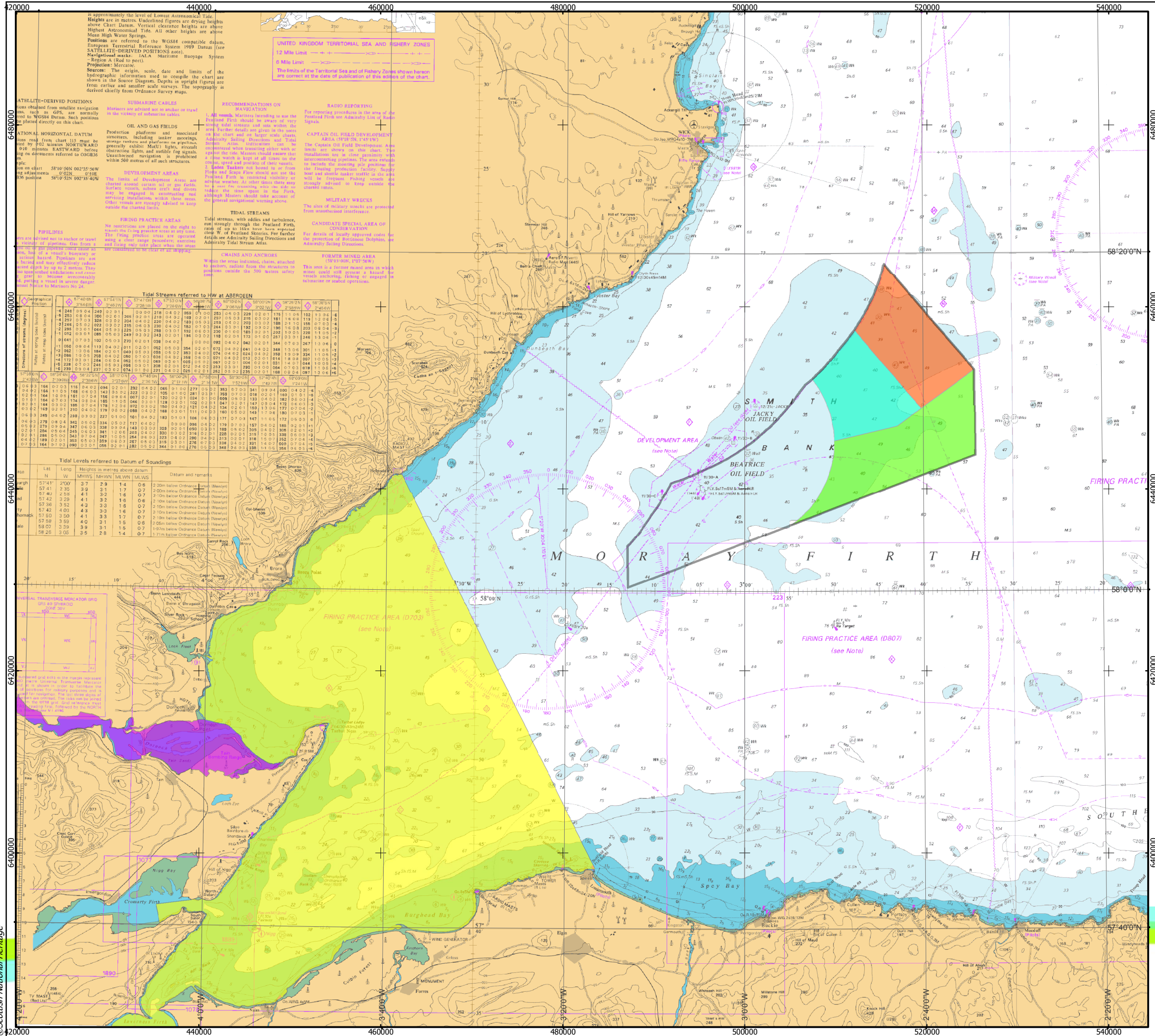




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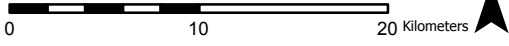
KEY

- Telford OWF
- Stevenson OWF
- MacColl OWF
- Dornoch Firth and Morrich More
- Moray Firth

Special Areas of Conservation (SACs)


