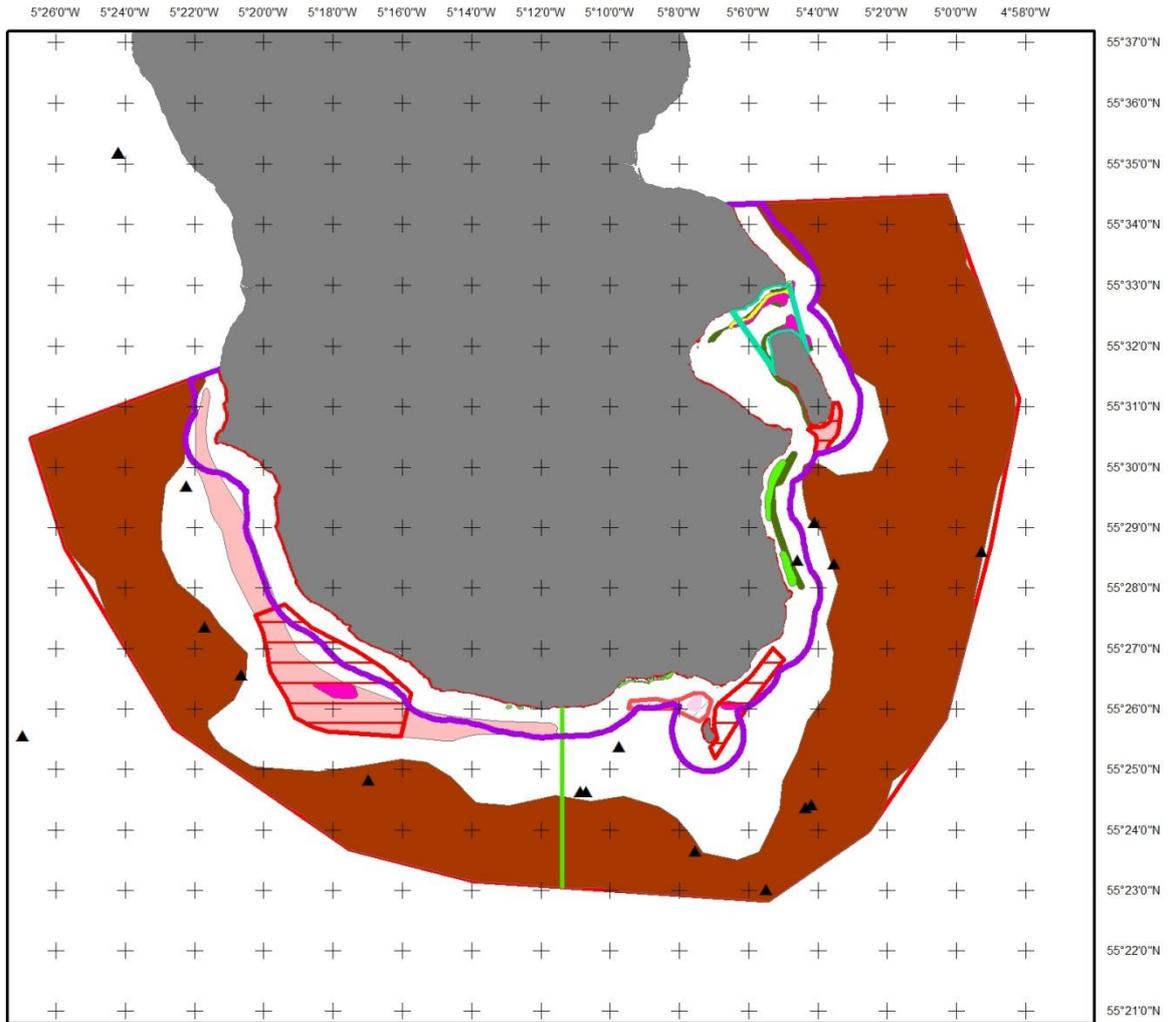
- Land
- No anchoring area
- MPA Boundary
- Maerl recovery areas
- Ocean quahog
- Burrowed mud
- Kelp and seaweed communities on sublittoral sediment
- Maerl beds
- Maerl or coarse shell gravel with burrowing sea cucumbers
- Seagrass beds
- Tide-swept coarse sands with burrowing bivalves

This measure applies to both approaches;

The deployment of anchors or any other bottom contacting device would be prohibited

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Figure L3: No deployment of anchors or other seabed devices area



South Arran MPA

- | | |
|--|---|
| ■ Land | ▲ Ocean quahog |
| □ MPA Boundary | ■ Burrowed mud |
| □ 1/2 NM limit | ■ Kelp and seaweed communities on sublittoral sediment |
| □ Lamlash Bay NTZ | ■ Maerl beds |
| — Scallop dredge line | ■ Maerl or coarse shell gravel with burrowing sea cucumbers |
| □ CR 749 Maerl recovery areas | ■ Seagrass beds |
| □ maerl recovery area Sept 2014 survey | ■ Tide-swept coarse sands with burrowing bivalves |
| □ maerl bed Sept 2014 survey | |

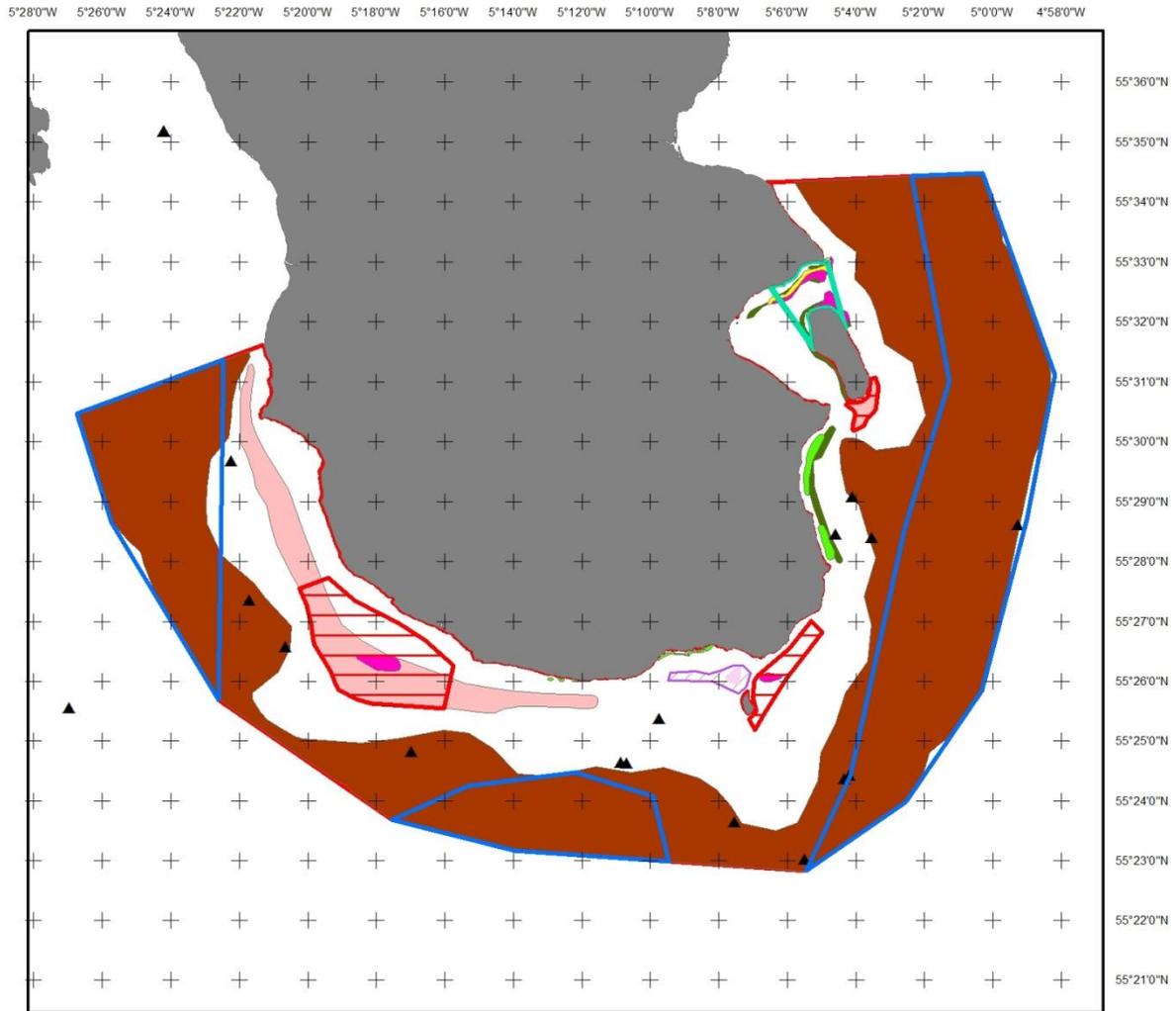
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Approach 1

Demersal trawl and mechanical dredge would be prohibited within the 1/2 NM limit shown in purple.

Mechanical dredging permitted west of green line in rest of the MPA only during January, February, November & December each year.

Figure L4: Approach 1 – 1/2 NM exclusion for demersal trawl and mechanical dredging



South Arran MPA

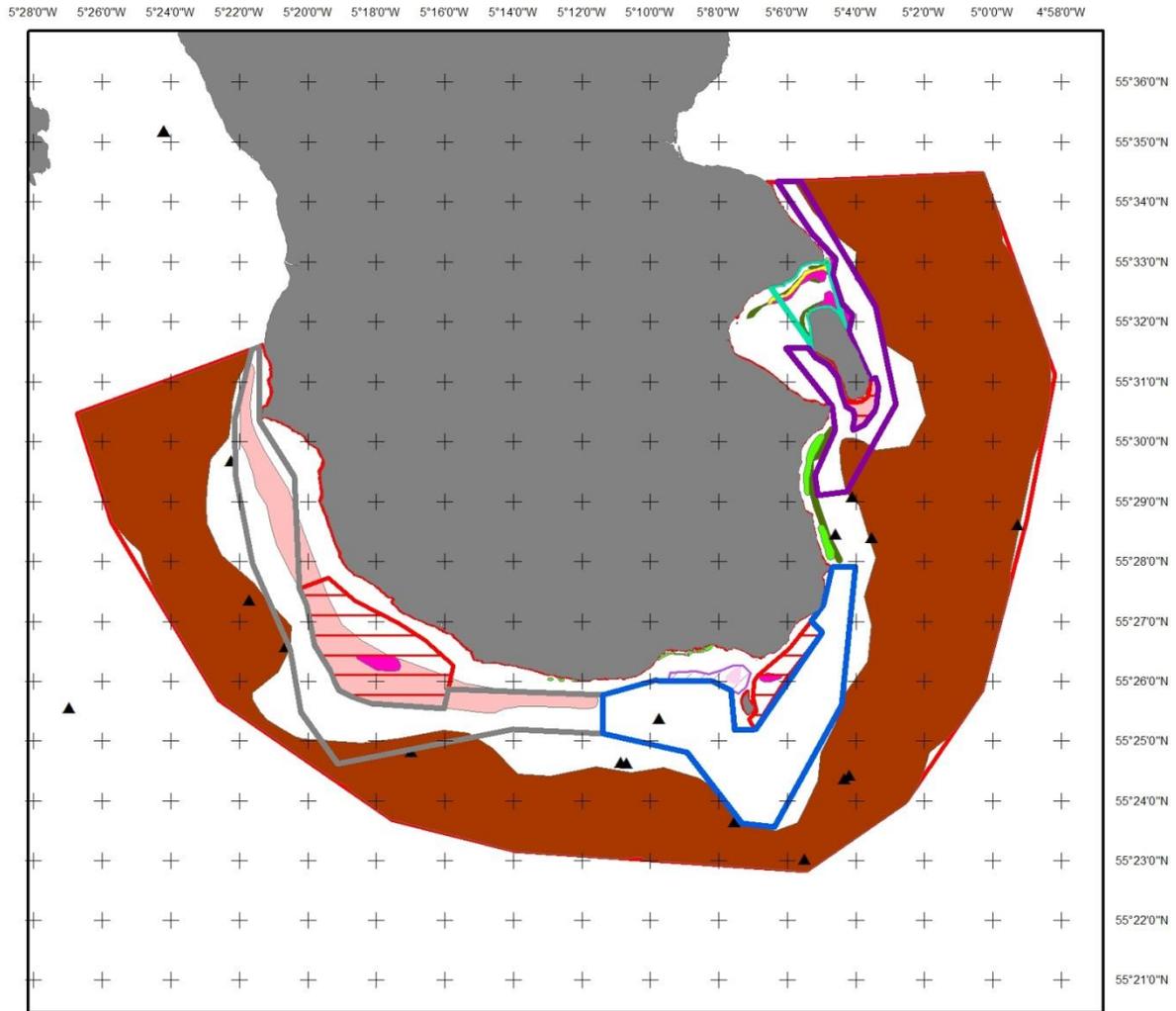
- Land
- MPA Boundary
- Designated demersal trawl areas
- Lamlash Bay NTZ
- CR 749 Maerl recovery areas
- maerl recovery area Sept 2014 survey
- maerl bed Sept 2014 survey
- Ocean quahog
- Burrowed mud
- Kelp and seaweed communities on sublittoral sediment
- Maerl beds
- Maerl or coarse shell gravel with burrowing sea cucumbers
- Seagrass beds
- Tide-swept coarse sands with burrowing bivalves

Approaches 2 and 3

Designated demersal trawl areas for vessels which are less than 100 GRT.

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Figure L5: Approaches 2 and 3 - Designated demersal trawl areas



South Arran MPA

- | | |
|--|---|
| ■ Land | ▲ Ocean quahog |
| □ MPA Boundary | ■ Burrowed mud |
| □ scallop permit area 1 | ■ Kelp and seaweed communities on sublittoral sediment |
| □ Scallop permit area 2 | ■ Maerl beds |
| □ Scallop permit area 3 | ■ Maerl or coarse shell gravel with burrowing sea cucumbers |
| □ Lamlash Bay NTZ | ■ Seagrass beds |
| □ CR 749 Maerl recovery areas | ■ Tide-swept coarse sands with burrowing bivalves |
| □ maerl recovery area Sept 2014 survey | |
| □ maerl bed Sept 2014 survey | |

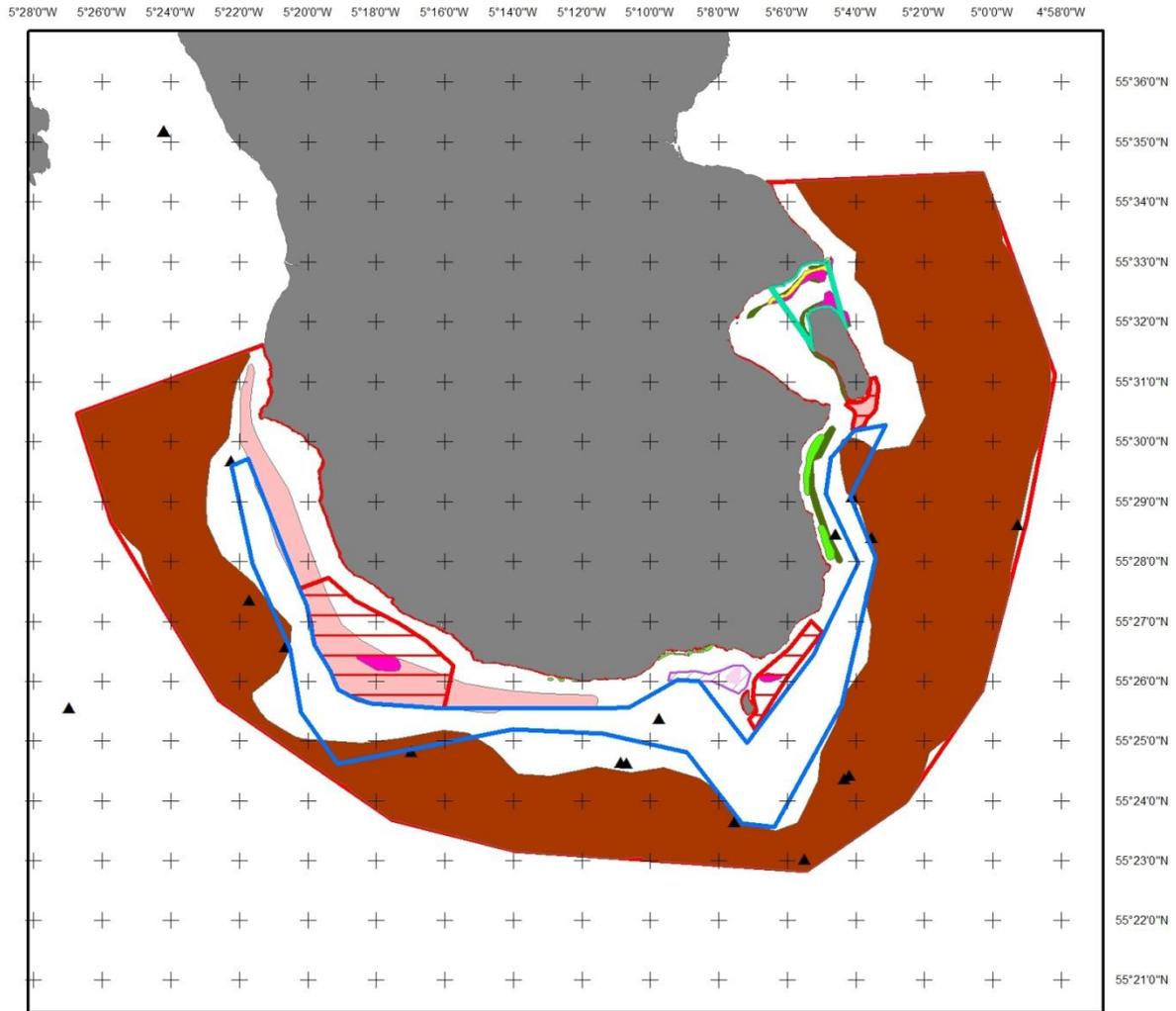
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Approach 2

Scallop dredge permit areas

This would be a fishery with greater restriction. See approaches to management description for greater detail

Figure L6: Approach 2 – Scallop permit areas



South Arran MPA

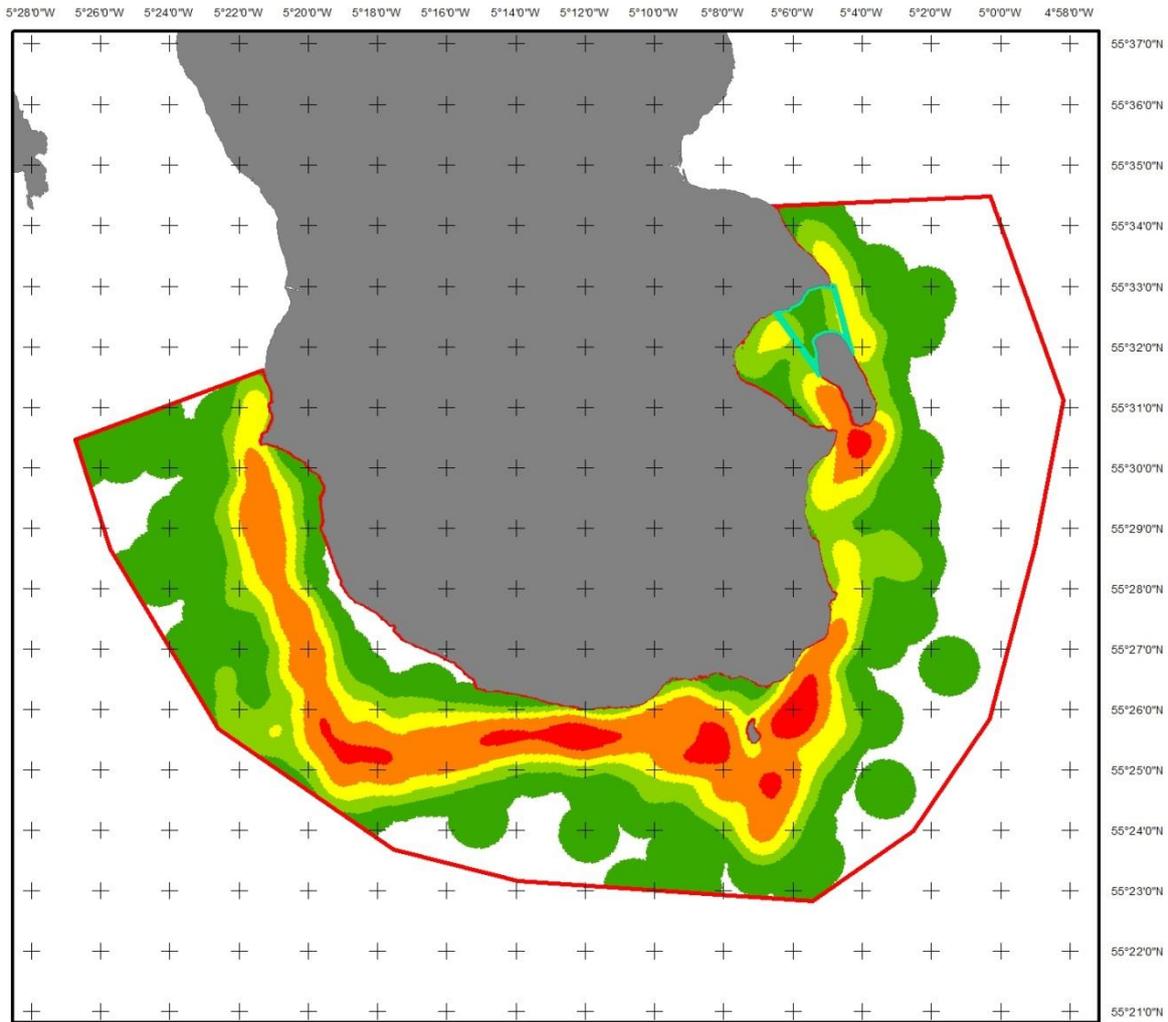
- Land
- MPA Boundary
- Designated scallop dredge fishing area
- Lamlash Bay NTZ
- CR 749 Maerl recovery areas
- maerl recovery area Sept 2014 survey
- maerl bed Sept 2014 survey
- Ocean quahog
- Burrowed mud
- Kelp and seaweed communities on sublittoral sediment
- Maerl beds
- Maerl or coarse shell gravel with burrowing sea cucumbers
- Seagrass beds
- Tide-swept coarse sands with burrowing bivalves

