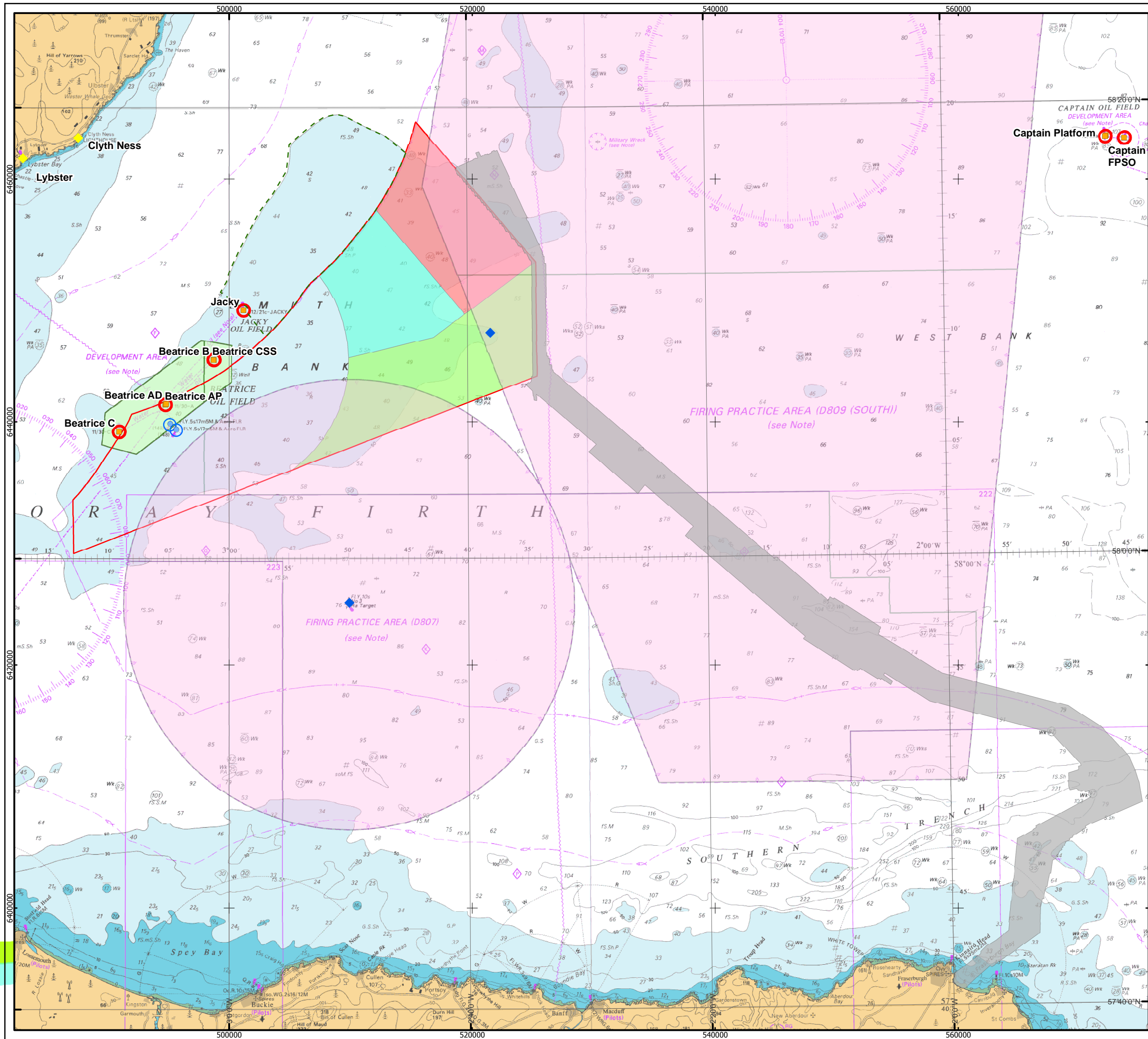


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Moray Offshore Renewables Ltd

KEY

- Platforms
- Safety Zones
- Beatrice Oil License Area
- Light
- Racon Buoy
- Beatrice Demo Turbines
- Beatrice Turbines - 500m Buffer
- MOD Firing Practice Area
- BOWL Zone Boundary
- MORL Zone Boundary
- MacColl Windfarm
- Stevenson Windfarm
- Telford Windfarm
- Offshore Export Cable Route

Horizontal Scale: 1:300,000 A3 Chart
 0 7,500 15,000 Meters N

Geodetic Parameters: WGS84 UTM Zone 30N

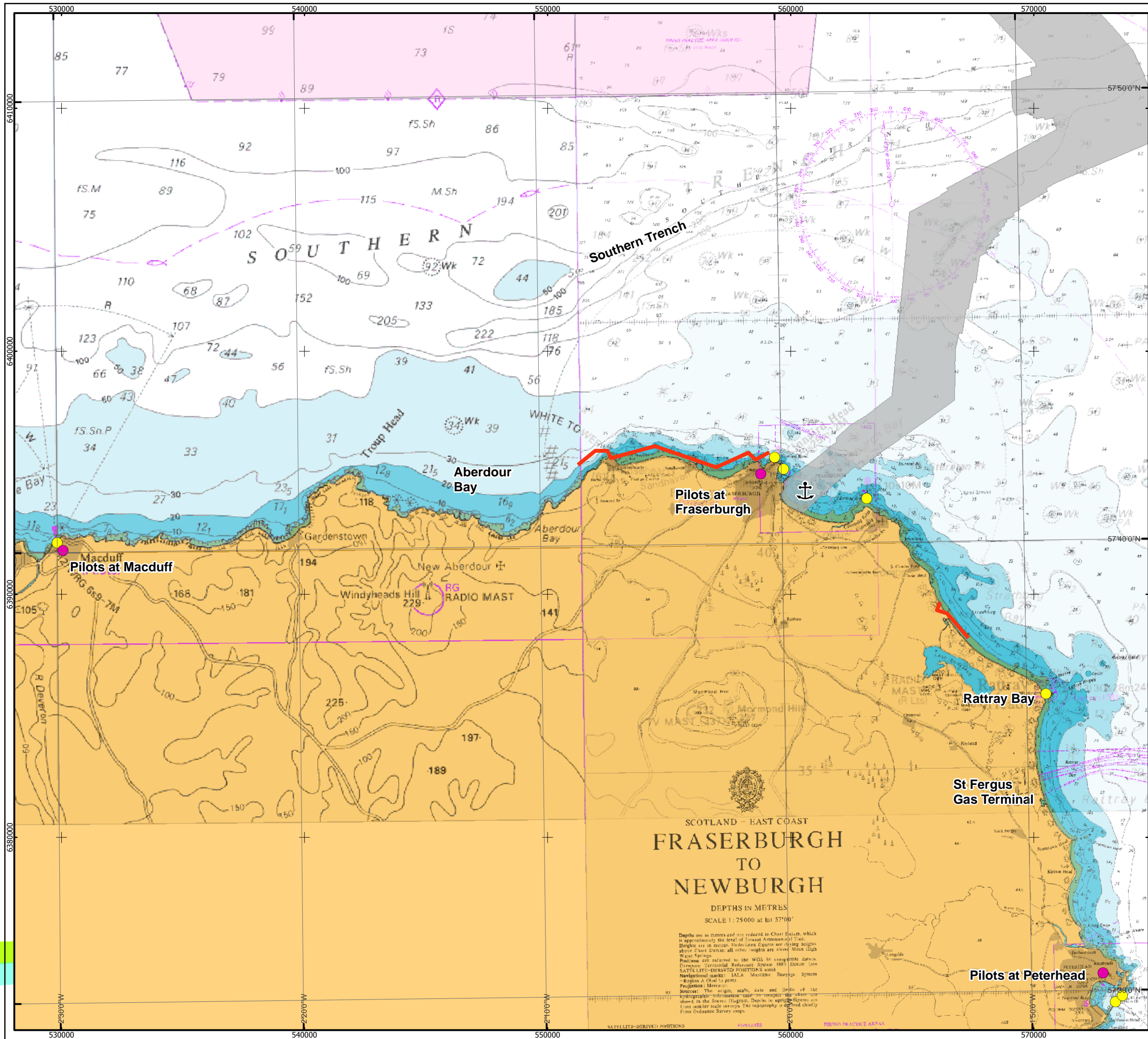
Produced: CH
 Reviewed: RDJ
 Approved: PH

Date: 09/05/2012 Revision: C
 REF: 8460001-PPW0201-ANA-MAP-001

Fig 5.2-1 - Navigational features relative to the proposed sites and Cable Route

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Moray Offshore Renewables Ltd

KEY

- Light
- Racon Buoy
- Pilotage Station
- MEHRA
- OFTO Export Cable Route
- MOD Firing Practice Area
- ⚓ Anchorage Area

Horizontal Scale: 1:150,000 A3 Chart
 0 3,800 7,600 Meters

Geodetic Parameters: WGS84 UTM Zone 30N

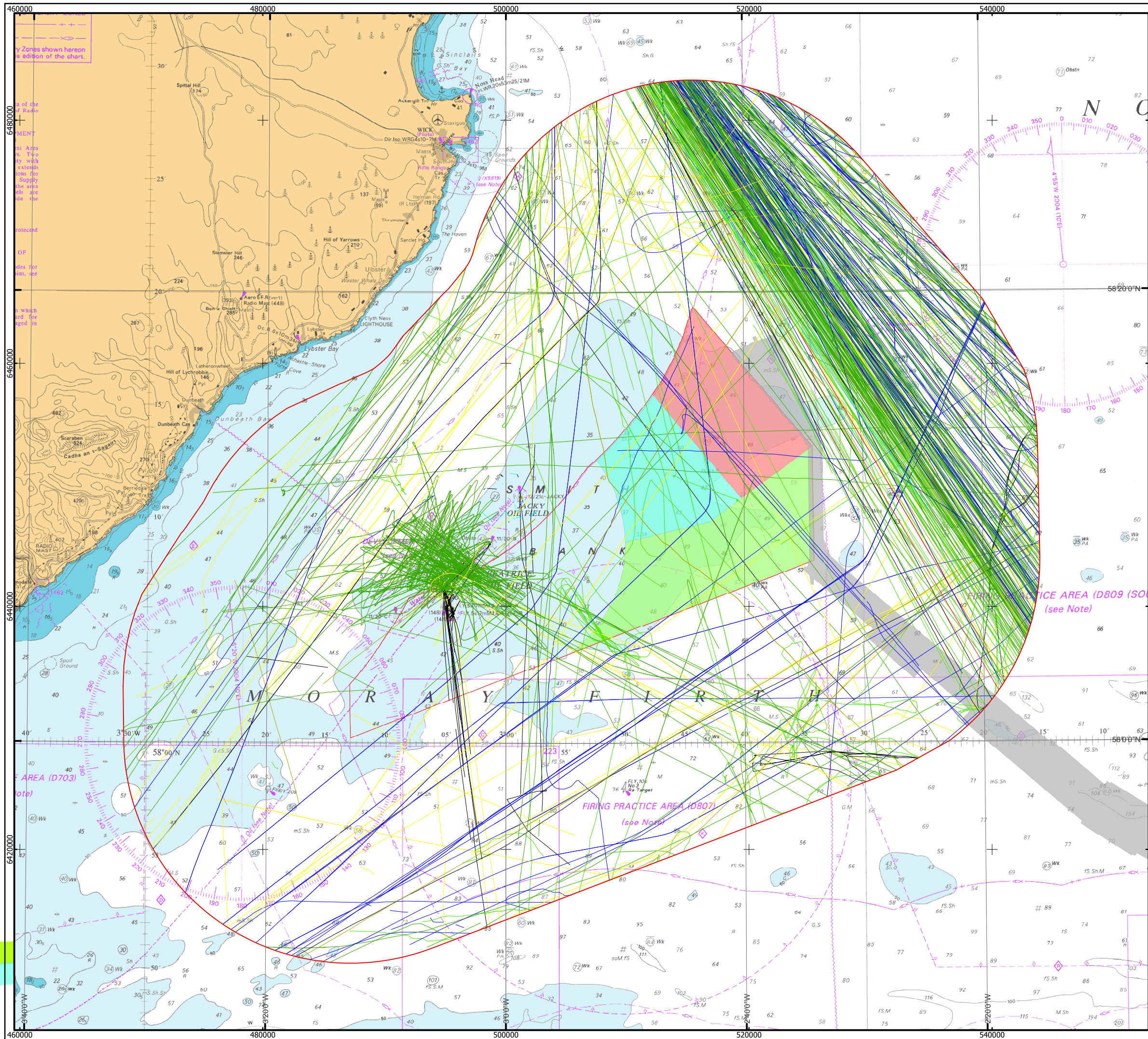
Produced: CH
 Reviewed: RDJ
 Approved: PH