- Dornoch Firth and Morrich More
- Moray Firth

Horizontal Scale: 1:400,000



0 10 20 Kilometers

A3 Chart



Geodetic Parameters: WGS84 UTM Zone 30N

Produced: LG
 Reviewed: SC
 Approved: CJP

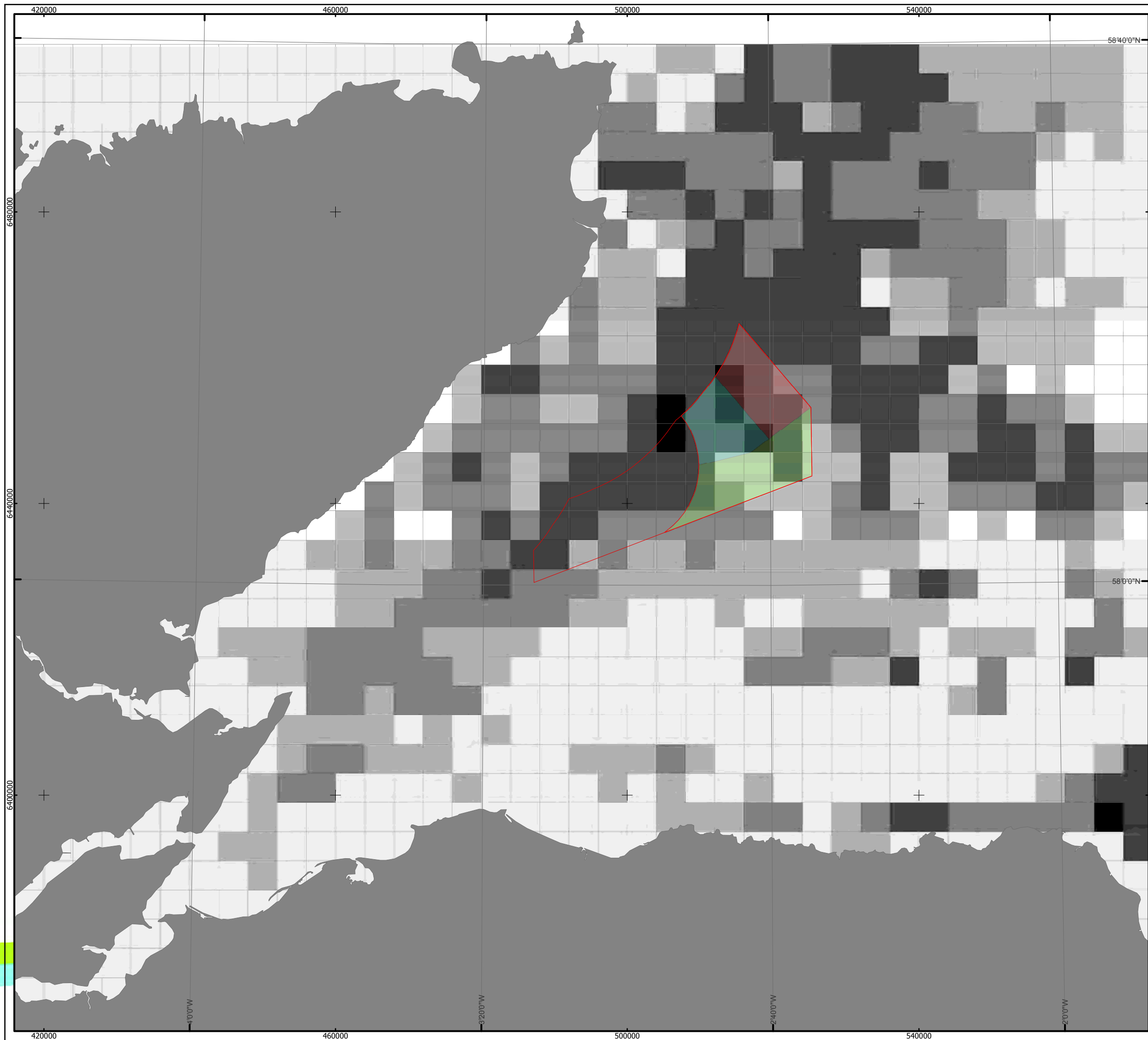
Date: 16/11/2011 Revision: A

REF: 8460001-PPW0201-NPW-MAP-018

Fig 4.4-1 Designated Sites (SACs)