Approach 3

Designated scallop dredge area

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Figure L7: Approach 3 – Designated scallop dredge fishing area

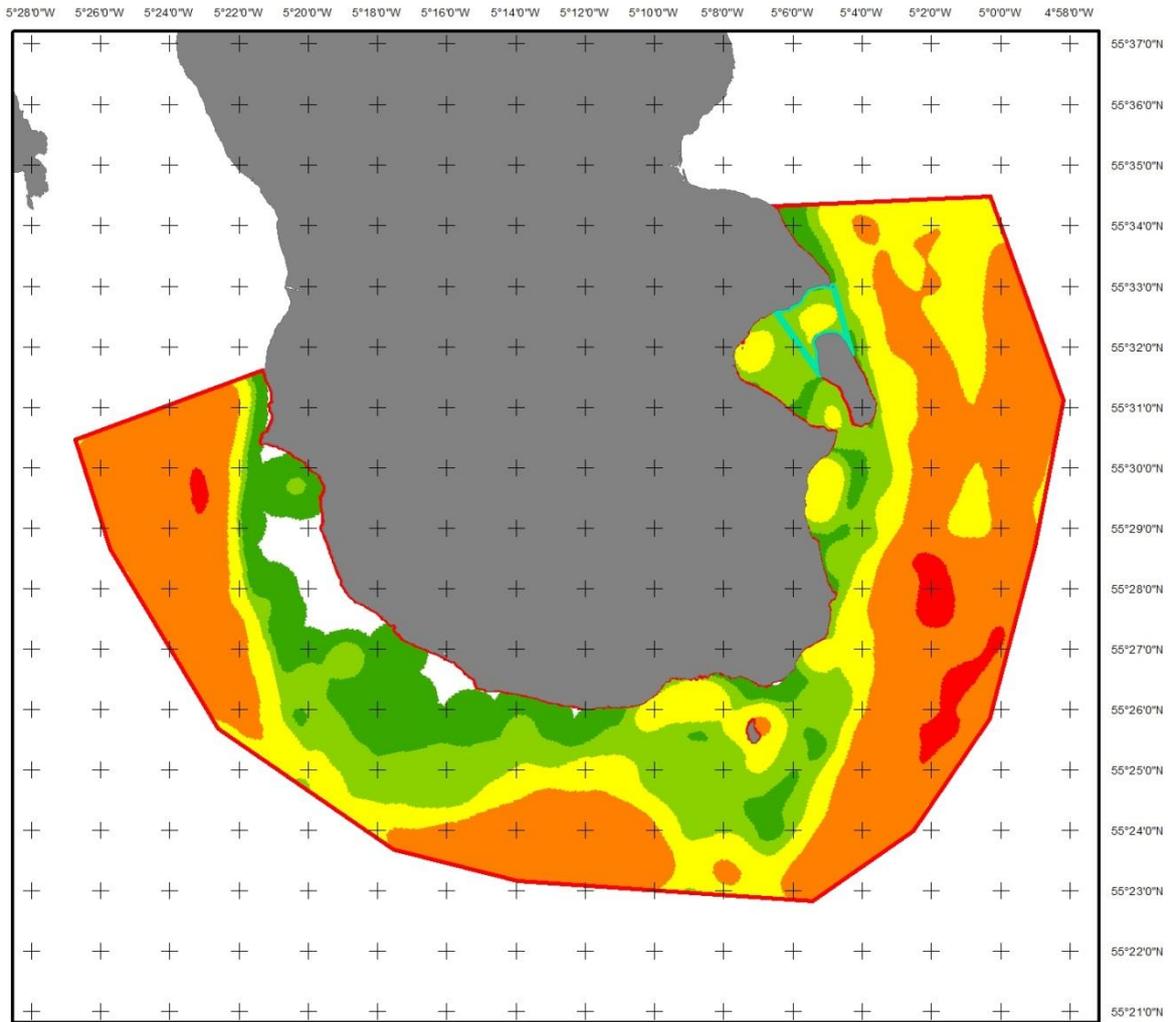


South Arran MPA
Showing VMS scallop dredge density (2007-2013)



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 Projection: Mercator Datum: WGS 1984 Standard Parallel: 55°30"N Scale 1:175,000

Figure L8: VMS data (2007-13) Scallop dredge kernel density analysis

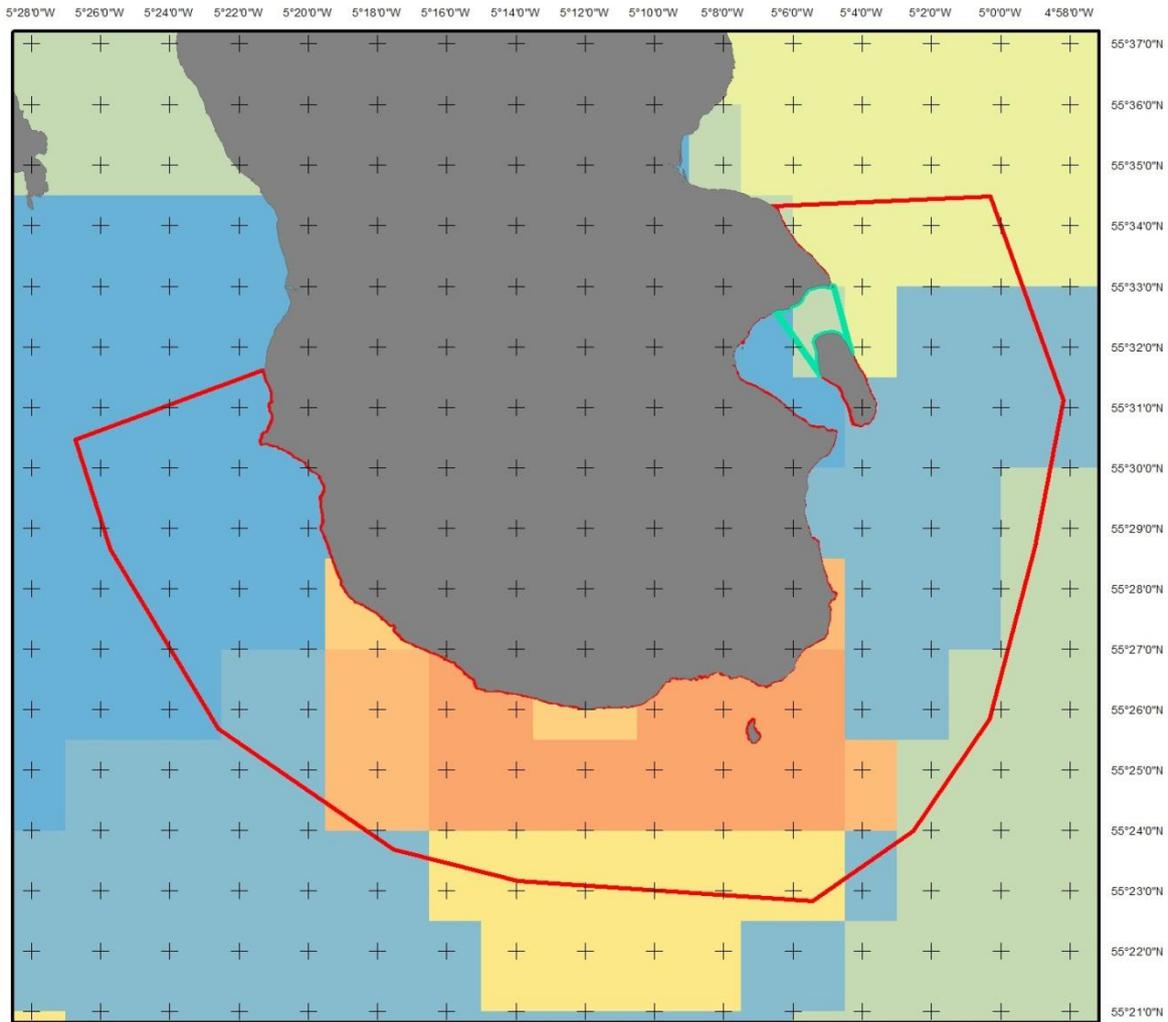


**South Arran MPA
Showing VMS Nephrops trawl density (2007-2013)**

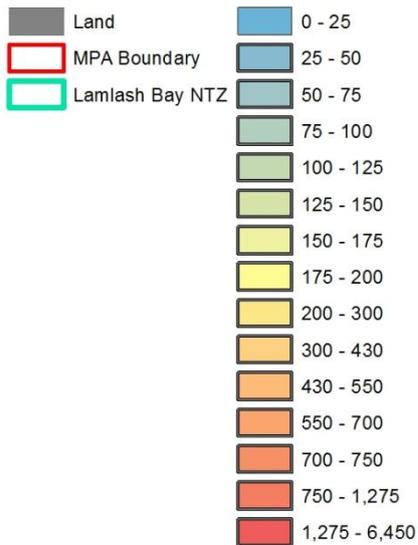


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Using Geodatabase of Marine Features Adjacent to Scotland (GEMS i12 - May 2014).
Projection: Mercator Datum: WGS 1984 Standard Parallel: 55°30"N Scale 1:175,000

Figure L9: VMS data (2007-13) Demersal trawl kernel density analysis

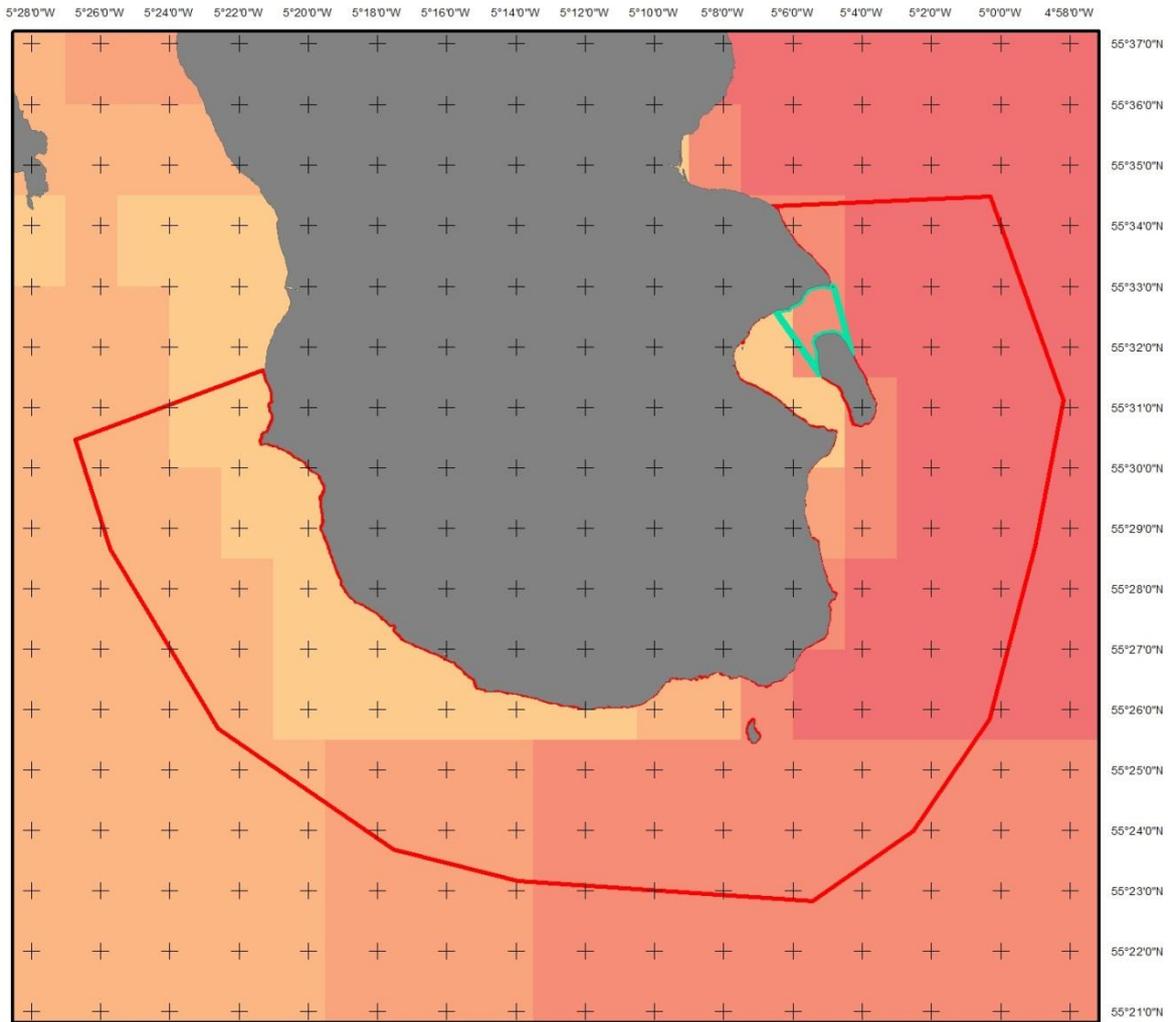


South Arran MPA
Showing SCOTMAP (2007-2011) scallop dredge value

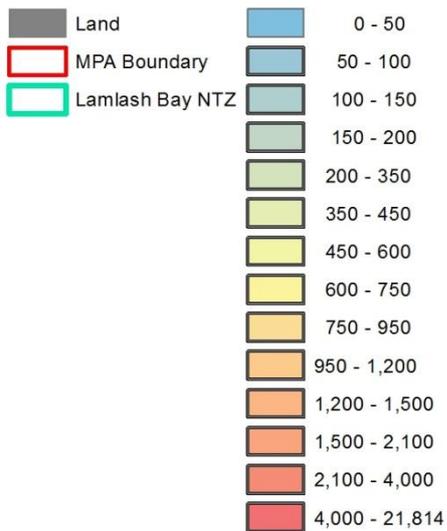


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Figure L10: SCOTMAP (2007-11) Scallop dredge value



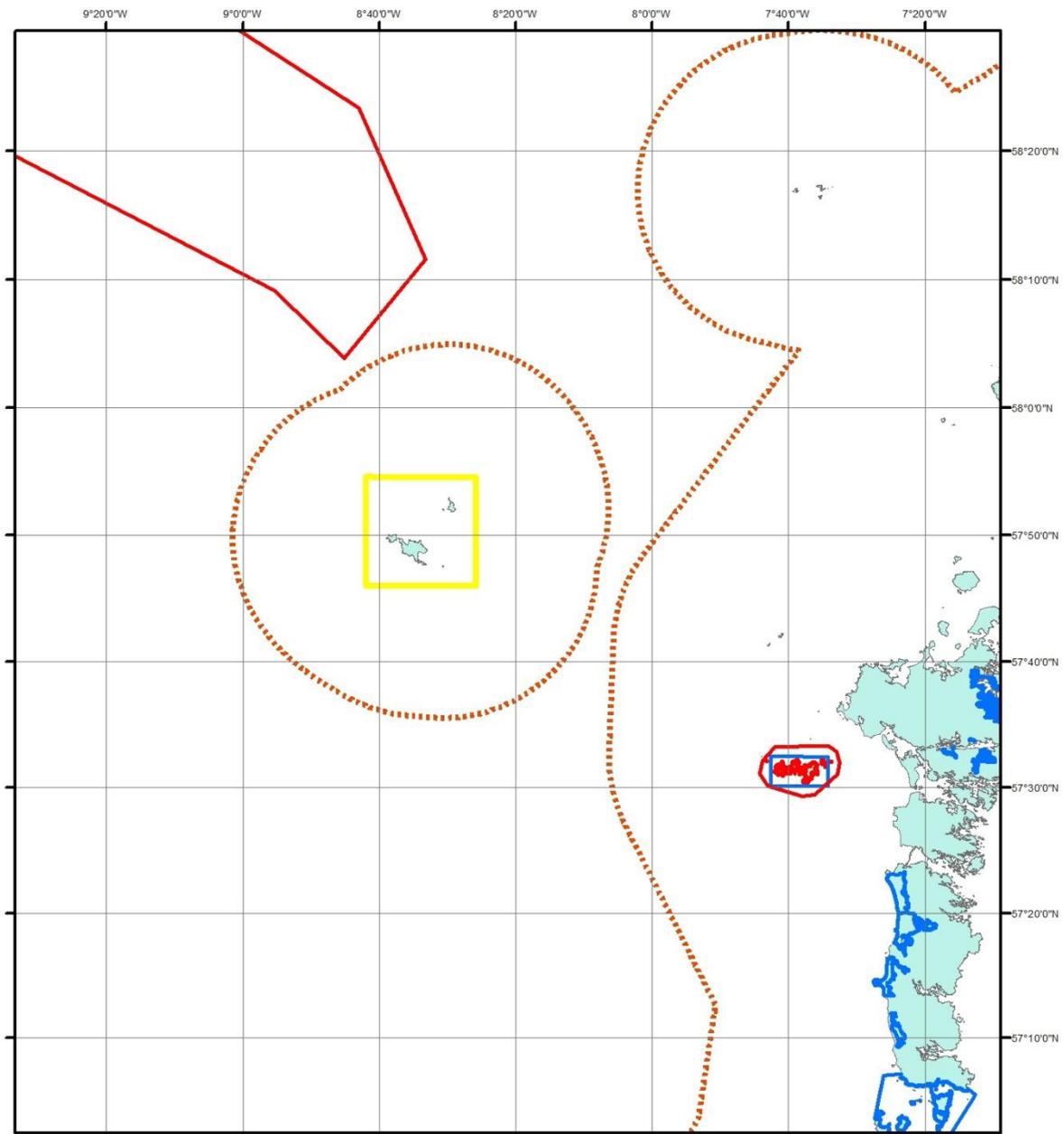
**South Arran MPA
Showing SCOTMAP (2007-2011) Nephrops trawl value**



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Figure L11: SCOTMAP (2007-11) Nephrops trawl value