Date: 09/05/2012 Revision: C
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Fig 5.2-2 - Navigational features relative to cable corridor

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Moray Offshore Renewables Ltd

KEY

-  Moray Firth Zone 10nm Buffer
-  Offshore Export Cable Route
-  MORL Zone Boundary
-  MacColl Windfarm
-  Stevenson Windfarm
-  Telford Windfarm

Ship Type

-  Unspecified
-  Fishing
-  Military
-  Dredger/Subsea
-  Tug
-  Passenger
-  Cargo
-  Tanker
-  Other Ship

Horizontal Scale: 1:300,000 A3 Chart
0 7,500 15,000 Meters

Geodetic Parameters: WGS84 UTM Zone 30N

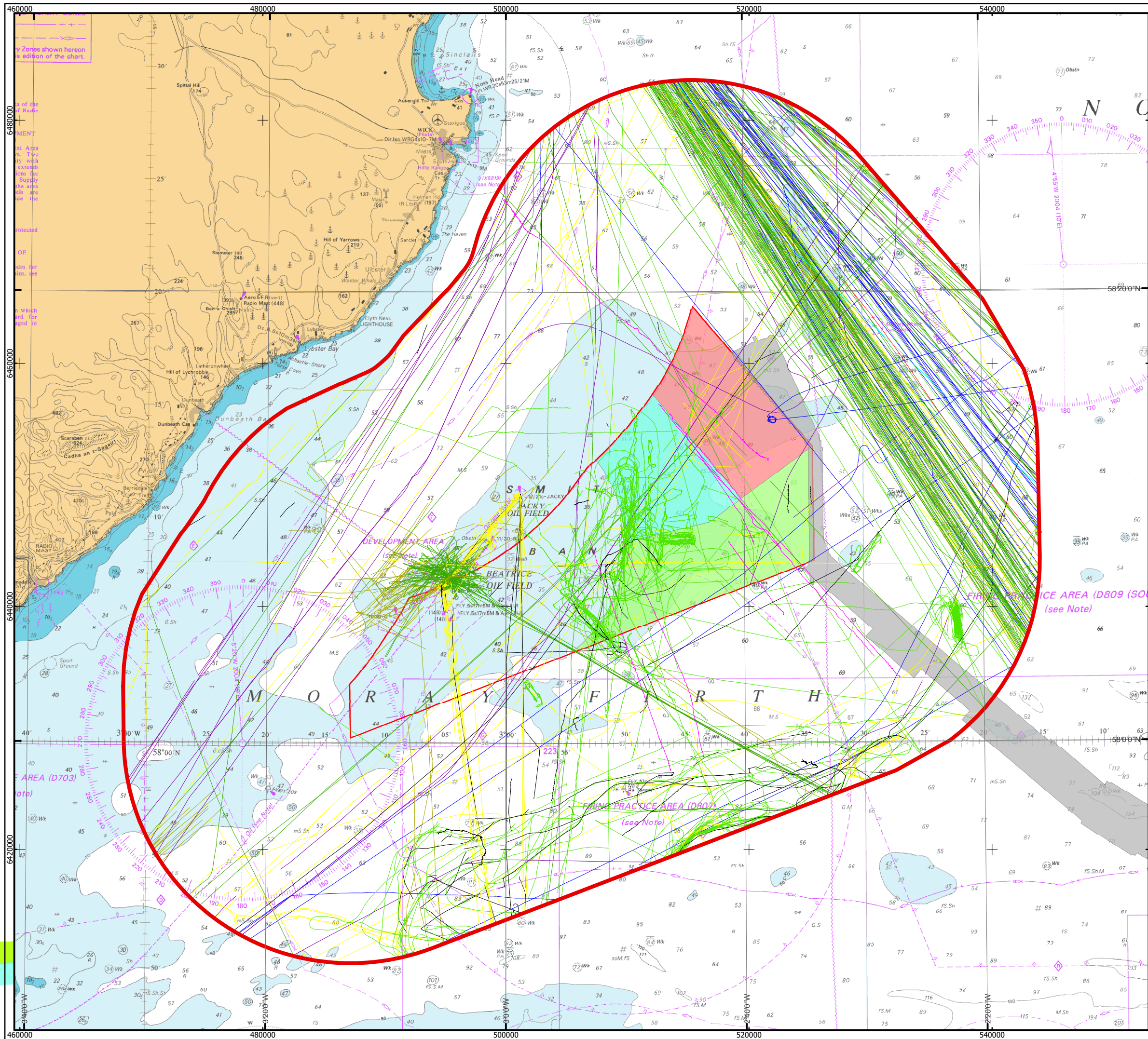
Produced: CH
Reviewed: RDJ
Approved: PH

Date: 09/05/2012 Revision: C
REF: 8460001-PPW0201-ANA-MAP-003

Fig 5.2B - Combined AIS and Radar Tracks by Ship Type (Gargano Survey, 38 Days)

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Moray Offshore Renewables Ltd

KEY

- Moray Firth Zone 10nm Buffer
- Ship Type**
- Unspecified
- Fishing
- Military
- Dredger/Subsea
- Tug
- Passenger
- Cargo
- Tanker
- Other Ship
- Recreation
- Offshore Export Cable Route
- MORL Zone Boundary
- MacColl Windfarm
- Stevenson Windfarm
- Telford Windfarm

Horizontal Scale: 1:300,000 A3 Chart
N

Geodetic Parameters: WGS84 UTM Zone 30N

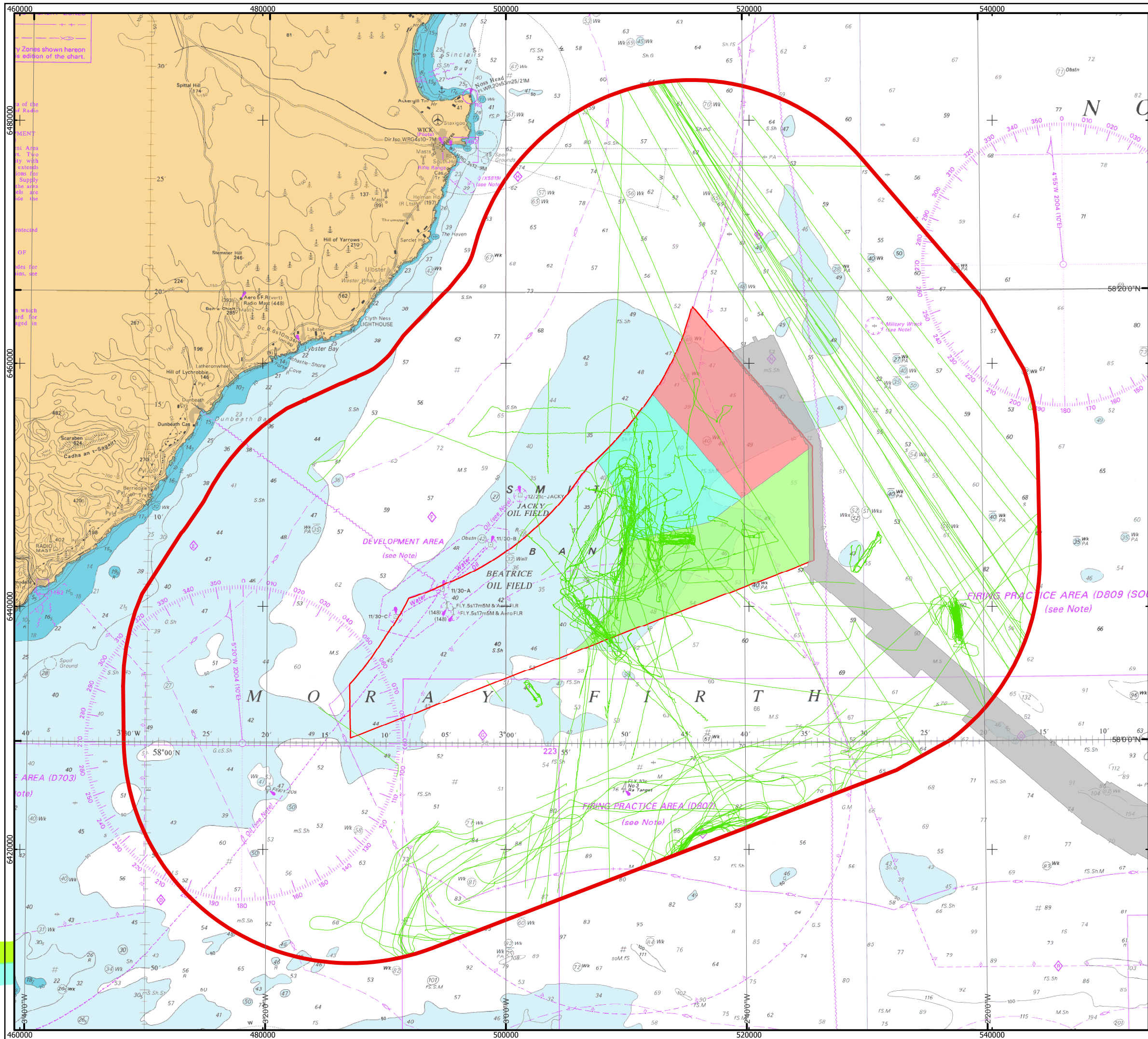
Produced: CH
 Reviewed: RDJ
 Approved: PH

Date: 09/05/2012 Revision: C
 REF: 8460001-PPW0201-ANA-MAP-004

Fig 5.2-4 - Combined AIS and Radar Tracks by Ship Type (Chartwell Survey, 31 Days)

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Moray Offshore Renewables Ltd

KEY

- Offshore Export Cable Route
 - MORL Zone Boundary
 - MacColl Windfarm
 - Stevenson Windfarm
 - Telford Windfarm
 - Moray Firth Zone 10nm Buffer
- Ship Type**
- Fishing