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KEY

GEE predicted harbour seal habitat preference

- 0.00 - 0.20
- 0.20 - 0.40
- 0.40 - 0.60
- 0.60 - 0.80
- 0.80 - 1.00

MORL Zone Boundary

MacColl Windfarm

Stevenson Windfarm

Telford Windfarm

Horizontal Scale: 1:500,000 A3 Chart N

Geodetic Parameters: WGS84 UTM Zone 30N

Produced: KLB
Reviewed: PH
Approved: CR/SP

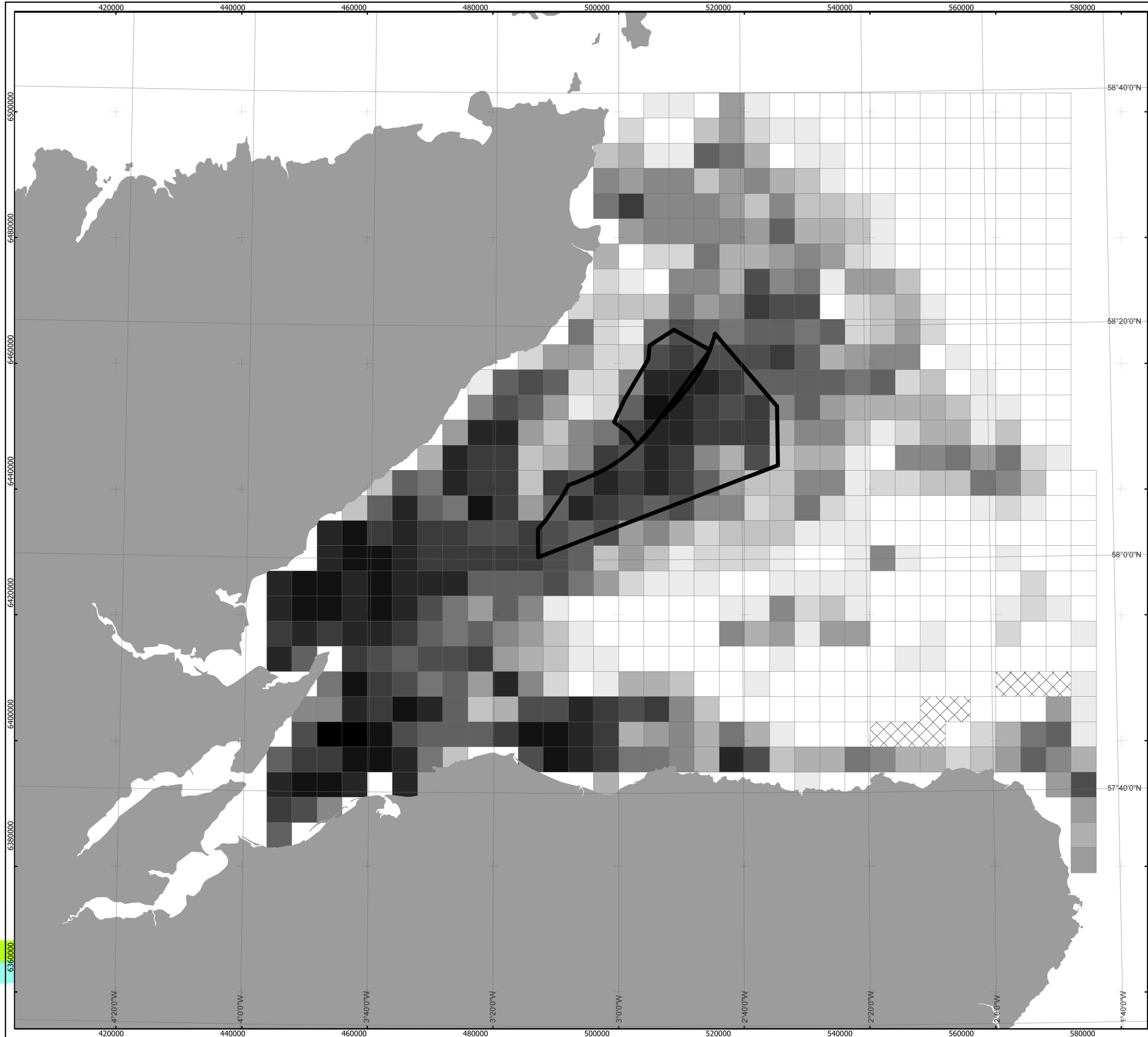
Date: 19/04/2012 Revision: B

REF: 8460001-PPW0201-UAB-MAP-001

Fig 4.4-2 - Predicted Seal Habitat Distribution

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KEY

Predicted harbour seals

	0.00 - 0.50
	0.51 - 1.00
	1.01 - 1.50
	1.51 - 2.00
	2.01 - 2.50
	2.51 - 3.00
	3.01 - 3.50
	3.51 - 4.00
	4.01 - 4.50
	4.51 - 5.00
	5.01 - 5.50
	5.51 - 6.00
	6.01 - 6.50
	6.51 - 7.00

Horizontal Scale: 1:600,000 A3 Chart
0 15,000 30,000 Meters

Geodetic Parameters: WGS84 UTM Zone 30N

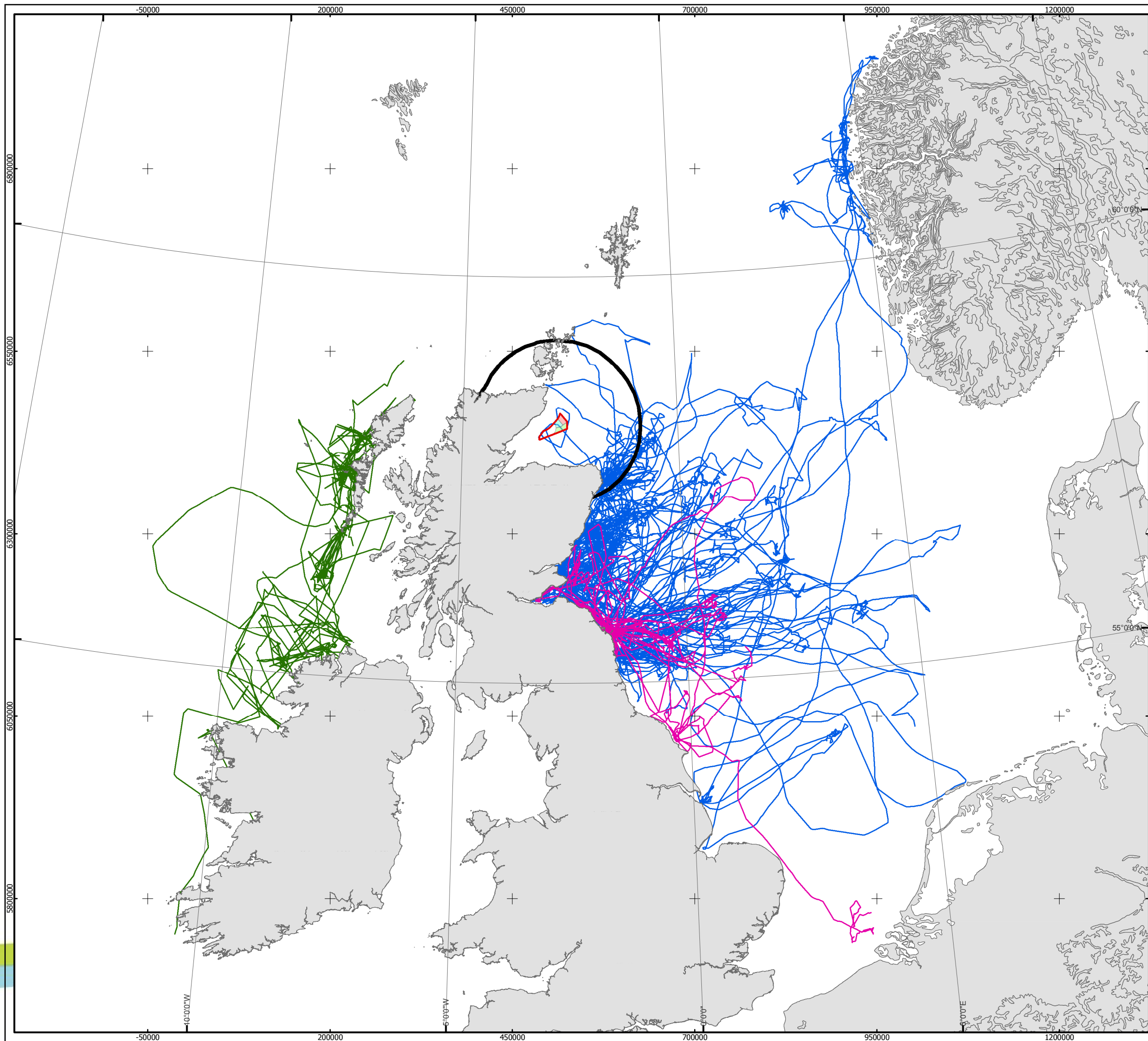
Produced: KLB
Reviewed: PMT
Approved: PH