Protected Area M – St Kilda SAC

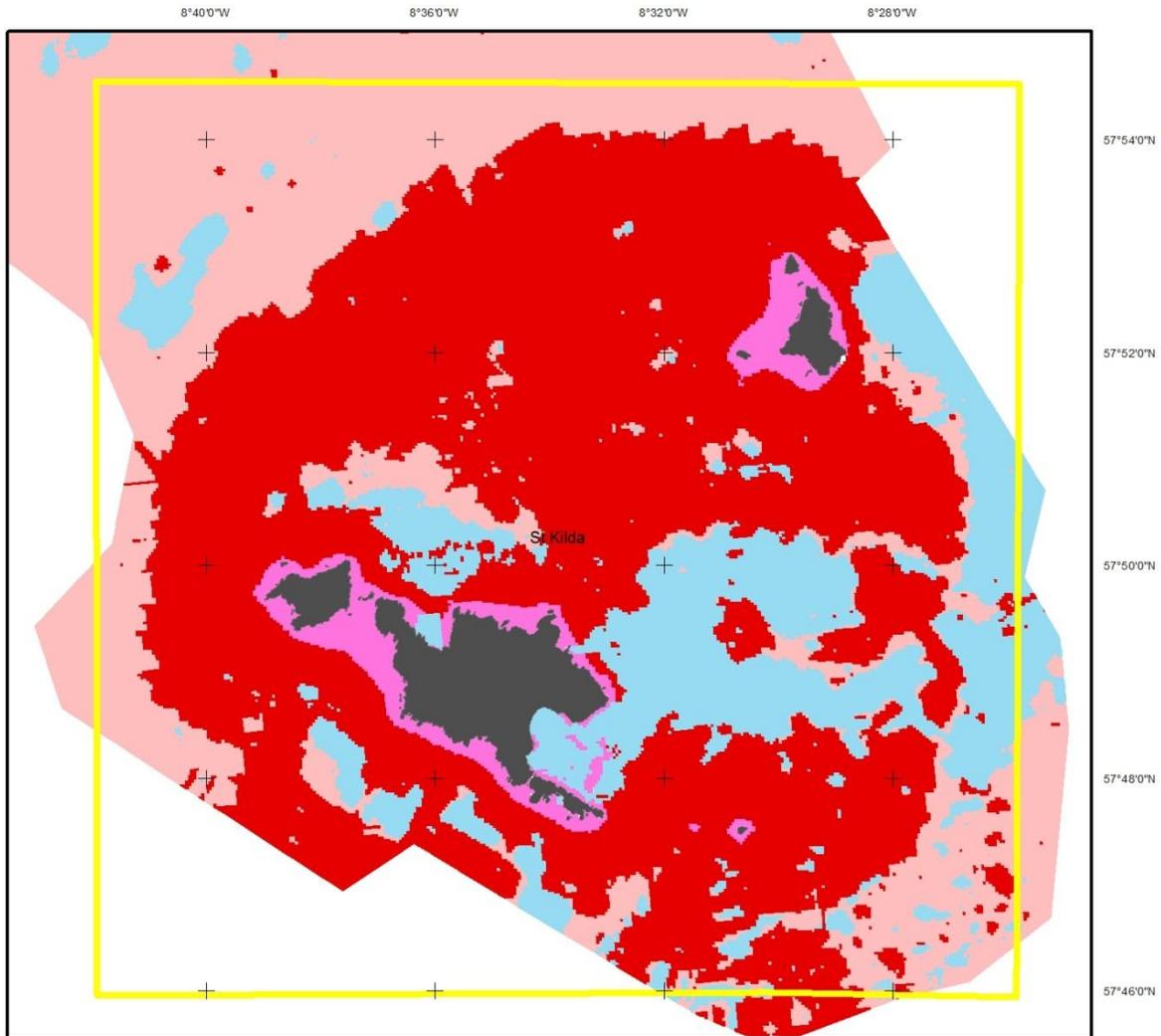


St Kilda SAC Spatial relationship with other protected areas

- Land
- Territorial waters
- St Kilda SAC
- NC MPA
- Inshore SAC

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Figure M1: St Kilda SAC in context with other protected areas



St Kilda SAC

- Land
- SAC boundary
- Reef
- Kelp and Faunal Turf
- Bedrock/Cobble/Sand
- Non reef

Approach 1

The proposal is to prohibit demersal trawl, mechanical dredging, and any form of suction or hydraulic dredging throughout the SAC

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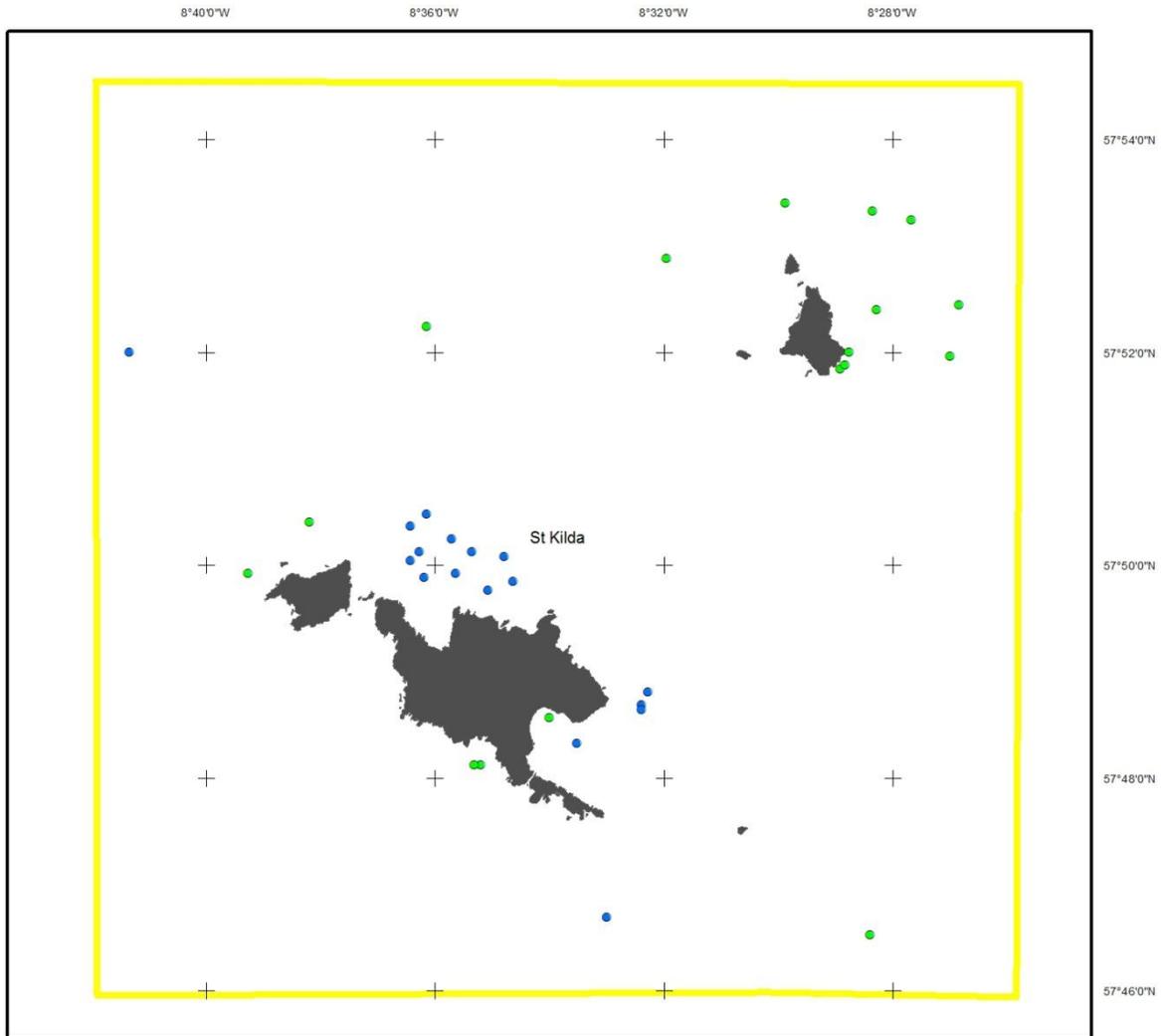
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Figure M2: St Kilda SAC management approach 1



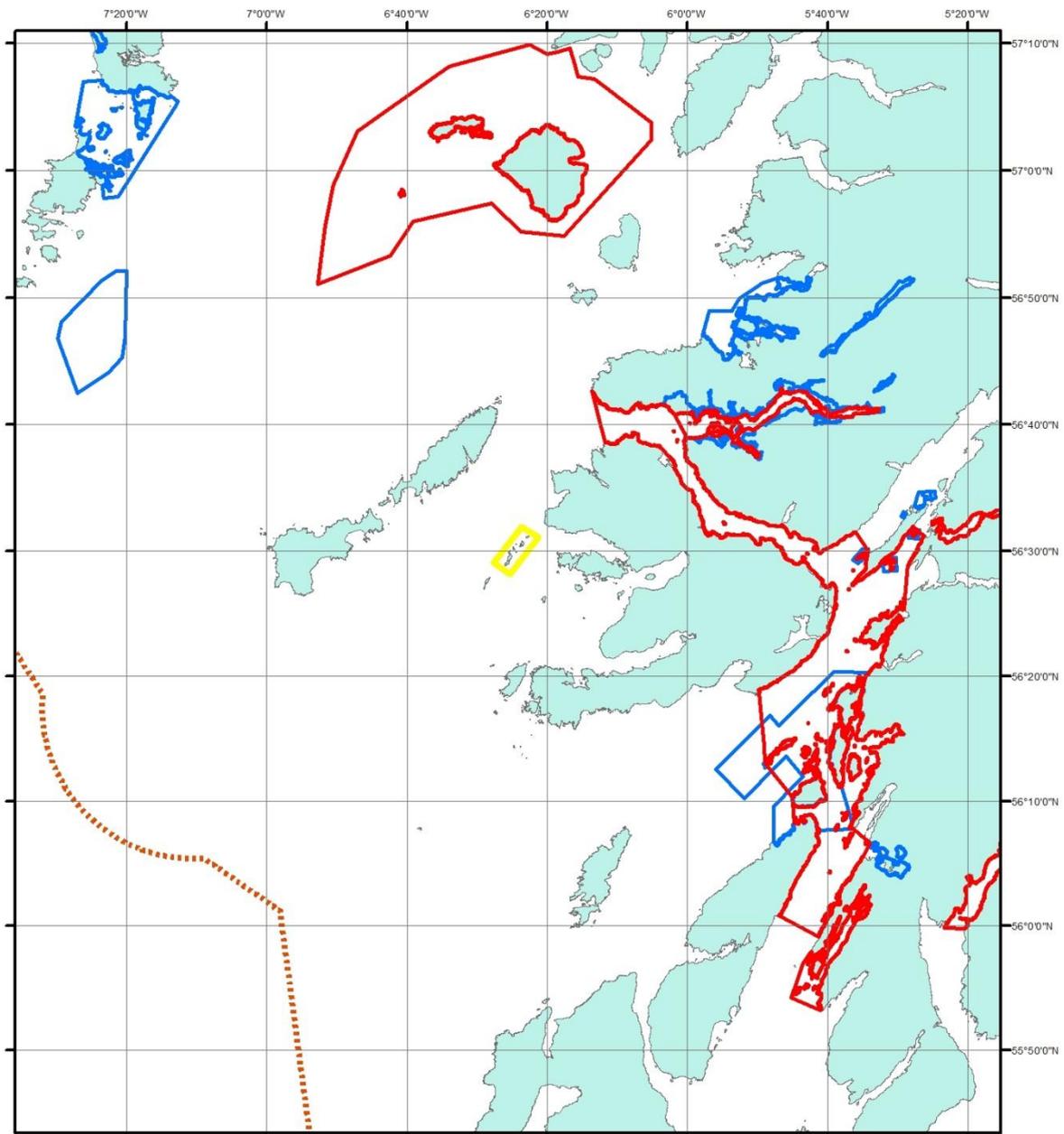
St Kilda SAC Showing VMS data (2010-13)

- Land
- SAC boundary
- Trawls
- Dredge
- Static

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Figure M3: St Kilda SAC – trawl VMS data 2010 – 2013

Protected Area N – Treshnish Isles SAC

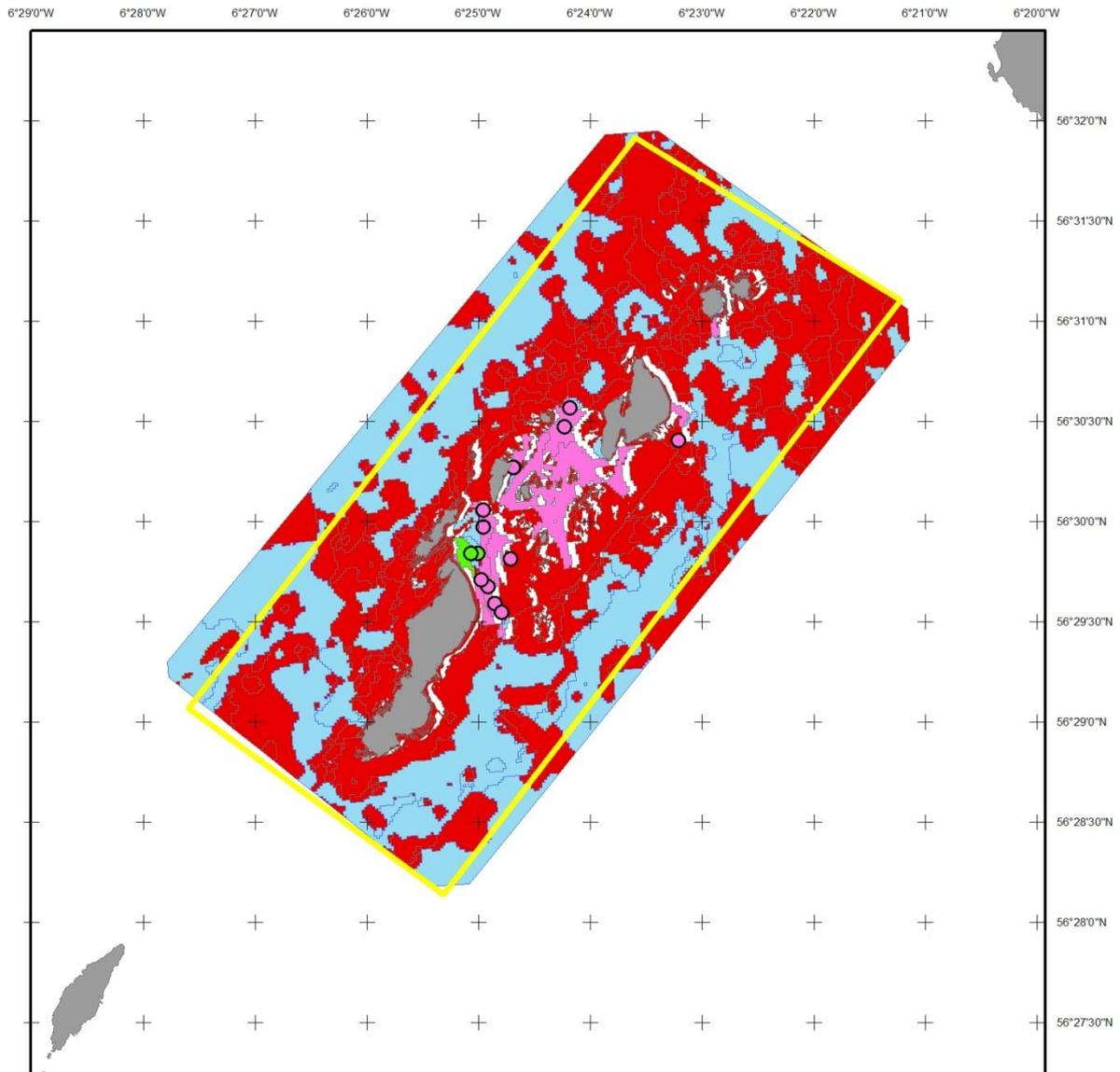


Treshnish Isles SAC Spatial relationship with other protected areas

- Land
- Territorial waters
- Treshnish Isles SAC
- NC MPA
- Inshore SAC

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Figure N1: Treshnish Isles SAC along with nearby protected areas.



Treshnish Isles SAC

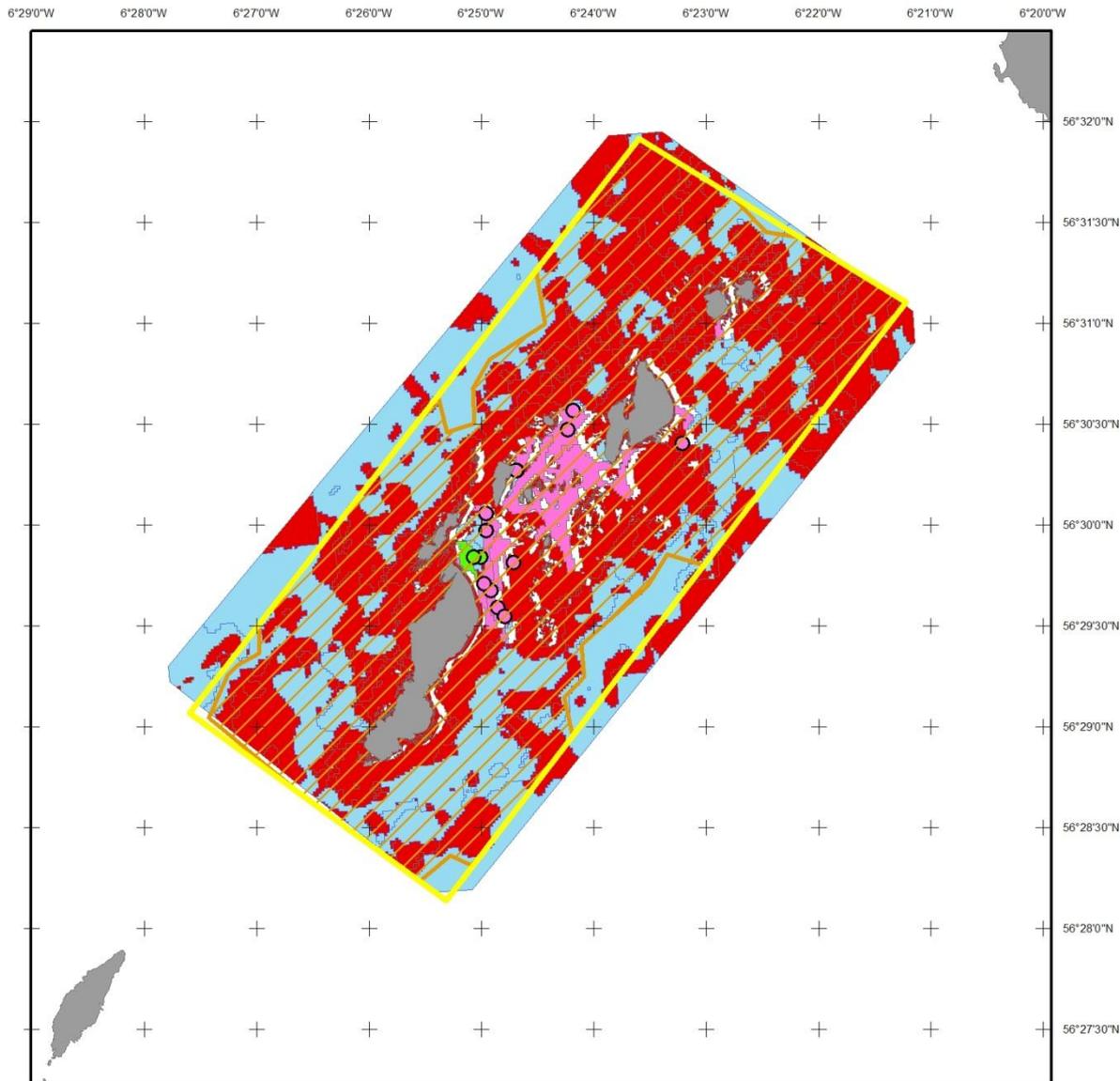
Approach 1

- Land
- SAC boundary
- Seagrass (not SAC qualifying feature)
- Maerl beds (not SAC qualifying feature)
- Reef
- Non reef

There would be no demersal trawl, mechanical dredging, or suction dredging permitted within the SAC.

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Figure N2: Measures proposed under approach 1 for Treshnish Isles SAC



Treshnish Isles SAC

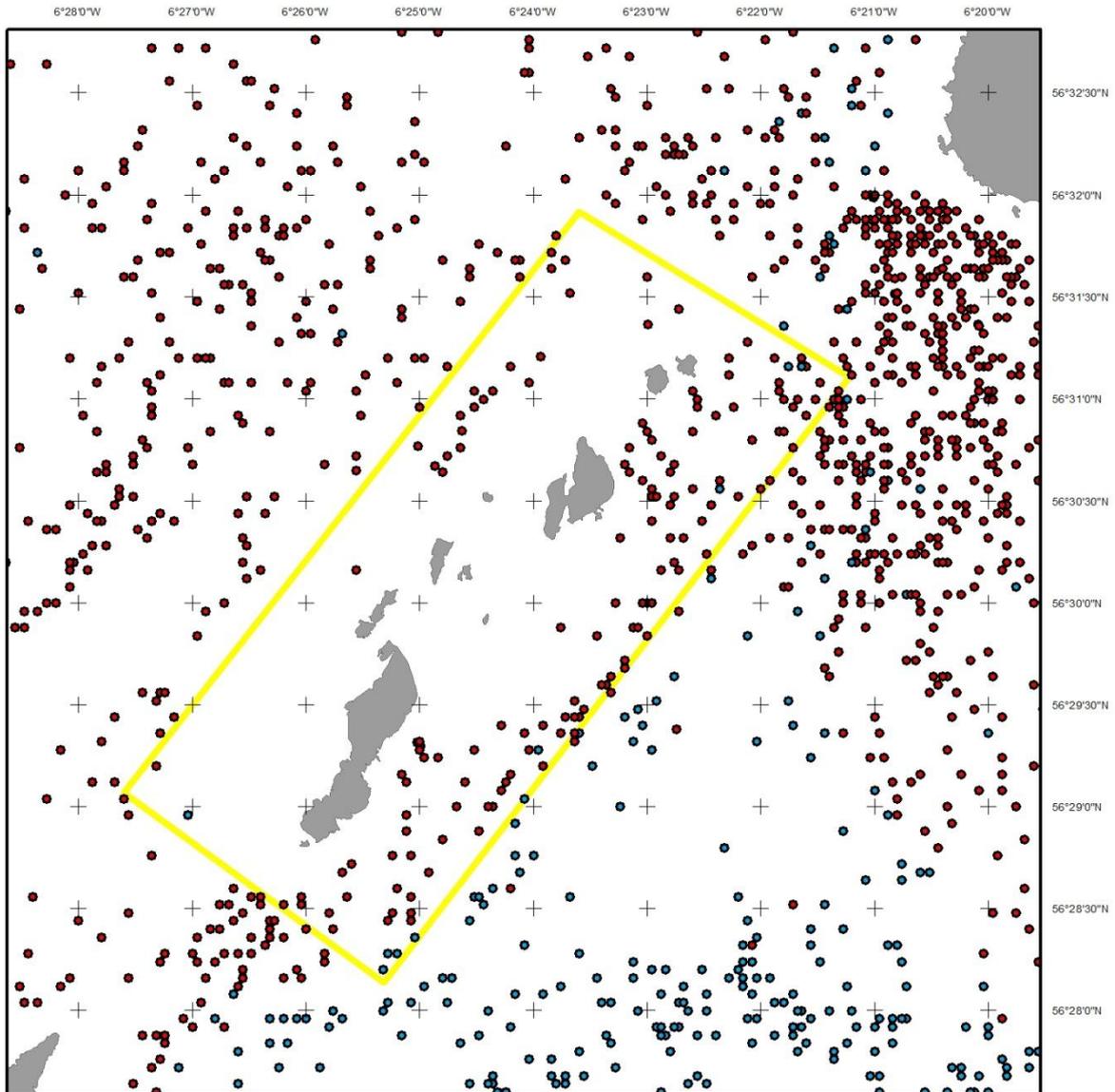
Approach 2

- Land
- SAC boundary
- Prohibited area
- Seagrass (not SAC qualifying feature)
- Maerl beds (not SAC qualifying feature)
- Reef
- Non reef

There would be no demersal trawl, mechanical dredging, or suction dredging permitted within the orange hatched area.