Horizontal Scale: 1:300,000 A3 Chart

Geodetic Parameters: WGS84 UTM Zone 30N

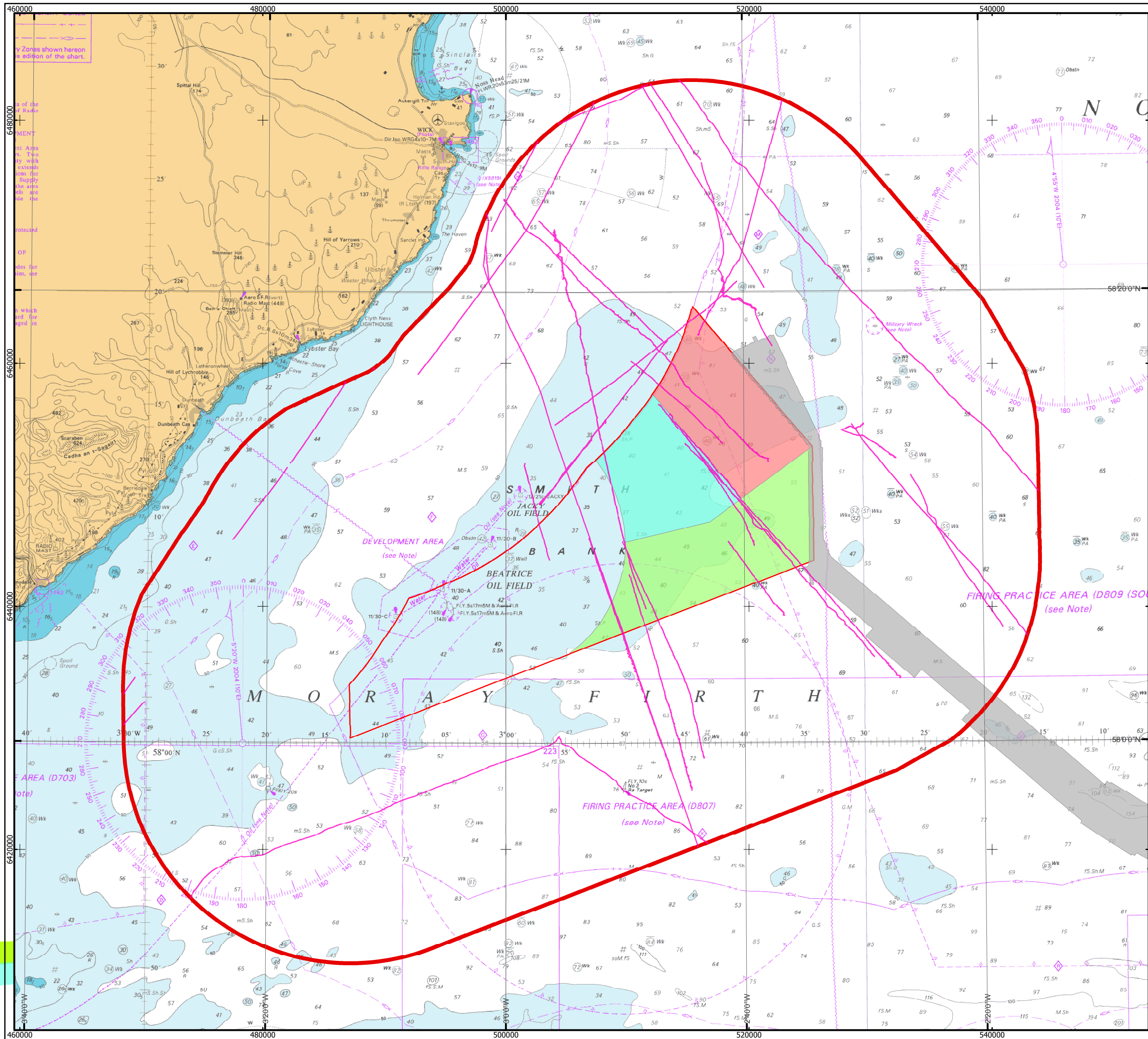
Produced: CH
 Reviewed: RDJ
 Approved: PH

Date: 09/05/2012 Revision: C
 REF: 8460001-PPW0201-ANA-MAP-005

Fig 5.2-5 - Fishing Vessel Tracks within 10nm of Moray Firth Zone (Chartwell Survey, 31 Days)

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Moray Offshore Renewables Ltd

KEY

- Offshore Export Cable Route
- MORL Zone Boundary
- MacColl Windfarm
- Stevenson Windfarm
- Telford Windfarm
- Moray Firth Zone 10nm Buffer
- Recreational Ships

Horizontal Scale: 1:300,000 A3 Chart
0 7,400 14,800 Meters

Geodetic Parameters: WGS84 UTM Zone 30N

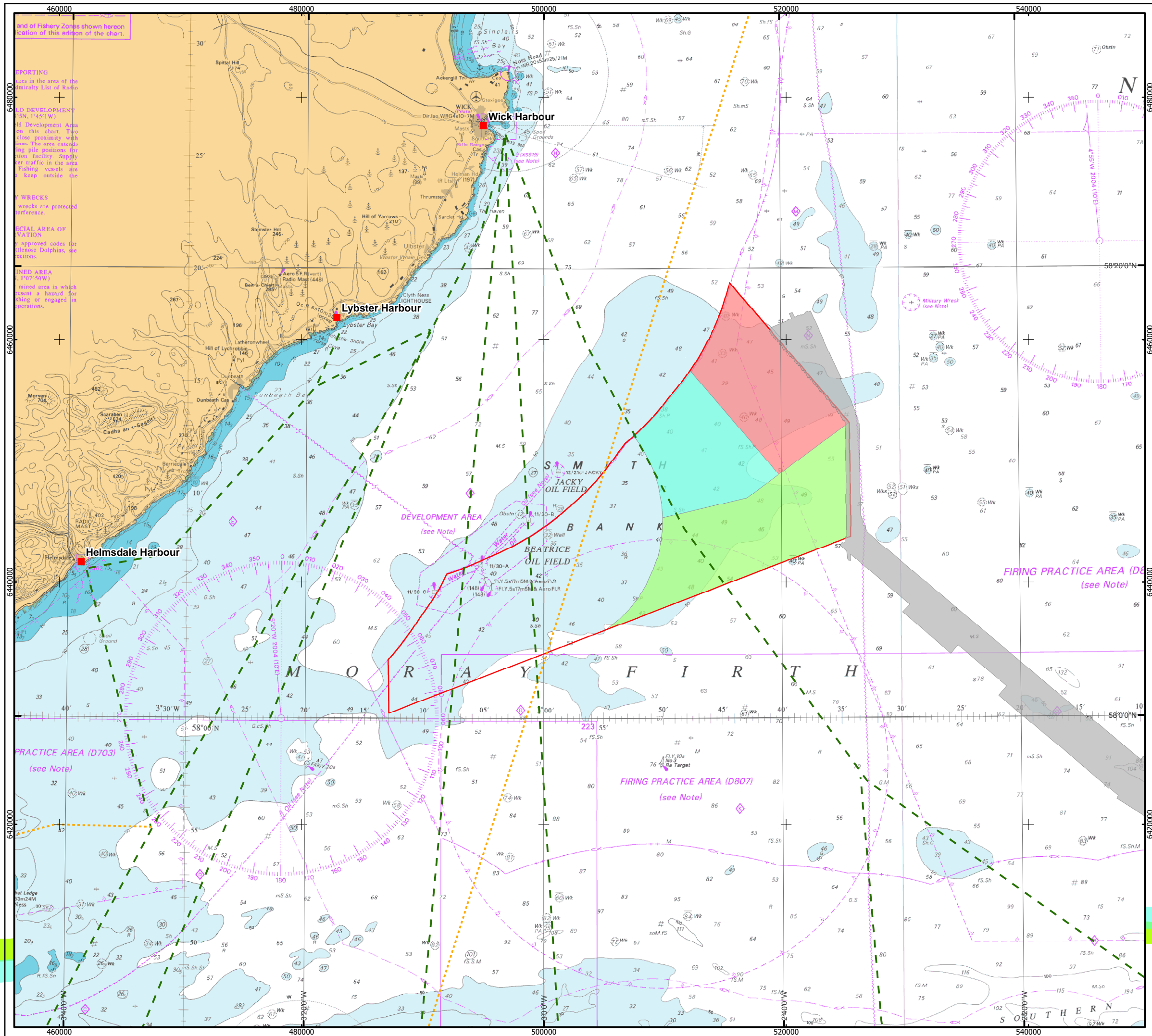
Produced: CH
Reviewed: RDJ
Approved: PH

Date: 09/05/2012 Revision: C
REF: 8460001-PPW0201-ANA-MAP-006

Fig 5.2-6 - Recreational Tracks within 10nm of Moray Firth Zone (Chartwell Survey, 31 Days)

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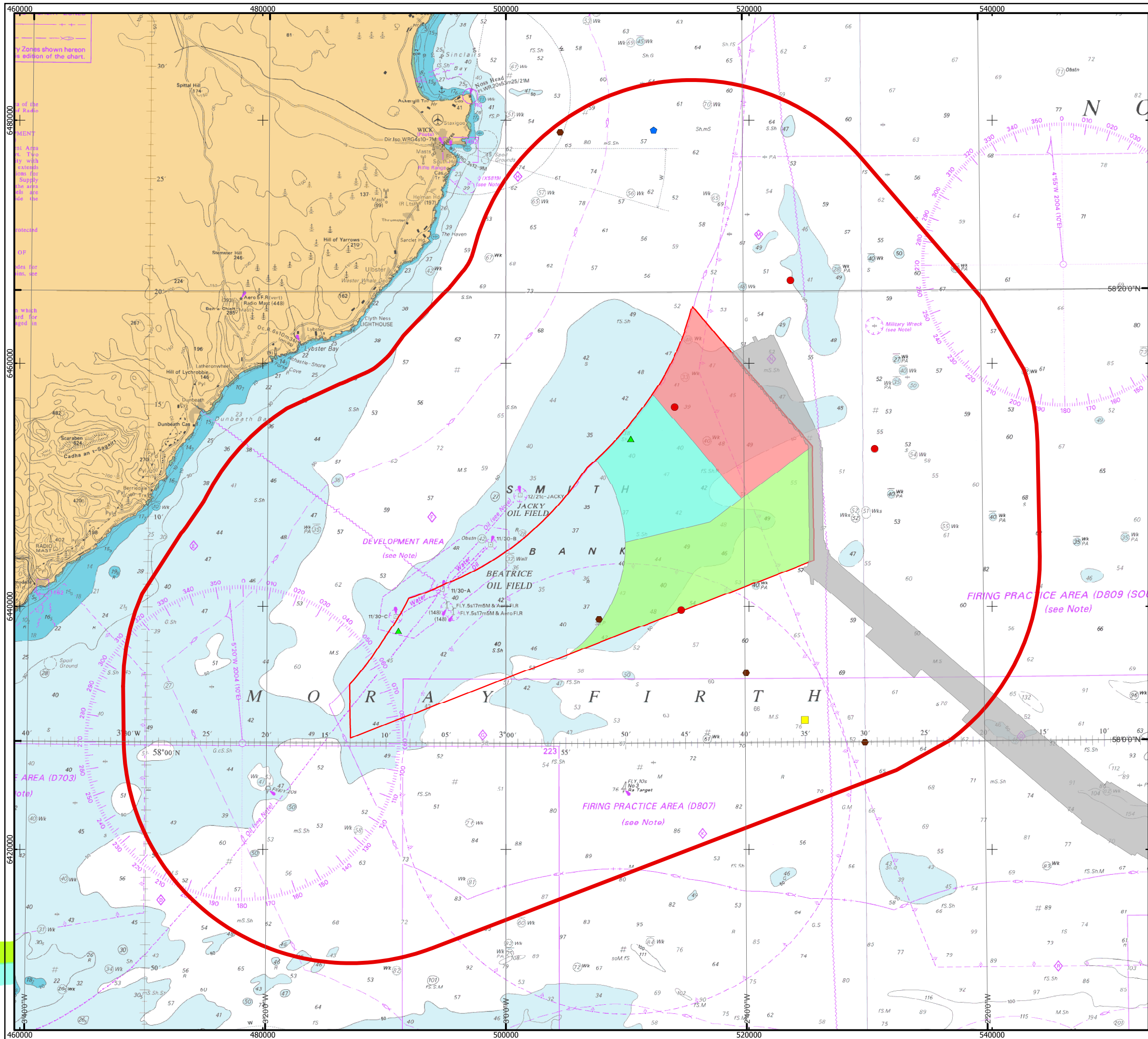
- KEY**
- RYA Scotland Marinas Round 3 Zone
 - Cruising Routes**
 - LightUse
 - - - MediumUse
 - Offshore Export Cable Route
 - MORL Zone Boundary
 - MacColl Windfarm
 - Stevenson Windfarm
 - Telford Windfarm