Date: 19/05/2012 Revision: A
REF: 8460001-PPW0201-UAB-MAP-001

Fig 4.4-3 Predicted Harbour Seal Occurrence

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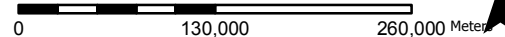
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KEY

-  MORL Zone Boundary
-  MacColl Windfarm
-  Stevenson Windfarm
-  Telford Windfarm
-  MORL 100KM Buffer Zone

Tagging Locations

-  Farne Islands, NE England (n=9)
-  Isle of May, East Scotland (n=21)
-  Monach Isles, Outer Hebrides (n=9)

Horizontal Scale: 1:5,000,000 A3 Chart


Geodetic Parameters: WGS84 UTM Zone 30N

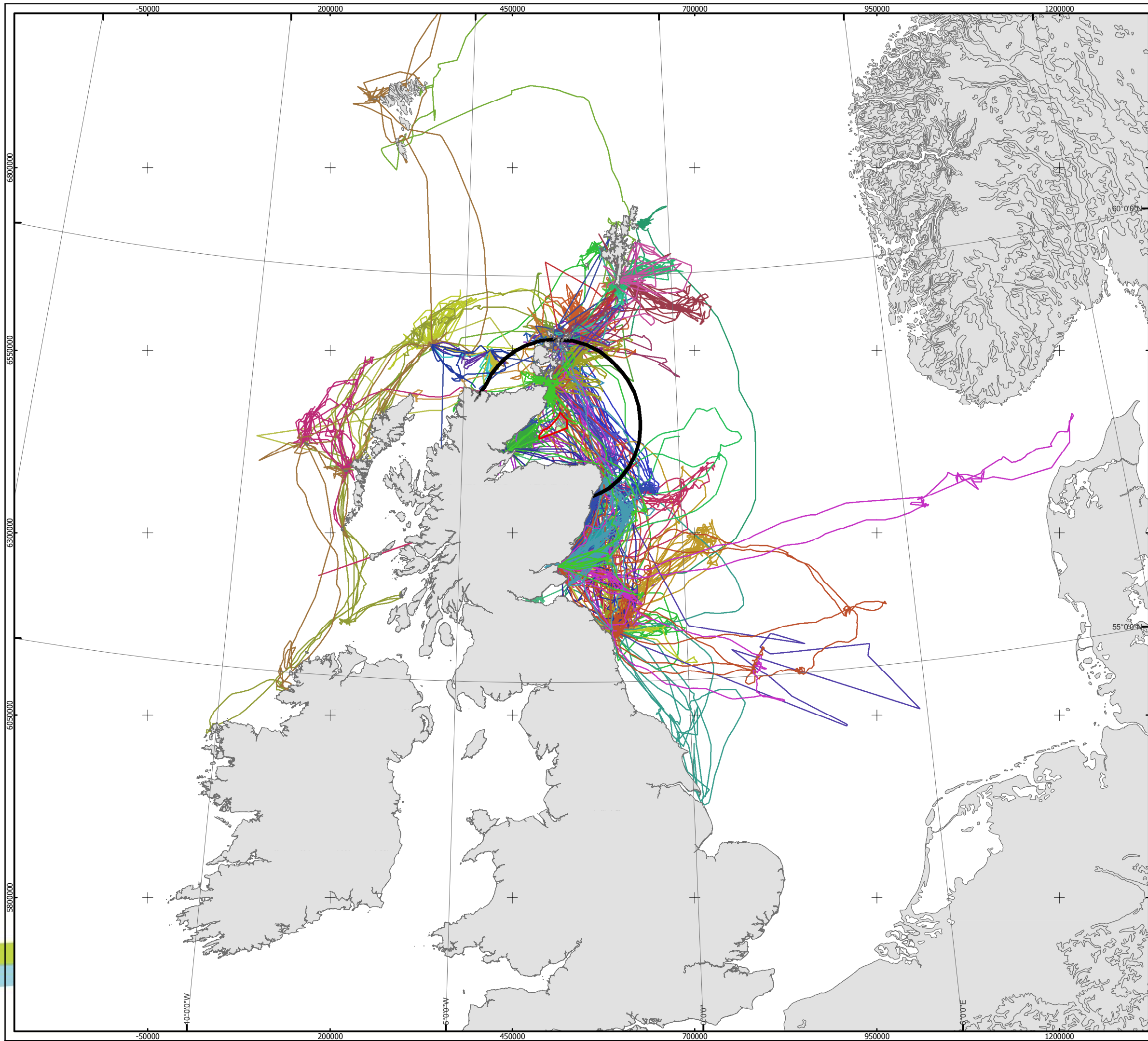
Produced: EC
Reviewed: GH
Approved: PH

Date: 06/06/2012 Revision: A
REF: 8460001-PPW0201-SMR-MAP-001

Figure 4.4-4 The extent of grey seal pup movements from the breeding sites where they were tagged

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KEY

- MORL Zone Boundary
- MacColl Windfarm
- Stevenson Windfarm
- Telford Windfarm
- MORL 100KM Buffer Zone

Adult Grey Seal Tracks

- Individual Track
(colours represent different individuals)