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Figure N3: Measures proposed under approach 2 for Treshnish Isles SAC

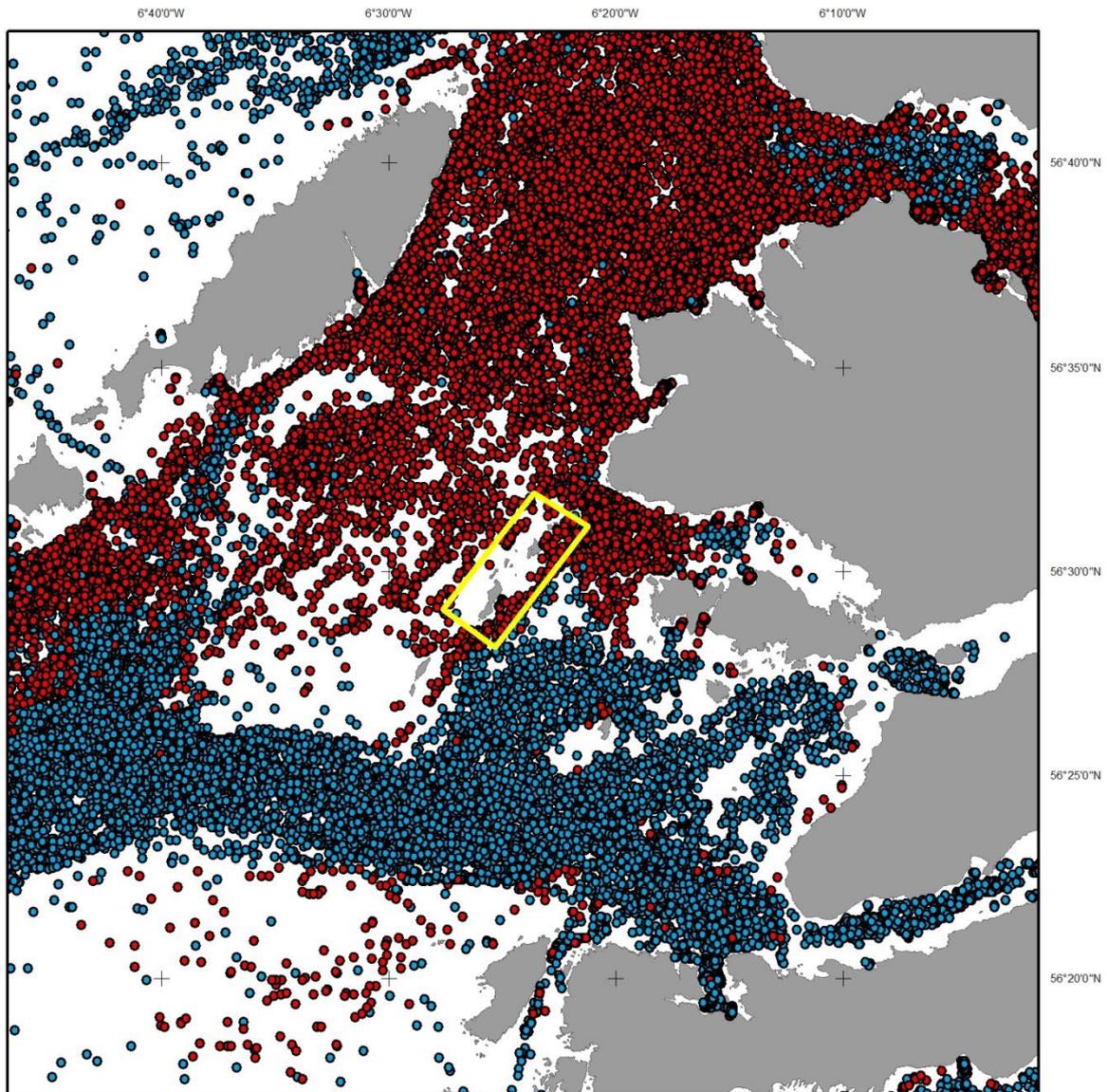


**Treshnish Isles SAC
Showing VMS Data (2010-2013)**

- Land
- Trawls
- SAC boundary
- Dredge

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Projection: Mercator Datum: WGS 1984 Standard Parallel: 56°N Scale 1:50,000

Figure N4: VMS data from 2010 – 2013 in or near Treshnish Isles SAC

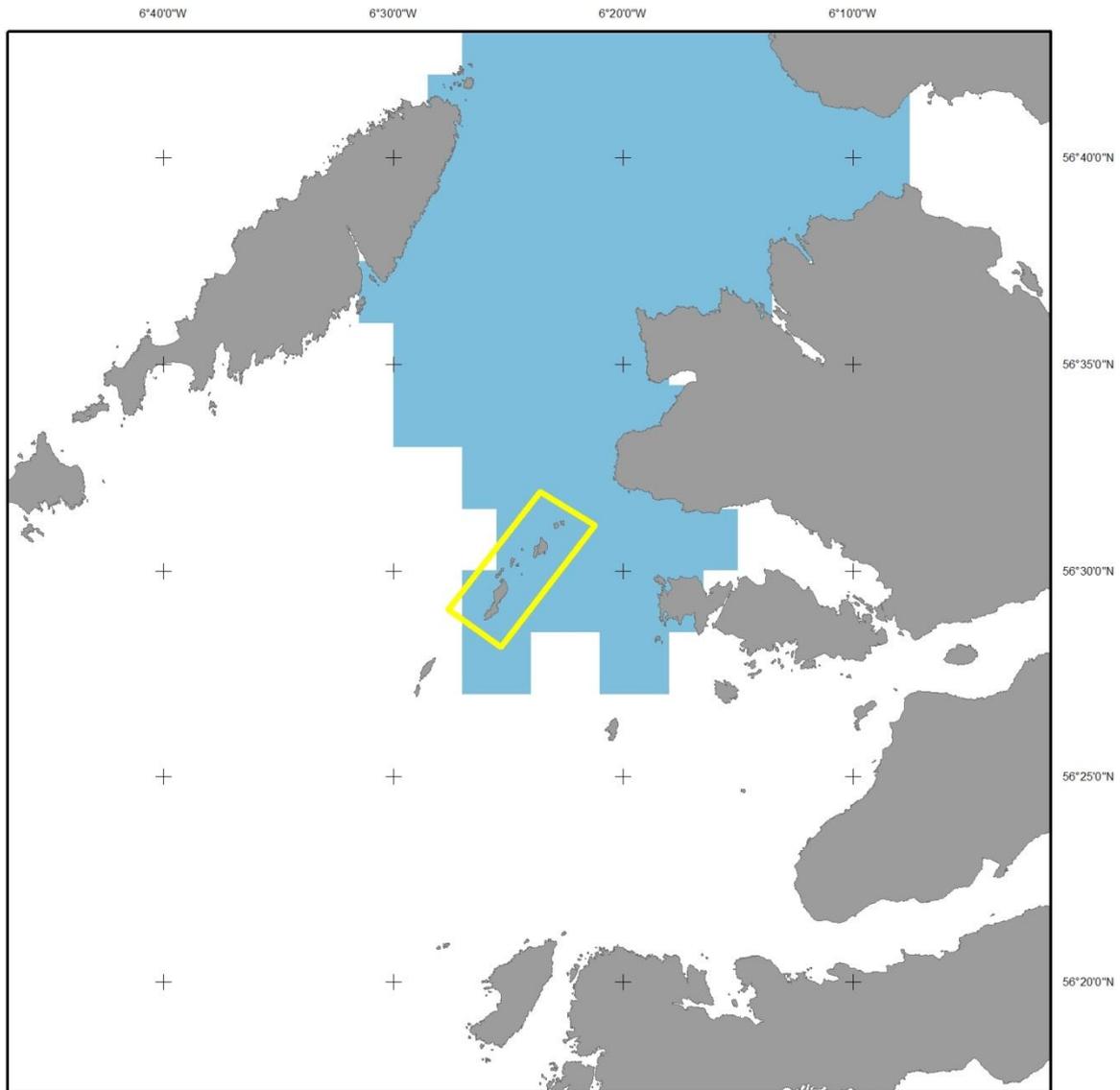


Treshnish Isles SAC
Showing VMS Data (2010-2013)

- Land
- Trawls
- SAC boundary
- Dredge

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 Using additional habitats data provided by Scottish Natural Heritage (June 2014)
 Projection: Mercator Datum: WGS 1984 Standard Parallel: 56°N Scale 1:250,000

Figure N5: VMS data from 2010 – 2013 in the wider area around Treshnish Isles SAC

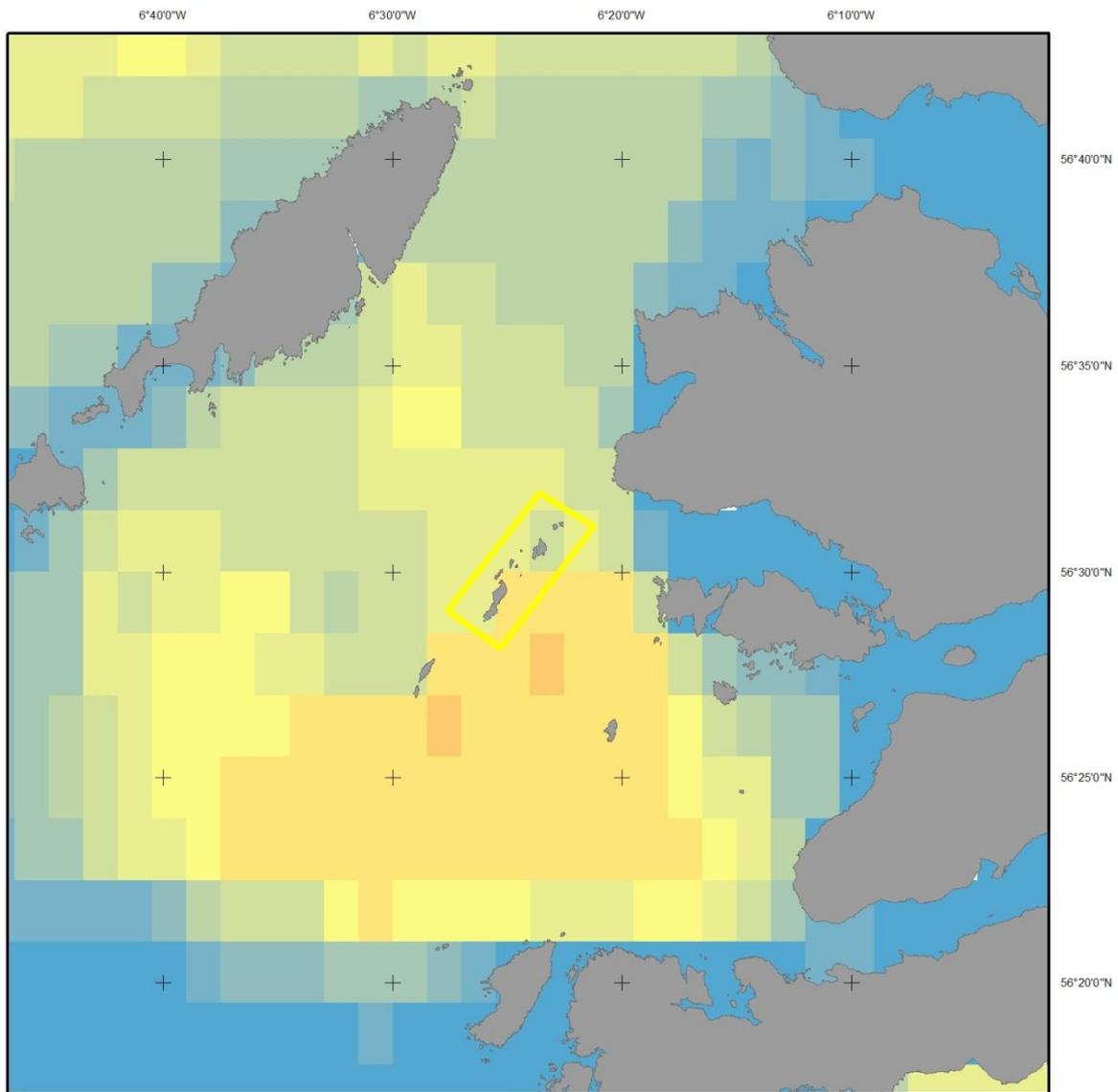


Treshnish Isles SAC
Showing SCOTMAP (2007-2011) scallop dredge number of vessels

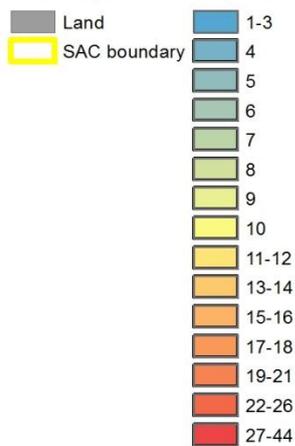
■ Land	■ 3
■ SAC boundary	■ 3 - 5

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 Using Geodatabase of Marine Features Adjacent
 to Scotland (GEMS i12 - May 2014).
 Using additional habitats data provided by
 Scottish Natural Heritage (June 2014)
 Projection: Mercator Datum: WGS 1984
 Standard Parallel: 56°N Scale 1:250,000

Figure N6: SCOTMAP (2007-11) Scallop dredge number of vessels



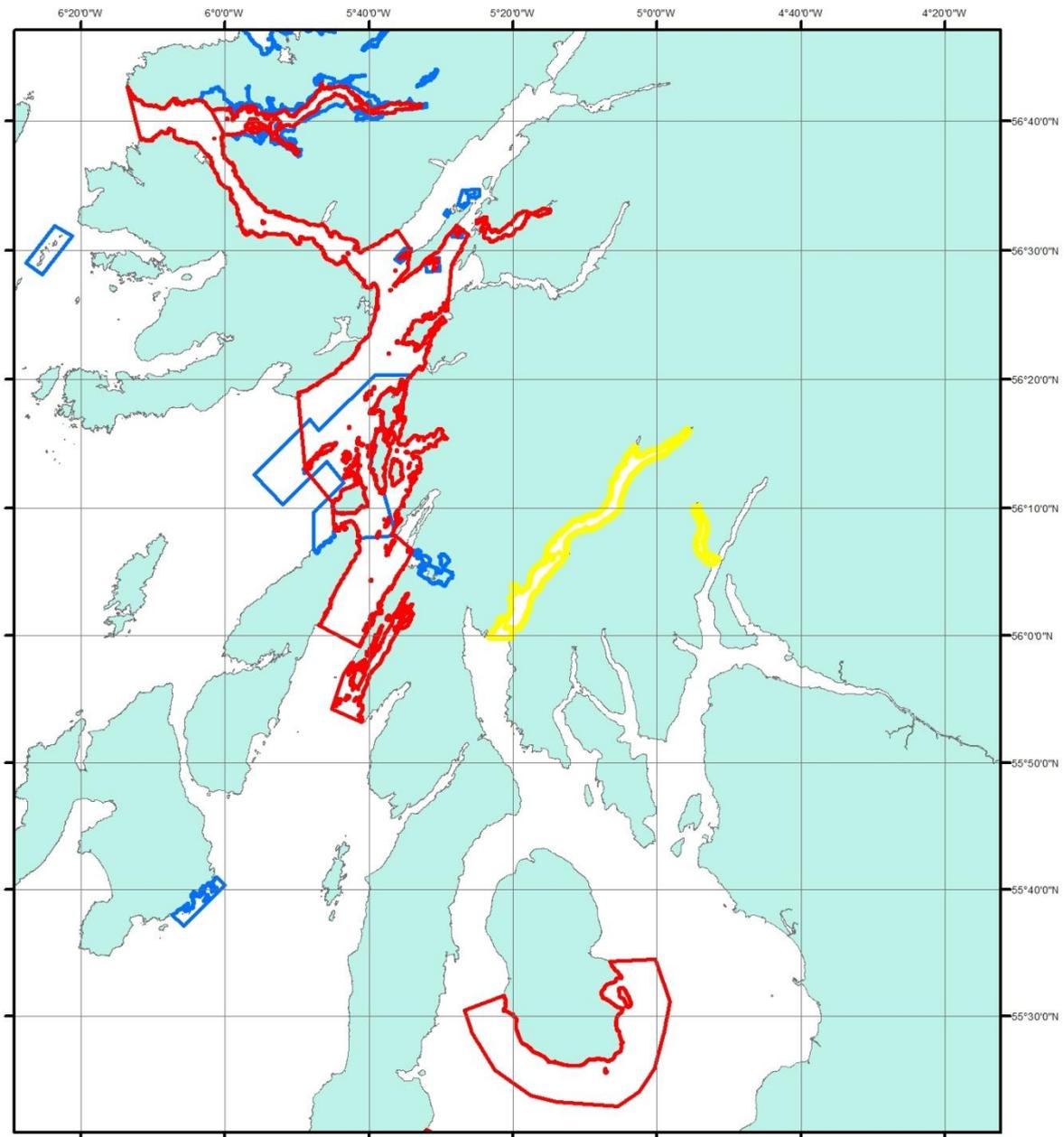
Treshnish Isles SAC
Showing SCOTMAP (2007-2011) nephrops trawl number of vessels



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 Using additional habitats data provided by
 Scottish Natural Heritage (June 2014)
 Projection: Mercator Datum: WGS 1984
 Standard Parallel: 56°N Scale 1:250,000