Horizontal Scale: 1:300,000 A3 Chart
 0 7,500 15,000 Meters

Geodetic Parameters: WGS84 UTM Zone 30N
 Produced: CH
 Reviewed: RDJ
 Approved: PH
 Date: 09/05/2012 Revision: C
 REF: 8460001-PPW0201-ANA-MAP-006

Fig 5.2-7 - RYA Recreation Routes relative to MORL Zone
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Moray Offshore Renewables Ltd

KEY

Incident Type

- Accident To Person
- Flooding/Foundering
- ▲ Hazardous Incident
- ◆ Heavy Weather Damage
- Machinery Failure
- Offshore Export Cable Route
- MORL Zone Boundary
- MacColl Windfarm
- Stevenson Windfarm
- Telford Windfarm
- Moray Firth Zone 10nm Buffer

Horizontal Scale: 1:300,000 A3 Chart
 0 7,500 15,000 Meters

Geodetic Parameters: WGS84 UTM Zone 30N

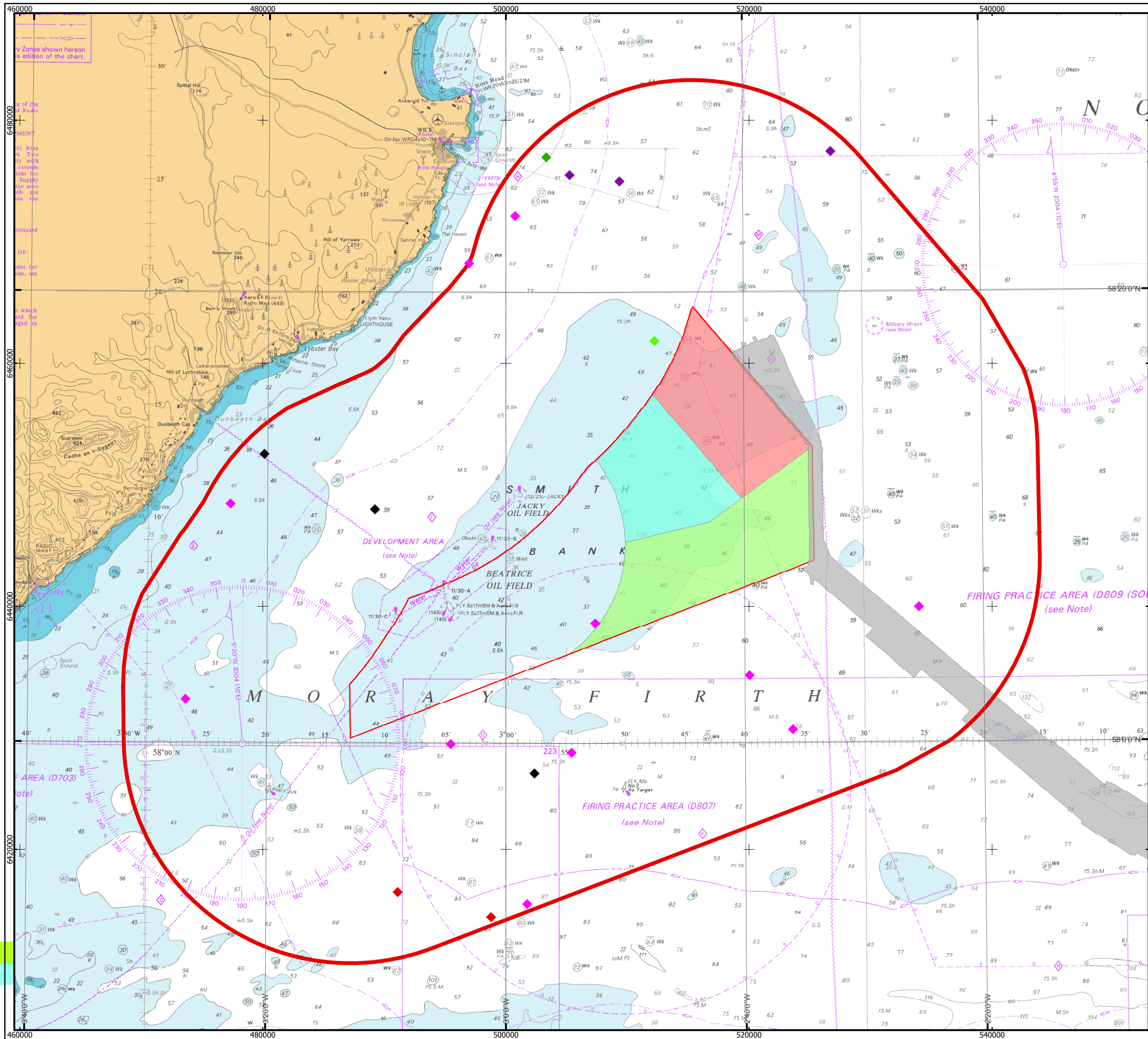
Produced: CH
 Reviewed: RDJ
 Approved: PH

Date: 09/05/2012 Revision: C
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Fig 5.2-8 - MAIB Incidents by Type (2001-2010)

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Moray Offshore Renewables Ltd

KEY

RNLI Casualty (2001-2010)

- ◆ Unspecified/Other
- ◆ Person
- ◆ Yacht
- ◆ Fishing Vessel
- ◆ Merchant Vessel
- ◆ Other Vessel
- Offshore Export Cable Route
- MORL Zone Boundary
- MacColl Windfarm
- Stevenson Windfarm
- Telford Windfarm
- Moray Firth Zone 10nm Buffer

Horizontal Scale: 1:300,000 A3 Chart
 0 7,500 15,000 Meters

Geodetic Parameters: WGS84 UTM Zone 30N

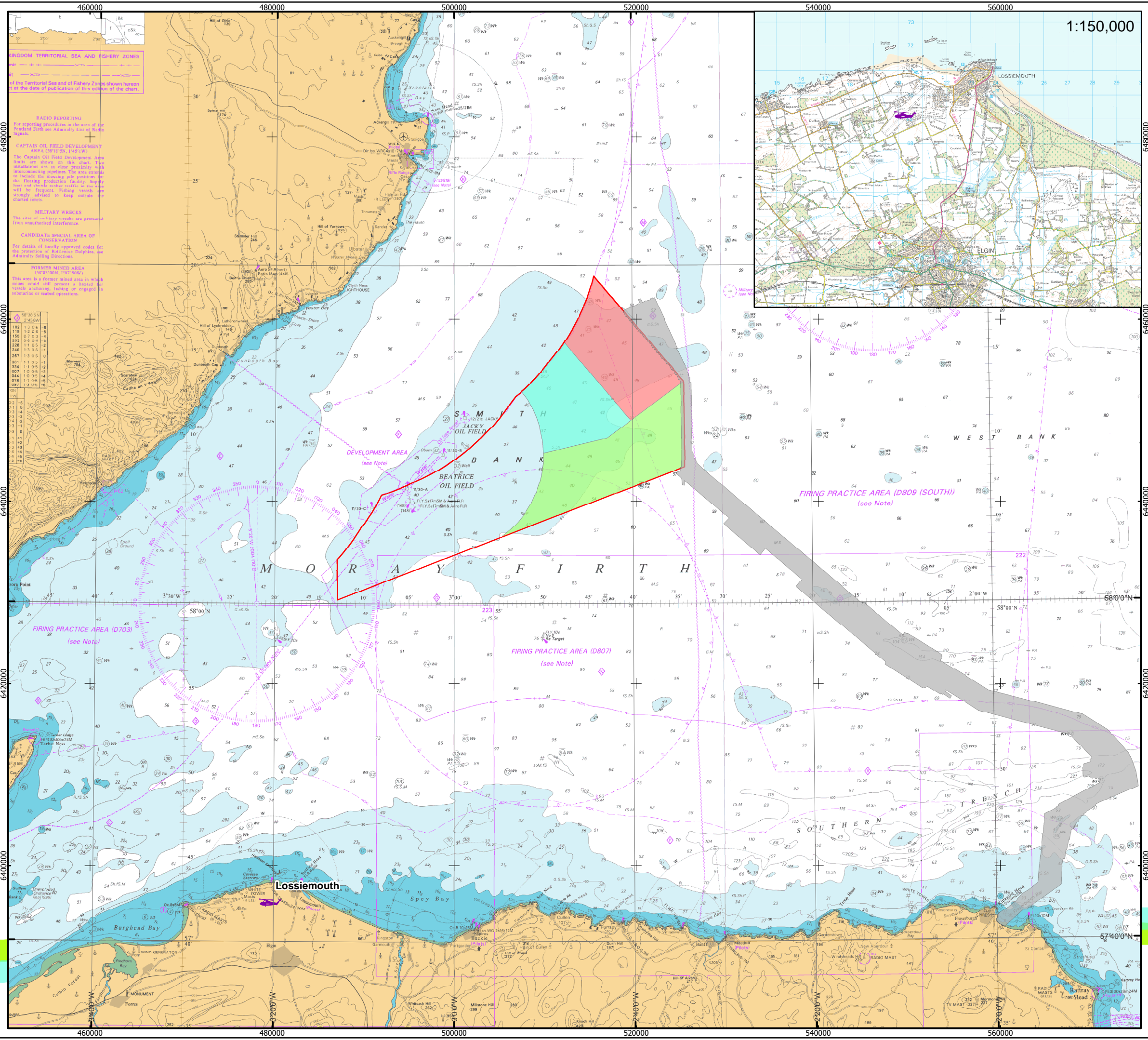
Produced: CH
 Reviewed: RDJ
 Approved: PH

Date: 09/05/2012 Revision: C
 REF: 8460001-PPW0201-ANA-MAP-009

Fig 5.2-9 - RNLI Incidents by Casualty (2001-2010)

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1:150,000



Moray Offshore Renewables Ltd

- KEY**
- RAF Lossiemouth
 - Offshore Export Cable Route
 - MORL Zone Boundary
 - MacColl Windfarm
 - Stevenson Windfarm
 - Telford Windfarm