Horizontal Scale: 1:5,000,000 A3 Chart

0 130,000 260,000 Meter

Geodetic Parameters: WGS84 UTM Zone 30N

Produced: EC
Reviewed: GH
Approved: PH

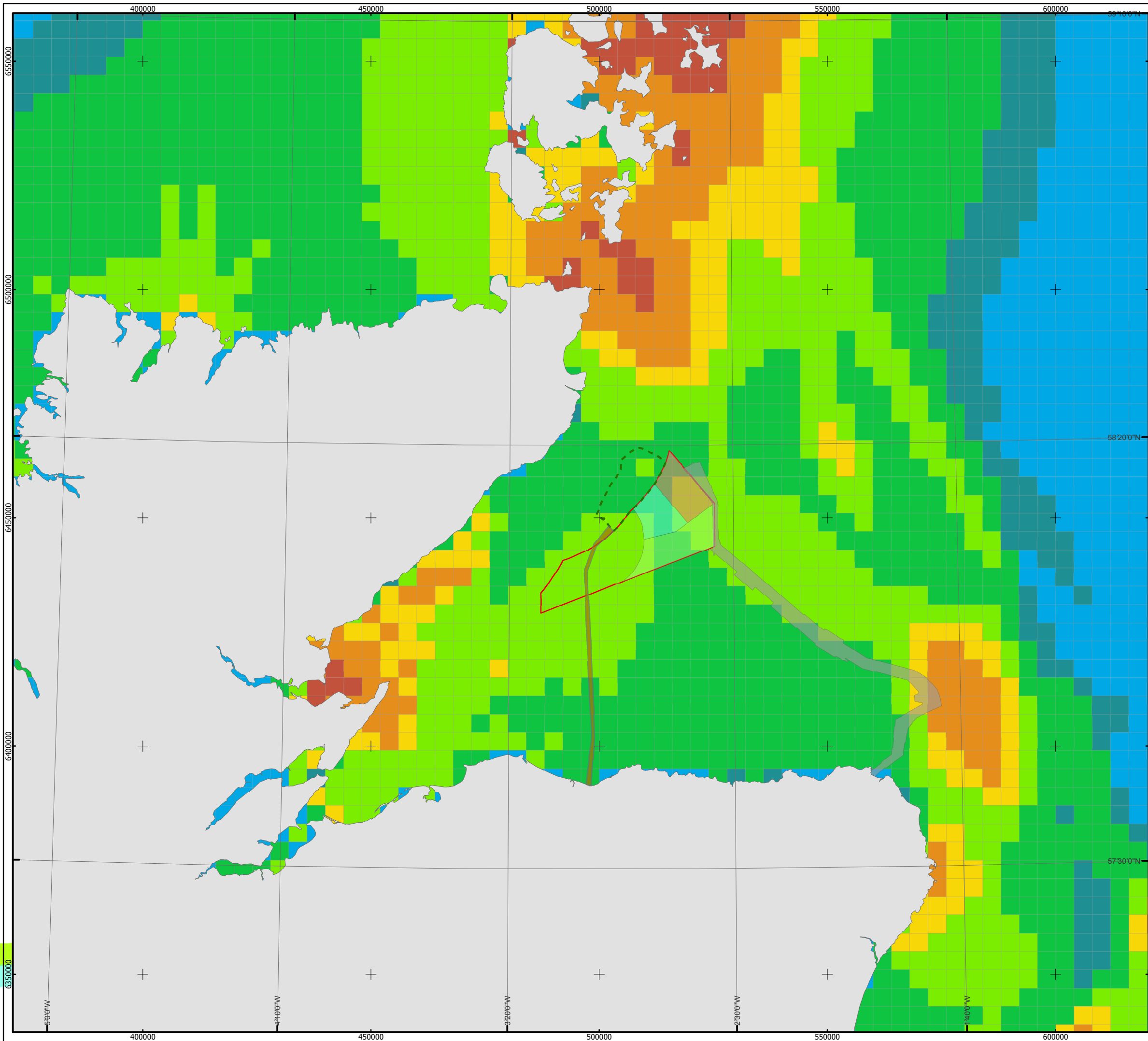
Date: 06/06/2012 Revision: A

REF: 8460001-PPW0201-SMR-MAP-001

Figure 4.4-5 Tracks of grey seals (aged one year and above) which, at least once while they were tagged, entered a 100 km buffer zone around the proposed MORL wind farm site.

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KEY

- Moray Offshore Transmission Infrastructure
- Beatrice Offshore Transmission Infrastructure
- BOWL Zone Boundary
- MacColl Windfarm
- Stevenson Windfarm
- Telford Windfarm
- MORL Zone Boundary