Figure N7: SCOTMAP (2007-11) Nephrops trawl number of vessels

Protected Area P – Upper Loch Fyne & Loch Goil MPA

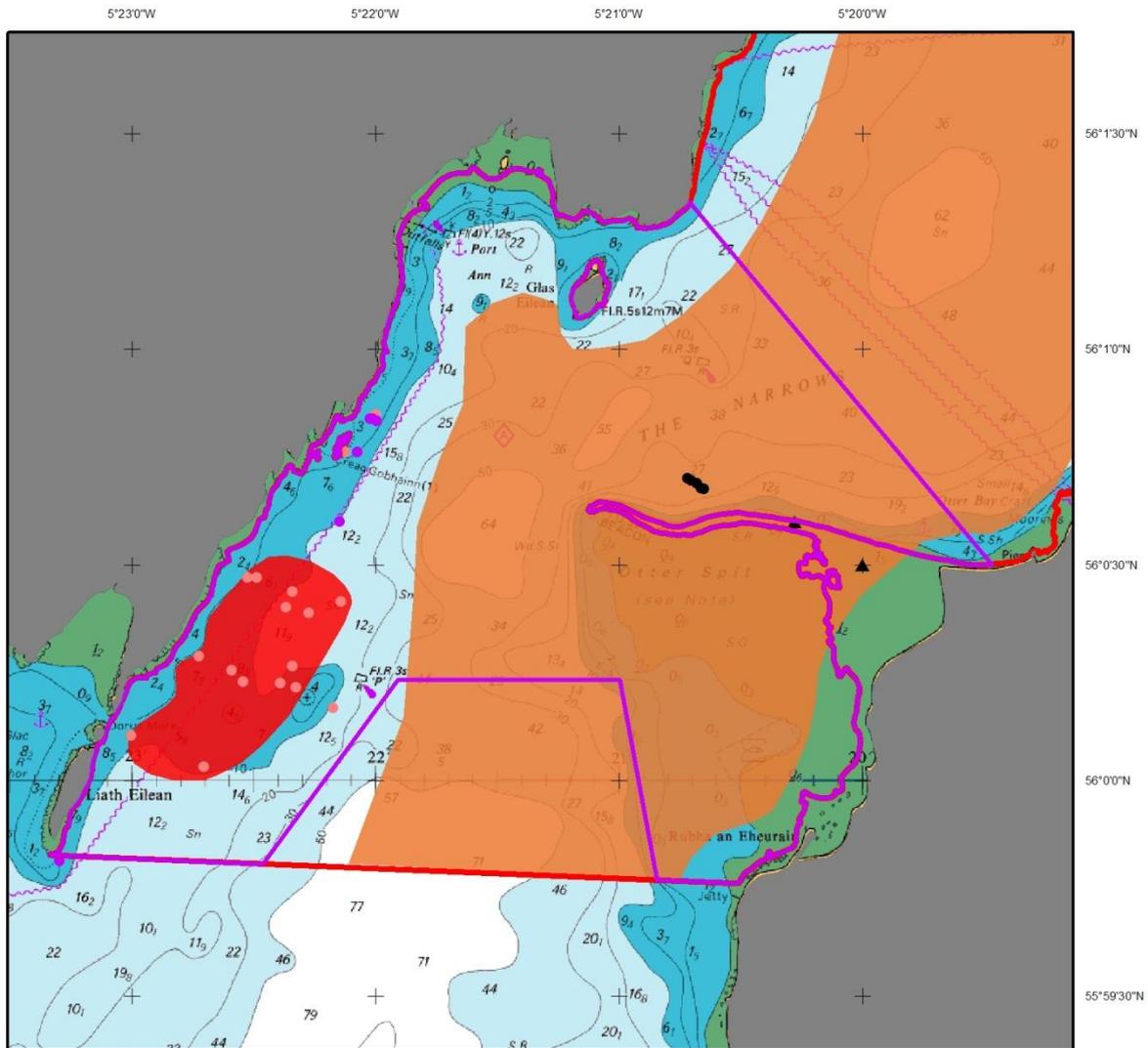


Upper Loch Fyne & Loch Goil MPA Spatial relationship with other protected areas

- Land
- Upper Loch Fyne & Loch Goil MPA
- NC MPA
- Inshore SAC

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Figure P1: Upper Loch Fyne & Loch Goil MPA in context with other protected areas



Upper Loch Fyne and Loch Goil MPA

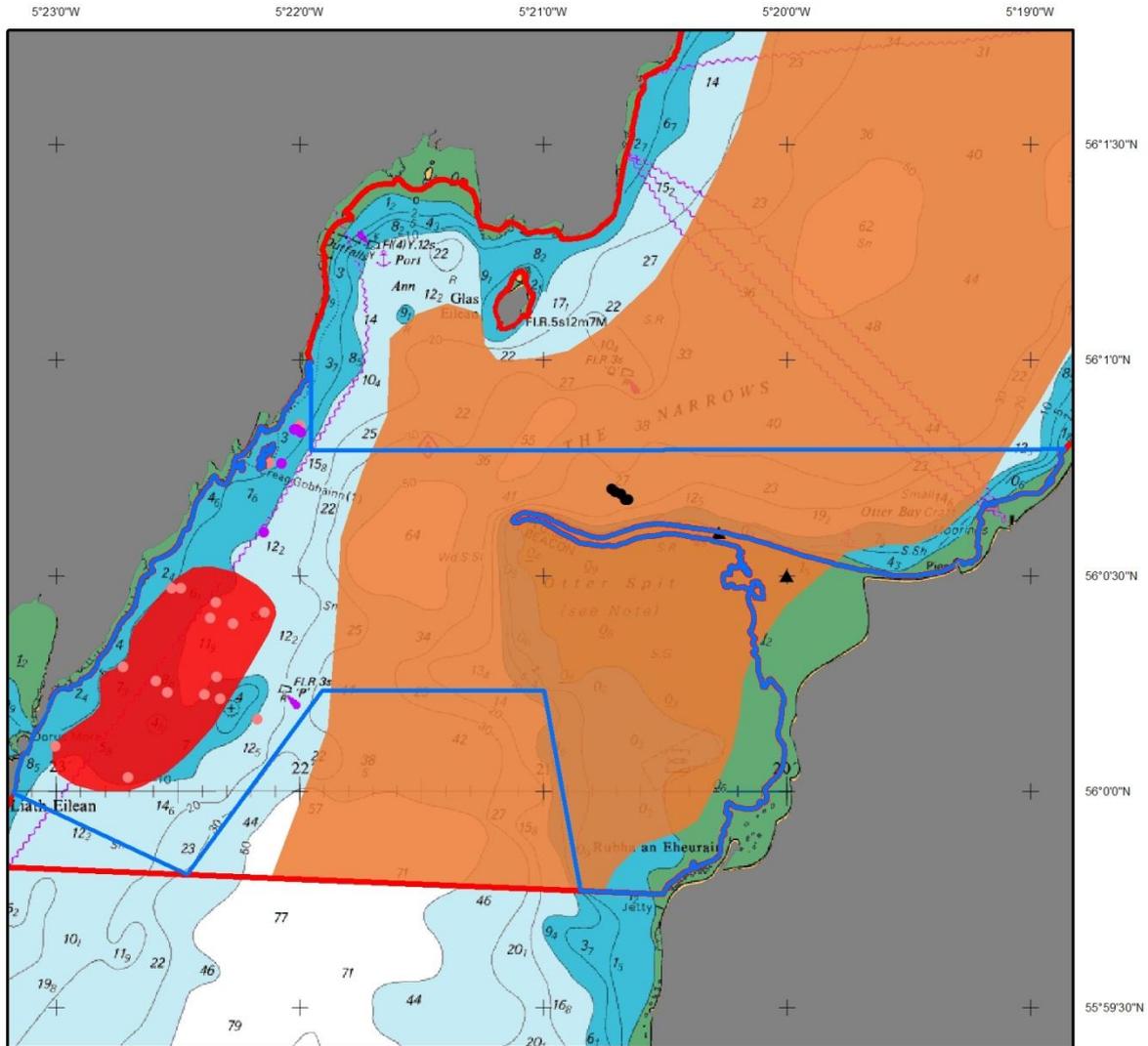
- Land
- MPA boundary
- Approach 1a - flame shell recovery area
- Flame shell beds
- Horse mussel beds
- Maerl beds (not a protected feature)
- Burrowed mud
- Flame shell beds
- Sublittoral mud and specific mixed sediment communities
- Fireworks anemone
- Ocean quahog

Approach 1a - flame shell recovery area

There would be no bottom contacting fishing gear permitted in this area. In addition the deployment of any bottom contacting device would be prohibited.

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Figure P2: Approach 1a for a flame shell recovery area



Upper Loch Fyne and Loch Goil MPA

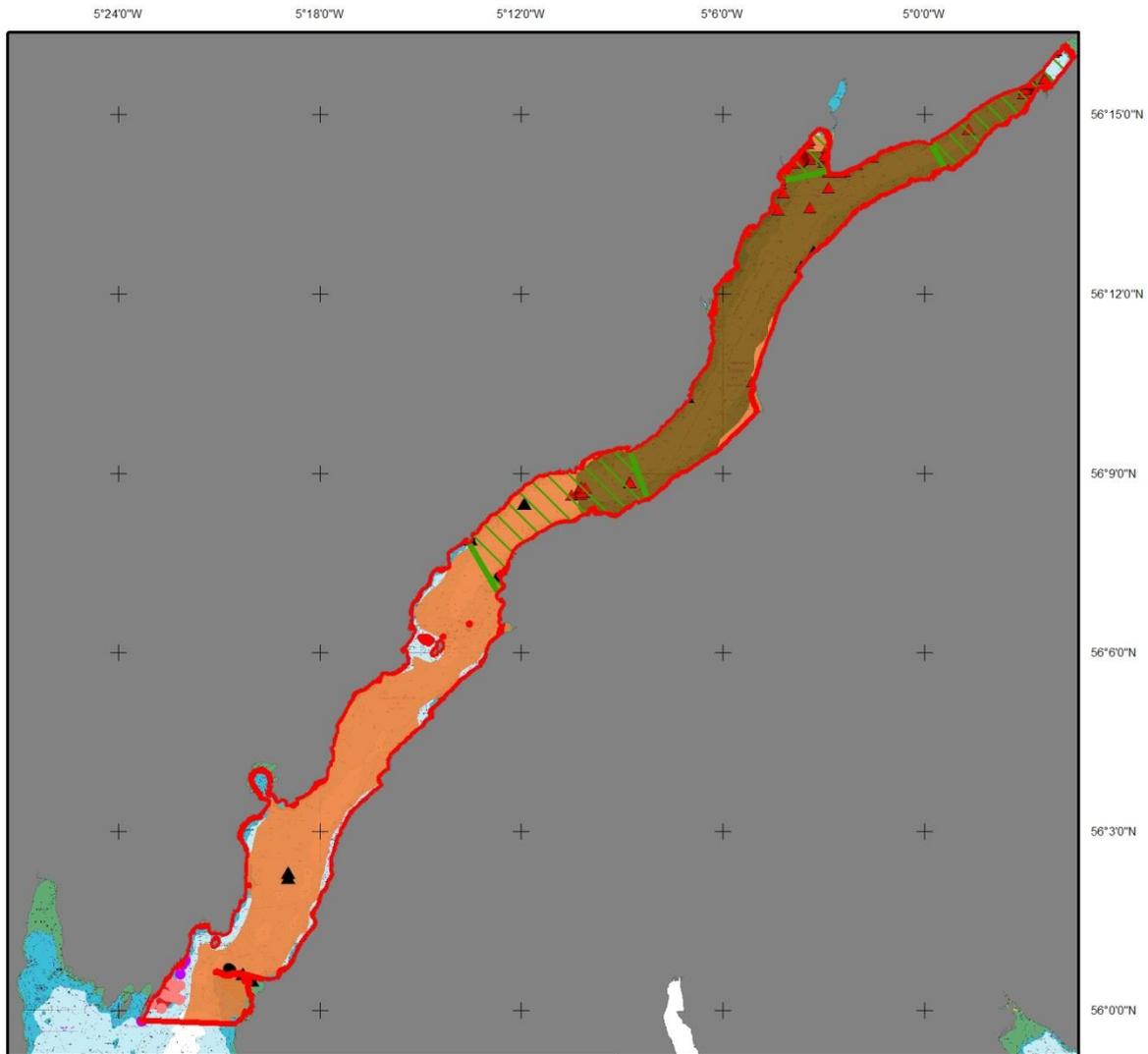
- Land
- MPA boundary
- Approach 1b - Flame shell recovery area
- Flame shell beds
- Horse mussel beds
- Maerl beds (not a protected feature)
- Burrowed mud
- Flame shell beds
- Sublittoral mud and specific mixed sediment communities
- Fireworks anemone
- Ocean quahog

Approach 1b - flame shell recovery area

There would be no bottom contacting fishing gear permitted in this area. In addition the deployment of any bottom contacting device would be prohibited.

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Figure P3: Approach 1b for a flame shell recovery area



Upper Loch Fyne and Loch Goil MPA

- Land
- MPA boundary
- No demersal mobile gear zones
- Flame shell beds
- Horse mussel beds
- Maerl beds (not a protected feature)
- Burrowed mud
- Flame shell beds
- Sublittoral mud and specific mixed sediment communities
- Fireworks anemone
- Ocean quahog

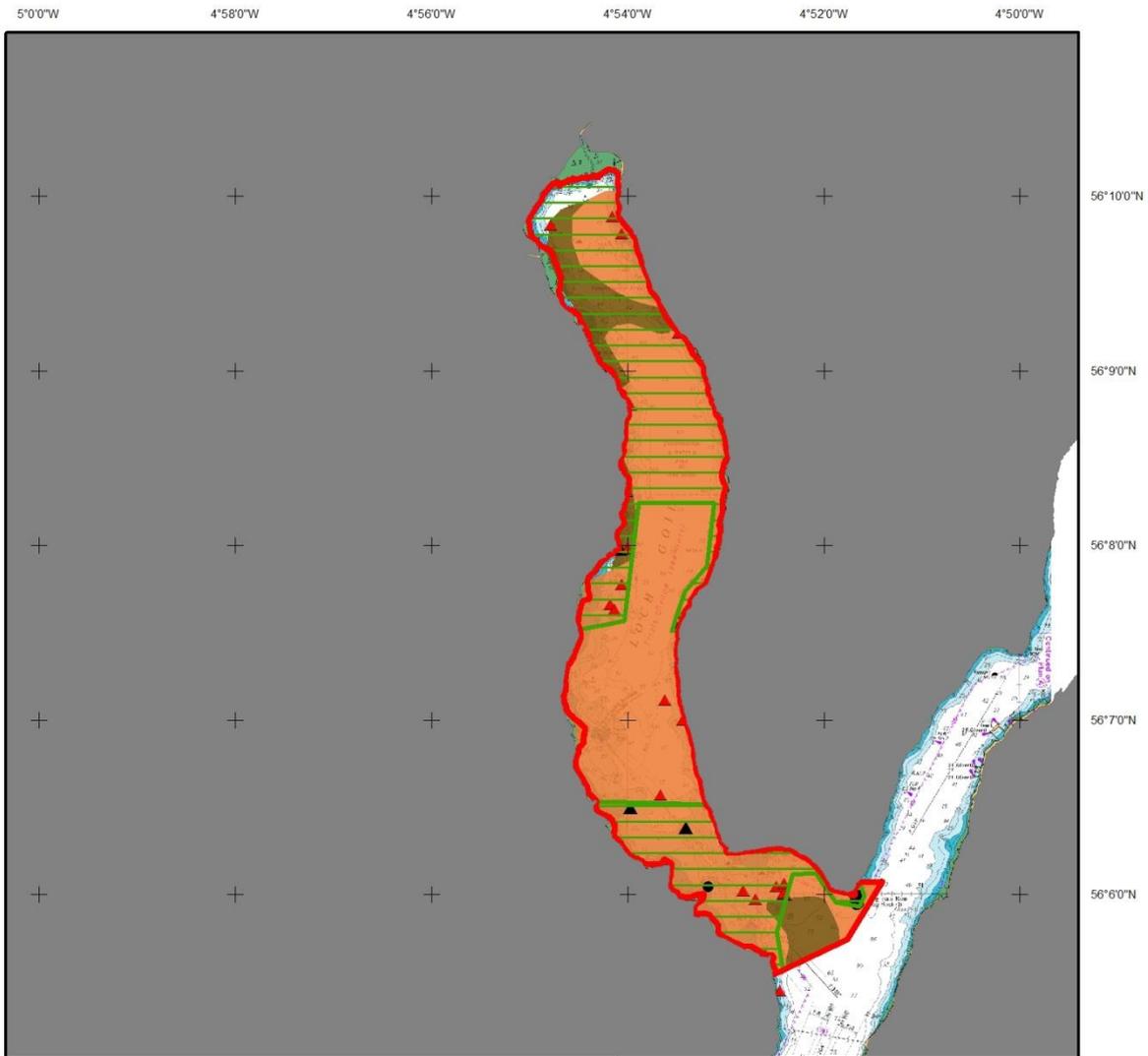
Approach 2a

In addition to a flame shell recovery area;

There would be no demersal trawl or mechanical dredge permitted in the 3 green areas (Loch Shira, the head of the loch, and the central part of the loch)

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Figure P4: Demersal trawl and mechanical dredge restrictions in Upper Loch Fyne under Approach 2a



Upper Loch Fyne and Loch Goil MPA

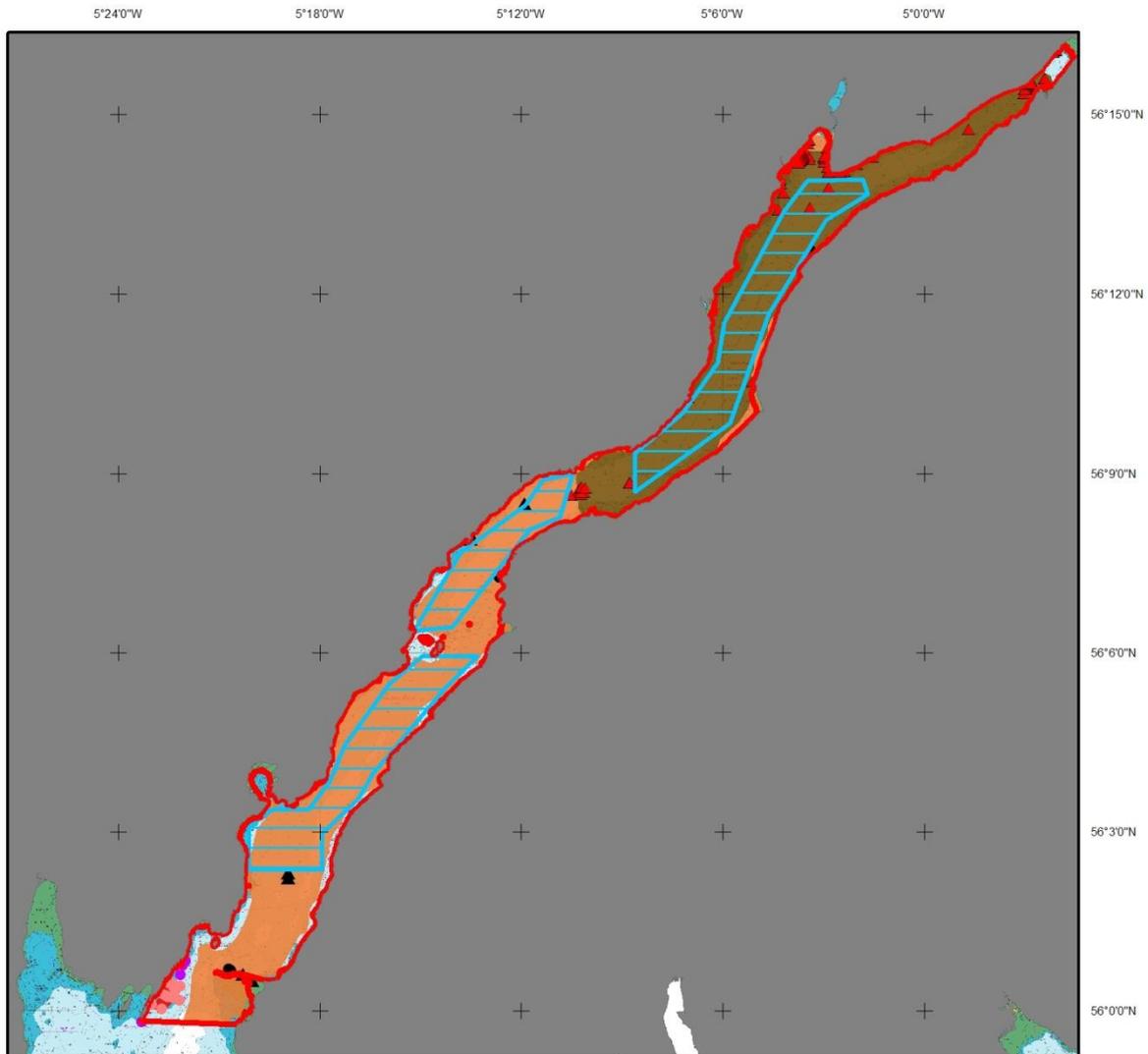
- Land
- MPA boundary
- No demersal mobile gear zones
- Flame shell beds
- Horse mussel beds
- Maerl beds (not a protected feature)
- Burrowed mud
- Flame shell beds
- Sublittoral mud and specific mixed sediment communities
- Fireworks anemone
- Ocean quahog

Approach 2a

In loch Goil there would be no demersal trawl or mechanical dredge permitted in the 2 green areas.