Horizontal Scale: 1:400,000 A3 Chart N

Geodetic Parameters: WGS84 UTM Zone 30N

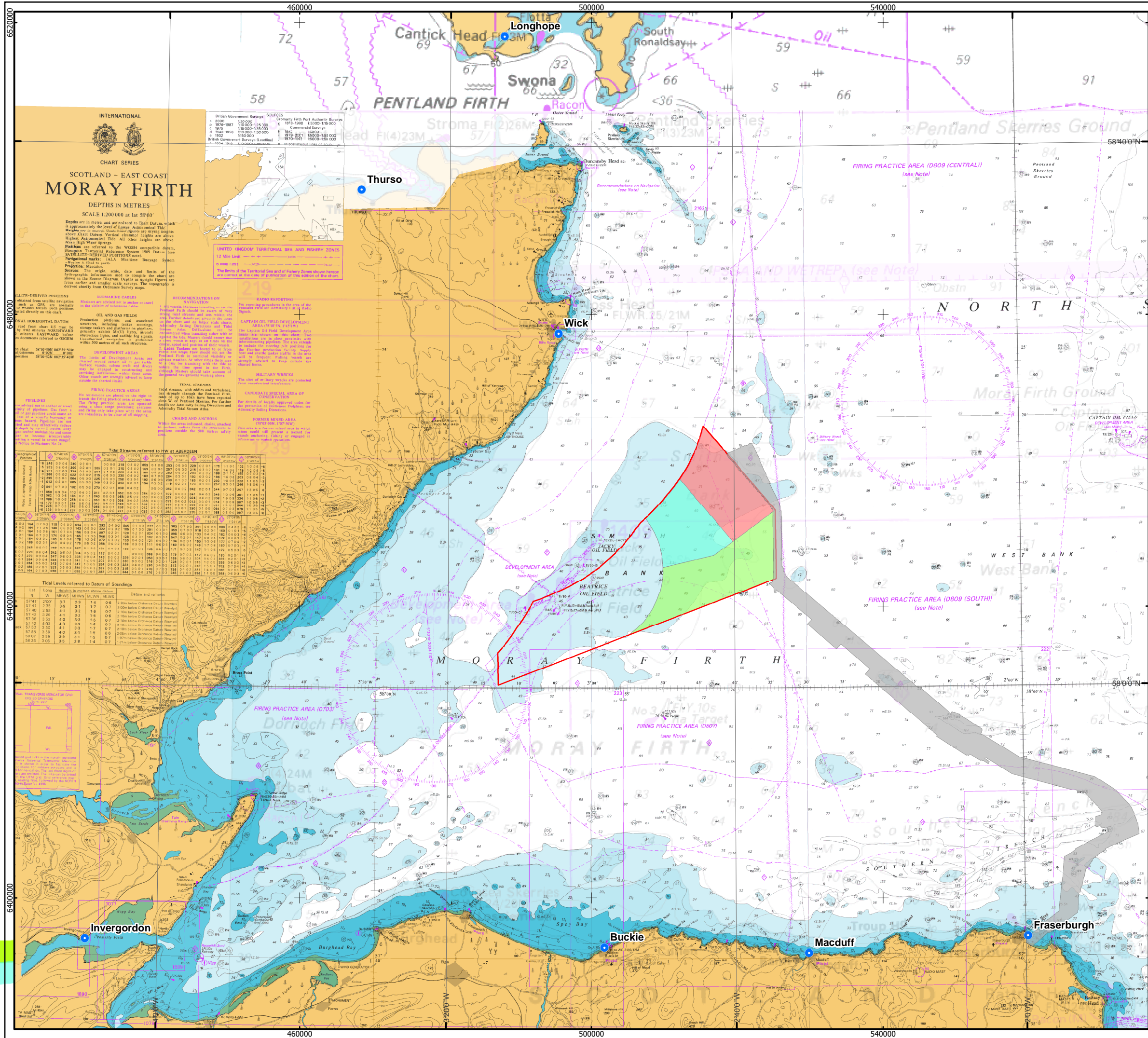
Produced: CH
 Reviewed: RDJ
 Approved: PH

Date: 09/05/2012 Revision: C
 REF: 8460001-PPW0201-ANA-MAP-010

Fig 5.2-10 - SAR Helicopter Bases

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Moray Offshore Renewables Ltd

KEY

- RNLI Lifeboat Stations
- Offshore Export Cable Route
- MORL Zone Boundary
- MacColl Windfarm
- Stevenson Windfarm
- Telford Windfarm

Horizontal Scale: 1:500,000 A3 Chart
N

Geodetic Parameters: WGS84 UTM Zone 30N

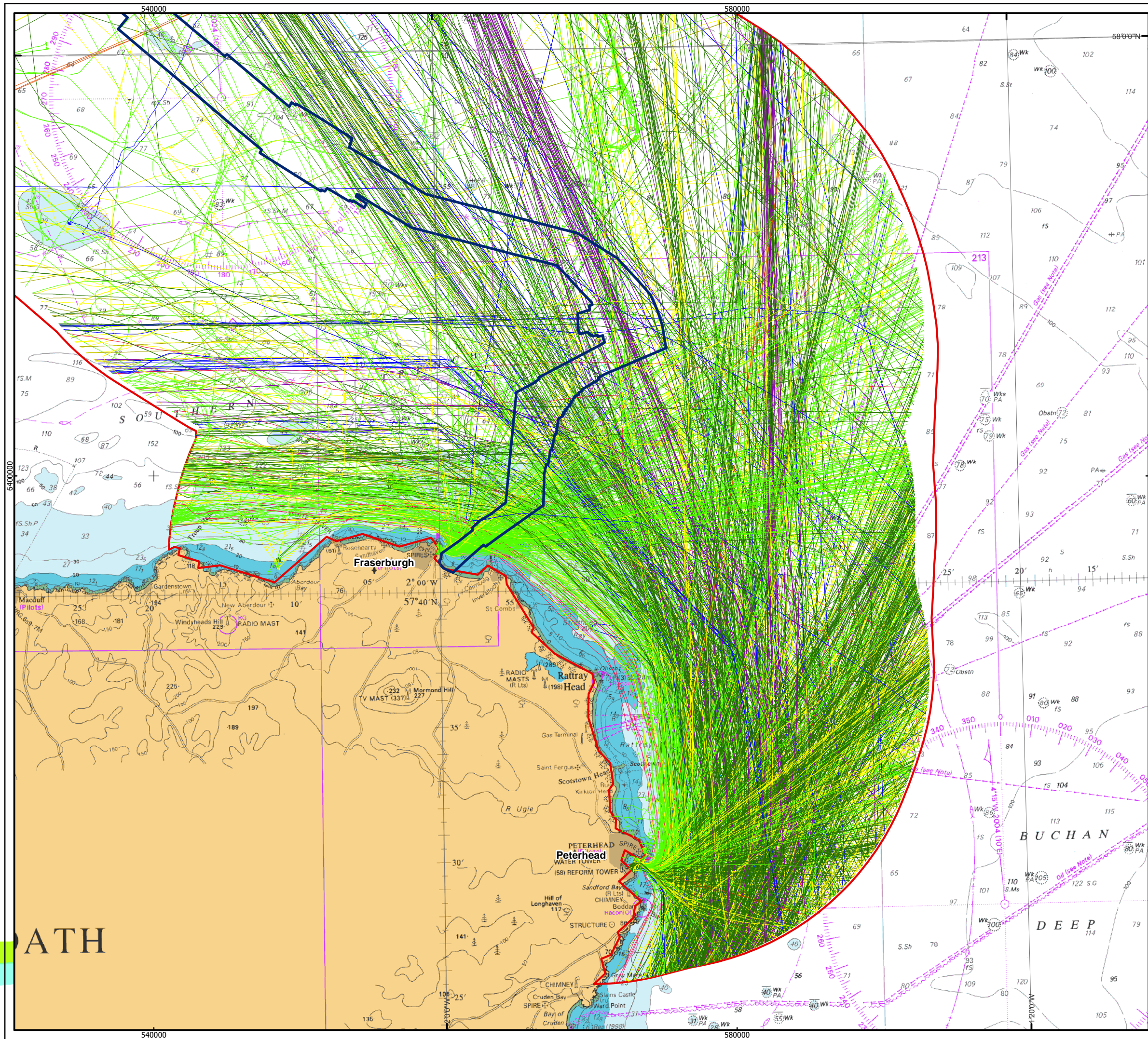
Produced: CH
 Reviewed: RDJ
 Approved: PH

Date: 09/05/2012 Revision: C
 REF: 8460001-PPW0201-ANA-MAP-011

**Fig 5.2-11 - RNLI
 Life Boat Bases**

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Moray Offshore Renewables Ltd

KEY

- Fishing
- Military
- Dredger/Subsea Ops
- HSC
- Tug
- Passenger
- Cargo
- Tanker
- Other Ship
- Recreational
- Export Cable Route 10nm Buffer
- Offshore Export Cable Route

Horizontal Scale: 1:250,000 A3 Chart N
 0 6,250 12,500 Meters

Geodetic Parameters: WGS84 UTM Zone 30N

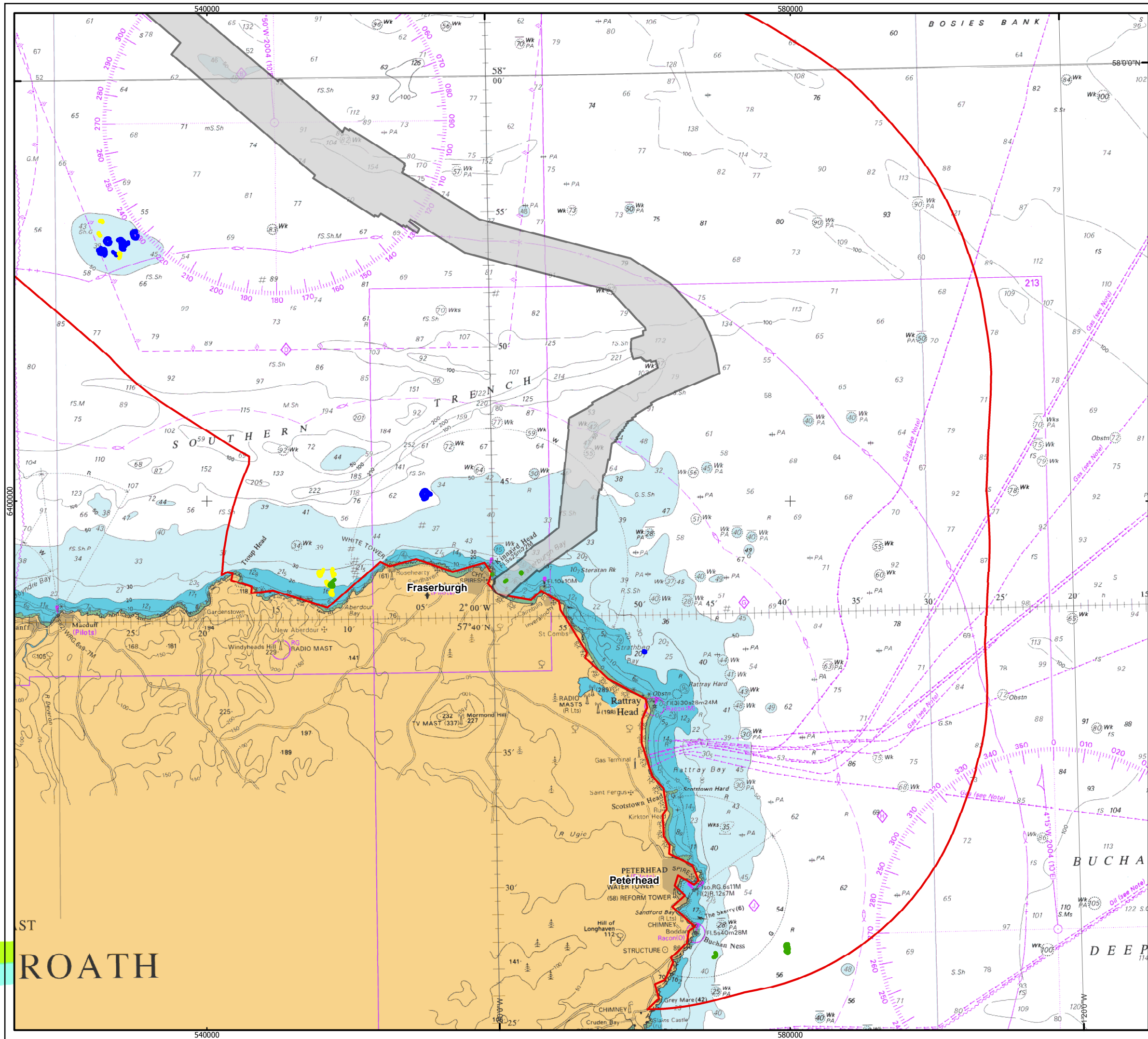
Produced: CH
 Reviewed: RDJ
 Approved: PH