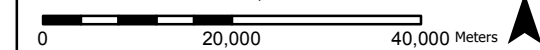
Spatial Usage of grey seals

No of seals per 4km2 grid cell

- 0 - 0.5
- 0.5 - 1
- 1 - 2.5
- 2.5 - 5
- 5 - 10
- 10 - 50
- >50

Horizontal Scale: 1:800,000

A3 Chart



Geodetic Parameters: WGS84 UTM Zone 30N

Produced: KG
Reviewed: PH
Approved: CR

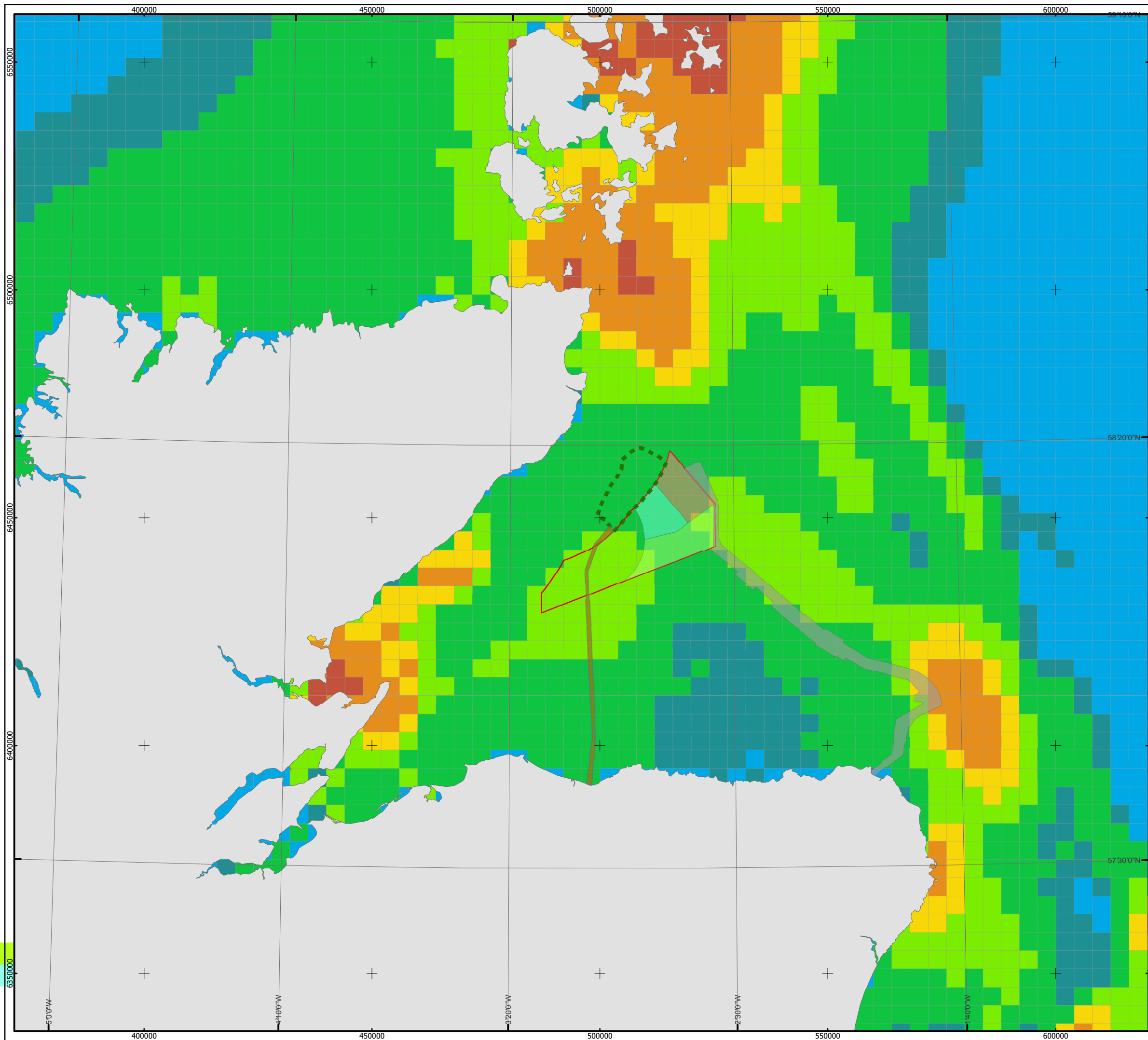
Date: 15/05/2012 Revision: B

REF: 8460001-PPW0201-SMR-MAP-003

Fig 4.4-6 Spatial Usage of Grey Seals around MORL and BOWL

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KEY

- Grey rectangle: Moray Offshore Transmission Infrastructure
- Brown rectangle: Beatrice Offshore Transmission Infrastructure
- Dashed green line: BOWL Zone Boundary
- Light green rectangle: MacColl Windfarm