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Figure P5: Demersal trawl and mechanical dredge restrictions in Loch Goil under Approach 2a



Upper Loch Fyne and Loch Goil MPA

- Land
- MPA boundary
- Designated fishing areas
- Flame shell beds
- Horse mussel beds
- Maerl beds (not a protected feature)
- Burrowed mud
- Flame shell beds
- Sublittoral mud and specific mixed sediment communities
- Fireworks anemone
- Ocean quahog

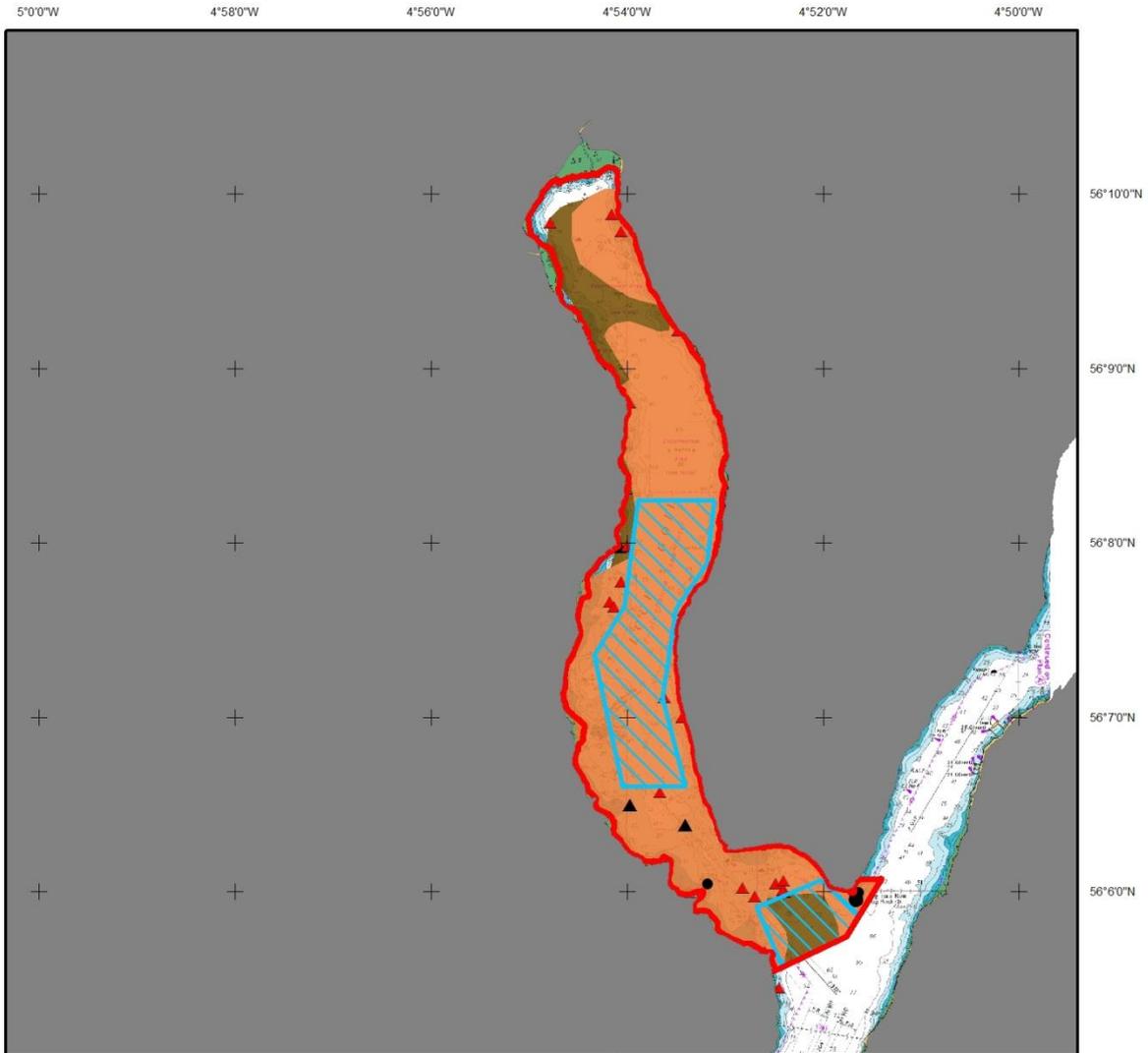
Approach 2b

In addition to a flame shell recovery area;

Demersal trawl or mechanical dredge would only be permitted in the 3 blue zones

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Figure P6: Demersal trawl and mechanical dredge designated fishing areas in Upper Loch Fyne under Approach 2b



Upper Loch Fyne and Loch Goil MPA

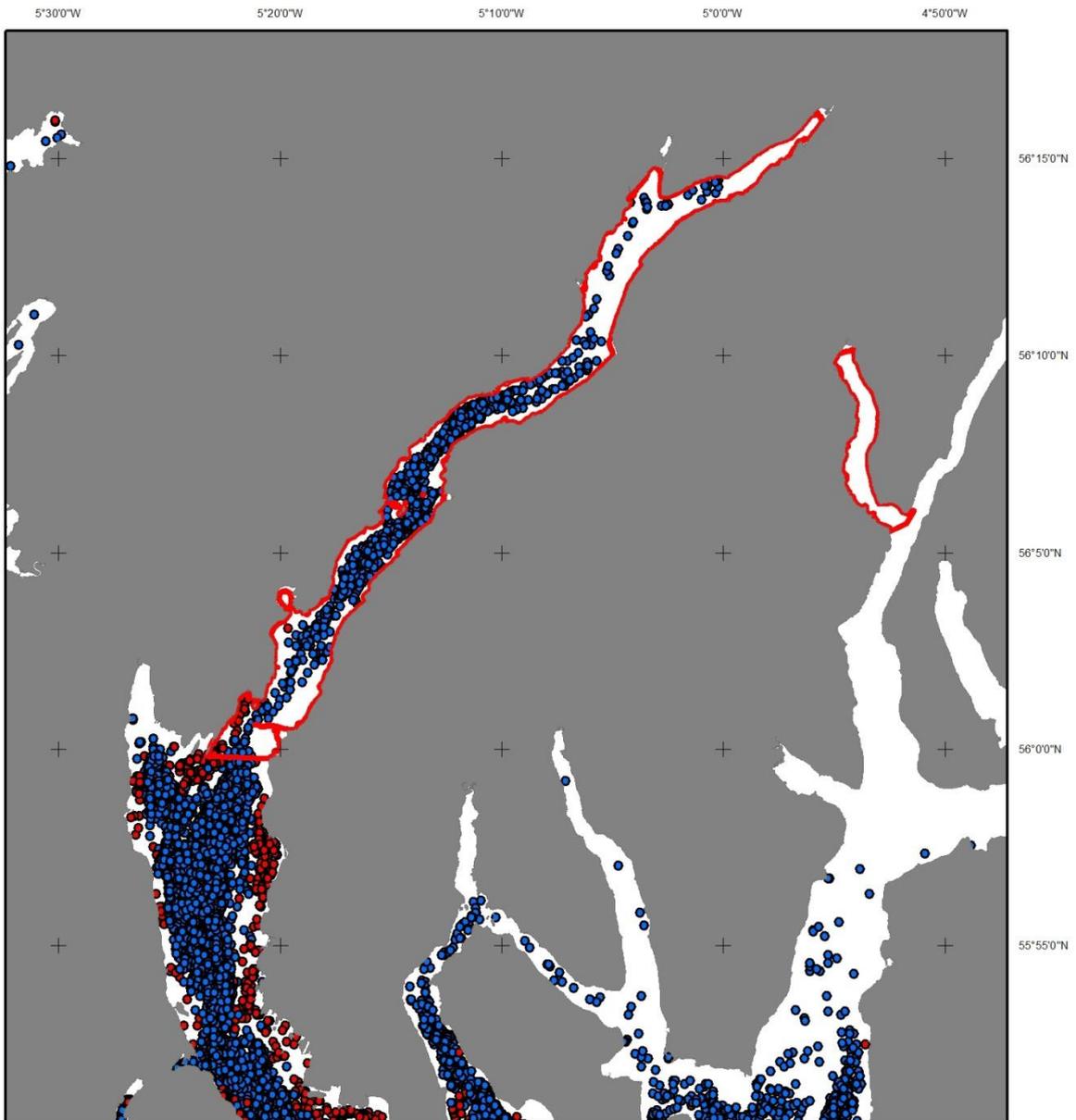
- Land
- MPA boundary
- Designated fishing areas
- Flame shell beds
- Horse mussel beds
- Maerl beds (not a protected feature)
- Burrowed mud
- Flame shell beds
- Sublittoral mud and specific mixed sediment communities
- Fireworks anemone
- Ocean quahog

Approach 2b

In Loch Goil demersal trawl and mechanical dredging would only be permitted in the 2 blue areas.

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Figure P7: Demersal trawl and mechanical dredge designated fishing areas in Loch Goil under Approach 2b

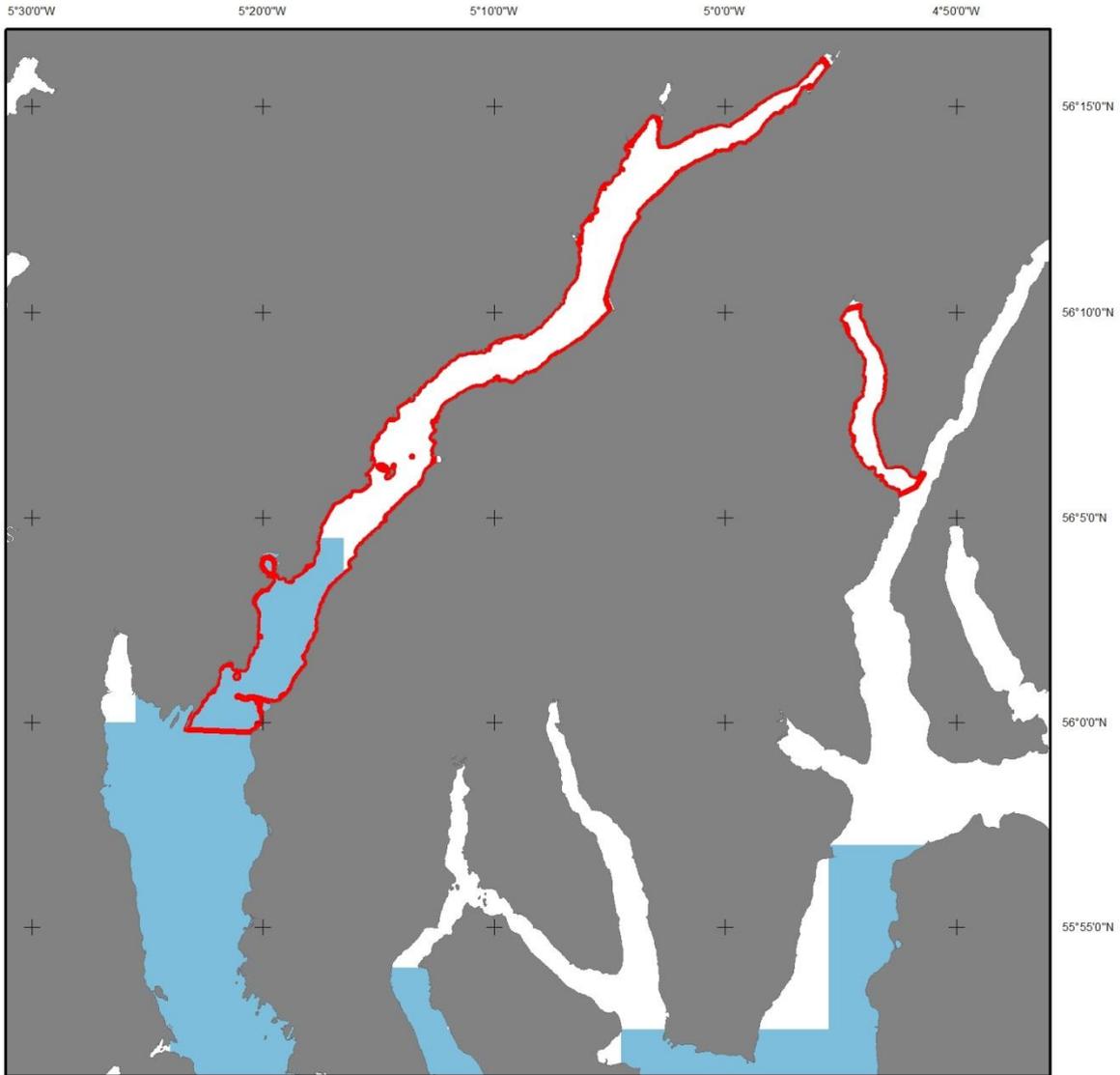


**Upper Loch Fyne and Loch Goil MPA
Showing VMS data (2007 - 13)**

- Land
- MPA boundary
- Trawls
- Dredge

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Using Geodatabase of Marine Features Adjacent to Scotland (GEMS i12 - May 2014).
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Figure P8: VMS data from 2007 to 2013 near to Upper Loch Fyne and Loch Goil MPA

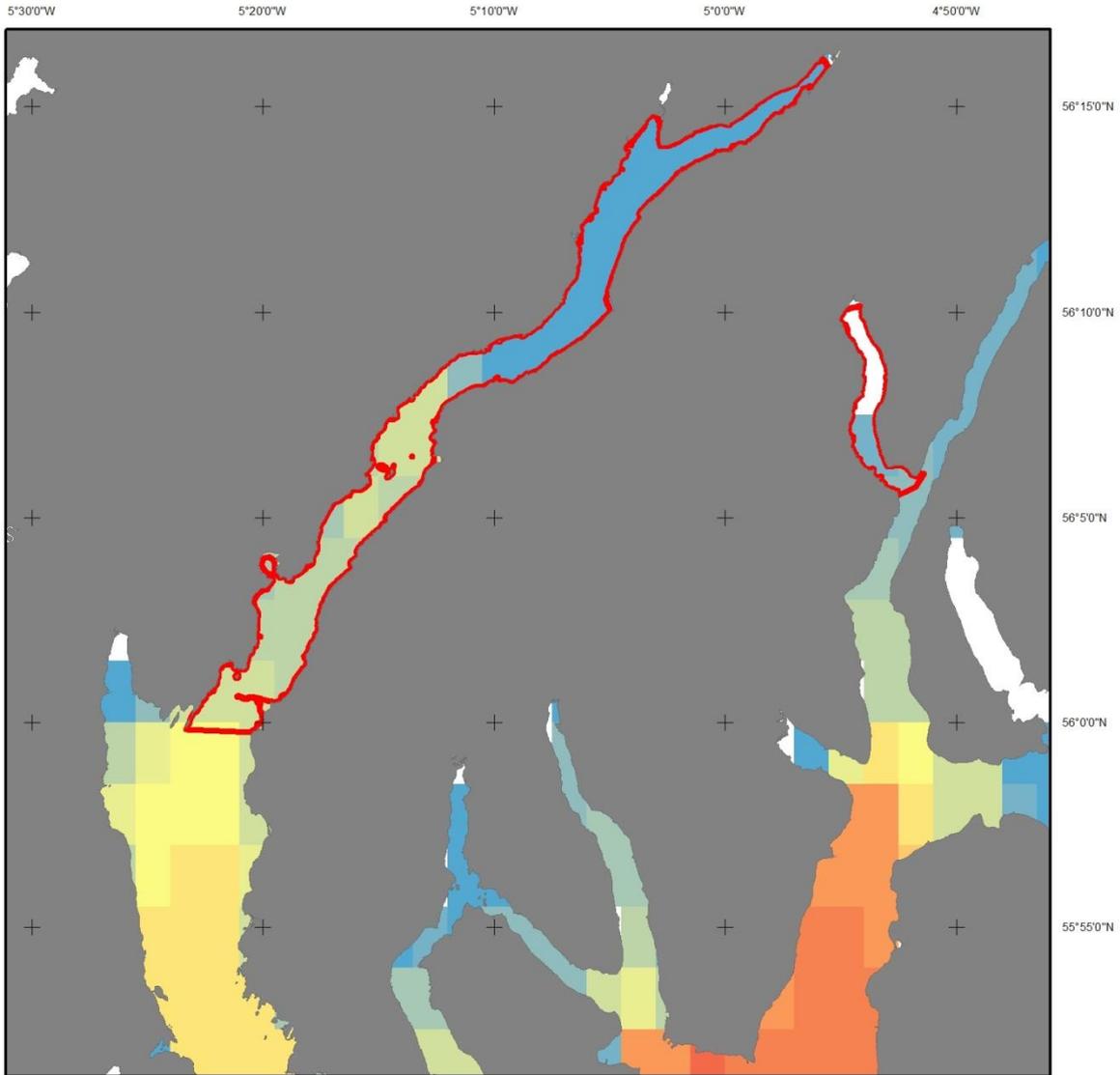


**Upper Loch Fyne and Loch Goil MPA
Showing SCOTMAP (2007-11) scallop dredge number of vessels**

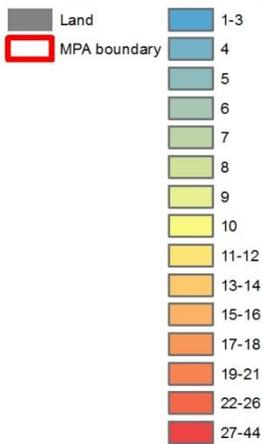


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Figure P9: SCOTMAP (2007-11) Scallop dredge number of vessels

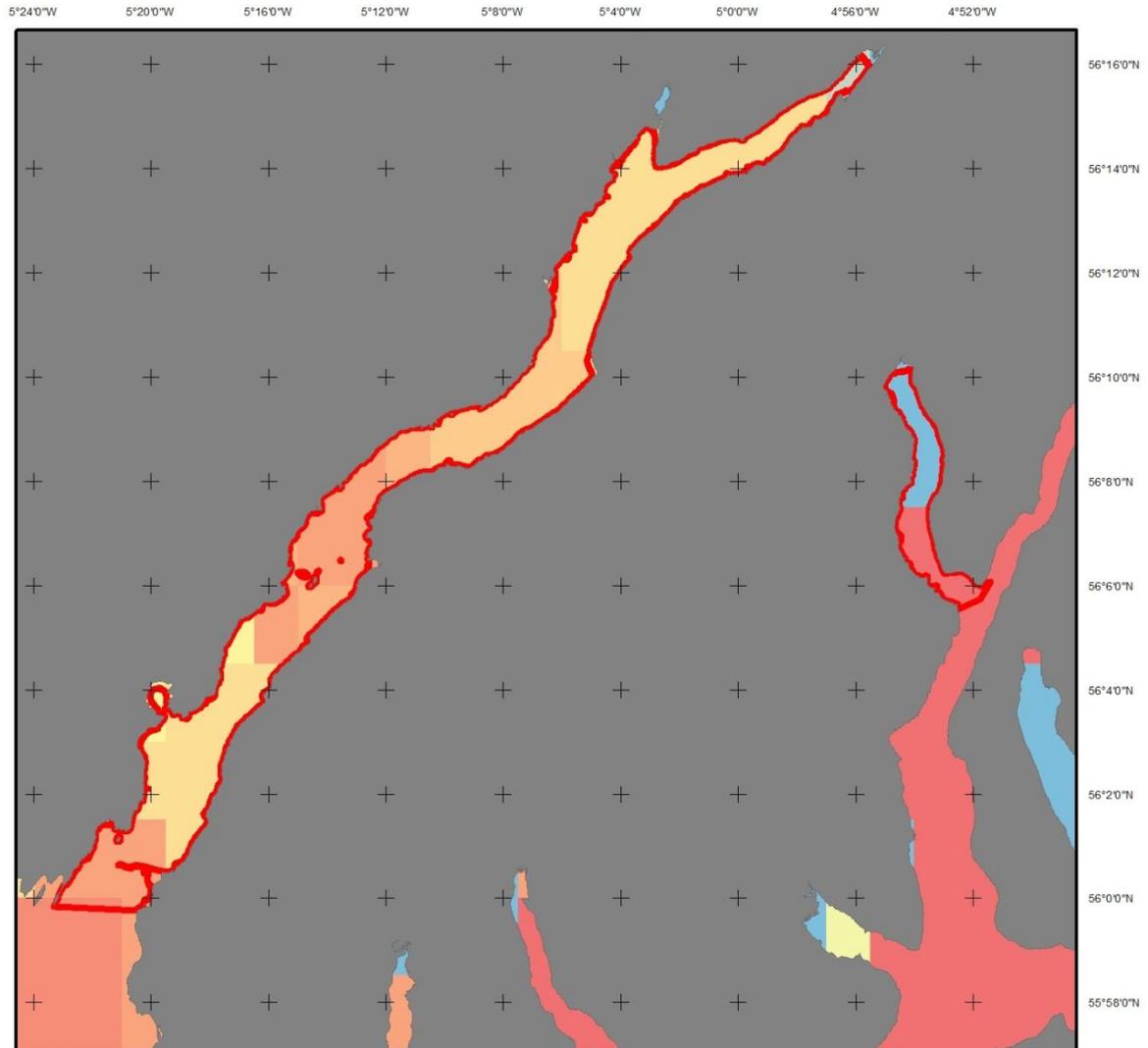


Upper Loch Fyne and Loch Goil MPA
Showing SCOTMAP (2007-11) nephrops trawl number of vessels

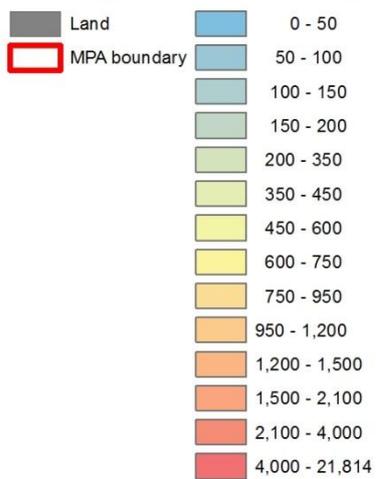


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Figure P10: SCOTMAP (2007-11) Nephrops trawl number of vessels