Date: 09/05/2012 Revision: C
 REF: 8460001-PPW0201-ANA-MAP-012

Fig 5.2-12 - AIS Data relative to the southern section of the Cable Route (Ivero, 28 Days)

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KEY

Anchored Vessels Ship Type

- Cargo
- Tanker
- Other Ship
- Export Cable Route 10nm Buffer
- OFTO Export Cable Route

Horizontal Scale: 1:250,000 A3 Chart
 0 6,250 12,500 Meters

Geodetic Parameters: WGS84 UTM Zone 30N

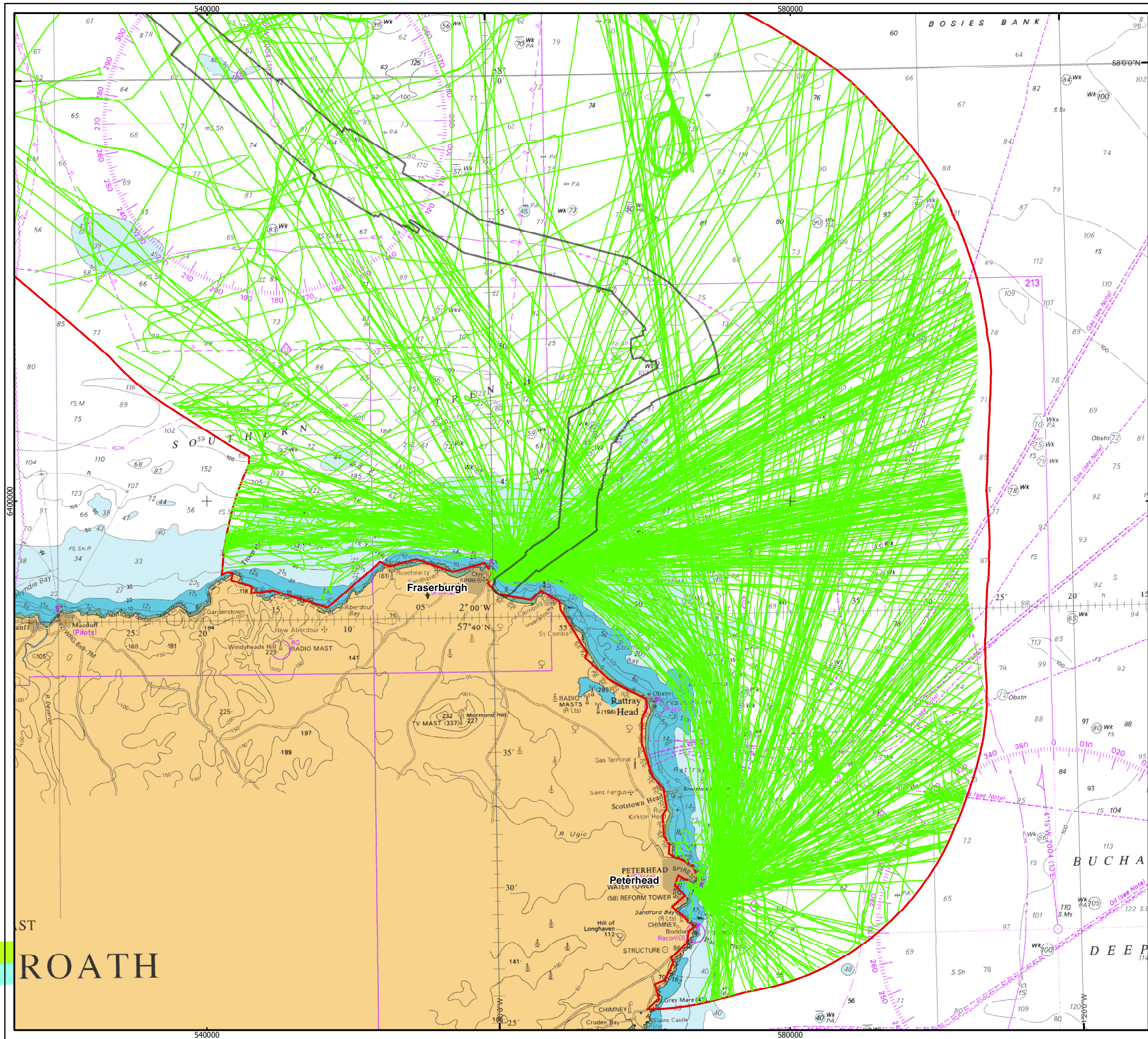
Produced: CH
 Reviewed: RDJ
 Approved: PH

Date: 09/05/2012 Revision: C
 REF: 8460001-PPW0201-ANA-MAP-013

Fig 5.2-13 - Anchored Vessels within 10nm Buffer

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Moray Offshore Renewables Ltd

KEY

- Offshore Export Cable Route
- Fishing Vessels
- Export Cable Route 10nm Buffer

Horizontal Scale: 1:250,000 A3 Chart
0 6,250 12,500 Meters

Geodetic Parameters: WGS84 UTM Zone 30N

Produced: CH
Reviewed: RDJ
Approved: PH

Date: 09/05/2012 Revision: C
REF: 8460001-PPW0201-ANA-MAP-014

Fig 5.2-14 - Fishing Vessels within 10nm (Ivero Survey, 28 Days)

Moray Offshore Renewables Ltd

KEY

- Offshore Export Cable Route
- Export Cable 10 nm buffer

Gear Type (2009)

- Beam Trawler
- Demersal Trawler
- Long Liner
- Scallop Dredger
- Trawler
- Unspecified/Other