- Light blue rectangle: Stevenson Windfarm
- Pink rectangle: Telford Windfarm
- Red outline: MORL Zone Boundary

At-sea Usage of grey seals

No of seals per 4km2 grid cell

- Blue: 0 - 0.5
- Dark blue: 0.5 - 1
- Green: 1 - 2.5
- Light green: 2.5 - 5
- Yellow: 5 - 10
- Orange: 10 - 50
- Red: >50

Horizontal Scale: 1:800,000 A3 Chart
0 20,000 40,000 Meters

Geodetic Parameters: WGS84 UTM Zone 30N

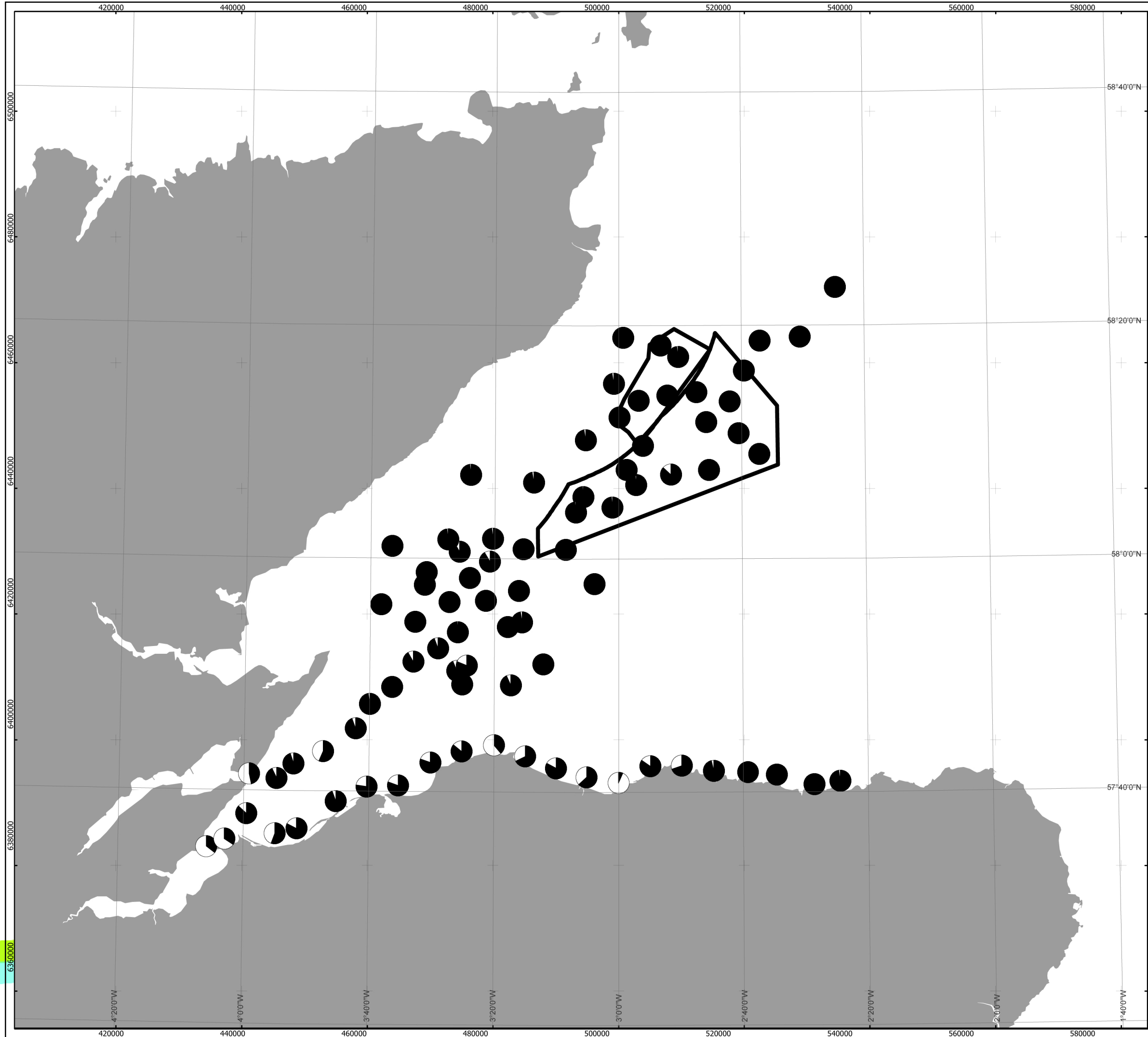
Produced: KG
Reviewed: PH
Approved: CR

Date: 15/05/2012 Revision: B
REF: 8460001-PPW0201-SMR-MAP-004

Fig 4.4-7 At-Sea Usage of Grey Seals around MORL and BOWL



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KEY
Proportion of detection positive days for harbour porpoise 2009 and 2010