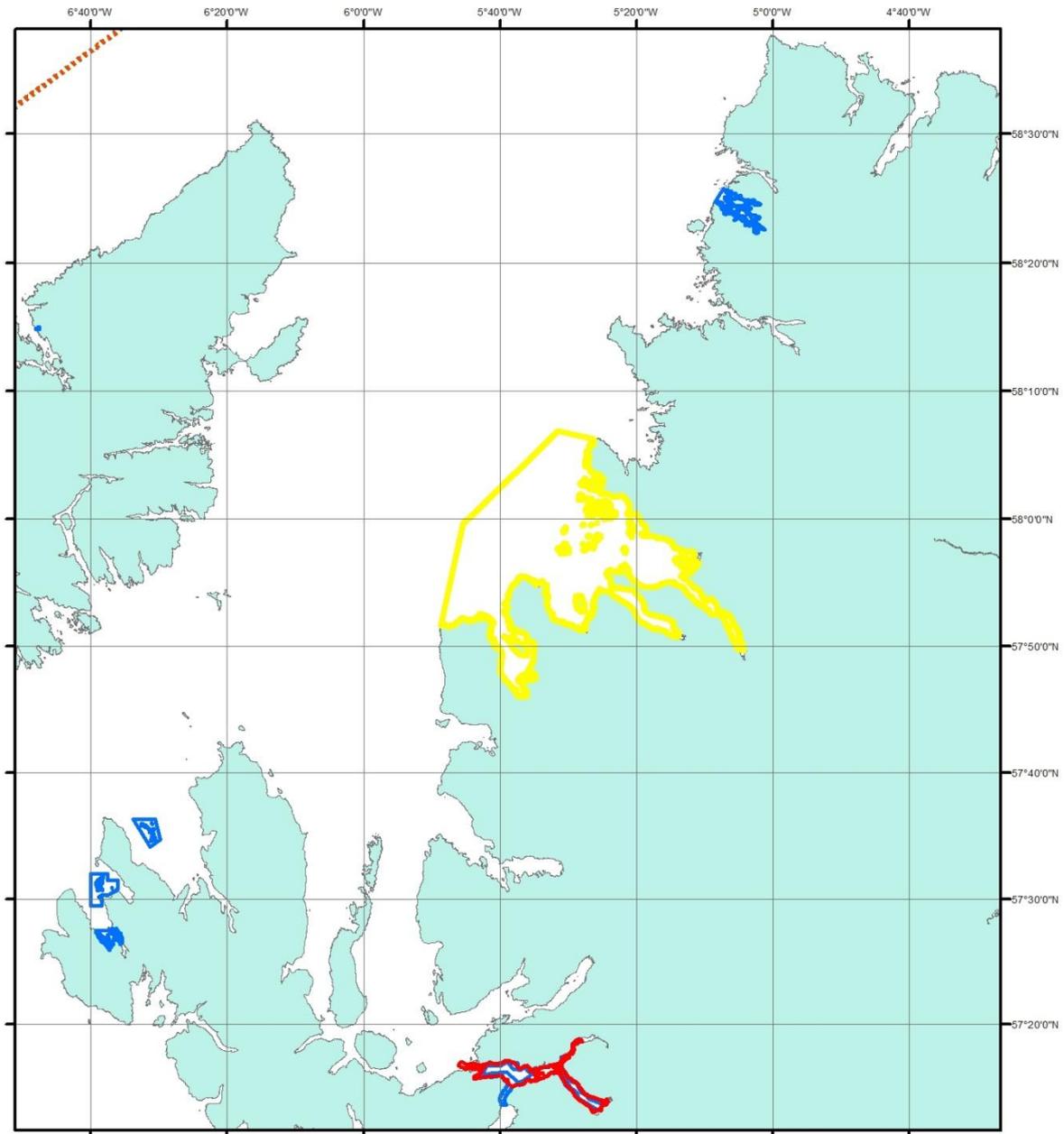
**Upper Loch Fyne and Loch Goil MPA
Showing SCOTMAP (2007-11) nephrops trawl value**



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Figure P11: SCOTMAP (2007-11) Nephrops trawl value

Protected Area Q – Wester Ross MPA

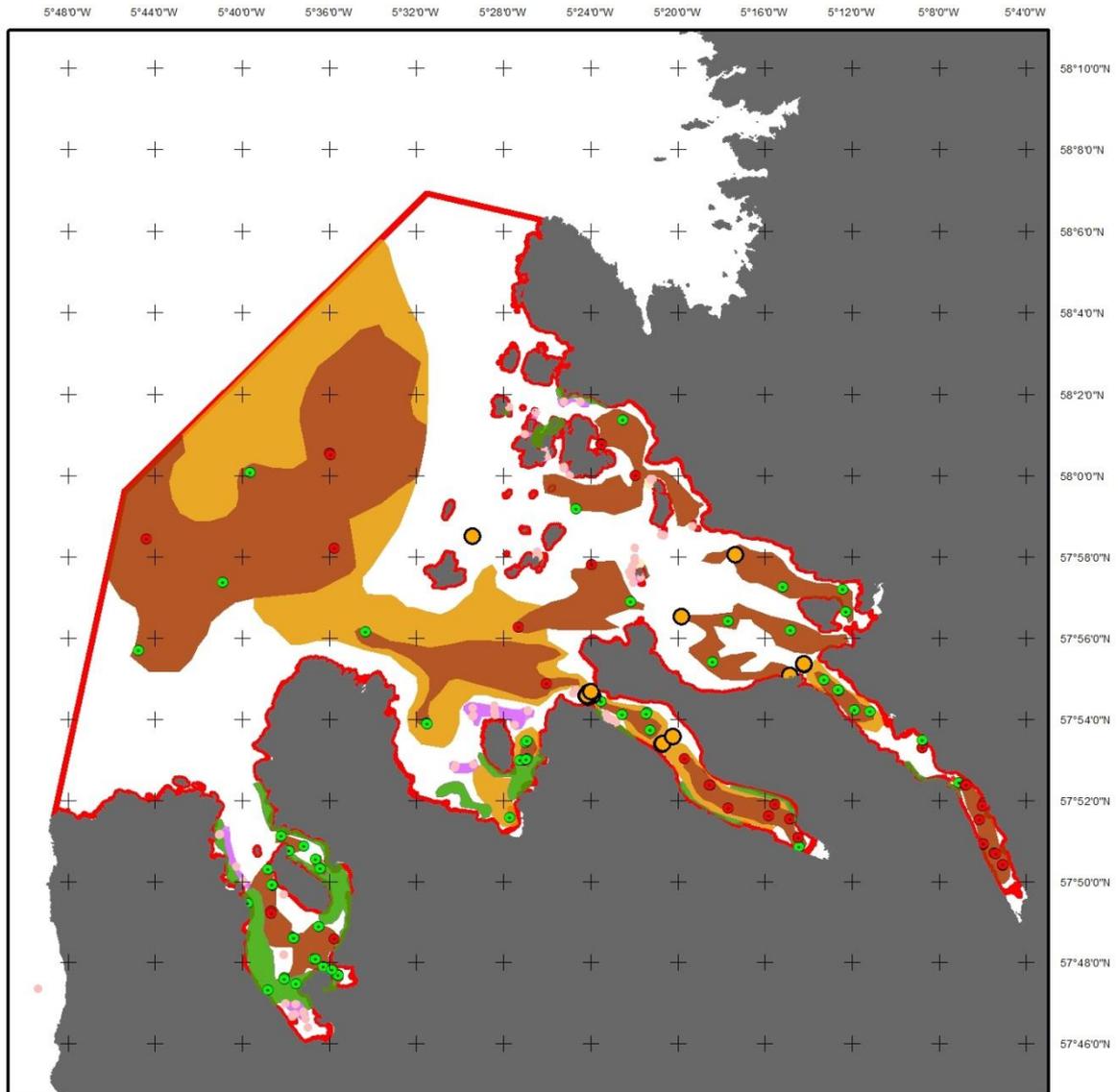


Wester Ross MPA Spatial relationship with other protected areas

- Land
- Territorial waters
- Wester Ross MPA
- NC MPA
- Inshore SAC

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Figure Q1: Wester Ross MPA in context with other protected areas

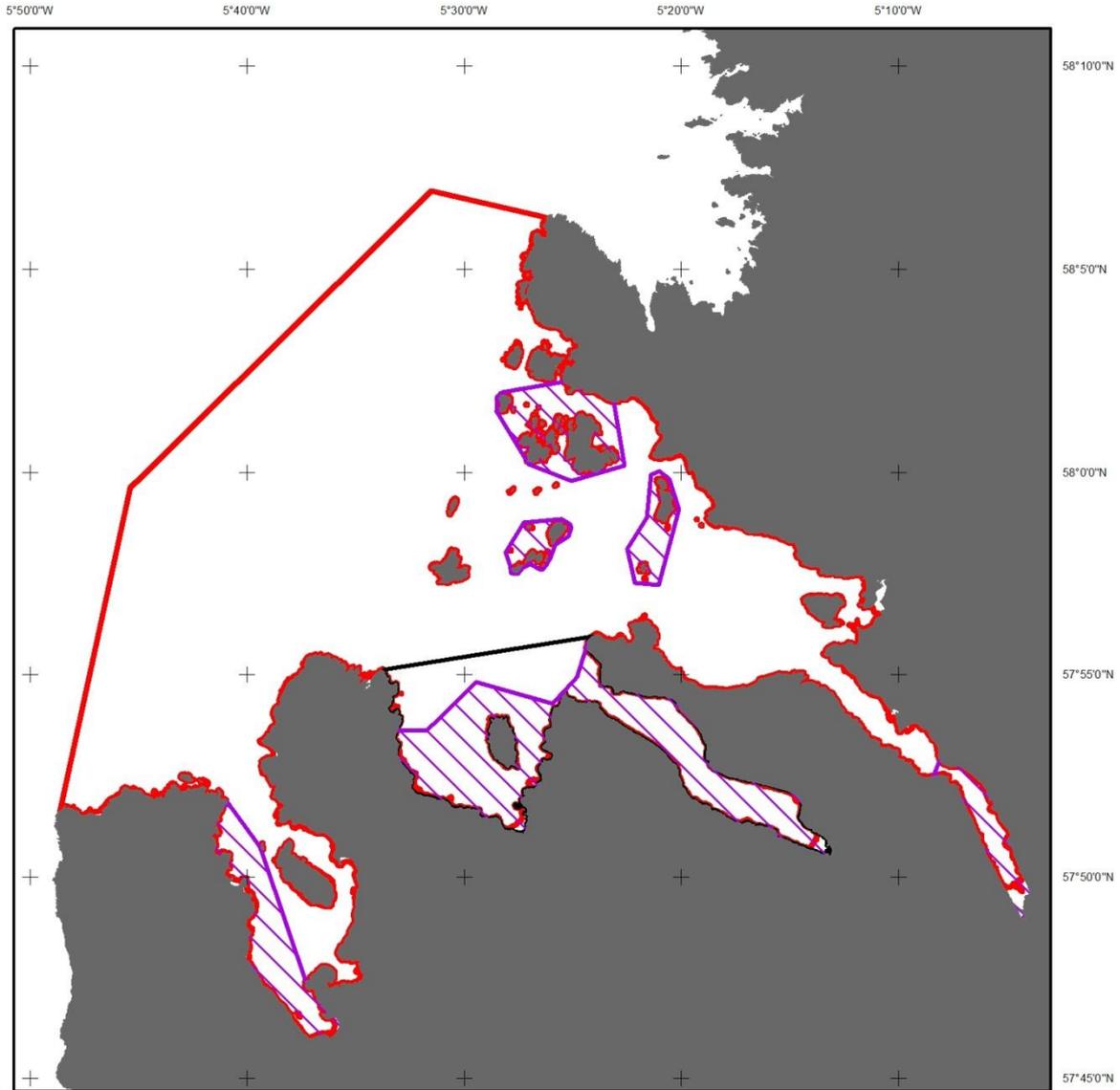


Wester Ross pMPA



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Figure Q2: Wester Ross MPA – Distribution of protected features



Wester Ross pMPA

- Land
- Approach 1
- Little loch broom and Gruinard bay seasonal closure
- MPA Boundary

Approach 1

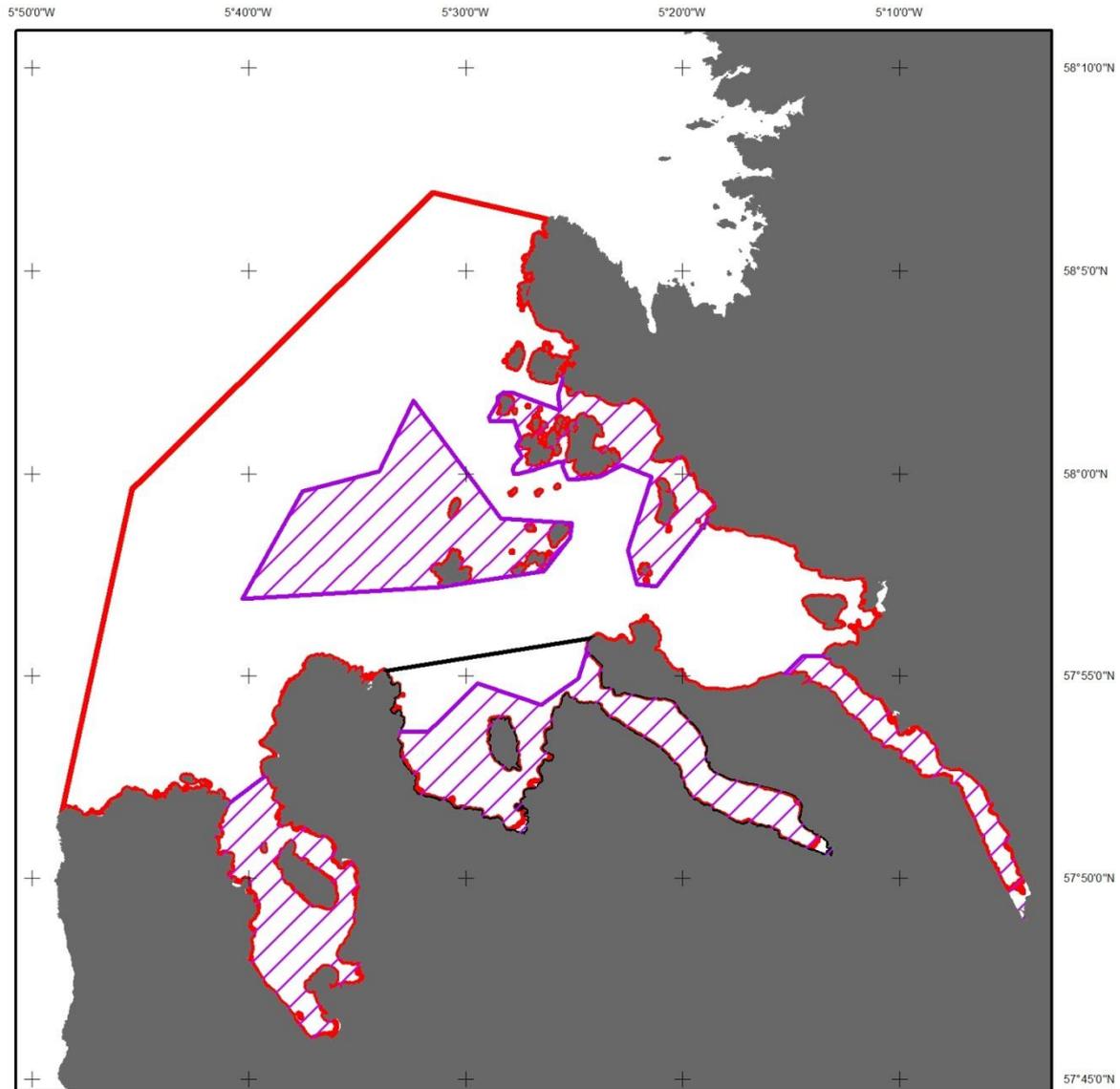
Capacity restriction of 150 GRT, and prohibition of suction dredging throughout the MPA.

Spatial measures to prohibit demersal trawling and mechanical dredging in the hatched areas near the maerl beds and the flameshell bed.

This approach would require measures in the 2nd batch.

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Figure Q3: Wester Ross MPA management approach 1



Wester Ross pMPA

- Land
- Approach 2
- Little loch broom and Gruinard bay seasonal closure
- MPA Boundary

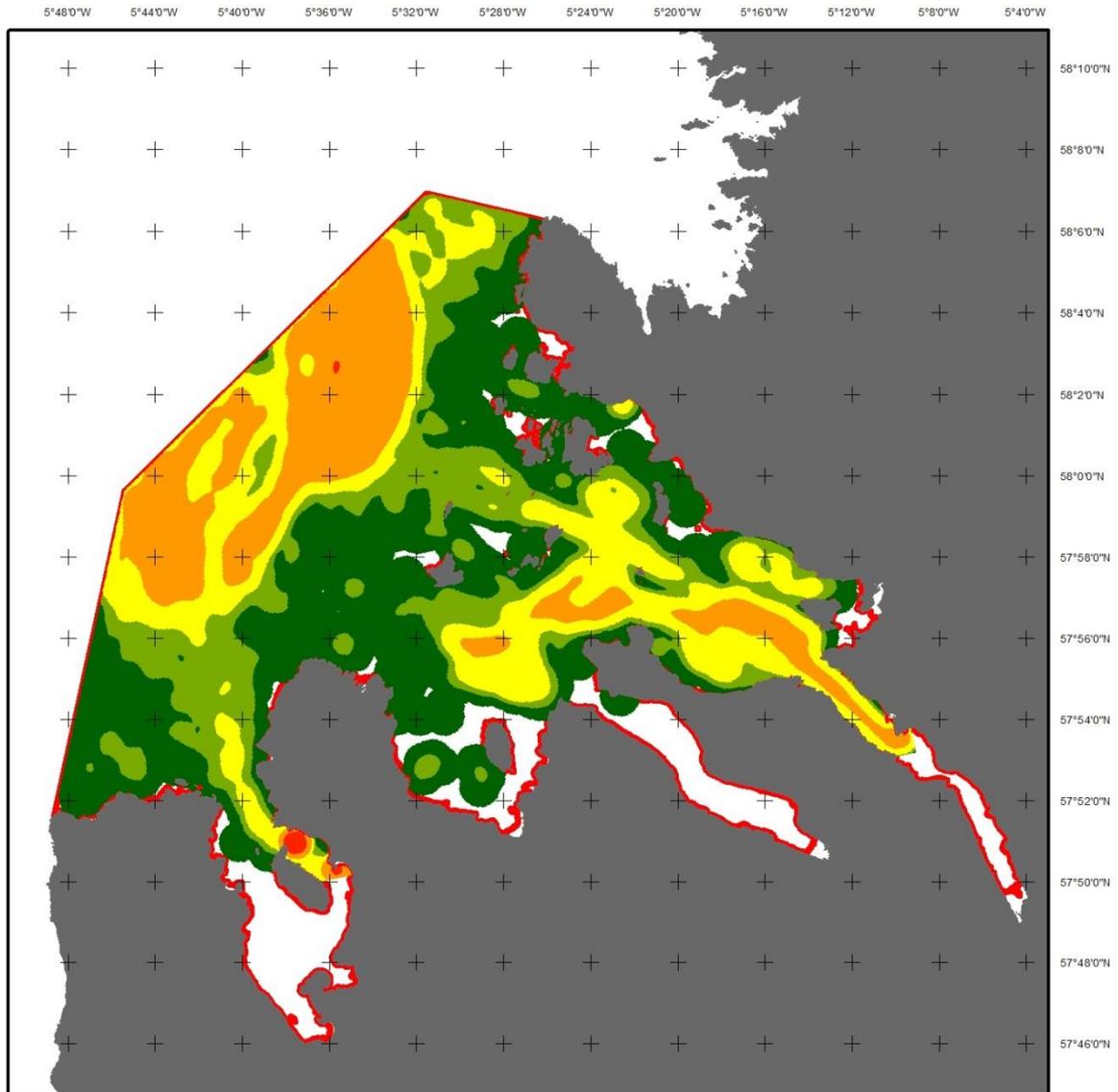
Approach 2

Capacity restriction of 150 GRT, and prohibition of suction dredging throughout the MPA.