Horizontal Scale: 1:400,000 A3 Chart N

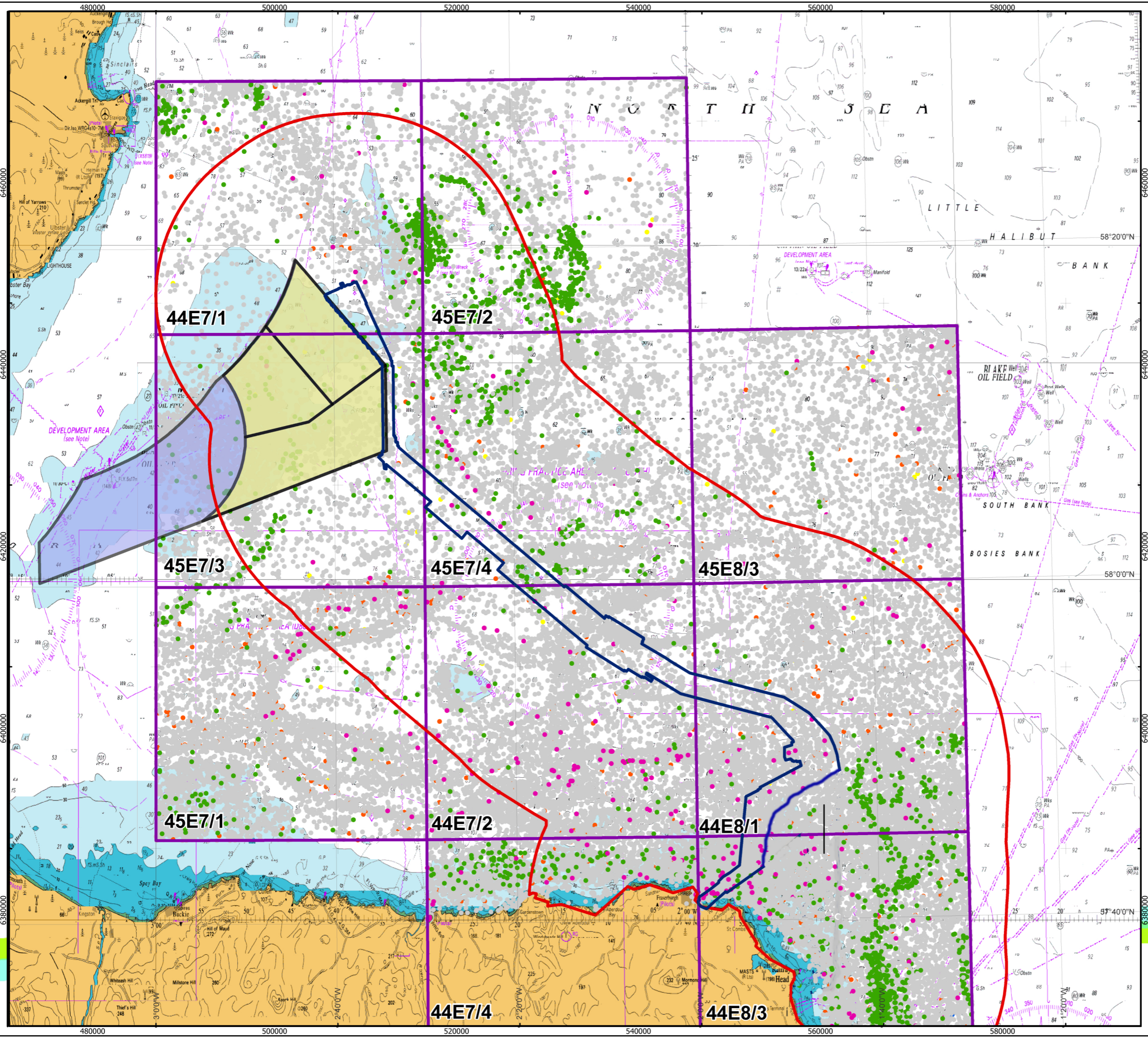
Geodetic Parameters: WGS84 UTM Zone 30N

Produced: PH
 Reviewed: RDJ
 Approved: PH

Date: 22/06/2012 Revision: A
 REF: 8460001-PPW0201-BAM-MAP-015

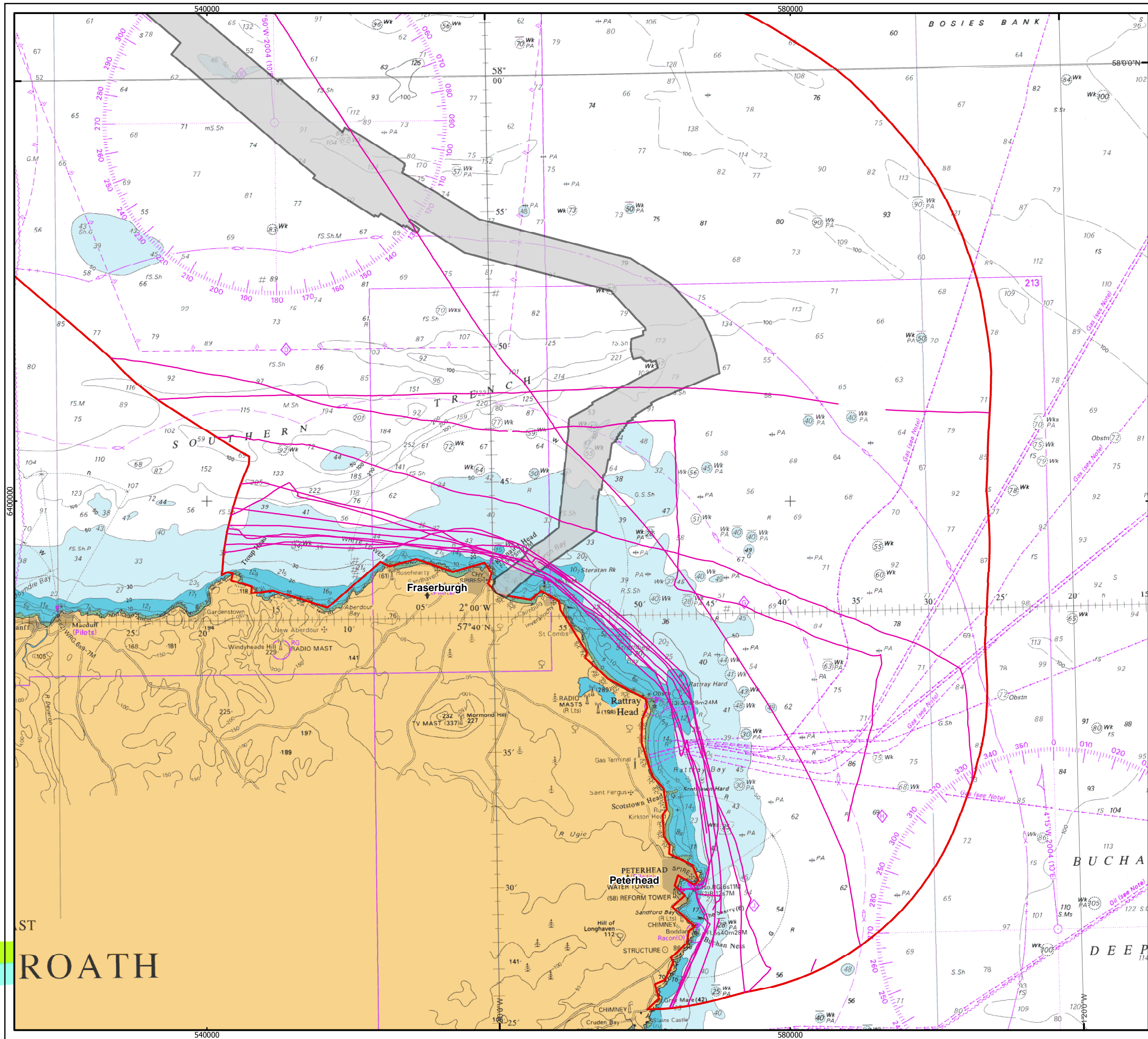
Fig 5.2-15 Fishing Vessel Positions by Gear Type

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Moray Offshore Renewables Ltd

KEY

- Recreational Vessels
- Offshore Export Cable Route
- Export Cable Route 10nm Buffer

Horizontal Scale: 1:250,000 A3 Chart
 0 6,250 12,500 Meters

Geodetic Parameters: WGS84 UTM Zone 30N

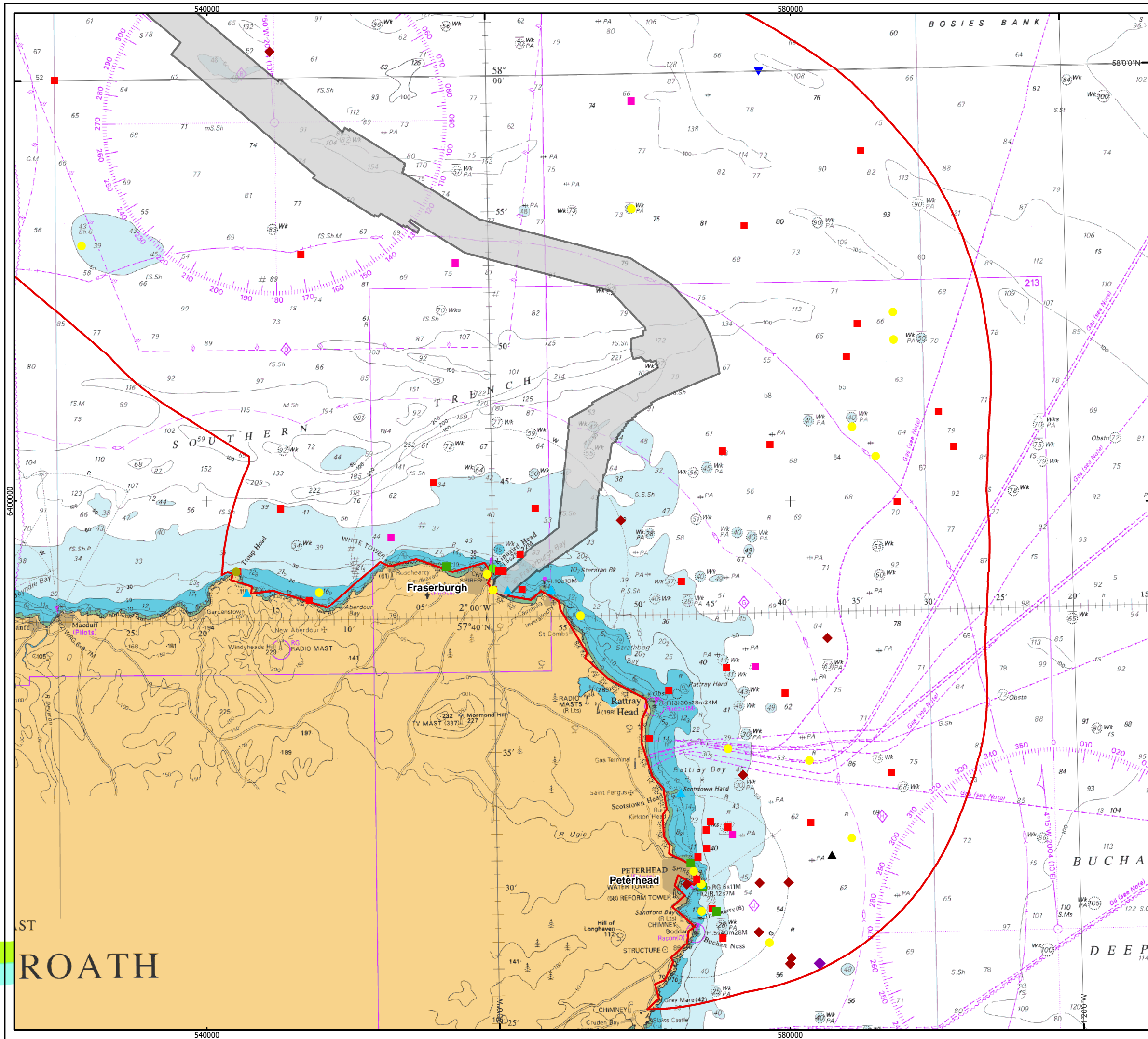
Produced: CH
 Reviewed: RDJ
 Approved: PH

Date: 11/05/2012 Revision: C
 REF: 8460001-PPW0201-ANA-MAP-016

Fig 5.2-16 Recreational Vessels within 10nm (Ivero Survey, 28 Days)

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Moray Offshore Renewables Ltd

KEY

- Offshore Export Cable Route
- Export Cable Route 10nm Buffer

**Incident Type
(MAIB 2001-2010)**

- Machinery Failure
- Accident to Person
- Fire/Explosion
- Grounding
- Collision
- Flooding/Foundering
- Hazardous Incident
- Contact
- Heavy Weather Damage
- Capsize/Listing
- Other

Horizontal Scale: 1:250,000 A3 Chart

Geodetic Parameters: WGS84 UTM Zone 30N

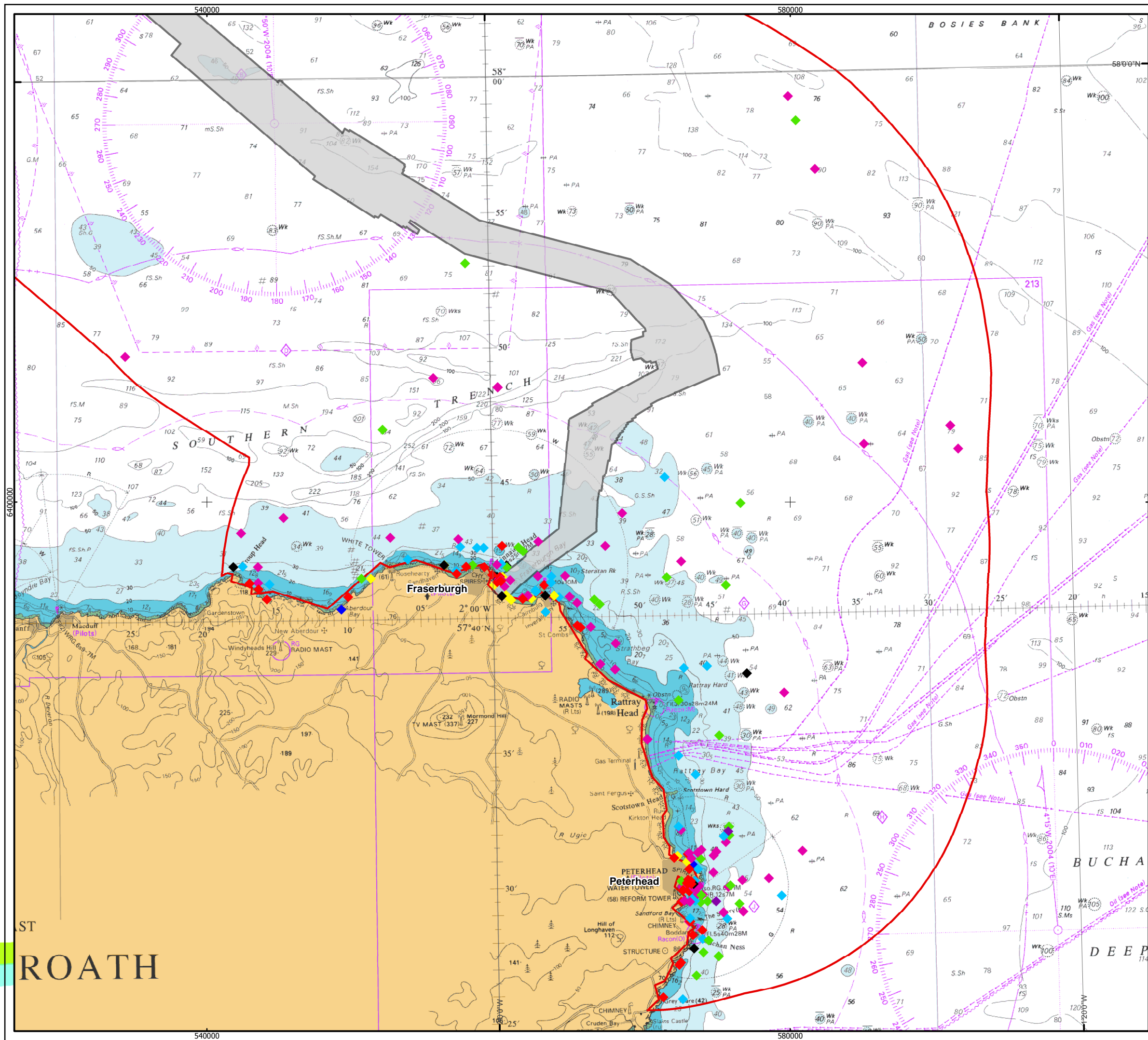
Produced: CH
 Reviewed: RDJ
 Approved: PH