-  Present
-  Absent

Horizontal Scale: 1:600,000 A3 Chart
0 15,000 30,000 Meters

Geodetic Parameters: WGS84 UTM Zone 30N

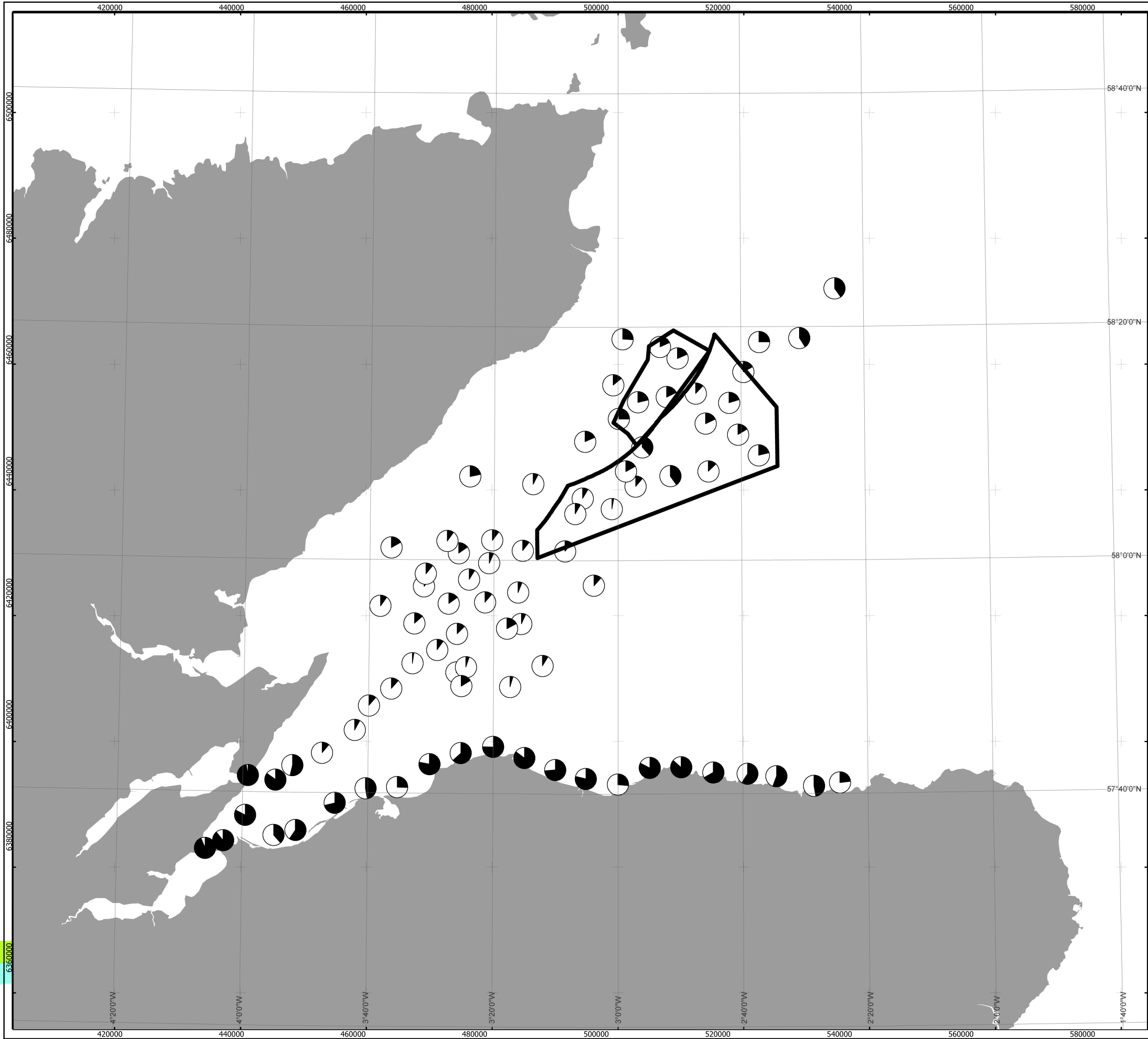
Produced: KLB
Reviewed: PMT
Approved: PH

Date: 19/05/2012 Revision: A
REF: 8460001-PPW0201-UAB-MAP-002

Fig 4.4-8 Detection Days for Harbour Porpoise

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KEY
Proportion of detection positive days for dolphins 2009 and 2010

- Present
- Absent

Horizontal Scale: 1:600,000 A3 Chart
0 15,000 30,000 Meters

Geodetic Parameters: WGS84 UTM Zone 30N

Produced: KLB
Reviewed: PMT
Approved: PH

Date: 19/05/2012 Revision: A
REF: 8460001-PPW0201-UAB-MAP-003

Fig 4.4-9 Detection Days for Dolphins

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