Spatial measures to prohibit demersal trawling and mechanical dredging in the hatched areas

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Figure Q4: Wester Ross MPA management approach 2

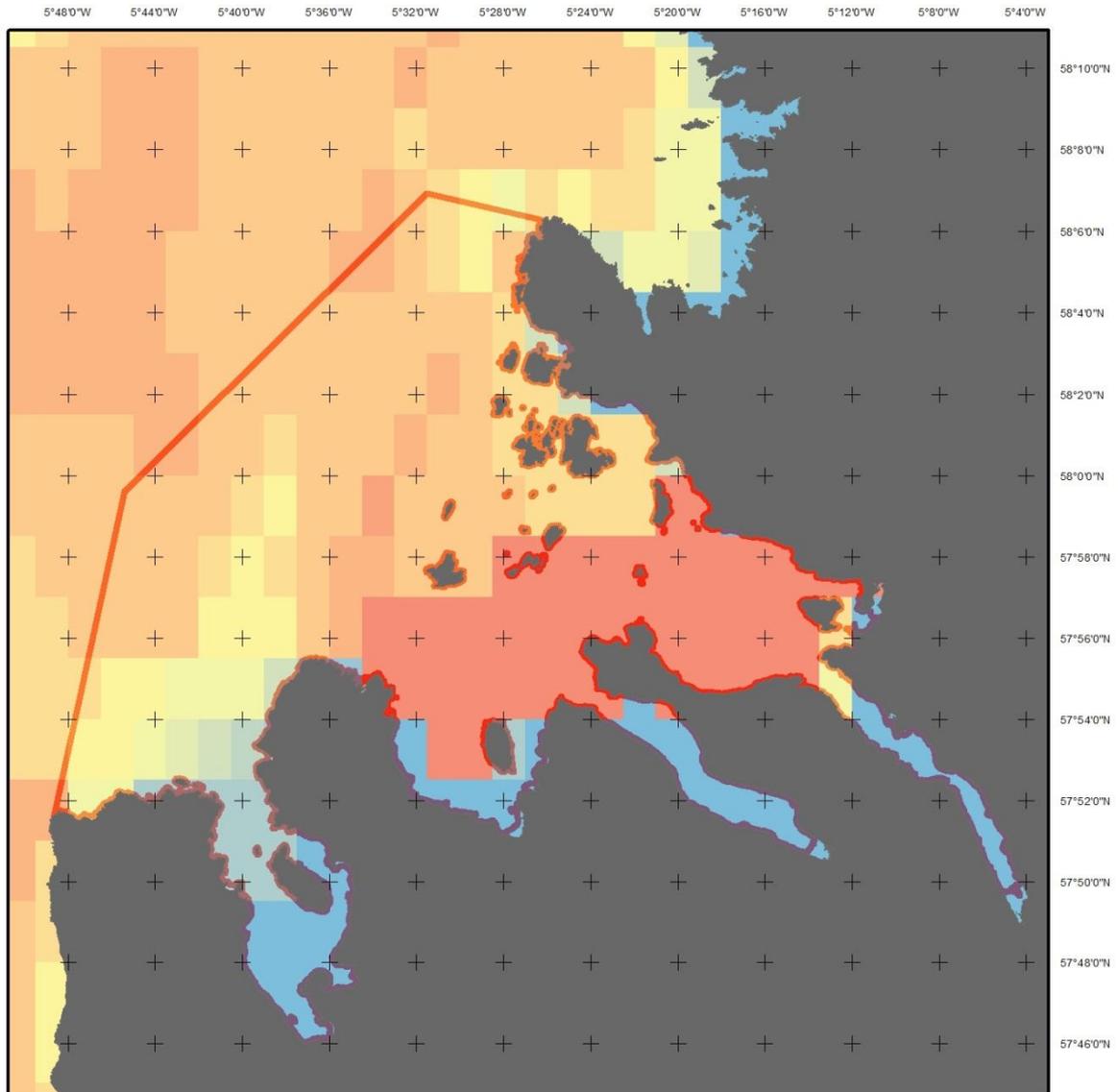


**Wester Ross pMPA
showing VMS (2007-2013) nephrops trawl density**

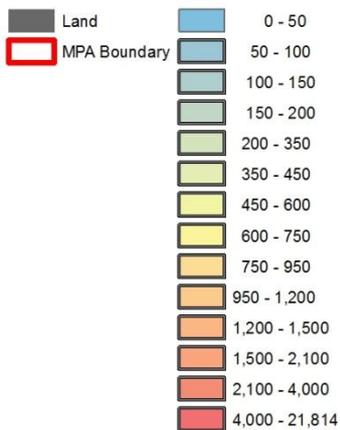


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Using Geodatabase of Marine Features Adjacent to Scotland (GEMS i12 - May 2014).
Projection: Mercator Datum: WGS 1984 Standard Parallel: 58°N Scale 1:250,000

Figure Q5: Nephrops trawl VMS (2007-13) – Kernel density analysis

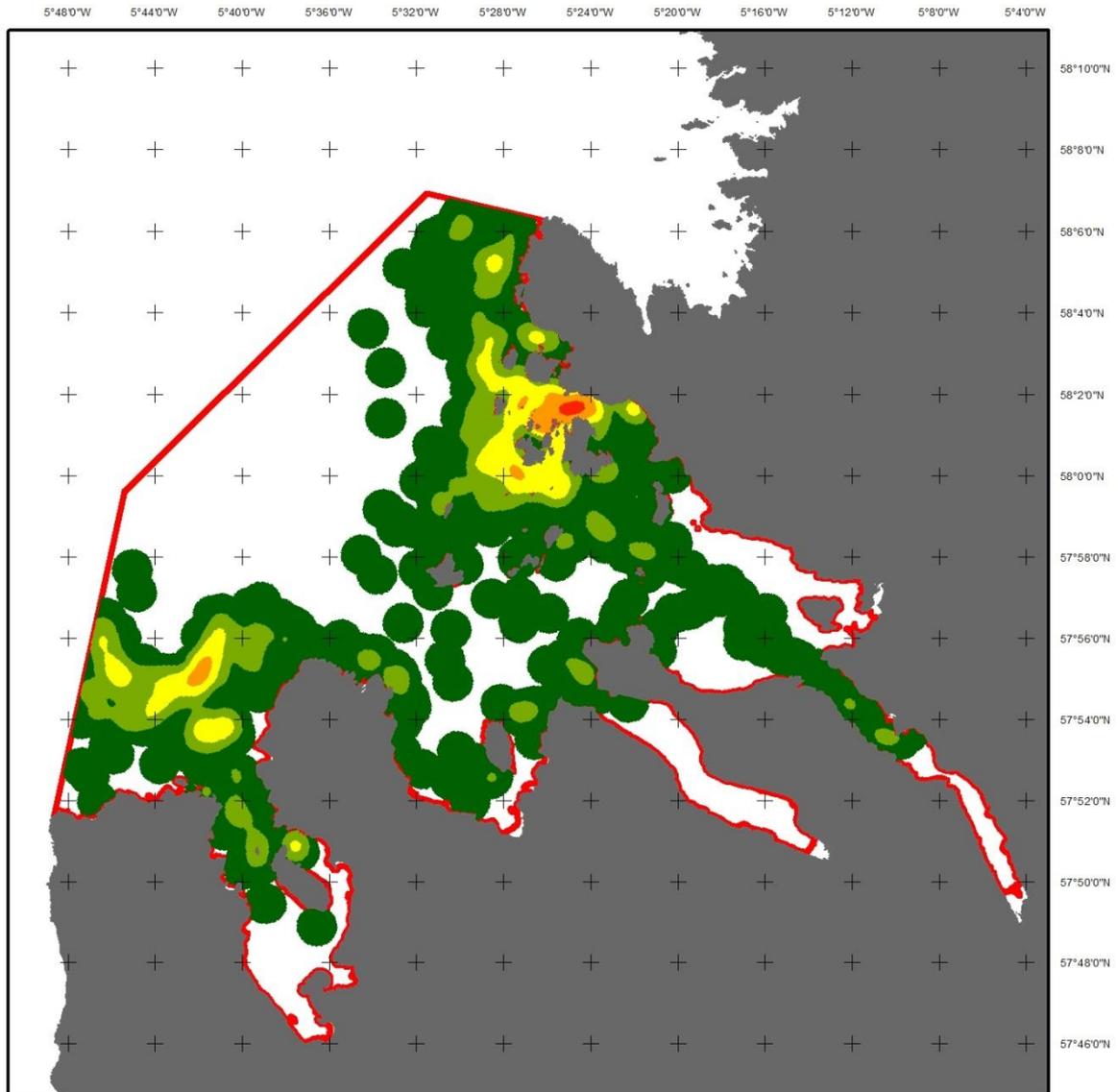


**Wester Ross pMPA
showing SCOTMAP (2007-2011) nephrop trawl value**

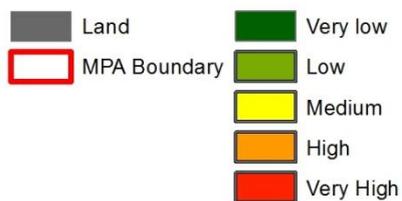


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Figure Q6: SCOTMAP (2007-11) – Nephrops trawl value

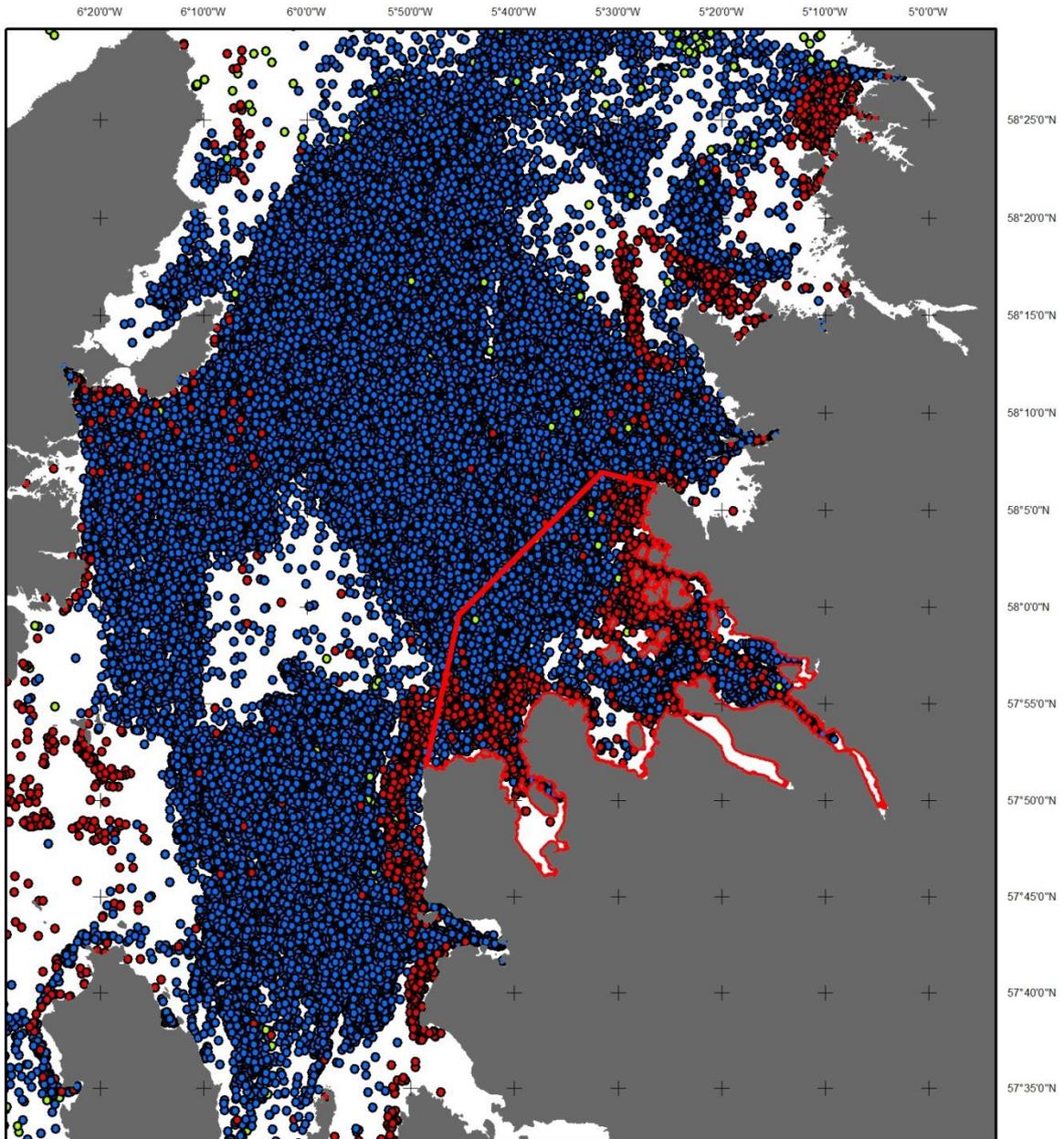


**Wester Ross pMPA
showing VMS (2007-2013) scallop dredge density**



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Figure Q7: Scallop dredge VMS (2007-13) – Kernel density analysis



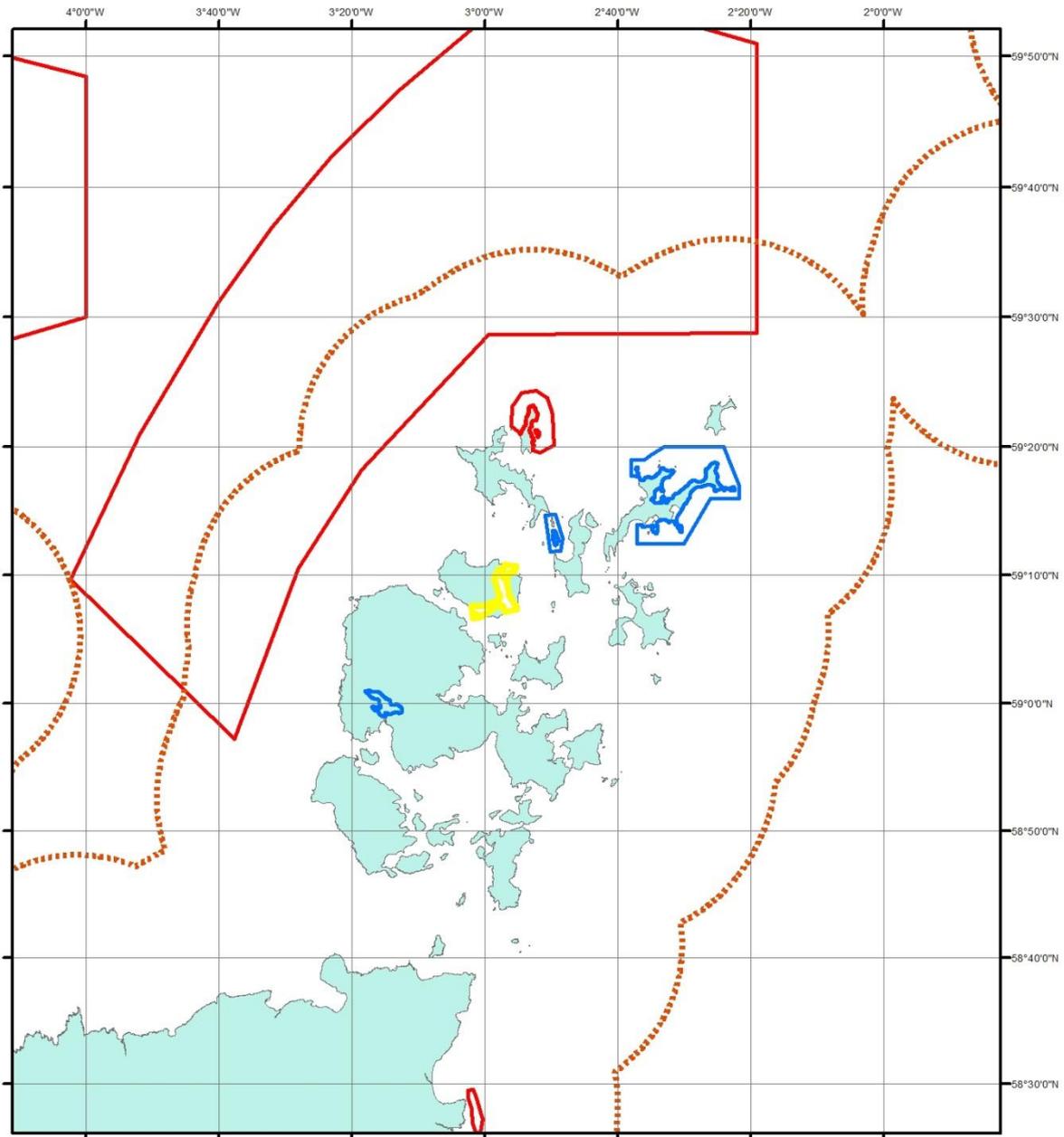
**Wester Ross pMPA
Showing VMS data from 2007 to 2013**

- Land
- MPA Boundary
- Trawls
- Static
- Dredge

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Figure Q8: VMS data (2007 – 2013) in the wider area around Wester Ross MPA

Protected Area R – Wyre & Rousay Sounds MPA

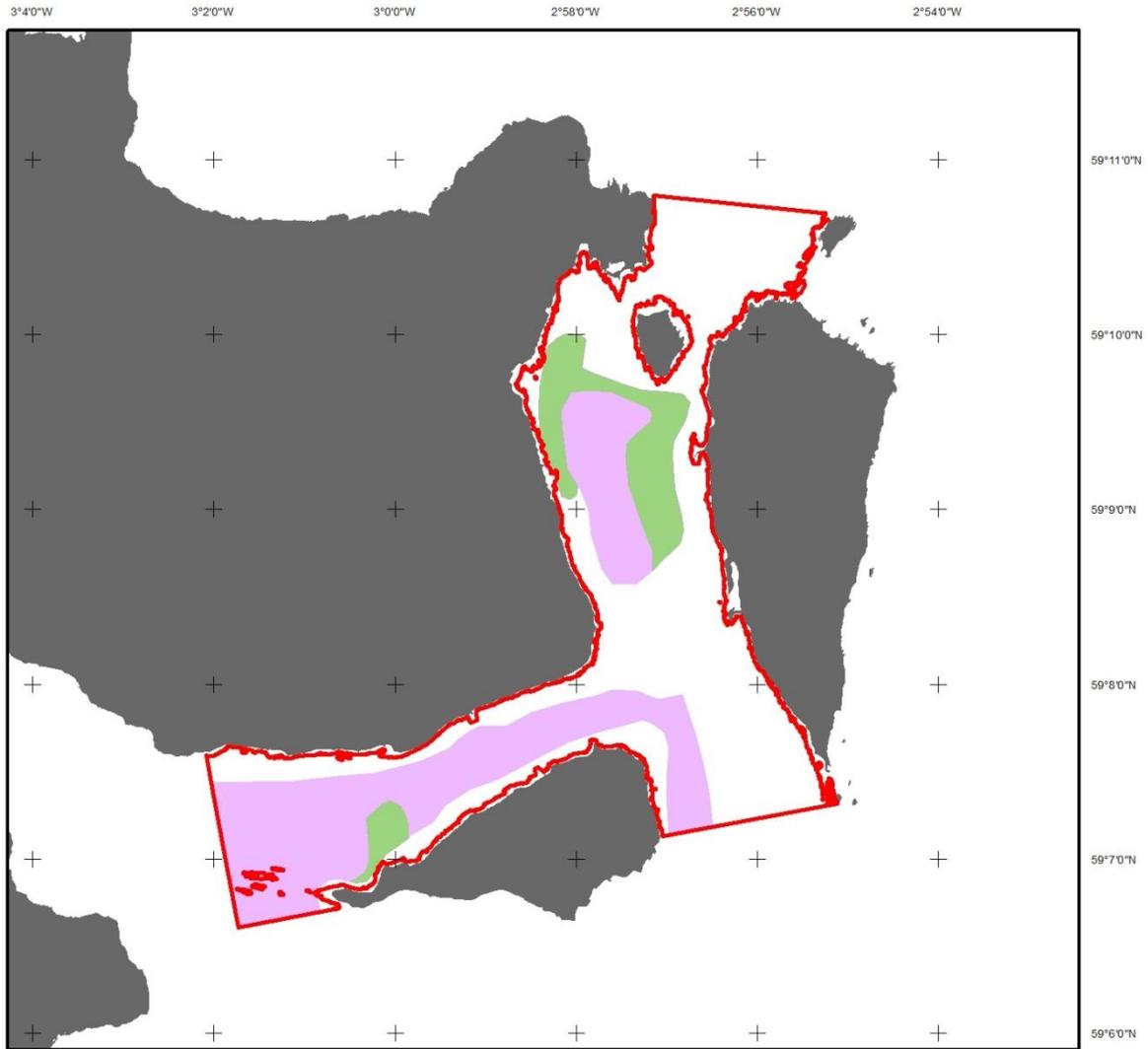


Wyre and Rousay Sounds MPA Spatial relationship with other protected areas

- Land
- Territorial waters
- Wyre and Rousay Sounds MPA
- NC MPA
- Inshore SAC

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Figure R1: Wyre & Rousay Sounds MPA with other nearby protected areas



Wyre and Rousay Sounds MPA

- Land
- MPA boundary
- Kelp and seaweed communities on sublittoral sediment
- Maerl beds

Approach 1

There would be no demersal trawl, mechanical dredging, suction dredging, or hydraulic dredging permitted within the entire MPA

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Figure R2: Map of measures proposed under approach 1



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