Date: 11/05/2012 Revision: C
 REF: 8460001-PPW0201-ANA-MAP-017

**Fig 5.2-17 MAIB Incidents
by Type for Cable Landfall
(2001-2010)**

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Moray Offshore Renewables Ltd

KEY

- Offshore Export Cable Route
- Export Cable Route 10nm Buffer

RNLI Casualty (2001-2010)

- Unspecified/Other
- Person
- Personal Craft
- Yacht
- Power Boat
- Other Sail
- Fishing Vessel
- Other Vessel

Horizontal Scale: 1:250,000 A3 Chart

Geodetic Parameters: WGS84 UTM Zone 30N

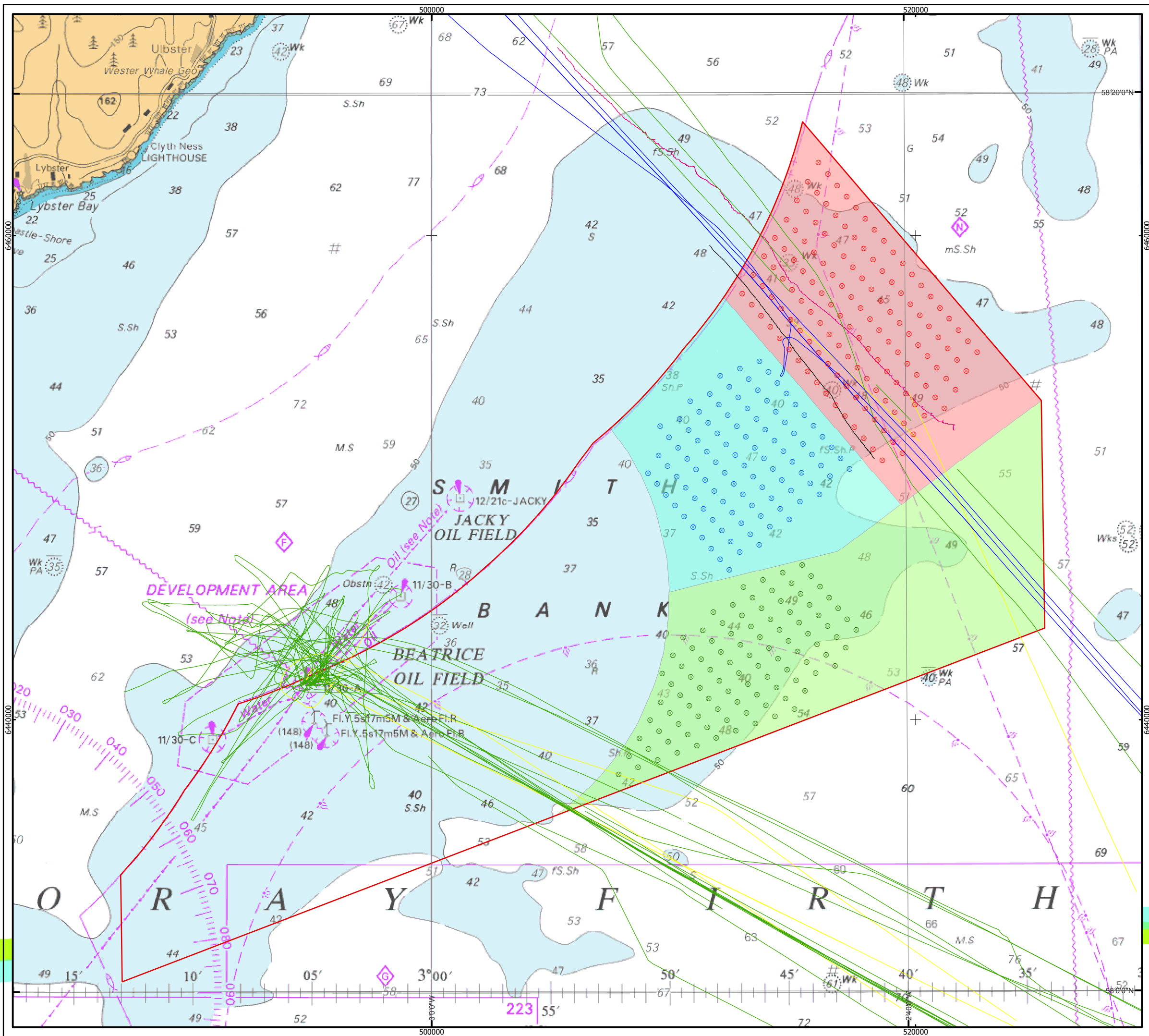
Produced: CH
 Reviewed: RDJ
 Approved: PH

Date: 11/05/2012 Revision: C
 REF: 8460001-PPW0201-ANA-MAP-018

Fig 5.2-18 RNLI Incidents by Casualty for Cable Landfall (2001-2010)

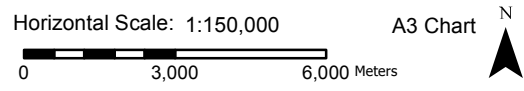
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- KEY**
- Indicative Turbines in Scenario 1**
- Stevenson
 - MacColl
 - Telford
- Ship Type**
- Unspecified
 - Cargo
 - Tanker
 - Other Ship
 - Recreation
- MORL Zone Boundary**
- MacColl Windfarm
 - Stevenson Windfarm
 - Telford Windfarm

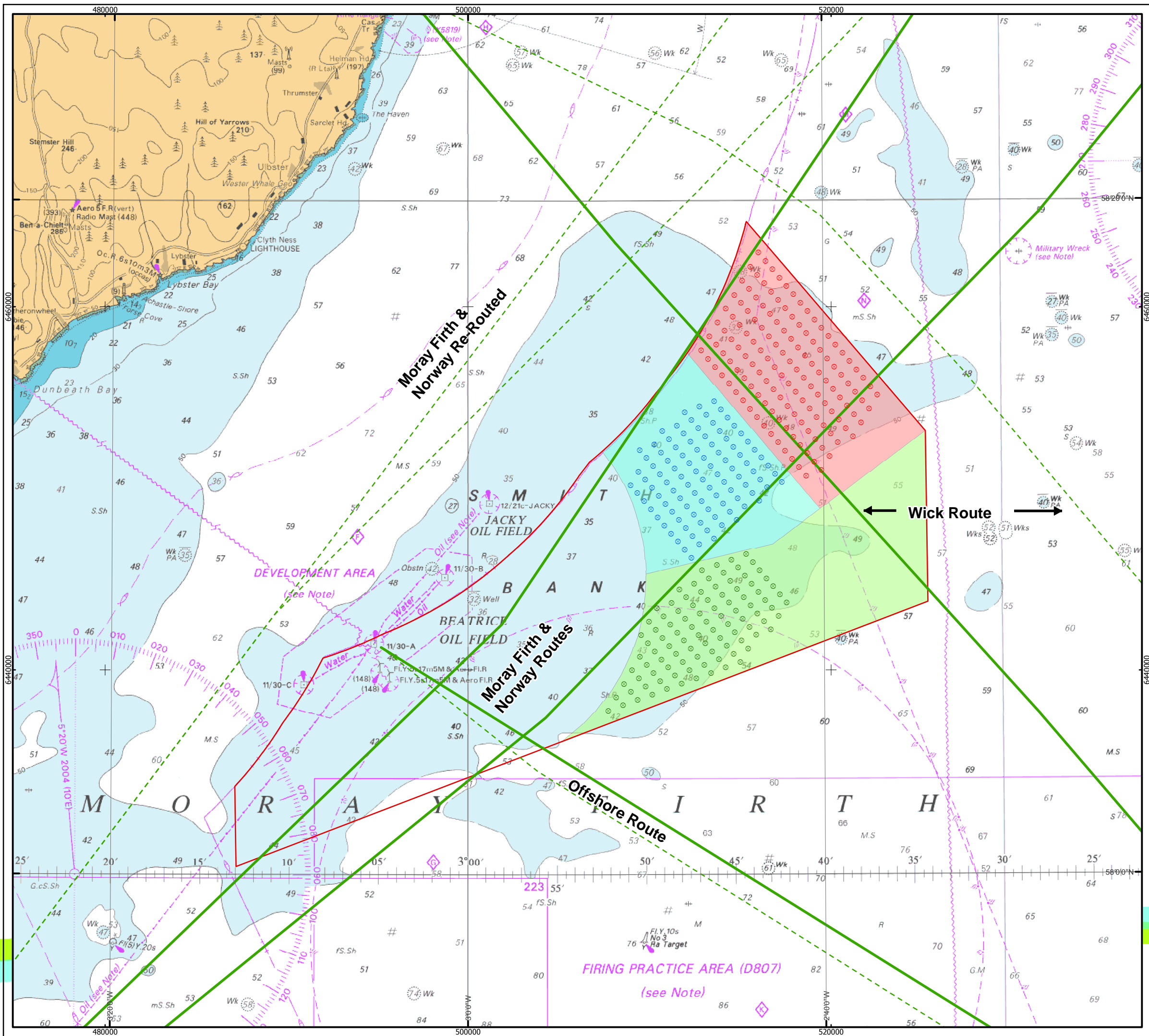


Geodetic Parameters: WGS84 UTM Zone 30N	
Produced: PH	
Reviewed: RDJ	
Approved: SP	
Date: 30/05/2012	Revision: C
REF: 8460001-PPW0201-ANA-MAP-019	

Fig 8.2-1 Survey Tracks by Type on Impacted Routes (Combined Survey, 69 Days)

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Moray Offshore Renewables Ltd

- KEY**
- Indicative Turbines in Scenario 1**
- Stevenson
 - MacColl
 - Telford
- Current Routes
- - - Anticipated Routes
- ▭ MORL Zone Boundary
- ▭ MacColl Windfarm
- ▭ Stevenson Windfarm
- ▭ Telford Windfarm

Horizontal Scale: 1:200,000 A3 Chart
 0 4,100 8,200 Meters

Geodetic Parameters: WGS84 UTM Zone 30N

Produced: PH
 Reviewed: RDJ
 Approved: SP

Date: 30/05/2012 Revision: C
 REF: 8460001-PPW0201-ANA-MAP-020

Fig 8.2-2 Current and Anticipated Mean Route Positions with Scenario 1

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